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2020



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Electrical Power Tools

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CONTENT

Layout and Measurement Tools

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NEW PRODUCTS



MSO3000E Series
Mixed Signal Oscilloscopes

Page 49

- Bandwidth: 150MHz/250MHz
- Sampling rate: 2.5GS/s
- Memory depth: 70Mpts
- Channels: 2/4
- 50MHz dual channel function generator
- 16 digital channels



UPO2000E Series
Ultra Phosphor Oscilloscopes

Page 53

- Bandwidth: 70MHz/100MHz
- Sampling rate: 1GS/s
- Memory depth: 56Mpts
- Channels: 2/4
- Waveform capture rate up to 80,000wfms/s



UTG900E Series
Function/Arbitrary Waveform Generators

Page 62

- Max frequency: 30MHz/60MHz
- Sampling rate: 200MS/s
- Channels: 2
- DIY market



UDP3300 Series
Industrial Linear DC Power Supplies

Page 64

- Output voltage: 0-30V
- Output current: 0-3A
- Output power: 195W
- Channels: 3
- CE/TUV certified



UDP1306C
Industrial Linear DC Power Supply

Page 65

- Output voltage: 0-32V
- Output current: 0-6A
- Output power: 202W
- Ripple and noise: $\leq 2\text{mVrms}$
- CE/TUV certified



UTP1306/UTP3300TFL-II Series
DC Power Supplies

Page 68

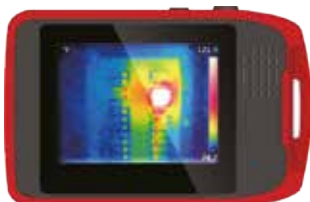
- Output voltage: 0-32V
- Output current: 0-3A/0-5A
- Output power: 96-160W
- Ripple and noise: $\leq 1\text{mVrms}$
- CE certified (UTP3300TFL-II)



UTi80P
Thermal Imager

Page 79

- 80×60 pixels
- Temperature range: -10~400°C
- <9Hz refresh rate
- Pocket size
- PC software



UTi120T
Thermal Imager

Page 79

- 120×90 pixels
- Temperature range: -20~400°C
- 25Hz/9Hz refresh rate
- PC software
- IP54



UTi165A
Thermal Imager

Page 79

- 160×120 pixels
- Temperature range: -10~400°C
- <9Hz refresh rate
- PC software
- IP65



UTi160/320/380 Series
Thermal Imagers

Page 80

- 160×120~384×288 pixels
- Temperature range: -20~650°C
- 50Hz refresh rate
- PC software
- IP54



UTi192/384/640 Series
Thermal Imagers

Page 81

- 192×144~640×480 pixels
- Temperature range: -20~1500°C
- 25Hz/9Hz refresh rate
- PC software
- IP54



UT12 Series AC Voltage Detectors

Page 83

- CAT IV 1000V
- IP67/2m drop proof (UT12E-ROW/M-ROW)
- 24~1000V AC detection
- Vibration/magnetic options (UT12E-ROW/M-ROW)
- Flashlight
- CE/ETL certified



UT123 Residential Digital Multimeter

Page 95

- CAT III 600V AC/DC
- Pocket sized
- 4000 display count
- EBTN LCD screen
- NCV



UT116 Series SMD Testers

Page 98

- DC voltage measurement (UT116A)
- Battery measurement (UT116C)
- 6000 display count
- Resistance, capacitance, continuity, diode measurement
- 20V/1mA LED and zener diode measurement
- Rotatable tweezers



UT890 Series TRMS Digital Multimeters

Page 101

- CAT II 1000V AC/DC
- CAT III 600V AC/DC
- 6000 display count
- True RMS
- NCV



UT201+/202+ 400A Digital Clamp Meters

Page 109

- AC current: 0.04~400A
- Display count: 4000
- True RMS
- NCV
- Current frequency: 50~100Hz
- Voltage frequency: 10~10kHz
- AC/DC voltage: 600V



UT202A+ 600A Digital Clamp Meter

Page 109

- AC current: 0.06~600A
- Display count: 6000
- True RMS
- NCV
- Current frequency: 50~100Hz
- Voltage frequency: 10~10kHz
- AC/DC voltage: 600V



UT203+/204+ 400A/600A Digital Clamp Meters

Page 108

- AC/DC current: 0.04~400A/0.06~600A
- Display count: 4000/6000
- True RMS/NCV
- Voltage frequency: 10~60kHz
- AC/DC voltage: 600V



UT200 Series 1000A True RMS Digital Clamp Meters

Page 111

- AC/DC current: 1000A
- Display count: 6000
- True RMS/NCV
- AC/DC voltage: 1000V
- 1000A inrush current (UT206B/207B/208B)



UT256A True RMS Fork Meter

Page 123

- AC current: 200A
- AC voltage: 1000V
- Frequency: 10~10kHz
- Display count: 6000
- True RMS/ Tricolor NCV



UT301+ Series Infrared Thermometers

Page 132

- Temperature range: -32~600°C
- D:S ratio: 12:1
- Color EBTN
- Time scheduled measurement
- LED indicator
- Temperature recording



UT302+/303+ Series Infrared Thermometers

Page 133

- Temperature range: -32~1300°C
- D:S ratio: 20:1/30:1
- Color EBTN
- Time scheduled measurement
- LED indicator
- Temperature recording



UT315A Vibration Tester

Page 140

- Acceleration: 199.9m/s², 10~10kHz
- Velocity: 19.99cm/s, 10~1kHz
- displacement: 1.999mm, 10~500Hz
- Storage: 1999 sets
- Micro USB interface



UT343D Coating Thickness Gauge

Page 147

- Ferrous/non-ferrous metal
- measurement range: 0~1250um
- Quick test mode
- Auto rotatable screen



A61 Digital Thermometer

Page 163

- Temperature: -40~250°C
- Accuracy: ±1°C
- IP65
- LED alarm



**LM20m/40m
Laser Distance Meters**

Page 165

- Max measurement distance: 20/40m
- Min display unit: 0.001m
- Accuracy: $\pm(2\text{mm}+5 \times 10^{-5}\text{D})$
- Single measurement
- Auto power off
- Auto laser off
- CE certified



**LM40e/LM50e/LM60e
Laser Distance Meters**

Page 166

- Max measurement distance: 40~60m
- Min display unit: 0.001m
- Accuracy: $\pm(2\text{mm}+5 \times 10^{-5}\text{D})$
- MAX/MIN/Area
- Volume/Pythagoras
- Add/Subtract
- Data storage: 20



**LM40/LM50/LM60
Laser Distance Meters**

Page 167

- Max measurement distance: 40~60m
- Min display unit: 0.001m
- Accuracy: $\pm(2\text{mm}+5 \times 10^{-5}\text{D})$
- MAX/MIN/Area
- Volume/Pythagoras
- Add/Subtract
- Data storage: 20



**LM80/LM100/LM120/LM150
Laser Distance Meters**

Page 167

- Max measurement distance: 80~150m
- Min display unit: 0.001m
- Accuracy: $\pm(2\text{mm}+5 \times 10^{-5}\text{D})$
- MAX/MIN/Area
- Volume/Pythagoras
- Add/Subtract/Auto leveling
- Data storage: 20



**LM70 PRO/LM100 PRO/LM120 PRO
Laser Distance Meters**

Page 168

- Max measurement distance: 70~120m
- Min display unit: 0.001m
- Accuracy: $\pm(2\text{mm}+5 \times 10^{-5}\text{D})$
- Volume/Pythagoras
- Add/Subtract/Auto leveling
- Data storage: 20
- USB charging
- IP65/2m drop proof
- CE certified



**LM50EX/LM70EX/LM100EX
Laser Distance Meters**

Page 169

- Max measurement distance: 50~100m
- Min display unit: 0.001m
- Accuracy: $\pm(2\text{mm}+5 \times 10^{-5}\text{D})$
- Add/Subtract/Auto leveling
- Data storage: 20
- Rotatable screen
- USB charging
- IP65/2m drop proof
- CE certified



**LM80C/LM120C/LM200C
Laser Distance Meters**

Page 170

- Max measurement distance: 80~200m
- Min display unit: 0.001m
- Accuracy: $\pm(2\text{mm}+5 \times 10^{-5}\text{D})$
- Add/Subtract/Auto leveling
- Data storage: 100
- Rotatable screen/Camera mode
- USB charging
- IP65/2m drop proof
- CE certified



**LM50D/LM100D
Laser Distance Meters**

Page 171

- Curvature mode
- Max measurement distance: 50/100m
- Min display unit: 0.001m
- Accuracy: $\pm(2\text{mm}+5 \times 10^{-5}\text{D})$
- MAX/MIN/Area
- Volume/Pythagoras/Curvature
- Add/Subtract/Auto leveling
- Data storage: 20
- CE certified



**LM40T
Laser Tape**

Page 165

- Laser distance: 40m
- Tape distance: 5m
- Accuracy: $\pm 2\text{mm}$
- CE certified



**LM570-I Series
Laser levels**

Page 172

- Laser color: red/green (LD)
- Laser number: 1
- Expanded angle: H110°/V110°
- H/V accuracy: $\pm 3\text{mm}/10\text{m}$
- Laser class: class 2



**LM571-I Series
Laser levels**

Page 173

- Laser color: red/green (LD)
- Laser number: 2
- Expanded angle: H130°/V150°
- H/V accuracy: $\pm 2\text{mm}/10\text{m}$
- Laser class: class 2



UT582+ Digital RCD (ELCB) tester

Page 184

- Upgraded version of UT582
- 600V AC test function
- Shutdown gear
- Powered by 6 x AA batteries
- CE/RoHS



UT682D Wire Tracker

Page 190

- Different wires tracker
- Voltage protection: 60V DC
- Continuity test
- Line sequence measurement (UT682)
- Polarity test identification



UT658 Series USB Testers

Page 192

- Measures: voltage/current/capacity/energy
- Supports: type-A and C
- Data storage: 10 sets
- Electrical loader: 0.5A~3A (UT658LOAD)
- Circuit equivalent resistance
- USB cable voltage (D+, D-)



UT691 Series Visual fault locators

Page 194

- Wavelength: 650nm $\pm$ 10nm
- Power: 1~20mW
- Measurable optical fiber length: 2~15km
- Mode: Continuous, pulse
- Connector: FC, SC, ST
- Flashlight
- IP54/2m drop proof



UT692 Series Optical power meters

Page 195

- Wavelength range: 800nm~1700nm
- Calibrated wavelength: 850nm~1650nm
- Measurement range: -70~-26dBm
- Uncertainty: $\pm$ 5%
- Flashlight
- IP65/2m drop proof



UT693D Optical Multimeter (Power Meter & VFL)

Page 195

- Optical power meter
- Wavelength range: 800nm~1700nm
- Calibrated wavelength: 850nm~1650nm
- Measurement range: -70~-10dBm
- Uncertainty: $\pm$ 5%
- Visual fault locator
- Wavelength: 650nm $\pm$ 10nm
- Power: 10mW
- Measurable optical fiber length: 8~10km
- Connector: FC, SC, ST
- IP65/2m drop proof



UT695D-10 Optical Multimeter

Page 196

- Optical power meter
- Wavelength range: 800nm~1700nm
- Calibrated wavelength: 850nm~1650nm
- Measurement range: -70~-10dBm
- Visual fault locator
- Wavelength: 650nm $\pm$ 10nm
- Power: 10mW
- Measurable optical fiber length: 8~10km
- Connector: FC, SC, ST
- IP54/2m drop proof
- LAN cable sequence test
- LAN cable (RJ45) sequence test



UT696 Optical Light source

Page 197

- Wavelength: 1310nm/1550n;
- Typical output optical power: -4dBm
- Internal modulation: 0~2000Hz
- Adjustable output optical power: -4dBm~-10dBm
- Luminescent device: FP-LD
- Optical interface: FC/PC
- Applicable optical fiber: SM, MM
- IP65/2m drop proof



UT697 Optical Multimeter (Power Meter & LS)

Page 197

- Optical power meter
- Wavelength range: 800nm~1700nm
- Calibrated wavelength: 850nm~1650nm
- Measurement range: -70~-10dBm
- Uncertainty: $\pm$ 5%
- Light source
- Wavelength: 1310nm/1550n;
- Typical output optical power: -4dBm
- Internal modulation: 0~2000Hz
- Adjustable output optical power: -4dBm~-10dBm
- IP65/2m drop proof



UT701 Single Function Temperature Calibrator

Page 198

- Output functions: DC voltage, resistance, thermocouple, and thermal resistance



UT705 Single Function Loop Calibrator

Page 199

- Measures: DC voltage, DC current, 4~20mA loop current
- Output functions: DC current, analog transmitter, 24V loop

Oscilloscope Model Selection

Models	Channels	Memory depth	Sampling rate	Bandwidth						
				25MHz	50MHz	60MHz	70MHz	100MHz	150MHz	250MHz
MSO3254E	4+16 digital	70Mpts	2.5GS/s							●
MSO3252E	2+16 digital	70Mpts	2.5GS/s							●
MSO3154E	4+16 digital	70Mpts	2.5GS/s						●	
MSO3152E	2+16 digital	70Mpts	2.5GS/s						●	
UPO3254E	4	70Mpts	2.5GS/s							●
UPO3252E	2	70Mpts	2.5GS/s							●
UPO3154E	4	70Mpts	2.5GS/s						●	
UPO3152E	2	70Mpts	2.5GS/s						●	
UPO2104E	4	56Mpts	1GS/s					●		
UPO2102E	2	56Mpts	1GS/s					●		
UPO2074E	4	56Mpts	1GS/s				●			
UPO2072E	2	56Mpts	1GS/s				●			
UTD2102CEM	2	32Mpts	1GS/s					●		
UTD2072CEM	2	32Mpts	1GS/s				●			
UTD2102CEX-II	2	25kpts	1GS/s					●		
UTD2072CEX-II	2	25kpts	1GS/s				●			
UTD2102CEX	2	25Kpts	1GS/s					●		
UTD2072CEX	2	25kpts	1GS/s				●			
UTD2052CEX	2	25kpts	1GS/s		●					
UTD2052CL	2	25kpts	500MS/s		●					
UTD2025CL	2	25kpts	250MS/s	●						
UTD1102C	2	7.5kpts	500MS/s					●		
UTD1062C	2	7.5kpts	250MS/s			●				
UTD1050DL	2	12kpts	250MS/s		●					
UTD1025DL	2	12kpts	250MS/s	●						
UTD1050CL	1	12kpts	250MS/s		●					
UTD1025CL	1	12kpts	250MS/s	●						

Oscilloscope Model Selection

Models	MSO3152E	MSO3154E	MSO3252E	MSO3254E
Page	49	49	49	49
NEW				
Channels	2+16 digital	4+16 digital	2+16 digital	4+16 digital
Signal source	2 channels, 50MHz, 250MS/s, 16 bits			
Bandwidth	150MHz	150MHz	250MHz	250MHz
Sampling rate (analog)	2.5GS/s	2.5GS/s	2.5GS/s	2.5GS/s
Sampling rate (digital)	1.25GS/s (16CH)	1.25GS/s (16CH)	1.25GS/s (16CH)	1.25GS/s (16CH)
Memory depth	70Mpts	70Mpts	70Mpts	70Mpts
Waveform capture rate	200,000wfms/s	200,000wfms/s	200,000wfms/s	200,000wfms/s
Time base scale (s/div)	2ns/div~40s/div	2ns/div~40s/div	2ns/div~40s/div	2ns/div~40s/div
Vertical scale (V/div)	1mV/div~20V/div (1MΩ)	1mV/div~20V/div (1MΩ)	1mV/div~20V/div (1MΩ)	1mV/div~20V/div (1MΩ)
DC gain accuracy	<5mV/div: 3% ≥5mV/div: 2%	<5mV/div: 3% ≥5mV/div: 2%	<5mV/div: 3% ≥5mV/div: 2%	<5mV/div: 3% ≥5mV/div: 2%
Waveform record	100,000 frames	100,000 frames	100,000 frames	100,000 frames
Trigger types	16	17	16	17
Bus decode	6	7	6	7
Auto measurements	34(analog) + 10(digital)	34(analog) + 10(digital)	34(analog) + 10(digital)	34(analog) + 10(digital)
Interfaces	USB (Host/Device), LAN, AUX Out, VGA, EXT Trig, AWG			
Optional accessory	UT-M15 logic analyzer probe			
Display (resolution)	8" TFT color (800 x 480)	8" TFT color (800 x 480)	8" TFT color (800 x 480)	8" TFT color (800 x 480)

Models	UPO3152E	UPO3154E	UPO3252E	UPO3254E
Page	51	51	51	51
				
Channels	2	4	2	4
Bandwidth	150MHz	150MHz	250MHz	250MHz
Sampling rate	2.5GS/s	2.5GS/s	2.5GS/s	2.5GS/s
Memory depth	70Mpts	70Mpts	70Mpts	70Mpts
Waveform capture rate	200,000wfms/s	200,000wfms/s	200,000wfms/s	200,000wfms/s
Time base scale (s/div)	2ns/div~40s/div	2ns/div~40s/div	2ns/div~40s/div	2ns/div~40s/div
Vertical scale (V/div)	1mV/div~20V/div (1MΩ)	1mV/div~20V/div (1MΩ)	1mV/div~20V/div (1MΩ)	1mV/div~20V/div (1MΩ)
DC gain accuracy	<5mV/div: 3% ≥5mV/div: 2%	<5mV/div: 3% ≥5mV/div: 2%	<5mV/div: 3% ≥5mV/div: 2%	<5mV/div: 3% ≥5mV/div: 2%
Waveform record	100,000 frames	100,000 frames	100,000 frames	100,000 frames
Trigger types	16	17	16	17
Bus decode	6	7	6	7
Auto measurements	34	34	34	34
Interfaces	USB (Host/Device), LAN, AUX Out, VGA	USB (Host/Device), LAN, AUX Out, VGA	USB (Host/Device), LAN, AUX Out, VGA	USB (Host/Device), LAN, AUX Out, VGA
Display (resolution)	8" TFT color (800 x 480)	8" TFT color (800 x 480)	8" TFT color (800 x 480)	8" TFT color (800 x 480)

Oscilloscope Model Selection

Models	UPO2072E	UPO2074E	UPO2102E	UPO2104E
Page	53	53	53	53
NEW				
Channels	2	4	2	4
Bandwidth	70MHz	70MHz	100MHz	100MHz
Sampling rate	1GS/s	1GS/s	1GS/s	1GS/s
Memory depth	56Mpts	56Mpts	56Mpts	56Mpts
Waveform capture rate	83,000wfms/s	83,000wfms/s	83,000wfms/s	83,000wfms/s
Time base scale (s/div)	5ns/div~50s/div	5ns/div~50s/div	5ns/div~50s/div	5ns/div~50s/div
Vertical scale (V/div)	1mV/div~20V/div (1MΩ)	1mV/div~20V/div (1MΩ)	1mV/div~20V/div (1MΩ)	1mV/div~20V/div (1MΩ)
DC gain accuracy	<5mV/div: 4% ≥5mV/div: 3%	<5mV/div: 4% ≥5mV/div: 3%	<5mV/div: 4% ≥5mV/div: 3%	<5mV/div: 4% ≥5mV/div: 3%
Waveform record	65,000 frames	65,000 frames	65,000 frames	65,000 frames
Trigger types	14	15	14	15
Auto measurements	34	34	34	34
Interfaces	USB (Host/Device), LAN, AUX Out	USB (Host/Device), LAN, AUX Out	USB (Host/Device), LAN, AUX Out	USB (Host/Device), LAN, AUX Out
Display (resolution)	8" TFT color (800 x 480)	8" TFT color (800 x 480)	8" TFT color (800 x 480)	8" TFT color (800 x 480)

Models	UTD2072CEM	UTD2102CEM	UTD2072CEX-II	UTD2102CEX-II
Page	54	54	54	54
				
Channels	2	2	2	2
Bandwidth	70MHz	100MHz	70MHz	100MHz
Sampling rate	1GS/s	1GS/s	1GS/s	1GS/s
Memory depth	32Mpts	32Mpts	25kpts	25kpts
Waveform capture rate	20,000wfms/s	20,000wfms/s	20,000wfms/s	20,000wfms/s
Time base scale (s/div)	2ns/div~50s/div	2ns/div~50s/div	2ns/div~50s/div	2ns/div~50s/div
Vertical scale (V/div)	1mV/div~20V/div		1mV/div~20V/div	
DC gain accuracy	<5mV/div: 4%, >5mV/div: 3%		<5mV/div: 4%, >5mV/div: 3%	
Waveform record	80,000 frames	80,000 frames	80,000 frames	80,000 frames
Trigger types	6	6	6	6
Auto measurements	34	34	34	34
Interfaces	USB OTG, AUX Out		USB OTG, AUX Out	
Display (resolution)	8" TFT color (800×480)		8" TFT color (800×480)	

Oscilloscope Model Selection

Models	UTD2052CEX	UTD2072CEX	UTD2102CEX
Page	55	55	55
			
Channels	2	2	2
Bandwidth	50MHz	70MHz	100MHz
Sampling rate	1GS/s	1GS/s	1GS/s
Memory depth	25kpts	25kpts	25kpts
Waveform capture rate	2000wfms/s	2000wfms/s	2000wfms/s
Time base scale (s/div)	2ns/div~50s/div	2ns/div~50s/div	2ns/div~50s/div
Vertical scale (V/div)	1mV/div~20V/div	1mV/div~20V/div	1mV/div~20V/div
DC gain accuracy	<5mV/div: 4%, >5mV/div: 3%	<5mV/div: 4%, >5mV/div: 3%	<5mV/div: 4%, >5mV/div: 3%
Waveform record	1,000 frames	1,000 frames	1,000 frames
Supported languages	English, Dutch, Spanish, Korean, French, German, Portuguese, Russian		
Trigger types	3	3	3
Auto measurements	28	28	28
Interfaces	USB OTG	USB OTG	USB OTG
Display (resolution)	7" TFT color (800×480)	7" TFT color (800×480)	7" TFT color (800×480)

Models	UTD2052CL	UTD2052CL
Page	56	56
		
Channels	2	2
Bandwidth	25MHz	50MHz
Sampling rate	250MS/s	500MS/s
Memory depth	25kpts	25kpts
Waveform capture rate	2,000wfms/s	2,000wfms/s
Time base scale (s/div)	10ns/div~50s/div	5ns/div~50s/div
Vertical scale (V/div)	1mV/div~20V/div	1mV/div~20V/div
DC gain accuracy	<5mV/div: 4%, ≥5mV/div: 3%	<5mV/div: 4%, ≥5mV/div: 3%
Waveform record	1,000 frames	1,000 frames
Supported languages	English, Dutch, Spanish, Korean, French, German, Portuguese, Russian	
Trigger types	4	3
Auto measurements	28	28
Interfaces	USB OTG, Pass/Fail	USB OTG
Display (resolution)	7" TFT color (400×240)	7" TFT color (400×240)

Waveform Generator Model Selection

Models	UTG4082A	UTG4122A	UTG4162A
Page	58	58	58
			
Max frequency	80MHz	120MHz	160MHz
Channels	2	2	2
Sampling rate	500MS/s	500MS/s	500MS/s
Waveforms	Sine, square, ramp, harmonic, pulse, noise, DC voltage, arbitrary		
Modulations	AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM		
Frequency Characteristics			
Sine	1μHz~80MHz	1μHz~120MHz	1μHz~160MHz
Square/Pulse	1μHz~30MHz	1μHz~40MHz	1μHz~50MHz
Slope	1μHz~2MHz	1μHz~3MHz	1μHz~4MHz
Harmonic	1μHz~40MHz	1μHz~60MHz	1μHz~80MHz
Noise (-3dB)	80MHz bandwidth	120MHz bandwidth	160MHz bandwidth
Resolution	1μHz	1μHz	1μHz

Models	UTG2025A	UTG2062B	UTG2082B	UTG2122B
Page	59	59	59	59
				
Max frequency	25MHz	60MHz	80MHz	120MHz
Channels	2	2	2	2
Sampling rate	125MS/s	320MS/s	320MS/s	320MS/s
Waveforms	Sine, square, ramp, pulse, noise, DC, arbitrary; UTG2000B Only: harmonic			
Modulations	AM, FM, PM, ASK, FSK, PSK, PWM; UTG2000B only: BPSK, QPSK, OSK, DSB-AM, SUM, QAM			
Frequency Characteristics				
Sine	1μHz~25MHz	1μHz~60MHz	1μHz~80MHz	1μHz~120MHz
Square	1μHz~5MHz	1μHz~20MHz	1μHz~25MHz	1μHz~30MHz
Pulse	1μHz~5MHz	1μHz~20MHz	1μHz~25MHz	1μHz~30MHz
Ramp	1μHz~400kHz	1μHz~3MHz	1μHz~4MHz	1μHz~5MHz
Harmonic	—	1μHz~30MHz	1μHz~40MHz	1μHz~60MHz
Arbitrary	1μHz~5MHz	1μHz~15MHz	1μHz~20MHz	1μHz~25MHz
Noise (-3dB)	25MHz	60MHz	80MHz	120MHz
Resolution	1μHz	1μHz	1μHz	1μHz

Waveform Generator Model Selection

Models	UTG1005A	UTG1010A	UTG9002C-II	UTG9005C-II
Page	60	60	61	61
				
Max frequency	5MHz	10MHz	2MHz	5MHz
Channels	1	1	1	1
Sampling rate	125MS/s	125MS/s	125MS/s	125MS/s
Waveforms	Sine, square, triangle, pulse, ramp, noise, arbitrary		Sine, square, pulse, ramp, noise, DC, arbitrary (20 sets inside)	
Modulations	AM, FM, PM, ASK, FSK, PSK, PWM		AM, FM, PM, FSK	
Frequency Characteristics				
Sine	1μHz~5MHz	1μHz~10MHz	1μHz~2MHz	1μHz~5MHz
Square	1μHz~5MHz	1μHz~5MHz	1μHz~2MHz	1μHz~5MHz
Ramp	1μHz~400kHz	1μHz~400kHz	1μHz~200kHz	1μHz~200kHz
Pulse	1μHz~5MHz	1μHz~5MHz	1μHz~2MHz	1μHz~5MHz
Arbitrary	1μHz~1MHz	1μHz~2MHz	1μHz~1MHz	1μHz~1MHz
Resolution	1μHz	1μHz	1μHz	1μHz

Models	UTG932E	UTG962E
Page	62	62
NEW		
Max frequency	30MHz	60MHz
Channels	2	2
Sampling rate	200MS/s	200MS/s
Waveforms	Sine, square, triangle, pulse, ramp, noise, arbitrary	
Modulations	AM, FM, PM, FSK	
Frequency Characteristics		
Sine	1μHz~30MHz	1μHz~60MHz
Square	1μHz~15MHz	1μHz~20MHz
Ramp	1μHz~400kHz	1μHz~400kHz
Pulse	1μHz~15MHz	1μHz~20MHz
Arbitrary	1μHz~10MHz	1μHz~10MHz
Resolution	1μHz	1μHz

DC Power Supply Model Selection

Models	UDP3303A	UDP3303C	UDP1306C	UTP1306	UTP3313TFL-II	UTP3315TFL-II
Page	64	64	65	68	68	68
NEW						
Output voltage	0~30V (CH1/CH2)	0~30V (CH1/CH2)	0~32V	0~32V	0~30V	0~30V
Output current	0~3A (CH1/CH2)	0~3A (CH1/CH2)	0~6A	0~6A	0~3A	0~5A
Output power	195W	195W	202W	192W	90W	150W
Accuracy (Voltage)	$\pm(0.1\%+30\text{mV})$	$<0.5\%+20\text{mV}$	$<0.5\%+20\text{mV}$	$<0.1\%+10\text{mV}$	$<0.5\%+20\text{mV}$	$<0.5\%+20\text{mV}$
Accuracy (Current)	$\pm(0.3\%+5\text{mA})$	$<0.5\%+5\text{mA}$	$<0.5\%+10\text{mA}$	$<0.2\%+3\text{mA}$	$<0.5\%+5\text{mA}$	$<0.5\%+10\text{mA}$
Display	4 bit	4 bit	4 bit	4 digit LED	4 digit LED	4 digit LED
Interfaces	USB Host (5V/2A, charging port only), digital interface; UDP3303C only: USB Device, RS-232		USB Device, RS-232	—	—	—
Programmable	—	●	●	—	—	—
Over voltage/current protection	●	●	●	●	—	—
Over temperature protection	●	●	●	●	●	●

Models	UTP3303C	UTP3305C	UTP3303	UTP3305
Page	66	66	67	67
				
Output voltage	0~30V (CH1/CH2) 5V (CH3)	0~30V (CH1/CH2) 5V (CH3)	0~32V (CH1/CH2) 5V (CH3)	0~32V (CH1/CH2) 5V (CH3)
Output current	0~3A (CH1/CH2) 3A (CH3)	0~5A (CH1/CH2) 3A (CH3)	0~3A (CH1/CH2) 3A (CH3)	0~5A (CH1/CH2) 3A (CH3)
Output power	195W	315W	207W	335W
Accuracy (Voltage)	$<0.5\%+20\text{mV}$	$<0.5\%+20\text{mV}$	$\pm(1\%+2\text{digit})$	$\pm(1\%+2\text{digit})$
Accuracy (Current)	$<0.5\%+5\text{mA}$	$<0.5\%+10\text{mA}$	$\pm(1\%+2\text{digit})$	$\pm(1\%+2\text{digit})$
Display	4 bit	4 bit	3 bit	3 bit
Interfaces	USB Device, RS-232		—	
Programmable	●	●	—	—
Over voltage/current protection	●	●	—	—
Over temperature protection	●	●	●	●

Benchtop Digital Multimeter Model Selection

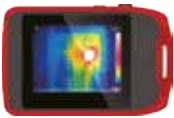
Models	UT8802E	UT8803E	UT8804E	UT8805E
Page	70	70	71	72
				
Display count	20000	6000	60000	200000
Auto range	—	●	●	●
Bandwidth	1kHz	100kHz	100kHz	100kHz
True RMS	—	●	●	●
DC voltage	1000V	1000V	1000V	1000V
AC voltage	750V	750V	1000V	1000V
DC current	20A	20A	20A	10A
AC current	20A	20A	20A	10A
Resistance	200MΩ	60MΩ	60MΩ	100MΩ
Capacitance	100mF	6mF	60mF	2mF
Conductance	—	—	60nS	—
Frequency	200Hz~10MHz	600Hz~20MHz	60MHz	20Hz~1MHz
Duty cycle	●	●	●	—
Temperature	—	1000°C	1000°C	1760°C
Diode test	●	●	●	●
Continuity buzzer	●	●	●	●
MAX/MIN	●	●	●	●
Relative mode	●	●	●	●
USB	●	●	●	●
SCR test	●	●	—	—
AC+DC	●	●	●	—
Data hold	●	●	●	●
LCD backlight	●	●	●	●
Input impedance	≥10MΩ	≥10MΩ	≥10MΩ	≥10MΩ

Handheld Digital Storage Oscilloscope Model Selection

Models	UTD1025CL	UTD1050CL	UTD1025DL	UTD1050DL
Page	74	74	74	74
				
Channels	1	1	2	2
Bandwidth	25MHz	50MHz	25MHz	50MHz
Sampling rate	250MS/s	250MS/s	250MS/s	250MS/s
Memory depth	12kpts	12kpts	12kpts	12kpts
Time base scale (s/div)	10ns/div~50s/div	5ns/div~50s/div	10ns/div~50s/div	5ns/div~50s/div
Vertical scale (V/div)	5mV/div~20V/div	5mV/div~20V/div	5mV/div~20V/div	5mV/div~20V/div
DC gain accuracy	5mV/div: $\pm 4\%$, >5mV/div: $\pm 3\%$	5mV/div: $\pm 4\%$, >5mV/div: $\pm 3\%$	5mV/div: $\pm 4\%$, >5mV/div: $\pm 3\%$	5mV/div: $\pm 4\%$, >5mV/div: $\pm 3\%$
Waveform record	300 frames	300 frames	300 frames	300 frames
Trigger types	4	4	4	4
Auto measurements	19	19	19	19
Interfaces	Mini USB	Mini USB	Mini USB	Mini USB
Display (resolution)	3.5" TFT LCD (320 x 240)	3.5" TFT LCD (320 x 240)	3.5" TFT LCD (320 x 240)	3.5" TFT LCD (320 x 240)

Models	UTD1062C	UTD1102C
Page	75	75
		
Channels	2	2
Bandwidth	60MHz	100MHz
Sampling rate	250MS/s	500MS/s
Memory depth	7.5kpts	7.5kpts
Time base scale (s/div)	5ns/div~50s/div	5ns/div~50s/div
Vertical scale (V/div)	5mV/div~50V/div	5mV/div~50V/div
DC gain accuracy	5mV/div: $\pm 4\%$ >5mV/div: $\pm 3\%$	5mV/div: $\pm 4\%$ >5mV/div: $\pm 3\%$
Trigger types	4	4
Auto measurements	27	27
Interfaces	USB host	USB host
Display (resolution)	5.7" TFT LCD (320 x 240)	5.7" TFT LCD (320 x 240)

Thermal Imager Model Selection

Models	UTi80	UTi80P	UTi120T	UTi165A	UTi160G	UTi160V
Page	79	79	79	79	80	80
NEW						
IR resolution	80 × 60 pixels	80 × 60 pixels	120 × 90 pixels	160 × 120 pixels	160 × 120 pixels	160 × 120 pixels
Field of view (FOV)	51° horizontal	51° horizontal	50° × 38°	56° × 42°	20.6° × 15.5°	30° × 23°
Thermal sensitivity (NETD)	≤150mk	≤150mk (0.15°C)	<60mk	≤150mk (0.15°C)	≤80mk	≤60mk
Temperature range	-30~400°C	-10~400°C	-20~400°C	-10~400°C	-20~350°C	-20~350°C
Spatial resolution (IFOV)	Focus free	Focus free	7.6mrad	11mrad	2.25mrad	3.3mrad
Frame rate	≤9Hz	≤9Hz	25Hz/9Hz	<9Hz	50Hz	50Hz
Measurement accuracy	±2°C or ±2% whichever is greater					
Focus	—	—	Focus free	Focus free	Manual focus	Focus free
Digital zoom	—	—	2×, 4×, 8×	—	2×	2×, 4×
Display modes	Thermal, image blending, visible light	Thermal	Thermal, image blending, visible light, PIP	Thermal	Thermal	Thermal, image blending, visible light, PIP
Display screen size	2.4" TFT LCD	2.4" TFT LCD	3.5" LCD	2.8" LCD	3.5" TFT LCD	3.5" TFT LCD
Auto capture of Hi/Lo temperature	●	●	●	●	●	●
Isotherm	—	—	—	—	●	●
Measurement modes	Point, area	Point, area	Point, area	—	Point, area, line	Point, area, line
Wifi	—	—	●	—	—	●
PC analysis software	—	●	●	●	●	●
Drop proof	1m	1m	1m	2m	1m	1m
IP rating	—	—	IP54	IP65	IP43	IP43

Thermal Imager Model Selection

Models	UTi320V	UTi192M	UTi384M	UTi380H	UTi640C
Page	80	81	81	80	81
NEW					
IR resolution	320 × 240 pixels	192 × 144 pixels	384 × 288 pixels	384 × 288 pixels	640 × 480 pixels
Field of view (FOV)	42.5° × 32.5°	37.8° × 28.8°	28.4° × 21.5°	28° × 21°	24.6° × 18.5° (Normal lens)
Thermal sensitivity (NETD)	≤60mk	50mk	45mk	≤0.05°C@30°C	30mk
Temperature range	-20~350°C	-20~150°C/100~650°C/ 650~1500°C	-20~150°C/100~650°C/ 650~1500°C	-20~650°C	-20~150°C/150~800°C/ optional 2000°C
Spatial resolution (IFOV)	2.33mrad	3.45mrad	1.29mrad	1.27mrad	25mm/0.67mrad 13mm/1.24mrad 55mm/0.31mrad
Frame rate	50Hz	25Hz	25Hz	50Hz	25Hz/9Hz
Measurement accuracy	±2°C or ±2% whichever is greater				±1°C or ±1%, whichever is greater (selected temperature) ±2°C or ±2% (whichever is greater)
Focus	Focus free	Manual focus	Manual focus	Manual focus	Electric or automatic
Digital zoom	2×, 4×	1.1~4×	1.1~4×	8× continuous	1.1~10×
Display modes	Thermal, image blending, visible light, PIP	Thermal, image blending, visible light, PIP	Thermal, image blending, visible light, PIP	Thermal, image blending, visible light, PIP	Thermal, image blending, visible light, PIP
Display screen size	3.5" TFT LCD	4" LCD	4" LCD	3.5" LCD	5" TFT LCD
Auto capture of Hi/Lo temperature	●	●	●	●	●
Isotherm	●	●	●	●	●
Measurement modes	Point, area, line	Point, area, line	Point, area, line	Point, area, line	Point, area, line
Wifi	●	●	●	●	●
PC analysis software	●	●	●	●	●
Drop proof	1m	2m	2m	—	—
IP rating	IP43	IP54	IP54	IP54	IP54

AC Voltage Detector Model Selection

Models	UT12S-ROW	UT12D-ROW	UT12E-ROW	UT12M-ROW
Page	83	83	84	84
NEW				
AC voltage (Low voltage mode)	—	24V~1000V	24V~1000V	24V~1000V
AC voltage (High voltage mode)	90V~1000V	90V~1000V	90V~1000V	90V~1000V
Frequency range	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Vibration mode	—	—	●	—
Magnetic solenoid detection	—	—	—	●
Built-in flashlight	●	●	●	●
Audible (buzzer) and visual (LED) indication	●	●	●	●
Auto power off	●	●	●	●
Low voltage indication	●	●	●	●
Double injection molding	—	—	●	●
IP rating	—	—	IP67	IP67
Drop test	—	—	2m	2m

Digital Multimeter Model Selection

Models	UT195E	UT195M	UT195DS	UT181A	UT171A	UT171B	UT171C
Page	86	86	86	89	90	90	90
							
Display count	6000	6000	6000	60000	40000	60000	60000
Auto range	●	●	●	●	●	●	●
Bandwidth	400Hz	1kHz	5kHz	100kHz	100kHz	100kHz	100kHz
True RMS	●	●	●	●	●	●	●
Special features	3-phase motor(195M/DS)			Datalogging	Datalogging, 4-20mA(171B/C)		
DC voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V
AC voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V
LoZ (ACV)	●	●	●	—	—	●	●
DC current	20A	20A	20A	10A	10A	10A	10A
AC current	20A	20A	20A	10A	10A	10A	10A
Resistance	60MΩ	60MΩ	60MΩ	60MΩ	40MΩ	60MΩ	60MΩ
Capacitance	60mF	60mF	60mF	60mF	40mF	60mF	60mF
Conductance	—	—	—	60nS	—	60nS	60nS
Frequency	10MHz	40MHz	40MHz	60MHz	10MHz	10MHz	10MHz
Duty cycle	●	—	●	●	●	●	●
Temperature	—	-40~1000°C	—	-40~1000°C	—	-40~1000°C	-40~1000°C
Diode test	●	●	●	●	●	●	●
Continuity buzzer	●	●	●	●	●	●	●
NCV	—	—	—	—	●	●	—
MAX/MIN	●	●	●	●	●	●	●
AVG	—	—	—	●	●	●	●
Relative mode	●	●	●	●	●	●	●
Peak hold	—	—	●	●	—	●	●
USB	—	—	—	●	●	●	●
Bluetooth®	—	—	—	●	●	●	●
VFC/LPF	—	—	●	●	●	●	●
AC+DC	—	—	●	●	—	●	●
Analog bar	●	—	●	●	●	●	●
Data hold	●	●	●	●	●	●	●
Flashlight	●	●	●	—	—	—	—
Auto power off	●	●	●	●	●	●	●
LCD backlight	Auto	Auto	Auto	Adjustable	●	●	●
Input alarm	●	●	●	●	●	●	●
Input impedance	≥10MΩ	≥10MΩ	≥10MΩ	≥10MΩ	≥10MΩ	≥10MΩ	≥10MΩ
Category ratings	CAT III 1000V CAT IV 600V						
IP rating	IP65	IP65	IP65	IP65	—	—	—
Drop test	2m	2m	2m	1m	1m	1m	1m

[illegible]

Digital Multimeter Model Selection

Models	UT136B+	UT136C+	UT89X	UT89XD	UT890C	UT890D+	UT39A+	UT39C+
Page	92	92	100	100	101	101	105	105
NEW								
Display count	4000	4000	6000	6000	6000	6000	4000	4000
Auto range	●	●	—	—	—	—	—	—
Bandwidth	40~400Hz	40~400Hz	45Hz~1kHz	45Hz~1kHz	10Hz~10kHz	10Hz~10kHz	40~400Hz	40~400Hz
True RMS	—	—	●	●	●	●	—	—
Special features	Quick capacitor measurement		Audible and visual alarm, LED/Live test, flashlight		Fuse alarm		—	—
DC voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
AC voltage	1000V	1000V	1000V	1000V	750V	750V	750V	750V
DC current	10A	10A	20A	20A	20A	20A	10A	10A
AC current	10A	10A	20A	20A	20A	20A	10A	10A
Resistance	40MΩ	40MΩ	60MΩ	60MΩ	60MΩ	60MΩ	200MΩ	200MΩ
Capacitance	40mF	40mF	100mF	100mF	100mF	100mF	10mF	10mF
Frequency	40MHz	40MHz	10MHz	10MHz	10MHz	10MHz	—	1MHz
Duty cycle	—	—	●	●	—	—	—	—
Temperature	—	-40~1000°C	-40~1000°C	—	-40~1000°C	—	—	-40~1000°C
Diode test	●	●	●	●	●	●	●	●
Transistor test	●	●	●	●	●	●	●	●
Continuity buzzer	●	●	●	●	●	●	●	●
NCV	●	—	●	●	●	●	—	●
MAX/MIN	—	—	—	—	●	●	—	—
Relative mode	—	—	●	●	●	●	●	●
Data hold	●	●	●	●	●	●	●	●
Auto power off	●	●	●	●	●	●	●	●
LCD backlight	●	●	●	●	●	●	●	●
Input alarm	●	●	●	●	●	●	●	●
Input impedance	≥10MΩ	≥10MΩ	≥10MΩ	≥10MΩ	≈10MΩ	≈10MΩ	≈10MΩ	≈10MΩ
Category ratings	CAT II 1000V CAT III 600V							
Drop test	2m	2m	1m	1m	1m	1m	2m	2m

Digital Multimeter Model Selection

Models	UT191E	UT191T	UT139A	UT139B	UT139C	UT139E	UT139S	UT133A	UT133B
Page	87	87	91	91	91	91	91	93	93
									
Display count	6000	6000	2000	4000	6000	6000	6000	6000	6000
Auto range	●	●	●	●	●	●	●	●	—
Bandwidth	40~400Hz	40~400Hz	400Hz	1kHz	1kHz	400Hz	400Hz	40~400Hz	40~400Hz
True RMS	●	●	●	●	●	●	●	—	—
Special features	Terminal memory, flashlight		Battery test (UT139A), VA display (UT139S)					Battery test (UT133B)	
DC voltage	600V	600V	600V	600V	600V	600V	600V	600V	600V
AC voltage	600V	600V	600V	600V	600V	600V	600V	600V	600V
LoZ (ACV)	●	●	—	—	—	●	●	—	—
DC current	20A	20A	10A	10A	10A	10A	10A	10A	10A
AC current	20A	20A	10A	10A	10A	10A	10A	10A	—
Resistance	60MΩ	60MΩ	20MΩ	40MΩ	60MΩ	60MΩ	60MΩ	60MΩ	60MΩ
Capacitance	60mF	60mF	—	100mF	100mF	100mF	100mF	10mF	10mF
Frequency	1MHz	1MHz	—	10MHz	10MHz	10MHz	10MHz	1MHz	—
Duty cycle	●	●	—	●	●	●	●	—	—
Temperature	—	-40~400°C (0.1 resolution)	—	—	-40~1000°C	-40~1000°C	-40~1000°C	-40~1000°C	—
Diode test	●	●	●	●	●	●	●	●	●
Peak hold	●	●	—	—	—	—	—	—	—
Continuity buzzer	●	●	●	●	●	●	●	●	●
NCV	—	—	●	●	●	●	●	●	●
MAX/MIN	●	●	●	—	—	—	—	—	—
Relative mode	●	●	●	—	—	—	—	—	—
VFC/LPF	●	●	●	—	—	●	●	—	—
Analog bar	●	●	—	—	—	●	●	—	—
Data hold	●	●	●	●	●	●	●	●	●
Auto power off	●	●	●	●	●	●	●	●	●
LCD backlight	Auto	Auto	●	●	●	●	●	●	●
Input alarm	●	●	—	—	—	●	●	—	—
Input impedance	≥10MΩ	≥10MΩ	10MΩ~1GΩ	10MΩ~1GΩ	10MΩ~1GΩ	10MΩ~1GΩ	10MΩ~1GΩ	≈ 10MΩ	≈ 10MΩ
Category ratings	CAT III 600V								
IP rating	IP 65	IP 65	—	—	—	—	—	—	—
Drop test	2m	2m	1m	1m	1m	1m	1m	2m	2m

Digital Multimeter Model Selection

Models	UT125C	UT123	UT120A	UT120B	UT120C	UT33A+	UT33B+	UT33C+	UT33D+
Page	94	95	96	96	96	106	106	106	106
NEW									
Display count	4000	4000	4000	4000	4000	2000	2000	2000	2000
Auto range	●	●	●	●	●	●	—	—	—
Bandwidth	45~400Hz	40~400Hz	40~400Hz	1kHz	400Hz	40~400Hz	40~400Hz	40~400Hz	40~400Hz
True RMS	●	—	●	●	●	—	—	—	—
Special features	—	3-color LED	—	—	—	—	Battery test	—	—
DC voltage	600V	600V	600V	600V	600V	600V	600V	600V	600V
AC voltage	600V	600V	600V	600V	600V	600V	600V	600V	600V
DC current	400mA	—	—	—	400mA	10A	10A	10A	10A
AC current	400mA	—	—	—	400mA	10A	—	—	—
Resistance	40MΩ	20MΩ	40MΩ	40MΩ	40MΩ	200MΩ	20MΩ	20MΩ	200MΩ
Capacitance	100μF	—	—	100μF	100μF	2mF	—	—	—
Frequency	60kHz	—	100kHz	100kHz	100kHz	—	—	—	—
Duty cycle	●	—	●	●	●	—	—	—	—
Temperature	—	-40~300°C	—	—	—	—	—	-40~1000°C	—
Diode test	●	—	●	●	●	●	●	●	●
Continuity buzzer	●	●	●	●	●	●	●	●	●
NCV	●	●	—	—	—	—	—	—	●
Relative mode	—	—	●	●	●	—	—	—	—
Data hold	●	●	●	●	●	●	●	●	●
Auto power off	●	●	●	●	●	●	●	●	●
LCD backlight	●	—	—	—	—	●	●	●	●
Input alarm	—	●	—	—	—	●	●	●	●
Input impedance	≥10MΩ	≥10MΩ	≥10MΩ	≥10MΩ	≥10MΩ	≈10MΩ	≈10MΩ	≈10MΩ	≈10MΩ
Category ratings	CAT III 600V		CAT II 600V						
Drop test	1m	1m	1m	1m	1m	2m	2m	2m	2m

Digital Multimeter Model Selection

Models	UT118B	UT116A	UT116C	UT105	UT81B	UT81C
Page	97	98	98	99	102	102
NEW						
Display count	3000	3000	6000	2000	4000	4000
Auto range	●	●	●	—	●	●
Bandwidth	40~400Hz	40~400Hz	40~400Hz	—	8MHz	16MHz
True RMS	—	—	—	●	—	—
Special features	—	LED test (up to 21V, crosscurrent 1mA)	LED test (up to 21V, crosscurrent 1mA)	Dwell/Tach	Datalogging	
DC voltage	600V	36V	—	1000V	1000V	1000V
AC voltage	600V	—	—	750V	750V	750V
DC current	—	—	—	10A	10A	10A
AC current	—	—	—	—	10A	10A
Resistance	30MΩ	30MΩ	60MΩ	20MΩ	40MΩ	40MΩ
Capacitance	3mF	30mF	100mF	—	100μF	100μF
Frequency	—	—	—	—	10MHz	10MHz
Duty cycle	—	—	—	—	●	●
Diode test	●	●	●	●	●	●
Continuity buzzer	●	●	●	●	●	●
MAX/MIN	●	—	—	—	—	—
Relative mode	—	—	●	—	●	●
USB	—	—	—	—	●	●
Data hold	●	●	—	●	●	●
Auto power off	—	●	●	—	●	●
LCD backlight	●	—	—	—	●	●
Input impedance	≥10MΩ	—	—	≥10MΩ	≥10MΩ	≥10MΩ
Category ratings	CAT III 300V	—	—	CAT II 1000V CAT III 600V	CAT II 1000V CAT III 600V	
Drop test	1m	—	—	1m	1m	1m

[illegible]

Clamp Meter Model Selection

Models	UT211B	UT213A	UT213B	UT213C	UT216A	UT216B	UT216C	UT216D
Page	114	115	115	115	116	116	116	116
								
AC current	60A	400A	400A	400A	600A	600A	600A	600A
DC current	60A	—	—	400A	—	—	600A	600A
Display count	6000	4000	4000	4000	6000	6000	6000	6000
Frequency response	50~60Hz	50~60Hz	50~60Hz	50~60Hz	50~60Hz/400Hz			
Jaw opening	17mm	30mm	30mm	30mm	30mm	30mm	30mm	30mm
True RMS	●	—	●	●	●	●	●	●
Inrush current	—	—	—	—	—	—	●	●
Resolution	0.1mA	1mA	1mA	10mA	1mA	10mA	10mA	10mA
Auto range	●	●	●	●	●	●	●	●
AC voltage	600V	600V	600V	600V	750V	750V	750V	750V
DC voltage	600V	600V	600V	600V	1000V	1000V	1000V	1000V
Resistance	60MΩ	40MΩ	40MΩ	40MΩ	60MΩ	60MΩ	60MΩ	60MΩ
Capacitance	62mF	100μF	40mF	40mF	60mF	60mF	60mF	60mF
Temperature	—	—	1000°C	1000°C	—	—	1000°C	1000°C
Frequency	—	1MHz	1MHz	1MHz	—	1MHz	1MHz	1MHz
Diode test	●	●	●	●	●	●	●	●
Continuity buzzer	●	●	●	●	●	●	●	●
Duty cycle	—	●	●	●	—	—	—	—
NCV	●	●	●	●	●	●	●	●
MAX	—	—	●	●	●	●	●	●
MIN	—	—	●	●	●	●	●	●
Relative mode	●	●	●	●	●	●	●	●
VFC	●	—	—	—	—	●	●	●
Zero mode	●	—	—	—	—	—	●	●
Current output	—	—	●	●	—	—	—	—
Data hold	●	●	●	●	●	●	●	●
Auto power off	●	●	●	●	●	●	●	●
Flashlight	—	●	●	●	●	●	●	●
LCD backlight	●	●	●	●	●	●	●	—
Analog bar	—	—	—	—	—	—	●	●
Input protection	●	●	●	●	●	●	●	●
Input impedance	>10MΩ	>10MΩ	>10MΩ	>10MΩ	>10MΩ	>10MΩ	>10MΩ	>10MΩ
Category ratings	CAT II 600V CAT III 300V	CAT III 600V		CAT III 600V	CAT II 1000V CAT III 600V			
Drop test	1m	1m	1m	1m	1m	1m	1m	1m

[illegible]

Electrical Power Tool Model Selection

Models	UT251A	UT251C	UT253A	UT253B	UT257A	UT255A	UT255B
Page	120	120	121	121	121	122	122
							
Leakage current	60A	600A	1200A	2000A	2999A	600A	600A
Voltage (Freq.)	600V (50/60Hz)	600V (50/60Hz)	600V (50/60Hz)	600V (50/60Hz)	—	69kV (50/60Hz)	69kV (50/60Hz)
Resolution	1μA	1mA	0.01mA	0.1mA	0.1mA	10μA	10μA
Display	4 digits LCD	4 digits LCD	128 dots × 64 dots LCD		4 digits LCD	4 digits LCD	4 digits LCD
Clamp size	25mm×30mm	35mm×40mm	80mm×80mm	80mm×80mm	108mm×148mm	Φ33mm	Φ33mm
Auto range	●	●	●	●	●	●	●
RS-232	●	●	●	●	●	●	—
Wireless transmission	—	—	—	—	—	—	●
Data storage	99	99	200	200	99	99	99
Peak hold	●	●	—	—	—	●	●
Data hold	●	●	●	●	●	●	●
Overload protection	●	●	—	—	—	●	●
Auto power off	●	●	●	●	●	●	●
Low battery indication	●	●	●	●	●	●	●
Over-range display	OL	OL	OL	OL	OL	OL	OL
Category ratings	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V	CAT III 600V

Models	UT256A	UT256B
Page	123	123
		
NEW		
AC current (A)	200A	200A
DC current (A)	—	200A
AC voltage (V)	1000V	750V
DC voltage (V)	1000V	1000V
Resistance (Ω)	60MΩ	60MΩ
Capacitance (F)	—	60mF
Frequency (Hz)	10~10kHz	—
Display count	6000	6000
Auto range	●	●
True RMS	●	●
Diode test	—	About 3V
NCV	Tricolor	●
Data hold	●	●
Zero mode/Relative mode	—	●
LCD backlight	●	●
Auto power off	About 15 minutes	About 15 minutes
Continuity buzzer	●	●
Low battery indication	≤2.4V	≤2.4V
Input protection	●	●
Input impedance	≥10MΩ	≥10MΩ

Electrical Power Tool Model Selection

Models	UT273	UT275	UT276A	UT278A
Page	127	127	127	127
				
Earth ground resistance	1000Ω	1000Ω	1200Ω	1200Ω
Leakage current	—	30A	—	30A
Display count	4 digits LCD	4 digits LCD	4 digits LCD	4 digits LCD
Jaw opening	28mm	28mm	32mm	32mm
Resistance measurement frequency	—	—	●	●
Single measurement time	—	—	●	●
Current limit alarm	—	—	●	●
Current measurement frequency	—	—	●	●
Auto power off	●	●	—	—
RS-232	—	—	●	●
Visual and audible alarm	—	—	●	●
Jamming signal recognition	—	—	●	●
Over-range display	—	—	●	●
Data storage	30	30	99	99
Category ratings	CAT III 300V	CAT III 300V	CAT III 300V	CAT III 300V

Models	UT281A	UT281C	UT281E	UT-CS09A	UT-CS09C
Page	128	128	128	129	129
					
AC current	3000A	3000A	3000A	3000A	3000A
Frequency response	45~500Hz	45~500Hz	45~500Hz	45~500Hz	45~500Hz
Inrush current	3000A	3000A	3000A	—	—
AC voltage	—	—	600V	—	—
Resistance	—	—	60MΩ	—	—
Frequency	—	—	20Hz~30kHz	—	—
Range selection	Manual	Manual	Auto	Manual	Manual
Flex coil size	10" (25.4cm)	18" (45.7cm)	18" (45.7cm)	10" (25.4cm)	18" (45.7cm)
Display count	3000	3000	6000 (3000 in current measurement)	—	—
Refresh rate	3 times/s	3 times/s	3 times/s	—	—
True RMS	●	●	●	—	—
Display interface (LCD)	single	single	Dual	—	—
Data hold	●	●	●	—	—
Buzzer	●	●	●	—	—
Auto power off	●	●	●	—	—
Low battery indication	●	●	●	●	●
LCD backlight	●	●	●	—	—
Function selection	●	●	●	—	—
Drop test	2m	2m	2m	1m	1m
IP rating	IP54	IP54	—	—	—
Category ratings	CAT IV 600V	CAT IV 600V	CAT IV 600V	CAT IV 600V	CAT IV 600V

Infrared Thermometer Model Selection

Models	UT300A+	UT301A+	UT301C+	UT301D+	UT302A+	UT302C+	UT302D+	UT303A+	UT303C+	UT303D+
Page	135	132	132	132	133	133	133	133	133	133
NEW										
Temperature range	-20~400°C	-32~420°C	-32~600°C	-32~600°C	-32~700°C	-32~1100°C	-32~1100°C	-32~800°C	-32~1300°C	-32~1300°C
Accuracy	±2% or ±2°C	±1.5% or ±1.5°C			±1.5% or ±1.5°C			±1.5% or ±1.5°C		
D:S ratio	10:1	12:1			20:1			30:1		
Response time	500ms	250ms			250ms			250ms		
Emissivity	0.95	0.1~1			0.1~1			0.1~1		
Spectral response	5.5~14um	8~14um			8~14um			8~14um		
Laser type	Class 2	Class 2			Class 2			Class 2		
Laser power	< 1mW	< 1mW			< 1mW			< 1mW		
Laser wave length	630~670nm	630~670nm			630~670nm			630~670nm		
Laser signal	Single	Single	Circular	Dual	Single	Circular	Dual	Single	Circular	Dual
Display	20x24mm	30x30mm			35x35mm			35x35mm		
Laser switch	—	●			●			●		
°C/°F selection	●	●			●			●		
Auto power off	●	●			●			●		
Data hold	●	●			●			●		
Low battery indication	—	●			●			●		
MAX/MIN	—	●			●			●		
Average/Differential	—	●			●			●		
LCD backlight	●	●			●			●		
Date/Time	—	—	●	—	—	●	—	—	●	—
Data storage	—	—	99	99	—	99	99	—	99	99
Scheduled measurement	—	—	●	●	—	●	●	—	●	●
High/low limit alarm	—	●			●			●		
Tripod mounting hole	—	●			●			●		
Drop test	1m	1m			1m			1m		

Infrared Thermometer Model Selection

Models	UT305A	UT305C	UT306A	UT309A	UT309C	UT309E
Page	136	136	137	138	138	138
						
Temperature range	-50~1050°C	-50~1550°C	-35~300°C	-35~450°C	-35~650°C	-35~850°C
Accuracy	±1.8% or ±1.8°C		±2% or ±2°C	±1.8% or ±1.8°C		
D:S ratio	50:1		6:1	10:1	12:1	20:1
Response time	250ms		250ms	250ms		
Emissivity	0.1~1		0.95	0.95	0.1~1	0.1~1
Spectral response	8~14um		5~14um	8~14um		
Laser type	Class 2		Class 2	Class 2		
Laser power	< 1mW		< 1mW	< 1mW		
Laser wave length	630~670nm		630~670nm	630~670nm		
Laser signal	Single		Single	Single	Dual	Dual
Display	33mm x 38mm		37.4mm x 36.4mm	32mm x 29mm	32mm x 29mm	32mm x 32mm
Laser switch	●		●	●		
°C/°F selection	●		●	●		
Auto power off	●		●	●		
Data hold	●		●	●		
Low battery indication	●		●	●		
MAX/MIN	●		●	●		
Average/Differential	●		—	●		
LCD backlight	●		●	●		
Data storage	99		—	—	—	99
USB data transmission	●		—	—		
High/low limit alarm	●		—	●		
T-C probe	●		—	—		
Tripod mounting hole	●		—	●		
IP rating	—		—	IP65		
Drop test	1m		1m	3m		

Environmental Tester Model Selection

Models	UT311	UT312	UT315A
Page	140	140	140
NEW			
Measurement mode	All-in-one	Split-type	Split-type
Acceleration (O-P)	0.1~199.9m/s ²	0.1~199.9m/s ²	0~199.9m/s ² ; ±(5%+0.2m/s ²)
Velocity (RMS)	0.1~199.9mm/s	0.1~199.9mm/s	0~19.99cm/s; ±(5%+0.02cm/s)
Displacement (P-P)	1~1.999um	1~1.999um	1~1.999mm; ±(5%+0.002mm)
Display count	2000	2000	2000
Data storage	—	—	1999
Backlight	—	—	●
USB communication	—	—	●
Data hold	●	●	●
Low battery indication	●	●	●
Auto power off	●	●	●

Models	UT320A	UT320D	UT321	UT322	UT325
Page	141	141	142	142	142
					
Display mode	Single	Dual	Single	Dual	Dual
Temperature range	-50~1372°C	-50~1372°C	-200~1372°C	-200~1372°C	-200~1372°C
Resolution	0.1°C	0.1°C	0.1°C (>999.9°C: 1°C)	0.1°C (>999.9°C: 1°C)	0.1°C (>999.9°C: 1°C)
Mode selection	K/J	K/J	K/J/T/E	K/J/T/E	K/J/T/E/R/S/N
Unit selection	°C/°F	°C/°F	°C/°F/K	°C/°F/K	°C/°F/K
Data hold	●	●	●	●	●
Auto power off	●	●	●	●	●
Low battery indication	●	●	●	●	●
MAX/MIN/AVG	●	●	●	●	●
Data storage	—	—	100	100	100
USB interface	—	—	●	●	●
High alarm	—	—	●	●	●
Low alarm	—	—	●	●	●
High/lower signal output	—	—	●	●	●
LCD backlight	●	●	●	●	●
Auto calibration	—	—	●	●	●
USB interface	—	—	●	●	●
Drop test	1m	1m	1m	1m	1m

Environmental Tester Model Selection

Models	UT331	UT332	UT333	UT333BT	UT333S
Page	143	143	145	145	146
					
Measurement mode	All-in-one	All-in-one	All-in-one	All-in-one	Split-type
Temperature range	-20~70°C	-20~70°C	-10~60°C	-10~60°C	-10~60°C
Temperature accuracy	±0.5°C	±0.5°C	±1°C	±1°C	±1°C
Temperature resolution	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C
Humidity range	0%~100%RH	0%~100%RH	0%~100%RH	0%~100%RH	0%~100%RH
Humidity accuracy	±3.5%RH	±2.5%RH	±5%RH	±5%RH	±5%RH
Humidity resolution	0.1%RH	0.1%RH	0.1%RH	0.1%RH	0.1%RH
Auto power off	●	●	●	●	●
°C/°F selection	●	●	●	●	●
Data storage	100	100	—	—	—
APP/Bluetooth	—	—	—	●	—
USB interface	●	●	—	—	—

Models	UT351	UT352	UT353	UT353BT
Page	148	148	149	149
				
Measurement mode	All-in-one	All-in-one	All-in-one	All-in-one
Noise range	30~130dB	30~130dB	30~130dB	30~130dB
Accuracy	±1.5dB	±1.5dB	±1.5dB	±1.5dB
Resolution	0.1dB	0.1dB	0.1dB	0.1dB
Frequency	31.5Hz~8kHz	31.5Hz~8kHz	31.5Hz~8kHz	31.5Hz~8kHz
Frequency weighting	A&C	A&C	A	A
Sampling rate (Fast)	125ms	125ms	125ms	125ms
Sampling rate (Slow)	1000ms	1000ms	1000ms	1000ms
Analogue outputs	●	●	—	—
Data hold/MAX/MIN	●	●	●	●
Auto power off	●	●	●	●
Low battery indication	●	●	●	●
Data storage	—	63	—	—
APP/Bluetooth	—	—	—	●
High/Lower alarm	●	●	●	●
LCD backlight	●	●	●	●
Analog bar graph	30~130dB	30~130dB	—	—

Environmental Tester Model Selection

Models	UT361	UT362	UT363	UT363BT	UT363S
Page	150	150	151	151	152
					
Measurement mode	All-in-one	All-in-one	All-in-one	All-in-one	Split-type
Wind speed range	2m/s~30m/s	2m/s~30m/s	0m/s~30m/s	0m/s~30m/s	0.4m/s~30m/s
Wind speed resolution	0.01m/s	0.01m/s	0.1m/s	0.1m/s	0.01m/s
Wind count measurement	CMM/CFM	CMM/CFM	—	—	—
Temperature range	0°C~40°C	0°C~40°C	-10°C~50°C	-10°C~50°C	-10°C~50°C
Temperature resolution	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C
Sampling rate	0.5s	0.5s	0.5s	0.5s	0.5s
APP/Bluetooth	—	—	—	●	—
Data hold/Units switch	●	●	●	●	●
MAX/MIN/AVG	MAX/MIN	MAX/MIN	MAX/MIN	MAX/MIN	MAX/MIN/AVG
USB interface	—	●	—	—	—
Auto power off	●	●	●	●	●
Data storage	2044	2044	—	—	—
Low battery indication	●	●	●	●	●
LCD backlight	●	●	●	●	●

Models	UT371	UT372	UT373
Page	153	153	154
			
RPM measurement	99999RPM	99999RPM	99999RPM
Counts range	0~99999	0~99999	0~99999
Target distance	50~200mm	50~200mm	50~200mm
Display count	100000	100000	100000
Auto range	●	●	●
Auto power off	●	●	●
Low battery indication	●	●	●
Laser-on indication	●	●	●
Data hold	●	●	●
MAX/MIN	●	●	●
Rotating speed/Count function switching	●	●	●
Overload indication	●	●	●
LCD backlight	—	—	●
USB interface	—	●	—
Drop test	1m	1m	1m

Environmental Tester Model Selection

Models	UT381	UT382	UT383	UT383BT	UT383S
Page	156	156	157	157	158
					
Measurement mode	All-in-one	All-in-one	All-in-one	All-in-one	Split-type
Illuminance measurement (Lux)	20000Lux	20000Lux	199900Lux	199900Lux	199900Lux
Illuminance measurement (Fc)	2000Fc	2000Fc	18500Fc	18500Fc	18500Fc
Sampling rate	0.5s	0.5s	0.5s	0.5s	0.5s
APP/Bluetooth	—	—	—	●	—
Data hold	●	●	●	●	●
Data storage	2044	2044	—	—	—
USB interface	—	●	—	—	—
Auto power off	●	●	●	●	●
MAX/MIN	●	●	●	●	●
LCD backlight	—	—	●	●	●
Low battery indication	●	●	●	●	●
Auto record time setup	●	●	—	—	—
Units switch	●	●	●	●	●
Real-time clock	●	●	—	—	—
Tripod mounting hole	—	—	—	●	—
Overload indication	●	●	●	●	●

Models	A12T	A13T
Page	159	159
		
Temperature	-10~50°C	-10~50°C
Humidity	20%~95%RH	20%~95%RH
External Temperature probe	-10~50°C	—
Sampling rate	10s	10s
Units switch (°C/°F)	●	●
MAX/MIN	●	—
Comfort rating (Wet/dry/comfort)	●	—
Alarm clock	●	●
Time display	●	●
Date/Calendar	—	●
12/24 hour modes	●	●

Environmental Tester Model Selection

Models	A15F	A25M	A25D	A25F	A37
Page	160	161	161	161	162
					
Formaldehyde	0~2mg/m ³	—	—	0~2mg/m ³	—
PM2.5	—	0~500µg/m ³	0~500µg/m ³	0~500µg/m ³	—
Carbon dioxide	—	—	—	—	400~5000ppm
Temperature	-10~50°C	-10~50°C	-10~50°C	-10~50°C	-10~50°C
Humidity	0%~99%RH	—	5%~99%RH	5%~99%RH	0%~99%RH
Emoticon display	●	●	●	●	—
Date/Time	●	—	—	—	●
Automatic baseline correction	—	—	—	—	●
Audible alarm	—	—	—	—	●
Visual alarm	●	●	●	●	●
Low battery indication	●	●	●	●	●
Auto power off	●	●	●	●	●
LCD backlight	●	●	●	●	●
Power (Micro USB)	1300mAh Li-ion rechargeable battery	520mAh Li-ion rechargeable battery	1500mAh Li-ion rechargeable battery	1500mAh Li-ion rechargeable battery	1500mAh Li-ion rechargeable battery

Models	UT387A		UT387B
Page	175		175
			
Ferrous metals	StudScan: 19mm	ThickScan: 28.5mm	80mm
Non-ferrous metals	StudScan: 19mm	ThickScan: 28.5mm	80mm
Copper conductors (live)	StudScan: 50mm	ThickScan: 50mm	50mm
Wood	StudScan: 19mm	ThickScan: 28.5mm	20mm
Scanning modes	StudScan and ThickScan		—
Auto calibration	●		—
User calibration	—		●
Buzzer indication	●		●
Auto power off	●		●
Silent mode	—		●
Error calibration alarm	●		—
LED alarm	●		●
Low battery indication	●		●

Layout and Measurement Tool Model Selection

Models	LM40T	LM20m	LM40m	LM40e	LM50e	LM60e
Page	165	165	165	166	166	166
NEW						
Display type	LCD	LCD		FSTN		
Display size	1.2-inches	1.2-inches		1.8-inches		
Range	40m; 5m tape	20m	40m	40m	50m	60m
Min. display unit	0.001m	0.001m		0.001m		
Measurement units	m/ft	m/ft+in		m/ft/in/ft+in		
Measurement basis	Rear	Rear		Front/rear		
Accuracy	±2mm	±2mm		±2mm		
Laser class	2	2		2		
Laser type	630~670nm, <1mW	630~670nm, <1mW		630~670nm, <1mW		
Single measurement	●	●		●		
Continuous measurement	—	—		●		
MAX/MIN	—	—		●		
Area	—	—		●		
Pythagoras	—	—		●		
Volume	—	—		●		
Add/Subtract	—	—		●		
Data storage	—	—		20		
Auto power off	●	●		●		
Auto laser off	●	●		●		
Auto backlight off	—	—		●		
Battery status display	●	●		●		

Layout and Measurement Tool Model Selection

Models	LM40	LM50	LM60	LM80	LM100	LM120	LM150	LM50D	LM100D
Page	167	167	167	167	167	167	167	171	171
NEW									
Display type	EBTN			TN				EBTN	
Display size	2.0-inches			2.0-inches				2.4-inches	
Range	40m	50m	60m	80m	100m	120m	150m	50m	100m
Min. display unit	0.001m			0.001m				0.001m	
Measurement units	m/ft/in/ft+in			m/ft/in/ft+in				m/ft/in/ft+in	
Measurement basis	Front/rear			Front/rear				Front/middle/rear	
Accuracy	±2mm			±2mm				±2mm	
Laser class	2			2				2	
Laser type	630~670nm, <1mW			630~670nm, <1mW				630~670nm, <1mW	
Single measurement	●			●				●	
Continuous measurement	●			●				●	
MAX/MIN/Area	●			●				●	
Volume	●			●				●	
Auto leveling horizontal	—			●				●	
Auto leveling vertical	—			●				●	
Pythagoras	●			●				●	
Triangle area	—			—				●	
Add/Subtract	●			●				●	
Curvature measurement	—			—				●	
Displacement	—			—				●	
Electronic leveler	—			—				●	
Data storage	20			20				20	
Auto power off	●			●				●	
Auto laser off	●			●				●	
Auto backlight off	●			●				●	
Tilt angle	—			●				●	
Audio indication	●			●				●	
Battery status display	●			●				●	

Layout and Measurement Tool Model Selection

Models	LM70 PRO	LM100 PRO	LM120 PRO	LM50EX	LM70EX	LM100EX	LM80C	LM120C	LM200C
Page	168	168	168	169	169	169	170	170	170
NEW									
Display type	EBTN			TFT			IPS		
Display size	2.4-inches			2.4-inches			2.4-inches		
Range	70m	100m	120m	50m	70m	100m	80m	120m	200m
Min. display unit	0.001m			0.001m			0.001m		
Measurement units	m/ft/in/ft+in			m/ft/in			m/ft/in/ft+in		
Measurement basis	Front/middle/rear			Front/middle/rear			Front/middle/rear		
Accuracy	±2mm			±2mm			±2mm		
Laser class	2			2			2		
Laser type	630~670nm, <1mW			630~670nm, <1mW			630~670nm, <1mW		
Auto rotatable	—			●			●		
Camera mode	—			—			●		
Single measurement	●			●			●		
Continuous measurement	●			●			●		
MAX/MIN/Area	●			●			●		
Volume	●			●			●		
Auto leveling horizontal	●			●			●		
Auto leveling vertical	●			●			●		
Pythagoras	●			●			●		
Triangle area	●			—			●		
Add/Subtract	●			●			●		
Data storage	20			20			100		
Auto power off	●			●			●		
Auto backlight off	●			●			●		
USB charging	●			●			●		
Battery status display	●			●			●		
IP rating	IP 65			IP 65			IP 65		
Drop test	2m			2m			2m		

Layout and Measurement Tool Model Selection

Models	LM570R-I	LM570LD-I	LM571R-I	LM571LD-I
Page	172	172	173	173
NEW				
Laser color	Red	Green (LD)	Red	Green (LD)
Laser type	1V1H (1 laser)	1V1H (1 laser)	1V1H (2 laser)	1V1H (2 laser)
Expanded angle	H110°/V110°	H110°/V110°	H130°/V150°	H130°/V150°
Laser class	Class 2	Class 2	Class 2	Class 2
Light source	10mW	10mW	10mW	10mW
Laser wavelength	635nm	510nm	635nm	510nm
H/V accuracy	±3mm/10m	±3mm/10m	±2mm/10m	±2mm/10m
Self-leveling range	3°±1°	3°±1°	3°±1°	3°±1°
Self-leveling time	3s	3s	3s	3s
Working distance (Line)	15m~30m	20m~40m	20m; >30m with detector	

Models	LM600	LM800	LM1000	LM1200	LM1500
Page	174	174	174	174	174
					
Distance range	5~600yd	5~800yd	5~1000yd	5~1200yd	5~1500yd
Accuracy	±1yd±Dx0.2%				
Magnification	7X				
Objective caliber	25mm				
Height	250yd	300yd	450yd	500yd	600yd
Height error	±0.5yd				
Velocity range	0~300km/h				
Angle	±45°				
Angle error	±1°				
Pulse laser	●				
Fast distance measurement	●				
LCD display	●				
Silent operation	Auto power off system				
Power (Li-ion battery)	3.7V 1500mAh				

Insulation Resistance Tester Model Selection

Models	UT505A	UT505B	UT501A	UT501B	UT502A	UT511	UT512	UT512A	UT513A
Page	178	178	179	179	179	180	180	180	180
									
Test voltage	1000V	1000V	1000V	1000V	2500V	1000V	2500V	2500V	5000V
Insulation resistance	20GΩ	200GΩ	5GΩ	5GΩ	20GΩ	10GΩ	100GΩ	100GΩ	1TGΩ
Step voltage	50%-120% in range and 10% of step		—	—	—	—	—	—	—
Short-circuit current	<2mA	<2mA	<2mA	<2mA	<2mA	<2mA	<1.8mA	<1.8mA	~3.5mA
Comparison function	●	●	—	—	—	●	●	●	●
Polarization index (PI)	●	●	—	●	●	●	●	●	●
Dielectric absorption ration (DAR)	●	●	—	●	●	●	●	●	●
Auto discharge	●	●	●	●	●	●	●	●	●
Low resistance	20KΩ	10MΩ	—	200Ω	200Ω	999.9Ω	—	—	—
Display count	6000	6000	2000	2000	2000	10000	10000	10000	10000
True RMS	●	●	—	—	—	—	—	—	—
Auto range	●	●	●	●	●	●	●	●	●
DC voltage	600V	600V	—	—	—	1000V	600V	600V	600V
AC voltage	600V	600V	750V	750V	750V	750V	600V	600V	600V
Resistance	—	10MΩ	—	—	—	—	—	—	—
Capacitance	—	500μF	—	—	—	—	—	—	—
Frequency	—	1kHz	—	—	—	—	—	—	—
USB data transmission	—	—	—	—	—	—	●	●	●
Data storage	99	99	—	—	—	18	18	18	18
High voltage prompt	●	●	●	●	●	●	●	●	●
LCD backlight	●	●	●	●	●	●	●	●	●
Analog bar	●	●	—	—	—	●	●	●	●
Low battery indication	●	●	●	●	●	●	●	●	●
Overload prompt	●	●	●	●	●	●	●	●	●
Light alarm	●	●	●	●	●	—	—	—	—
Buzzer alarm	●	●	●	●	●	●	●	●	●
Auto power off	●	●	●	●	●	●	●	●	●
Timing measurement	●	●	—	—	—	—	—	—	—
Meets IEC 61557	61557-1:2007, 61557-2:2007, 61557-4:2007		UT501A: 61557-1:2007, 61557-2:2007 UT501B/UT502A: 61557-1:2007, 61557-2:2007, 61557-4:2007			—	UT512A/UT513A: 61557-1:2007, 61557-2:2007		
Category ratings	CAT IV 600V		CAT III 600V						

Electrical Installation Tester Model Selection

Models	UT521	UT522
Page	181	181
		
Earth resistance	2000Ω	4000Ω
AC earth voltage	200V	400V
Frequency	50Hz/60Hz	50Hz/60Hz
Display count	2000	4000
Manual range	●	●
Auto power off	●	●
Low battery indication	●	●
Data hold	●	●
Data storage	20	20
LCD backlight	●	●
Full icon display	●	●
Double insulation protection	●	●
Poor contact display	●	●
Over-range display	●	●
Simple 2-wire testing	●	●
Precise 3-wire testing	●	●

Models		UT582+	UT585	UT586
Page		184	185	185
NEW				
RCD measurement	×1/2	500mA (Trip time: 2000ms)	500mA (Trip time: 1000ms)	1000mA (Trip time: 2000ms)
	×1	300mA (Trip time: 1000ms)	500mA (Trip time: 1000ms)	1000mA (Trip time: 200ms)
	×2	—	300mA (Trip time: 1000ms)	500mA (Trip time: 200ms)
	×5	30mA (Trip time: 40ms)	200mA (Trip time: 300ms)	200mA (Trip time: 200ms)
	Auto RAMP	500mA (Trip time: 300ms)	500mA (Trip time: 300ms)	1000mA (Trip time: 300ms)
	Manual RAMP	—	—	1000mA (Trip time: 300ms)
AC voltage		30V~600V	60V~400V	60V~400V
DC voltage		—	±60V~±400V	—
Auto power off		●	●	●
Low battery indication		●	●	●
Data hold		●	●	●
LCD backlight		●	●	●
Contact voltage automatic detection		●	●	●
Over-temperature detection		—	●	●
Lock measurement		—	●	●
Connections check		●	●	●
Fused		●	●	●

Component Testing Model Selection

Models	UT601	UT603	UT612
Page	186	186	187
			
Resistance	2000MΩ	20MΩ	200MΩ
Capacitance	20mF	600μF	20mF
Inductance	—	20H	2000H
Display count	2000	2000	20000
Manual range	●	●	—
Auto range	—	—	●
D/Q display count	—	—	2000
Test frequency real-time display	—	—	●
Measurement mode	—	—	●
Auto power off	—	—	●
Data hold	—	—	●
Relative mode	—	—	●
USB interface/PC data records	—	—	60000
LCD backlight	—	—	●
Analog bar graph	—	—	●
Deviation ratio measurement	—	—	●
Comparison function	—	—	●
Calibration function	—	—	●
Output impedance	—	—	●
Auto LCR check and measurement	—	—	●
Diode	●	●	—
Transistor	●	●	—
Continuity buzzer	●	●	—
Low battery indication	●	●	●

Wire/Cable Tester Model Selection

Models	UT681L	UT681C	UT681HDMI
Page	189	189	189
			
To test for: RJ45/RJ11	●	—	—
To test for: RJ45/RJ11/BNC	—	●	—
To test for: HDMI/MINI-HDMI	—	—	●
Fast test mode	LED1~LED8, LED_G	LED1~LED8, LED_G	—
Slow test mode	LED1~LED8, LED_G	LED1~LED8, LED_G	—
Scan test mode	—	—	LED1~LED19, LED_S
Full display test mode	—	—	LED1~LED19, LED_S
To test for the case of short circuit, crossover, open circuit, etc.	●	●	●
Ethernet cable: shielded/unshielded test	●	●	●
Manual shutdown function	●	●	●
Auto shutdown function	●	●	●
Single key operation	●	●	●
Power supply: 9V battery	●	●	●
Low battery detection	●	●	●

Models	UT682	UT682D
Page	190	190
		
NEW		
Wire types	LAN cable\telephone line\coaxial cable\electric wire	Telephone line\twisted-pair\electric wire
Indication light for signal strength	●	—
Live switchboard wire tracing	●	—
Switchboard wire tracing distance	≥100m	—
Telephone lines tracking distance	≥3000m	≥3000m
Unshielded cables tracking distance	≥320m	—
Shielded cables tracking distance	≥320m	—
Open and short circuit test	●	—
Polarity indication for telephone lines	DCV function, range: ±(5V~52V)	DCV function, range: ±(5V~52V)
Telephone lines and LAN cables distinction	Jacks distinction	—
Broken wire tracking	●	—
Transmitter output voltage	≥12V peak-peak	8V DC with a new battery
Transmitter low battery indication	6.6V±0.5V	7V±0.5V
Transmitter power supply	9V battery	9V battery
Max transmitter working current	25mA	—
Headphone jack for receiver	●	—
Receiver power supply	9V battery	9V battery
Max receiver standby current	~10mA	~10mA
Max receiver operating current	<40mA (AC, RMS)	<40mA (AC, RMS)
Line sequence measurement	9 LEDs (LED1~LED8, LED_G)	—
Line sequence measuring speed	Fast and slow selectable	—
LAN cable: shielded/unshielded indication	●	—

USB Tester/Fiber Optical Cable Tester Model Selection

Models	UT658A	UT658B	UT658C	UT658DUAL	UT658LOAD
Page	192	191	192	192	192
NEW					
Input & Output ports	USB-Type A	USB-Type A	USB-Type C	USB-Type A/C	USB-Type A
Data/charging protocol	2.0/3.0	2.0/3.0	2.0/4.0	2.0/(3.0/4.0)	2.0/3.0
Electrical load	—	—	—	—	0.5A, 1A, 2A, 3A
Input voltage range	4~24V	3~9V	4~24V	4~24V	4~24V
Voltage resolution	0.01V	0.01V	0.01V	0.01V	0.01V
Current monitoring range	0.05~3A	0~3.5A	0.05~5A	USB Type A:0.05-3A USB Type C:0.05-5A	0.05~3A
Capacity	0~99999mAh	0~39999mAh	0~99999mAh	0~99999mAh	0~99999mAh
Energy	0~1000Wh	—	0~1000Wh	0~1000Wh	0~1000Wh
Circuit equivalent resistance measurement	1~480Ω	—	1~480Ω	1~480Ω	1~480Ω
USB data cable voltage (D+, D-)	0~3.3V	—	0~3.3V	0~3.3V	0~3.3V
Maximum recording time	99h, 59min, 59sec	—	99h, 59min, 59sec	99h, 59min, 59sec	99h, 59min, 59sec
Capacity data storage	10	10	10	10	10
Display	LCD	LCD	LCD	LCD	EBTN LCD
Cable length	10cm	10cm	10cm	10cm	10cm

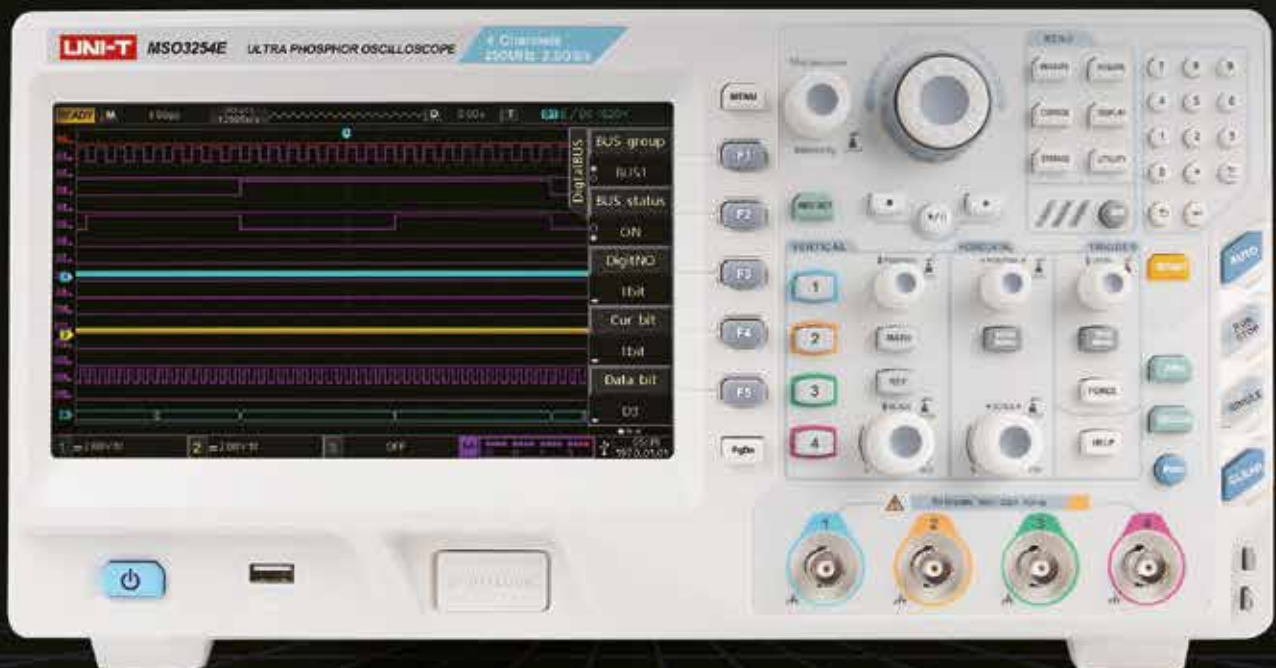
Models	UT691- (01 10 20)	UT692D G	UT693D	UT695D-10	UT696	UT697
Page	194	195	195	196	197	197
NEW						
Type	Visual fault locator	Optical power meter	Optical Multimeter (Power Meter & VFL)	Optical Multimeter	Optical Light source	Optical Multimeter (Power Meter & LS)
Optical power meter	Wavelength range	—	800nm~1700nm		—	800nm~1700nm
	Calibrated wavelength	—	850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm, 1650nm		—	850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm, 1650nm
	Measurement range	—	UT692D: -70dBm~10dBm UT692G: -50dBm~26dBm	-70dBm~10dBm	-70dBm~10dBm	—
	Uncertainty	—	±5%	±5%	±5%	—
	Display resolution	—	Linear: 0.1%, log: 0.01dBm		—	Linear: 0.1%, log: 0.01dBm
	Connector	—	FC, SC, ST		—	FC, SC, ST
	Detector type	—	InGaAs		—	InGaAs
Visual fault locator	Wavelength	650nm±10nm	—	650nm±10nm	650nm±10nm	—
	Power	1 10 20mW	—	10mW	10mW	—
	Measurable optical fiber length	2~3 8~10 12~15km	—	8~10km	8~10KM	—
	Mode	Continuous, pulse	—	Continuous, pulse	Continuous, pulse	—
	Connector	FC, SC, ST	—	FC, SC, ST	FC, SC, ST	—
Light source (Only UT696/UT697)		Wavelength: 1310nm, 1550nm; Typical output optical power: -4dBm; Internal modulation: 0Hz/270Hz/1000Hz/2000Hz; Adjustable output optical power: -4dBm, -6dBm, -8dBm, -10dBm; Luminescent device: FP-LD; Optical interface: FC/PC; Applicable optical fiber: SM, MM				
LAN cable sequence/RJ45 Cable Tester		—	—	—	●	—
Flashlight		●	●	—	●	—
IP rating		IP 54	IP 65	IP 65	IP 54	IP 65
Drop proof		2m	2m	2m	2m	2m

OSCILLOSCOPES

Oscilloscope is one of the most essential instrument for design, manufacture and maintenance of electronic devices. Engineers can use these convenient, accessible and accurate instruments to observe all types of analog/digital signals, detect and eliminate faults, and overcome challenges during design and modulation. It is suitable for education and industrial measurement. UNI-T's wide range of oscilloscopes provide customization that can meet all users' measurement needs.

■ APPLICATIONS

Serial data analysis, jitter analysis, data storage device testing, electric vehicle and electronics equipment design, evaluating frequency response of sound equipment, troubleshooting automotive engines, electronics technician repair and maintenance.



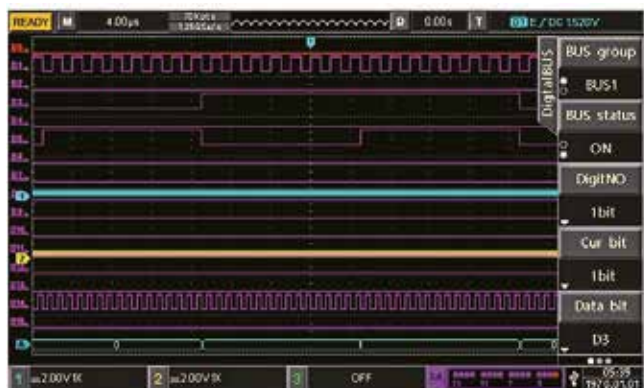
MSO3000E SERIES

MIXED SIGNAL OSCILLOSCOPES



● MSO3254E

- Channels: 2/4+16; Bandwidth: 150M/250MHz
- Sampling rate: 2.5GS/s; Memory depth: 70Mpts
- Waveform capture rate: 200,000wfms/s
- Built-in 25MHz dual-channel function/arbitrary waveform generator
- Independent triggering
- 256-level intensity grading display
- Multiple triggering and decoding available
- 8 inches TFT LCD, WVGA (800×480)
- Up to 100,000 frames waveform record
- Interfaces: USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail), VGA



Digital signal analyzer

- 16 digital channels
- Sampling rate: 1.25GS/s (8 channels); 625MS/s (16 channels)
- Memory depth: 70Mpts
- Includes UT-M15 logic analyzer



Built-in 50MHz function generator

- 2 channels
- 250MS/s sampling rate
- Standard waveforms: Sine, square, pulse, sawtooth, noise

UT-M15 Specifications:

- Min voltage swing: 500mV
- Min detectable pulse width: 5ns
- Threshold accuracy: $\pm 100\text{mV} + 3\%$
- Input impedance: 101k Ω
- Input capacitance: $\approx 9\text{pF}$
- Cable length: 1m



	MSO3152E	MSO3154E	MSO3252E	MSO3254E
Analog bandwidth	150MHz		250MHz	
Channels	2+16 digital	4+16 digital	2+16 digital	4+ digital
Sampling rate (Analog)	2.5GS/s (Single channel), 1.25GS/s (Dual channels)			
Sampling rate (Digital)	1.25GS/s (Eight channels), 625MS/s(Sixteen channels)			
Memory depth	70Mpts			
Waveform capture rate	200,000wfms/s			
Time base scale	2ns/div~50s/div (Real-time sampling rate, memory depth display)			
Time base scale (digital)	2ns/div~40S/div 【Step by 1-2-4 stall】			
Input impedance	(1M Ω ±1%) (20pF±3pF)			
Input impedance digital	(101k Ω ±1%) (9pF±1pF)			
Vertical scale	1mV/div~20 V/div (1 M Ω)			
DC gain accuracy	<5mV: ±3%, ≥5mV: ±2%			
Waveform record	100,000 frames			
Trigger types	Edge, Runt, Window, Nth Edge, Delay, Overtime, Duration, Setup/Hold, Pulse Width, Slop, Video, Code; RS232/UART, I2C, SPI, USB, CAN, LIN, FlexRay			
Bus decode	RS232/UART, I2C, SPI, USB, CAN, LIN, FlexRay			
Waveform operations	A+B, A-B, A×B, A/B, FFT, editable advanced and logical operations			
Auto measurements	Max, Min, High, Low, Ampl, Pk-Pk, Middle, Mean, CycMean, RMS, CycRMS, Period, Freq, Rise, Fall, RiseDelay, FallDelay, +Width, -Width, FRR, FRF, FFR, FFF, LRF, LRR, LFR, LFF, +Duty, -Duty, Area, CycArea, OverSht, PreSht, Phase, 34 parameters in total digital channel: Freq, Period, +Width, -Width, +Duty, -Duty, RiseDelay A→B, FallDelay A→B, Phase A→B, Phase B→A			
Measurement display	5 types			
Measurement statistics	Average, Max, Min, standard deviation and number of measurements			
Frequency counter	6 bits			
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail), AWG, UT-M15 logic analyzer probe , VGA			
Power	100V~240V ACrms, 50Hz/60Hz			
Display	8-inch TFT LCD, WVGA (800 x 480)			
Product color	White and grey			
Product net weight	3.5kg			
Product size	336mm x 164mm x 108mm			
Standard accessories	Probe x 2/4 (1 x , 10 x switchable), power cord, USB interface cable			
Standard individual packing	Carton box			
Standard quantity per carton	2pcs			
Standard carton measurement	470mm x 425mm x 300mm			
Standard carton gross weight	11kg			

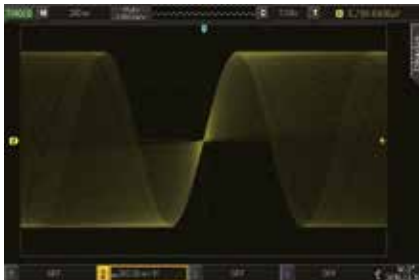
UPO3000E SERIES

ULTRA PHOSPHOR OSCILLOSCOPES

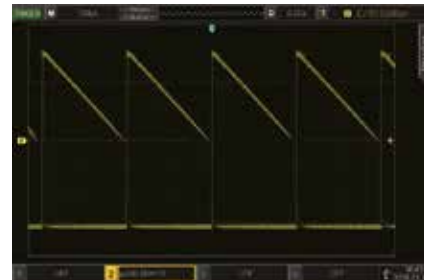


● UPO3254E

- Channels: 2/4; Bandwidth: 150M/250MHz
- Sampling rate: 2.5GS/s; Memory depth: 70Mpts
- Waveform capture rate: 200,000wfms/s
- Independent triggering
- 256-level intensity grading display
- Multiple triggering and decoding available
- 8 inches TFT LCD, WVGA (800×480)
- Up to 100,000 frames waveform record
- Interfaces: USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail), VGA



The ability of capturing low-probability events is highly improved with up to 200,000wfms/s waveform capture rate. Users can clearly observe signal jitters and glitches



256 level intensity grading display to timely show the probability of waveform generation



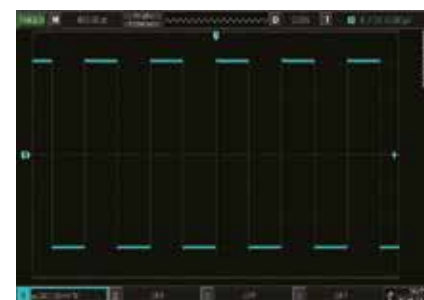
Up to 70Mpts channel memory depth. Users can capture signals for longer time without losing the waveform details



A variety of measuring and statistical functions



Editable advanced operations



Menu can be hidden to allow longer horizontal viewing area for more waveform details



A variety of triggers: Runt, Nth Edge, Pattern, RS232/
UART, I2C, SPI, CAN, USB, FlexRay



Unique numerical keypad

	UPO3152E	UPO3154E	UPO3252E	UPO3254E
Analog bandwidth	150MHz		250MHz	
Channels	2	4	2	4
Sampling rate	2.5GS/s (Single channel), 1.25GS/s (Dual channels/Four channels)			
Memory depth	Each channel: auto, 7kpts, 70kpts, 700kpts, 7Mpts, 70Mpts selectable (open the 4 channels at the same time)			
Waveform capture rate	200,000wfms/s			
Time base scale (s/div)	2ns/div~40s/div (Real-time sampling rate, memory depth display) 【Step by 1-2-4 stall】			
Input impedance	(1MΩ±1%) (18pF±3pF)			
Vertical scale (V/div)	1mV/div~20V/div (1MΩ)			
DC gain accuracy	<5mV: ±3%, ≥5mV: ±2%			
Waveform record	100,000 frames			
Trigger types	Edge, Runt, Window, Nth Edge, Delay, Overtime, Duration, Setup/Hold, Pulse Width, Slop, Video, Code; RS232/UART, I2C, SPI, USB, CAN, LIN, FlexRay			
Bus decode	RS232/UART, I2C, SPI, USB, CAN, LIN, FlexRay			
Waveform operations	A+B, A-B, A×B, A/B, FFT, editable advanced and logical operations			
Auto measurements	Max, Min, High, Low, Ampl, Pk-Pk, Middle, Mean, CycMean, RMS, CycRMS, Period, Freq, Rise, Fall, RiseDelay, FallDelay, +Width, -Width, FRR, FRF, FFR, FFF, LRF, LRR, LFR, LFF, +Duty, -Duty, Area, CycArea, OverSht, PreSht, Phase, 34 parameters in total			
Measurement display	5 types			
Measurement statistics	Average, Max, Min, standard deviation and number of measurements			
Frequency counter	6 bits			
Interfaces	Standard: USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail), VGA Optional: AWG			
Power	100V~240V ACrms, 50Hz/60Hz			
Display	8-inch TFT LCD, WVGA (800 x 480)			
Product color	White and grey			
Product net weight	4.2kg			
Product size	370mm x 195mm x 125mm			
Standard accessories	Probe x 2/4 (1 x , 10 x switchable), power cord, USB interface cable			
Standard individual packing	Carton box			
Standard quantity per carton	2pcs			
Standard carton measurement	470mm x 425mm x 300mm			
Standard carton gross weight	11kg			

UPO2000E SERIES

ULTRA PHOSPHOR OSCILLOSCOPES



Intertek



● UPO2104E

- Bandwidth: 70MHz, 100MHz
- 56Mpts (single channel)
- 83,000 wfms/s waveform capture rate
- 256-level intensity grading display
- Adjustable channel time base
- 65,000 frames waveform record
- 8-inch TFT LCD, WVGA (800 x 480)
- Interfaces: USB Host, USB device, LAN, AUX

	UPO2072E	UPO2074E	UPO2102E	UPO2104E
Bandwidth	70MHz		100MHz	
Channels	2	4	2	4
Sampling rate	1GS/s			
Max. memory depth	56Mpts (single channel)			
Waveform capture rate	83,000wfms/s			
Time base scale (s/div)	5ns/div~50s/div			
Input impedance	(1MΩ±2%) (20pF±3pF)			
Vertical scale (V/div)	1mV/div~20V/div (1MΩ)			
DC gain accuracy	±4%			
Waveform record	65,000 Frames			
Trigger types	Edge, pulse width, runt, window, N-edge, delay, timeout, duration, setup/hold, slope, video, code			
Waveform operations	A+B, A-B, A×B, A/B, FFT, logic operation, advanced			
Auto measurements	Peak-Peak, Amplitude, Maximum, Minimum, Top, Bottom, Mean, Middle, Cycle Mean, RMS, Cycle RMS, Area, Cycle Area, Overshoot, Preshoot, Frequency, Cycle, Rise Time, Fall Time, Positive Pulse, Negative Pulse, Positive Duty Ratio, Negative Duty Ratio, Delay A->B $\overline{A}$, Delay A->B $\overline{B}$, Delay B->A $\overline{A}$, Delay B->A $\overline{B}$.			
Number of measurements	Display 5 measurements at the same time			
Measurement statistics	Average, Max, Min, Standard Deviation, Number of Measurements			
Frequency counter	Hardware 6 bits counter (Channels areselectable)			
Standard interfaces	USB-Host, USB-Device, LAN, AUX (Trig Out, Pass/Fail)			
Power	100V~240VAC, 50Hz/60Hz			
Display	8 inches TFT color LCD Display with WVGA (800×480) resolution			
Product color	White and grey			
Product net weight	3.5kg			
Product size	336mm×164mm×108mm			
Standard accessories	Probe×2/4 (1×, 10× switchable), Power cord, USB cable			
Standard individual packing	Carton box			
Standard quantity per carton	2pcs			
Standard carton measurement	450mm×420mm×280mm			
Standard carton gross weight	9.7kg			

UTD2000CEM/CEX-II SERIES

DIGITAL STORAGE OSCILLOSCOPES



● **UTD2102CEX-II**

- 2 channels
- 70MHz/100MHz bandwidth; 1GSa/s real-time sampling rate
- Up to 28Mpts memory depth
- Calibration signal output: 10Hz, 100Hz, 1kHz (by default), 10kHz or 100kHz
- Max 10Mpts waveform record
- 8-inch TFT LCD, WVGA (800×480)

	UTD2072CEM	UTD2102CEM	UPO2072CEX-II	UTD2102CEX-II
Bandwidth	70MHz	100MHz	70MHz	100MHz
Channels	2			
Sampling rate	1GS/s (single channel), 500MS/s (dual channels)			
Rise time	≤5ns	≤3.5ns	≤5ns	≤3.5ns
Memory depth	28Mpts		25kpts	
Waveform capture rate	≥20,000wfms/s			
Vertical scale (V/div)	1mV/div~20V/div (1MΩ)			
Time base scale (s/div)	2ns/div~50s/div			
Input impedance	(1MΩ±2%)/(22pF±3pF)			
Storage methods	Setup, wave, bitmap			
Trigger types	Edge, pulse width, slope, video, runt, window			
Waveform operations	A+B, A-B, A×B, A/B, FFT			
Auto measurements	Max, Min, High, Low, Ampl, Pk-Pk, Middle, Mean, CycMean, RMS, CycRMS, Period, Freq, Rise, Fall, RiseDelay, FallDelay, +Width, -Width, FRR, FRF, FFR, FFF, LRF, LRR, LFR, LFF, +Duty, -Duty, Area, CycArea, OverSht, PreSht, Phase, 34 parameters in total			
Number of measurements	Display 5 measurements at the same time			
Measurement statistics	Average, Max, Min, standard deviation, number of measurements			
Frequency counter	6 bits			
Interfaces	USB-OTG, Pass/Fail			
Power	100~240V ACrms, 50Hz/60Hz			
Display	8-inch TFT LCD, WVGA (800 x 480)			
Product color	White and grey			
Product net weight	3.5kg			
Product size	336mm x 164mm x 108mm			
Standard accessories	Probe x 2 (1x, 10x switchable), power cord, USB interface cable			
Standard individual packing	Carton box			
Standard quantity per carton	2pcs			
Standard carton measurement	450mm x 420mm x 280mm			
Standard carton gross weight	8kg			

UTD2000CEX SERIES

DIGITAL STORAGE OSCILLOSCOPES



● UTD2102CEX

- 50MHz/70MHz/100MHz bandwidth
- 2 channels, low noise floor, wide vertical range:
1mV/div~20V/div
- Memory depth: 25kpts
- Waveform capture rate: ≥ 2000 wfms/s
- System software upgrade via USB drive
- Supports multiple language UI
- 7 inches TFT LCD
- Supports plug-and-play USB storage device;
communication with and remote control of
computer through the USB device

	UTD2052CEX	UTD2072CEX	UTD2102CEX
Bandwidth	50MHz	70MHz	100MHz
Channels	2		
Sampling rate	1GS/s		
Rise time	≤ 7 ns	≤ 5 ns	≤ 3.5 ns
Memory depth	25kpts		
Waveform capture rate	≥ 2000 wfms/s		
Vertical scale (V/div)	1mV/div~20V/div		
Time base scale (s/div)	2ns/div~50s/div		
Storage methods	Setup, wave, bitmap		
Trigger types	Edge, pulse width, alternate		
Waveform operations	A+B, A-B, A×B, A/B, inversion		
Auto measurements	Pk-Pk, Ampl, Max, Min, High, Low, Middle, Mean, RMS, CycMean, CycRMS, OverSht, PreSht, Freq, Period, Rise, Fall, +Width, -Width, +Duty, -Duty, RiseDelay, FallDelay		
Displayed measurements	Display 5 measurements at the same time		
Supported languages	English, Dutch, Spanish, Korean, French, German, Portuguese, Russian		
Frequency counter	6 bits		
Interface	USB OTG		
Power	100~240V ACrms, 45~440Hz		
Display	7-inch 64k color TFT LCD, 800 x 480		
Product color	White and grey		
Product net weight	2.2kg		
Product size	306mm x 147mm x 122mm		
Standard accessories	Probe x 2 (1x, 10x switchable), power cord, USB interface cable		
Standard individual packing	Carton box, English manual		
Standard quantity per carton	2pcs		
Standard carton measurement	450mm x 420mm x 280mm		
Standard carton gross weight	7.1kg		

UTD2000CL SERIES

DIGITAL STORAGE OSCILLOSCOPES



● UTD2052CL

- 25MHz/50MHz bandwidth
- 250MS/s or 500MS/s real-time sampling rate
- Low noise, wide vertical range: 1mV/div~20V/div
- System software upgradable with USB drive
- Auto measurements of 28 waveform parameters
- More than 2,000wfms/s waveform capture rate
- Supports multiple language UI
- 7-inch TFT LCD, WVGA (400×240)

	UTD2025CL	UTD2052CL
Bandwidth	25MHz	50MHz
Channels	2	
Sampling rate	250MS/s	500MS/s
Rise time	≤14ns	≤7ns
Memory depth	25kpts	
Waveform capture rate	≥2,000wfms/s	
Vertical scale (V/div)	1mV/div~20V/div	
Time base scale (s/div)	10ns/div~50s/div	5ns/div~50s/div
Storage methods	Setup, waveform, bitmap	
Trigger specifications		
Frequency counter	6 bits	
Trigger types	Edge, pulse width, video (UTD2025CL), alternate	
Level range (Internal)	±8div from screen center	
Level range (EXT)	±3V	
Holdoff range	80ns~1.5s	
Edge trigger types	Rise, fall, rise & fall	
Supported languages	English, Dutch, Spanish, Korean, French, German, Portuguese, Russian	
Interfaces	Pass/Fail (UTD2025CL), USB-OTG	
Power	100V~240V ACrms, 50Hz/60Hz	
Display	7-inch TFT LCD, WVGA (400 x 240)	
Product color	White and grey	
Product net weight	2.2kg	
Product size	306mm x 147mm x 122mm	
Standard accessories	Probe x 2 (1x, 10x switchable), power cord, USB interface cable, PC software CD	
Standard individual packing	Carton box	
Standard quantity per carton	2pcs	
Standard carton measurement	450mm x 420mm x 280mm	
Standard carton gross weight	7.1kg	

WAVEFORM GENERATORS

UNI-T's waveform generators adopt Direct Digital Synthesizer (DDS) technology to generate high frequency signals such as sine waves, square waves, harmonic waves, arbitrary waves, noise etc. Our signal generators also provide analog and digital modulation functions. All models have arbitrary waveform generator with editable software to generate complex waveforms. These tools are suitable for education, communication, and electrical signal generation.

APPLICATIONS

Designing, testing, troubleshooting, and repairing of electronic and electroacoustic devices, such as circuit and equipment testing in cellular and wireless systems, broadcasting, television and radio systems; semiconductor component testing etc.



UTG4000A SERIES FUNCTION/ARBITRARY WAVEFORM GENERATORS



● UTG4162A

- 500MSa/s sampling rate and 16-bit vertical resolution
- 32Mpts arbitrary/7GB nonvolatile waveform storage
- Modulations available: AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM
- 80MHz/120MHz/160MHz sine wave output
- 30MHz/40MHz/50MHz pulse waveform
- Adjustable rise/fall time
- Two equivalent-performance channels

	UTG4082A	UTG4122A	UTG4162A
Max frequency	80MHz	120MHz	160MHz
Channels	2		
Sampling rate	500MS/s		
Waveforms	Sine, square, ramp, harmonic, pulse, noise, DC voltage, arbitrary		
Working modes	Output on/off, continuous, modulation, sweep, burst		
Modulations	AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM		
Frequency Characteristics			
Sine	1μHz~80MHz	1μHz~120MHz	1μHz~160MHz
Square/Pulse	1μHz~30MHz	1μHz~40MHz	1μHz~50MHz
Slope	1μHz~2MHz	1μHz~3MHz	1μHz~4MHz
Harmonic	1μHz~40MHz	1μHz~60MHz	1μHz~80MHz
Noise (-3dB)	80MHz bandwidth	120MHz bandwidth	160MHz bandwidth
Resolution	1μHz		
Arbitrary Waveform			
Frequency range	1μHz~20MHz	1μHz~30MHz	1μHz~40MHz
Length	8~32Mpts		
Vertical resolution	16 bits		
Min rise/fall time (typical: 1Vpp)	<7ns	<6ns	<5ns
Power	100V~240V ACrms, 50Hz/60Hz		
Display	8-inch TFT LCD, WVGA (800 x 480)		
Product color	White and grey		
Product net weight	3.5kg		
Product size	336mm x 164mm x 108mm		
Standard accessories	BNC-BNC cable x 2, USB interface cable, PC software CD, power cord		
Standard individual packing	Carton box		
Standard quantity per carton	1pcs		
Standard carton measurement	405mm x 225mm x 265mm		
Standard carton gross weight	5.4kg		

UTG2000 SERIES

FUNCTION/ARBITRARY WAVEFORM GENERATORS



Intertek



● UTG2122B

- 1μHz full-band resolution
- 5MHz~30MHz pulse waveform, adjustable rise/fall time
- 14-bit/16-bit vertical resolution
- Two equivalent-performance channels
- Max arbitrary waveform length of 8k/16M points; 48/161 non-volatile waveforms storage

	UTG2025A	UTG2062B	UTG2082B	UTG2122B
Max frequency	25MHz	60MHz	80MHz	120MHz
Channels	2			
Sampling rate	125MS/s	320MS/s		
Waveforms	Sine, square, ramp, pulse, noise, DC, arbitrary; UTG2000B only: harmonic			
Working modes	Output on/off, continuous, modulation, sweep, burst			
Modulations	AM, FM, PM, ASK, FSK, PSK, PWM; UTG2000B only: BPSK, QPSK, OSK, DSB-AM, SUM, QAM			
Arbitrary Waveform				
Length	8pts~8kpts	8pts~16Mpts		
Vertical resolution	14 bits	16 bits (symbol included)		
Frequency Characteristics				
Sine	1μHz~25MHz	1μHz~60MHz	1μHz~80MHz	1μHz~120MHz
Square	1μHz~5MHz	1μHz~20MHz	1μHz~25MHz	1μHz~30MHz
Pulse	1μHz~5MHz	1μHz~20MHz	1μHz~25MHz	1μHz~30MHz
Ramp	1μHz~400kHz	1μHz~3MHz	1μHz~4MHz	1μHz~5MHz
Harmonic	—	1μHz~30MHz	1μHz~40MHz	1μHz~60MHz
Arbitrary	1μHz~5MHz	1μHz~15MHz	1μHz~20MHz	1μHz~25MHz
Noise	25MHz (-3dB)	60MHz (-3dB)	80MHz (-3dB)	120MHz (-3dB)
Resolution	1μHz			
Accuracy	±0.5ppm 25°C; first year aging rate: 1ppm; temperature coefficient: ±0.5ppm/°C			
Temperature coefficient	<2ppm/°C			
Interfaces	USB Host, USB Device, frequency counter (UTG2025A), 10MHz clock source input/output			
Power	100V~240V ACrms, 50Hz/60Hz			
Display	4.3-inch TFT LCD, WVGA (480 x 272)			
Product color	White and grey			
Product net weight	3.2kg			
Product size	265mm x 110mm x 320mm			
Standard accessories	BNC-BNC cable, BNC cable with alligator clips, power cord, USB interface cable, PC software CD			
Standard individual packing	Carton box			
Standard quantity per carton	2pcs			
Standard carton measurement	380mm x 330mm x 320mm			
Standard carton gross weight	8.5kg			

UTG1000A SERIES

FUNCTION/ARBITRARY WAVEFORM GENERATORS



● UTG1005A

- Intuitive interface design
- Single channel
- 125MS/s sampling rate, 14-bit vertical resolution
- Integrated analog and digital design
- 4.3 inches TFT LCD

	UTG1005A	UTG1010A
Channel	1	
Sample rate	125MS/s	
Max frequency	5MHz	10MHz
Frequency Characteristics		
Sine	1μHz~5MHz	1μHz~10MHz
Square	1μHz~5MHz	1μHz~5MHz
Ramp	1μHz~400kHz	1μHz~400kHz
Pulse	1μHz~5MHz	1μHz~5MHz
Arbitrary	1μHz~1MHz	1μHz~2MHz
Resolution	1μHz	
Accuracy	Within 90 days ± 50ppm; within 1 year ± 100ppm; 18°C~28°C	
Arbitrary Waveform		
Vertical resolution	14 bits	
Max. memory depth	16 sets of arbitrary waveforms	
Others		
Output standard waveform	Sine, square, ramp, triangle, pulse, noise, DC, arbitrary	
Output amplitude range	1mVpp~10Vpp (50Ω); 2mVpp~20Vpp (High Z)	
Modulation types	AM, FM, PM, PWM, ASK, FSK, PSK	
Interface	USB Device	
Power	100~240V AC, 50Hz/60Hz	
Display	4.3 inches TFT LCD, WVGA (480 x 272)	
Product color	White and grey	
Product net weight	3.2kg	
Product size	165mm x 110mm x 320mm	
Standard accessories	USB interface cable, power cord, BNC-BNC cable, PC software CD	
Standard individual packing	Carton box	
Standard quantity per carton	2pcs	
Standard carton measurement	380mm x 330mm x 320mm	
Standard carton gross weight	8.6kg	

UTG9000C-II SERIES

FUNCTION/ARBITRARY WAVEFORM GENERATORS



● UTG9005C-II

- Output waveforms: Sine, square, ramp, pulse, noise, DC, arbitrary
- Output frequency range: Sine/square, 2MHz (UTG9002C-II); 5MHz (UTG9005C-II)
- High-accuracy, broad-band 6 bit frequency counter, range: 100mHz~100MHz
- 4W power output (UTG9005C-II)
- EBTN LCD screen

	UTG9002C-II	UTG9005C-II
Channel	1	
Max frequency	2MHz	5MHz
Sampling rate	125MS/s	
Vertical resolution	14 bits	
Waveforms	Sine, square, pulse, ramp, noise, DC, arbitrary (20 sets inside)	
Sweep modes	Logarithmic, linear	
Frequency Characteristics		
Sine	1μHz~2MHz	1μHz~5MHz
Square	1μHz~2MHz	1μHz~5MHz
Ramp	1μHz~200kHz	1μHz~200kHz
Pulse	1μHz~2MHz	1μHz~5MHz
Arbitrary	1μHz~1MHz	1μHz~1MHz
Resolution	1μHz	
Accuracy	Within 90 days ± 50ppm	
	Within 1 year ± 100ppm	
	18°C~28°C	
Output Characteristics		
Impedance	50Ω/High Z	
Amplitude range	1mVpp~10Vpp (50Ω); 2mVpp~20Vpp (high Z)	
DC offset range	-5Vpp~5Vpp (50Ω) (AC+DC); -10Vpp~10Vpp (high Z) (AC+DC)	
Amplitude resolution	1mV	
Power	100~240VAC, 50Hz/60Hz	
Display	EBTN LCD	
Product color	White and grey	
Product net weight	2.8kg	
Product size	265mm x 110mm x 320mm	
Standard accessories	USB interface cable, power cord, BNC cable with alligator clips, PC software CD	
Standard individual packing	Carton box	
Standard quantity per carton	2pcs	
Standard carton measurement	380mm x 330mm x 320mm	
Standard carton gross weight	UTG9002C-II: 6.3kg; UTG9005C-II: 7.7kg	

UTG900E SERIES

FUNCTION/ARBITRARY WAVEFORM GENERATORS



● UTG962E

- Output waveforms: Sine, square, pulse, ramp, noise, DC, arbitrary
- Output frequency range: 1μHz-30MHz/60MHz
- High-accuracy, broad-band 6 bit frequency counter, range: 100mHz~100MHz
- Two equivalent-performance channels
- 4.3 inches TFT LCD

	UTG932E	UTG962E
Channel	2	
Max frequency	30MHz	60MHz
Sampling rate	200MS/s	
Vertical resolution	14 bits	
Waveforms	Sine, square, pulse, ramp, noise, DC, arbitrary	
Sweep modes	Logarithmic, linear	
Frequency Characteristics		
Sine	1μHz~30MHz	1μHz~60MHz
Square	1μHz~15MHz	1μHz~20MHz
Ramp	1μHz~400kHz	1μHz~400kHz
Pulse	1μHz~15MHz	1μHz~20MHz
Arbitrary	1μHz~10MHz	1μHz~10MHz
Resolution	1μHz	
Accuracy	Within 90 days ± 50ppm	
	Within 1 year ± 100ppm	
	18°C~28°C	
Output Characteristics		
Impedance	50Ω/High Z	
Amplitude range	1mVpp~10Vpp (50Ω); 2mVpp~20Vpp (high Z)	
DC offset range (AC+DC)	±5V (50Ω); ±10V (high Z)	
Amplitude resolution	1mV	
Power	100~240VAC, 50Hz/60Hz	
Display	4.3" TFT LCD (480×272)	
Product color	White and grey	
Product net weight	0.33kg	
Product size	172mm x 90mm x 68mm	
Standard accessories	USB interface cable, power cord, BNC cable with alligator clips	
Standard individual packing	Carton box	
Standard quantity per carton	4pcs	
Standard carton measurement	435mm x 360mm x 125mm	
Standard carton gross weight	3.8kg	

DC POWER SUPPLIES

DC power supplies are commonly used in electronics design, battery charging, electrical vehicle, research labs and education sectors. UNI-T offers both programmable and non-programmable power supplies with features such as low ripple and noise, constant voltage/current, overload protection, and more.



UDP3300 SERIES

INDUSTRIAL LINEAR DC POWER SUPPLIES



- Three-channel output
- Over voltage/current/temperature protection
- One click data recall (up to 5 groups) for UDP3303C
- cTUVus certification
- USB communication interface (UDP3303C)

Applications

- Product development and debugging
- Quality control and inspection
- Production automation test
- Teaching experiment



● UDP3303A

		UDP3303A	UDP3303C
Output voltage (CH1/CH2)		0~30V	
Output current (CH1/CH2)		0~3A	
Output power		195W	
Load regulation		Voltage: <0.01%+3mV; Current: <0.1%+5mA	
Line regulation		Voltage: <0.01%+3mV; Current: <0.1%+3mA	
Programming resolution		Voltage: 10mV; Current: 1mA	
Recall resolution		Voltage: 10mV; Current: 1mA	
Accuracy (25°C±5°C)	Voltage	±(0.1% of reading+30mV)	<0.5%+20mV
	Current	±(0.3% of reading+5mA)	<0.5%+5mA
Ripple and noise (20Hz~20MHz)		Voltage: ≤1mVrms; Current: ≤3mA _{rms}	
Temperature coefficient		Voltage: ≤150ppm/°C; Current: ≤150ppm/°C	
Voltage rise/fall delay		≤100ms (10% rated load)	
Parallel load regulation	Voltage	≤0.01%+3mV	≤0.1%+0.1V
Series load regulation	Voltage	<100mV	≤0.1%+0.1V
CH3 Output Features	Voltage	1.8V/2.5V/3.3V/5V	1.8V/2.5V/3.3V/5V/ 0~6VContinuously adjustable
	Current	3A	3A
	Voltage accuracy	±50mV	±50mV
	Load regulation	±50mV	±50mV
Interfaces		USB Host (5V/2A, charging port only), digital interface; UDP3303C only: USB Device, RS-232	
Power		AC 100V/120V/220V/230V±10%, 50Hz/60Hz	
Display		EBTN LCD	
Product net weight		8.5kg	10kg
Product size		143mm x 190mm x 327mm	
Standard accessories		Power cord, output cables, USB cable (UDP3303C), PC software CD	
Standard individual packing		Carton box	
Standard quantity per carton		1pcs	
Standard carton measurement		455mm x 365mm x 300mm	
Standard carton gross weight		10.5kg	12kg

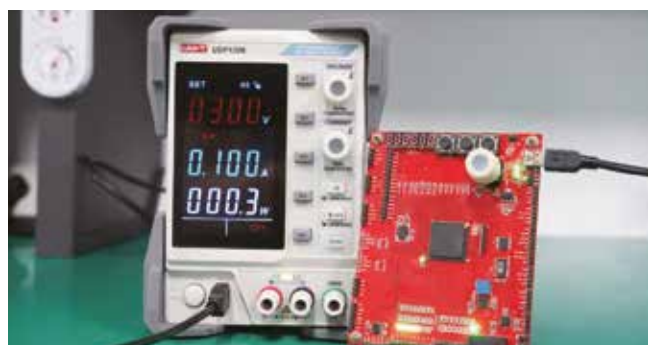
UDP1306C

INDUSTRIAL LINEAR DC POWER SUPPLY



The UDP1306C DC power supply has two groups of independent outputs: the adjustable output of 32V/6A, which has the constant voltage (CV) and constant current (CC) modes, and the fixed output of 5V/2A with protection features of short circuit and overvoltage.

- 4-digit high precision display
- OVP OCP OTP protection
- Output setting viewable
- Remote control (output ON/OFF)
- Shutdown memory/keypad lock
- Intelligent cooling fan
- USB charging interface
- RS232 program-controlled communication
- USB device communication
- 5 sets of data storage



● UDP1306C

UDP1306C		
Output voltage (CH1/CH2)		0~32V
Output current (CH1/CH2)		0~6A
Output power		192W
Display mode		3-window, 4-digit voltage and current high precision display
Resolution	Voltage	10mV
	Current	1mA
Load regulation	Voltage	<0.01%+5mV
	Current	<0.1%+10mA
Power regulation	Voltage	<0.01%+3mV
	Current	<0.1%+3mA
Setting accuracy (25°C±5°C)	Voltage	<0.5%+20mV
	Current	<0.5%+10mA
Ripple and noise (20Hz~20MHz)	Voltage	≤2mVrms
	Current	≤3mA _{rms}
Temperature coefficient		Current/Voltage: ≤300ppm/°C
Voltage rising/falling time delay		≤100ms (10% rated load)
Interfaces		USB Host (5V/2A), USB Device, RS-232
Power		AC 100V/120V/220V/230V±10%, 50Hz/60Hz
Product net weight		7.5kg
Product size		136mm x 194mm x 327mm
Standard accessories		USB communication cable, output cables, Power cord
Standard individual packing		Carton box
Standard quantity per carton		1pcs
Standard carton measurement		505mm x 270mm x 335mm
Standard carton gross weight		9.6kg

UTP3300C SERIES

DC POWER SUPPLIES



● UTP3305C

UTP3300C series are high performance programmable linear DC power supplies with single channel output and process control. They can meet diversified measurement needs with pure signal output, competitive specifications and a variety of interfaces.

- High precision 4-bit voltage and current display
- Over voltage and current protection
- Over temperature protection
- One click data recall (up to 5 groups); Optional LAN interface
- Power-off memory; Software calibration; Keyboard lock

		UTP3303C	UTP3305C
Output voltage		0~30V (CH1/CH2)	0~30V (CH1/CH2)
Output current		0~3A (CH1/CH2)	0~5A (CH1/CH2)
Output power		195W	315W
Load regulation	Voltage	<0.01%+3mV	<0.01%+5mV
	Current	<0.1%+5mA	<0.1%+10mA
Line regulation	Voltage	<0.01%+3mV	<0.01%+3mV
	Current	<0.1%+3mA	<0.1%+3mA
Resolution	Voltage	10mV	10mV
	Current	1mA	1mA
Accuracy (25°C±5°C)	Voltage	<0.5%+20mV	<0.5%+20mV
	Current	<0.5%+5mA	<0.5%+10mA
Ripple (20Hz~20MHz)	Voltage	≤1mVrms	≤2mVrms
	Current	≤3mA _{rms}	≤3mA _{rms}
Output temperature coefficient	Voltage	≤150ppm	≤150ppm
	Current	≤150ppm	≤150ppm
Voltage rise delay		≤100ms (10% rated load)	≤100ms (10% rated load)
Parallel/Series load regulation		≤0.1%+0.1V	≤0.1%+0.1V
CH3 output features	Voltage	5V	5V
	Current	3A	3A
	Voltage accuracy	±50mV	±50mV
	Load regulation	±50mV	±50mV
Interfaces		USB Device, RS-232	
Power		AC 100V/120V/220V/230V±10%, 50Hz/60Hz	
Display		4 windows, LED	
Product net weight		6.5kg	9.1kg
Product size		260mm x 176mm x 317mm	
Standard accessories		USB and RS-232 interface cables, output cables, PC software CD	
Standard individual packing		Carton box	
Standard quantity per carton		2pcs	
Standard carton measurement		440mm x 388mm x 295mm	450mm x 400mm x 630mm
Standard carton gross weight		About 15kg	About 20kg

UTP3300 SERIES

DC POWER SUPPLIES



● UTP3305

- 3-channel linear DC power supplies feature
- Low ripple/noise
- Constant voltage/current
- Over load protection
- Parallel/series
- Output on/off control

		UTP3303	UTP3305
Output voltage	CH1, CH2	0~32V	0~32V
	CH3	5V	5V
Output current	CH1, CH2	0~3A	0~5A
	CH3	3A	3A
Output power		207W	335W
Load regulation		$CV \leq 1 \times 10^{-4} + 3mV$, $CC \leq 2 \times 10^{-4} + 3mA$	
Ripple and noise		$CV \leq 1mV_{rms}$; $CC \leq 3mA_{rms}$	
Output regulation resolution		CV: 100mV (typical), CC: 10mA (typical)	
Tracking bias		$5 \times 10^{-3} + 10mV$	
Reliability		MTBF(e): $\geq 2000hrs$	
Display mode		3-bit voltage and current dual display	
Features		Auto conversion of constant voltage and current with current limit protection; CH1 and CH2 master-slave tracking in series	
Power		Input voltage: 115V AC/230V AC; Frequency: 47Hz~63Hz	
Product color		White and grey	
Product net weight		8.7kg	10kg
Product size		260mm x 170mm x 315mm	
Standard accessories		Power cord, output cables	
Standard individual packing		Carton box, English manual	
Standard quantity per carton		1pcs	
Standard carton measurement		435mm x 340mm x 255mm	
Standard carton gross weight		10.5kg	12kg

UTP1306/UTP3000TFL-II SERIES DC POWER SUPPLIES



● **UTP3315TFL-II**

UTP3300TFL-II series are economical single-channel linear DC power supplies with constant voltage/current feature.



● **UTP1306**

UTP1306 is a switch-type DC regulated power supply with single channel, which has OCP/OVP protection function, 3 groups of storage/recall preset values and output switch.

		UTP3313TFL-II	UTP3315TFL-II	UTP1306
Output voltage		0~30V	0~30V	0~32V
Output current		0~3A	0~5A	0~6A
Output power		90W	150W	192W
Load regulation		CV≤0.01%+3mV, CC≤0.1%+5mA	CV≤0.01%+5mV, CC≤0.1%+10mA	CV<0.1%+5mV CC<0.2%+3mA
Accuracy (25°C±5°C)	Voltage	<0.5%+20mV	<0.5%+20mV	<0.1%+5mV
	Current	<0.5%+5mA	<0.5%+10mA	<0.2%+3mA
Ripple and noise		≤1mVrms		≤10mVrms
Output regulation resolution		CV: 10mV (typical), CC: 1mA (typical)		
Reliability		MTBF(e): ≥2000hrs		
Display mode		LED voltage and current dual display		
Feature		Auto conversion of constant voltage and current with current limit protection		
Power		Input voltage: 110V AC/220V AC; 50Hz~60Hz		
Product color		White and grey		
Product net weight		3kg	4kg	1.9kg
Product size		105mm x 165mm x 249mm	105mm x 165mm x 249mm	80mm x 150mm x 230mm
Standard accessories		Power cord, output cables		
Standard individual packing		Carton box, English manual		
Standard quantity per carton		4pcs	4pcs	6pcs
Standard carton measurement		330mm x 285mm x 460mm	330mm x 285mm x 460mm	625mm x 435mm x 300mm
Standard carton gross weight		14kg	16kg	12.3kg

BENCHTOP DIGITAL MULTIMETERS

Benchtop digital multimeters are great instruments for production QA, maintenance, research, and education. UNI-T's reliable, safe, wide-range, and accurate benchtop multimeters are able to meet all end users' needs.



UT8802E/8803E SERIES

Benchtop Digital Multimeters



● UT8802E



● UT8803E

	UT8802E	UT8803E
DC voltage (V)	200mV/2V/20V/200V/1000V	1000V
AC voltage (V)	2V/20V/200V/750V	750V
DC current (A)	200μA/2mA/20mA/200mA/20A	20A
AC current (A)	2mA/20mA/200mA/20A	20A
Resistance (Ω)	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/200MΩ	60MΩ
Capacitance (F)	20nF/200nF/2μF/20μF/200μF/2mF/20mF/100mF	6mF
Frequency (Hz)	200Hz~10MHz	600Hz~20MHz
Duty cycle (%)	5%~99%	5%~95%
Inductance (H)	—	100H
Temperature (°C/°F)	—	-40°C~1000°C -40°F~1832°F
Display count	20000	6000
Interface	USB Device	
Range	Manual	Auto
True RMS/diode	√	
Frequency response (Hz)	1kHz	Up to 100kHz
SCR test	9V, can measure unidirectional and bidirectional SCR	
Continuity buzzer/data hold	√	
MAX/MIN	√	
USB interface/LCD backlight	√	
Input impedance for DCV	UT8802E: Around 10MΩ UT8803E: 600mV range: around 3GΩ; all other ranges: around 10MΩ	
AC+DC measurement	√	
Power	100V/120V/220V/240V ±10%, 47Hz~63Hz	
Display	EBTN LCD	
Product net weight	3.07kg	3.09kg
Product size	265mm x 110mm x 320mm	
Standard accessories	USB interface cable, power cord, simple test lead with alligator clips, standard test leads, PC software CD, point contact temperature probe (UT8803E)	
Standard individual packing	Carton box	
Standard quantity per carton	2pcs	
Standard carton measurement	380mm x 330mm x 320mm	
Standard carton gross weight	9.7kg	

- True RMS (UT8803E)
- Diode/transistor
- SCR thyristor test
- Inductance measurement (UT8803E)
- USB interface
- EBTN LCD screen
- Data hold
- MAX/MIN
- Continuity buzzer

UT8804E

Benchtop Digital Multimeter



- True RMS
- 60000 display count
- Auto range, 100kHz frequency response
- Low pass filter
- dBV/dBm measurement
- AC+DC measurement
- Dual-channel temperature measurement
- Trend capture with visual display
- Recording period up to 100 days

	Range	Accuracy
DC voltage (V)	1000V	$\pm (0.025\%+5)$
AC voltage (V)	1000V (45Hz~100kHz)	$\pm (0.3\%+30)$
DC current (A)	10A	$\pm (0.08\%+10)$
AC current (A)	10A (45Hz~10kHz)	$\pm (0.6\%+20)$
Resistance (Ω)	60M Ω	$\pm (0.05\%+2)$
Conductance (nS)	60nS	$\pm (2\%+10)$
Capacitance (F)	60mF	$\pm (2\%+5)$
Frequency (Hz)	60MHz	$\pm (0.01\%+5)$
Duty cycle (%)	10%-90% (10Hz~2kHz)	$\pm (1.2\%+30)$
Temperature ($^{\circ}\text{C}$)	-40 $^{\circ}\text{C}$ ~1000 $^{\circ}\text{C}$	$\pm (1\%+30)$
Temperature ($^{\circ}\text{F}$)	-40 $^{\circ}\text{F}$ ~1832 $^{\circ}\text{F}$	$\pm (1.5\%+50)$
Features		
Display count		60000
Range		Auto, manual
Date display		√
Data storage		20000
Data hold		√
Interface		USB Device
Power	100V/120V/220V/240V $\pm 10\%$, 47Hz~63Hz	
Product color	White and grey	
Product net weight	2.7kg	
Product size	239mm x 109mm x 344mm	
Standard accessories	Power cord, USB interface cable, simple test leads with alligator clips, temperature probe, PC software CD	
Standard individual packing	Carton box	
Standard quantity per carton	2pcs	
Standard carton measurement	380mm x 330mm x 320mm	
Standard carton gross weight	9.2kg	

UT8805E

Benchtop Digital Multimeter



- 200000 display count
- Auto range, TRMS
- Up to 5k rdgs/s sampling rate
- Multiple mathematical operations
- Arbitrary sensor measurement
- Built-in thermocouple cold junction compensation
- 1Gb flash memory storage which can support up to 10k data recall

	Range	Accuracy/Year
DC voltage (V)	200mV/2V/20V/200V/1000V	$\pm(0.010\%+0.003)$
AC voltage (V)	200mV/2V/20V/200V/1000V	$\pm(0.2\%+0.05)$
DC current (A)	200μA/2mA/20mA/200mA/2A/10A	$\pm(0.055\%+0.005)$
AC current (A)	2mA/20mA/200mA/2A/10A	$\pm(0.5\%+0.1)$
Resistance (Ω)	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/10MΩ/100MΩ	$\pm(0.020\%+0.003)$
Capacitance (F)	2nF/20nF/200nF/2μF/20μF/200μF/2mF	$\pm(1\%+0.5)$
Frequency (Hz)	20Hz~1MHz	$\pm(0.010\%+0.003)$
Temperature	-270°C~1760°C	Basic error $\pm 0.5^{\circ}\text{C}$

Features

Display count	200000
Max reading rate	5,000 rdgs/s
Auto range/True RMS	√
AC frequency response (Hz)	100kHz
Diode	√
Continuity buzzer/Data hold	√
Relative mode	Pass/Fail, relative value, maximum/minimum/average, standard deviation, dBm, dB, Hold, histogram, trend, bar chart
MAX/MIN	√
Input protection	√
Data storage	RAM: 10k; ROM: 1GB
Interface	USB Host/Device, LAN, RS-232C, GPIB (optional)
Input resistance	>10GΩ and 10MΩ

Power	AC 100V~120V: 45Hz/440Hz; AC 200V~240V: 45Hz~66Hz
Display	4.3 inches TFT LCD
Product color	White and grey
Product net weight	4.4kg
Product size	239mm×109mm×344mm
Standard accessories	Power cord, USB interface cable, simple test leads with alligator clips, temperature probe, PC software CD
Std. individual packing	Carton box
Std. quantity per carton	2pcs
Std. carton measurement	380mm x 330mm x 320mm
Std. carton gross weight	10.5kg



Histogram



Trend



Bar chart



Mathematics



Dual display



Data hold

HANDHELD DIGITAL STORAGE OSCILLOSCOPES

Handheld oscilloscopes are portable instruments suitable for field testing and analyzing time based voltage signals in mobile environments. These instruments can be powered through power cord or battery. UNI-T's handheld digital storage oscilloscopes are great for field technicians.



UTD1000L SERIES HANDHELD DIGITAL STORAGE OSCILLOSCOPES



● UTD1050CL



● UTD1050DL

	UTD1025CL	UTD1050CL	UTD1025DL	UTD1050DL
Bandwidth	25MHz	50MHz	25MHz	50MHz
Channels	1		2	
Sampling rate	250MS/s			
Rise time	≤14ns	≤7ns	≤14ns	≤7ns
Memory depth	12kpts			
Vertical scale (V/div)	5mV/div~20V/div			
Time base scale (s/div)	10ns/div~50s/div	5ns/div~50s/div	10ns/div~50s/div	5ns/div~50s/div
Storage methods	Setup, waveform, bitmap			
Trigger types	Edge, pulse width, video, slope			
Interface	Mini USB			
Multimeter Specifications	Range			Accuracy
DC voltage (V)	400V			±(1%+5)
AC voltage (V)	400V			±(1.2%+5)
DC current (A)	400μA/ 4000μA			±(1.2%+5)
	40mA/ 4000mA			±(1%+5)
	4A			±(1.5%+5)
AC current (A)	400μA/ 4000μA			±(2%+5)
	40mA/ 4000mA			±(1.5%+5)
	4A			±(2.5%+5)
Resistance (Ω)	400Ω/4kΩ/40kΩ/400kΩ/4MΩ			±(1.2%+5)
	40MΩ			±(1.5%+5)
Capacitance (F)	100μF			±(3%+5)
Display count	4000			
Power	Li-ion battery: 7.4V 3600mAh; DC adapter: 100V~240V, 50/60Hz input, 9V/4A output			
Display	3.5 inches 64k TFT LCD, 320 x 240			
Product color	Red and grey			
Product net weight	0.9kg			
Product size	199mm x 118 mm x 49mm			
Standard accessories	Probe x 1 (1x, 10x switchable) (UTD1000CL), power cord, adaptor, Probe x 2 (1x, 10x switchable) (UTD1000DL), USB interface cable, current-to-voltage convertor, PC software CD, test leads			
Standard individual packing	Carton box, carrying bag			
Standard quantity per carton	UTD1000CL: 6pcs; UTD1000DL: 2pcs			
Standard carton measurement	UTD1000CL: 515mm x 295mm x 315mm UTD1000DL: 305mm x 190mm x 330mm			
Standard carton gross weight	UTD1000CL: 9.2kg; UTD1000DL: 5.5kg			

UTD1000C SERIES

HANDHELD DIGITAL STORAGE OSCILLOSCOPES



● UTD1062C

	UTD1062C	UTD1102C
Bandwidth	60MHz	100MHz
Channels	2	
Sampling rate	250MS/s	500MS/s
Rise time	≤5.8ns	≤3.5ns
Memory depth	7.5kpts	
Vertical sensitivity	5mV/div~50V/div	
Time base scale	5ns/div-50s/div	
Storage modes	Setup, waveform, bitmap	
Trigger modes	Edge, pulse width, video and alternative	
Interface	USB host	
Multimeter Specifications	Range	Accuracy
DC voltage (V)	1000V	±(1%+5)
AC voltage (V)(45Hz~400Hz)	700V	±(1.2%+5), Frequency: <200Hz ±(1.5%+5), Frequency: ≥200Hz
DC current (A)	6mA/60mA/600mA 6A	±(1.2%+5) ±(1.5%+5)
AC current (A)(45Hz~400Hz)	6mA/60mA/600mA 6A	±(2%+5) ±(2.5%+5)
Resistance (Ω)	6kΩ/60kΩ/600kΩ 600Ω/6MΩ/60MΩ	±(1.2%+5) ±(1.5%+5)
Capacitance (F)	6nF/6mF 60nF/600nF/6μF/60μF/600μF	±(5%+10) ±(4%+5)
Display count	6000	
Auto range	√	
Power	Li-ion battery: 7.4V 4400mAh; DC adapter: 100~240V 50/60Hz input, 9V/4A output	
Display	5.7 inches TFT LCD, QVGA (320x240)	
Product color	Red and grey	
Product net weight	1.8kg	
Product size	268mm x 168 mm x 60mm	
Standard accessories	Probe x2 (1x, 10x switchable), current voltage converter, power cord, adapter, test leads, PC software CD	
Standard individual packing	Carton box, carrying bag	
Standard quantity per carton	4pcs	
Standard carton measurement	500mm x 400mm x 320mm	
Standard carton gross weight	16.7 kg	

THERMAL IMAGERS

Thermal imagers transform the invisible infrared rays into visible thermal image. Thermal imagers are useful for observing object in the dark, through detecting object's infrared radiation. UNI-T's thermal imagers are great performance, user friendly, and affordable tools, suitable for firefighters, law enforcement, power line maintenance, physiology and a wide range of applications.



UTi SERIES THERMAL IMAGERS

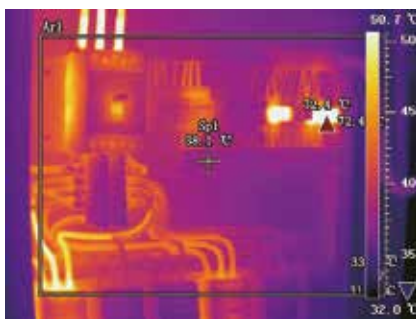
Advantages of thermal imager detection:

1. Intuitive, efficient and convenient, making users directly "see" the temperature variation.
2. Thermal condition of different locations for comprehensive analysis, providing more information for judgment
3. Avoiding judgment errors, reducing labor costs, and discovering poor heat dissipation and hidden trouble points
4. PC software for data analysis and report output

Application Fields:



Power line inspection



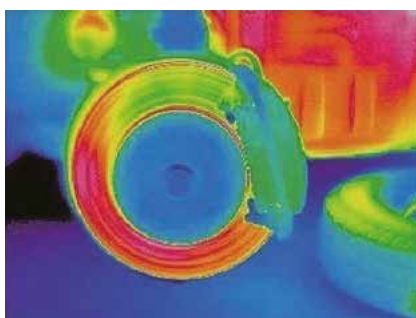
Power distribution cabinet inspection



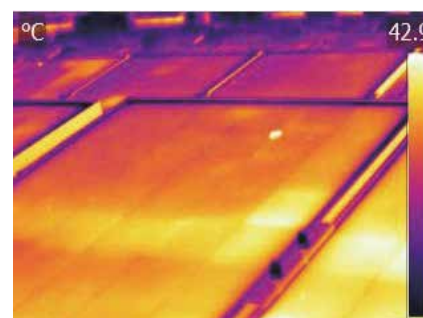
Capacitor detection



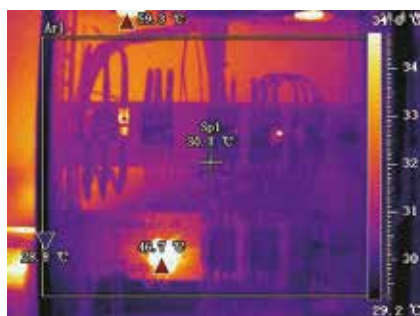
Motor inspection



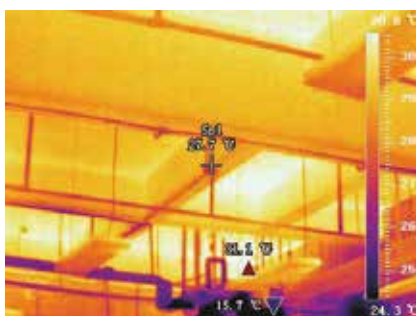
Inspection of bearings, brake pads, and other operational and structural devices



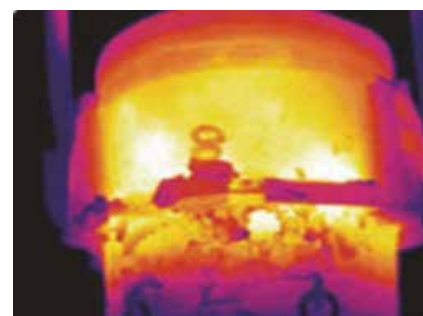
Solar panel inspection



Maintenance of base station and other equipment



HVAC detection



Metal die casting

Typical Applications:



Metallurgy



Firefighting



Law enforcement/search and rescue



Vehicle night vision



Electrical testing



Substation equipment



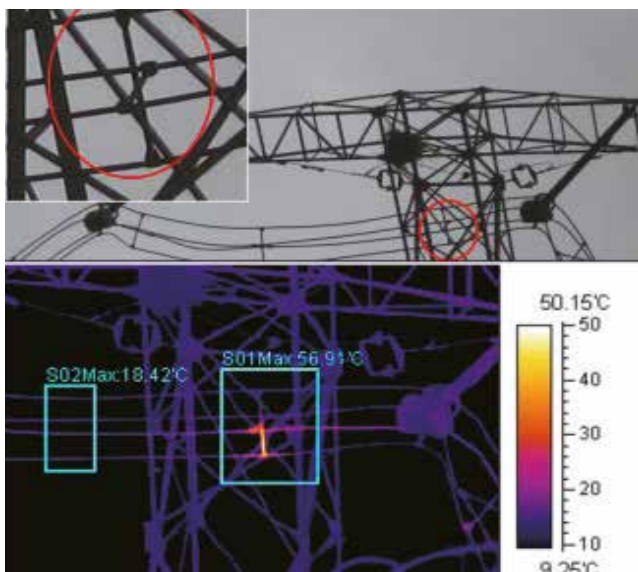
Construction



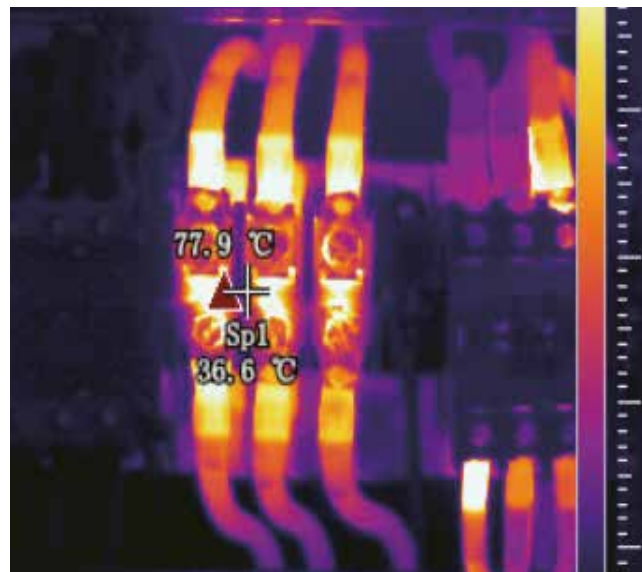
Environmental monitoring



Petrochemical engineering



Power monitor system: a non-contact power system monitor, to detect the fault of device or wire in time.



Electrical system: with non-contact high-accuracy overheated spots detection, the system can eliminate hidden dangers and ensures the safety of power supply.

UTi80/120/165 SERIES

THERMAL IMAGERS



● UTi80P

● UTi120T

● UTi80

● UTi165A

	UTi80P	UTi80	UTi120T	UTi165A
IR resolution	80×60 pixels	80×60 pixels	120×90 pixels	160×120 pixels
Field of view (FOV)	51° horizontal	51° horizontal	50°×38°	56°×42°
Thermal sensitivity (NETD)	≤150mk (0.15°C)	≤150mk	<60mk	≤150mk (0.15°C)
Temperature range	-10~400°C	-30~400°C	-20~400°C	-10~400°C
Spatial resolution (IFOV)	11mrad	11mrad	7.6mrad	11mrad
Frame rate	≤9Hz	≤9Hz	25Hz/9Hz	<9Hz
Measurement accuracy	±2°C or ±2% whichever is greater			
Focus			Focus free	Focus free
Digital zoom			2×, 4×, 8×	
Display modes	Thermal	Thermal, image blending, visible light		Thermal
Display	2.4" TFT LCD	2.4" TFT LCD	3.5" LCD	2.8" LCD
Auto capture of Hi/Lo temperature	√	√	√	√
Measurement modes	Point, area	Point, area	Point, area	
WIFI			√	
PC analysis software	√		√	√
Drop proof	1m	1m	1m	2m
IP rating			IP54	IP65
Power	UTi80: Li-ion battery (3.7V 2600mAh); UTi80P: Li-ion battery (3.7V 1300mAh); UTi120T/UTi165A: Li-ion battery (3.7V 5000mAh)			
Product color	Red and grey			
Product net weight	UTi80: 370g; UTi80P: 125g; UTi120T: 212g; UTi165A: 455g			
Product size	UTi80: 205mm x 124 mm x 65mm; UTi80P: 76mm x 76 mm x 22mm; UTi120T: 205mm x 124 mm x 65mm; UTi165A: 236mm x 75.5 mm x 86mm			
Standard accessories	Carrying bag (UTi80/80P/120T) , micro USB cable, micro SD card, Type-C USB cable (UTi165A)			
Standard individual packing	Blister, gift box, English manual			
Standard quantity per carton	UTi80/UTi80P/UTi120T: 5pcs; UTi165A: 5pcs			
Standard carton measurement	UTi80: 575mm x 380 mm x 220mm; UTi80P: 455mm x 145mm x 150mm; UTi120T: 387mm x 246mm x 166mm; UTi165A: 650mm x 355 mm x 180mm			
Standard carton gross weight	UTi80: 5.3kg; UTi80P: 2.35kg; UTi120T: 2.6kg; UTi165A: About 5kg			

UTi160/320/380 SERIES THERMAL IMAGER



● UTi160G



● UTi160V



● UTi320V



● UTi380H

	UTi160G	UTi160V	UTi320V	UTi380H
IR resolution	160×120 pixels	160×120 pixels	320×240 pixels	384×288 pixels
Field of view (FOV)	20.6°×15.5°	30°×23°	42.5°×32.5°	28°×21°
Thermal sensitivity (NETD)	≤80mk	≤60mk	≤60mk	≤0.05°C@30°C
Temperature range	-20~350°C	-20~350°C	-20~350°C	-20~650°C
Spatial resolution (IFOV)	2.25mrad	3.3mrad	2.33mrad	1.27mrad
Frame rate	50Hz	50Hz	50Hz	50Hz
Measurement accuracy	±2°C or ±2% whichever is greater			
Focus	Manual focus	Focus free	Focus free	Manual focus
Digital zoom	2×	2×, 4×	2×, 4×	8× continuous
Display modes	Thermal	Thermal, image blending, visible light, PIP		
Display	3.5" TFT LCD	3.5" TFT LCD	3.5" TFT LCD	3.5" LCD
Auto capture of Hi/Lo temperature	√	√	√	√
Isotherm	√	√	√	√
Measurement modes	Point, area, line	Point, area, line	Point, area, line	Point, area, line
WIFI		√	√	√
PC analysis software	√	√	√	√
Drop proof	1m	1m	1m	
IP rating	IP43	IP43	IP43	IP54
Power	UTi160G: Li-ion battery (3.7V 4200mAh); UTi160V/UTi320V: Li-ion battery (7.4V 2300mAh); UTi380H: rechargeable Li-ion battery			
Product color	Red and grey			
Product net weight	UTi160G/UTi160V/UTi320V: 740g; UTi380H: 1.06kg			
Product size	UTi160G/UTi160V/UTi320V: 258mm x 98mm x 90mm; UTi380H: 310mm x 130mm x 110mm			
Standard accessories	Carrying bag, micro USB cable, micro SD card, power supply, plugs, batteries			
Standard individual packing	Gift box, tool box, English manual			
Standard quantity per carton	1pcs			
Standard carton measurement	UTi160G/UTi160V/UTi320V: 385mm x 210mm x 310mm; UTi380H: 500mm x 216mm x 413mm			
Standard carton gross weight	UTi160G/UTi160V/UTi320V: 4.1kg; UTi380H: 6kg			

UTi192M/384M/640C

THERMAL IMAGERS



● UTi192M



● UTi384M



● UTi640C

	UTi192M	UTi384M	UTi640C
IR resolution	192×144 pixels	384×288 pixels	640×480 pixels
Field of view (FOV)	37.8°×28.8°	28.4°×21.5°	24.6°×18.5° (Normal lens)
Thermal sensitivity (NETD)	50mk	45mk	30mk
Temperature range	-20~150°C/100~650°C/ 650~1500°C	-20~150°C/100~650°C/ 650~1500°C	-20~150°C/150~800°C/ optional 2000°C
Spatial resolution (IFOV)	3.45mrad	1.29mrad	25mm/0.67mrad 13mm/1.24mrad 55mm/0.31mrad
Frame rate	25Hz	25Hz	25Hz/9Hz
Measurement accuracy	±2°C or ±2% whichever is greater		±1°C or ±1%, whichever is greater (selected temperature) ±2°C or ±2% (whichever is greater)
Focus	Manual focus	Focus free	Electric or automatic
Digital zoom	1.1~4×	1.1~4×	1.1~10×
Display modes	Thermal, image blending, visible light, PIP		
Display	4" LCD	4" LCD	5" TFT LCD
Auto capture of Hi/Lo temperature	√	√	√
Isotherm	√	√	√
Measurement modes	Point, area, line	Point, area, line	Point, area, line
WIFI	√	√	√
PC analysis software	√	√	√
IP rating	IP54	IP54	IP54
Power	UTi192M/UTi384M: Li-ion battery (7.4V 2300mAh); UTi640C: Li-ion battery (11.1V 2900mAh)		
Product color	Red and grey		
Product net weight	UTi192M/UTi384M: 840g; UTi640C: 1.35kg		
Product size	UTi192M/UTi384M: 274mm x 106mm x 78mm; UTi640C: 206mm x 145mm x 135mm		
Standard accessories	Adapter, adapter plugs, battery, USB cable, HDMI cable, SD Card		
Standard individual packing	Gift box, carrying bag(UTi192M), tool box(UTi384M/UTi640C), English manual, quick start guide		
Standard quantity per carton	1pcs		
Standard carton measurement	470mm x 355mm x 210mm		
Standard carton gross weight	UTi192M: About 4kg; UTi384M/UTi640C: About 7.6kg		

VOLTAGE DETECTORS

Non-contact voltage detectors can quickly detect live AC voltage. These handy devices are great for electricians to safely and quickly check the status of electrical wires. The UT12 series includes single/dual mode (UT12S-ROW/UT12D-ROW) and two PRO models (UT12E-ROW/UT12M-ROW) designed with vibration mode and magnetic detection mode. These PRO models are IP67 rated, suitable for working in industrial environments.



UT12 SERIES

AC VOLTAGE DETECTORS



UT12 series non-contact AC voltage detectors are widely used in the maintenance of low voltage equipments such as conductors, cables, sockets, and other electrical/electronics instruments. It is a very handy tool for electricians.



Auto power off



Buzzer



LED indication



AC voltage detection



High/Low voltage mode (UT12D-ROW)

● UT12S-ROW

Applications:

Low voltage mode: Low-voltage motor (<90V), audio systems, arc welding machines, underground mining lighting, cables with thick insulation layer and other weak electromagnetic AC signals.

High voltage mode: Urban electric supply and three-phase systems (90~1000V). For example, power distribution units, electrical panels, electrical appliances.

	UT12S-ROW	UT12D-ROW
AC voltage (Low)	—	24V~1000V
AC voltage (High)	90V~1000V	90V~1000V
Frequency range	50/60Hz	50/60Hz
Built-in flashlight	√	√
※ Audible (buzzer) and visual (LED) indication	√	√
Buzzer/LED indication/Auto power off	√	√
Low voltage indication	√	√
Power	1.5V battery (R03) x 2	
Product color	Red+grey	
Product net weight	50g	
Product size	150mm x 18 mm x 23mm	
Standard individual packing	Battery, blister, english manual	
Standard quantity per carton	40pcs	
Standard carton measurement	350mm x 245 mm x 210mm	
Standard carton gross weight	About 3.6kg	

※Buzzer and sensing LED frequencies increase when detector gets closer to the test object



UT12 SERIES AC VOLTAGE DETECTORS



UT12E-ROW and UT12M-ROW are UNI-T's professional grade voltage detectors. They are designed with IP67 dust/water resistant and can withstand 2 meters drop. These durable devices are great for working in harsh environments. UT12E-ROW has an optional vibration mode and UT12M-ROW is able to detect magnetic fields.



Auto power off



Buzzer



LED indication



IP 67



AC voltage detection



High/Low voltage mode



Magnetic solenoid detection (UT12M-ROW)



Vibration mode (UT12E-ROW)

	UT12E-ROW	UT12M-ROW
AC voltage (Low)	24V~1000V	24V~1000V
AC voltage (High)	90V~1000V	90V~1000V
Frequency range	50/60Hz	50/60Hz
Vibration mode	√	—
Magnetic solenoid detection	—	√
Built-in flashlight	√	√
※ Audible (buzzer) and visual (LED) indication	√	√
Buzzer/LED indication/Auto power off	√	√
Low voltage indication	√	√
Double injection molding	√	√
Drop test	2m	2m
Power	1.5V battery (R03) x 2	
Product color	Red+grey	
Product net weight	72g	
Product size	160.5mm x 21.5 mm x 25mm	
Standard individual packing	Battery,blister, english manual	
Standard quantity per carton	40pcs	
Standard carton measurement	415mm x 245 mm x 235mm	
Standard carton gross weight	About 3.8kg	

※Buzzer and sensing LED frequencies increase when detector gets closer to the test object



● UT12M-ROW

DIGITAL MULTIMETERS

Digital multimeter is a must-have tool for professional electrical engineers, electrical technicians and electronics engineers. Multimeters are tools used to detect and troubleshoot electrical and electronic devices. UNI-T's wide range of multimeter selection guarantees that you can find the most suitable multimeter within your budget that satisfies your needs.



UT195 SERIES PROFESSIONAL MULTIMETERS



UT195 series are industrial digital multimeters with **IP65** and **2m drop proof**. It can be used in mines, oilfields and other harsh environments. UT195 series can be used to find issues related to motor drive, factory equipment maintenance, electrical distribution, and repair. It is exquisitely designed and easy to operate.



● UT195DS



	Range	UT195E	UT195M	UT195DS
DC voltage (V)	1000V	±(0.2%+5)	±(0.2%+5)	±(0.2%+5)
AC voltage (V)	1000V	±(1%+3)	±(1%+3)	±(1%+3)
AC+DC	600V			±(1.5%+4)
LoZ ACV	600V	±(2%+3)	±(2%+3)	±(2%+3)
DC current (A)	20A	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
AC current (A)	20A	±(1%+3)	±(1%+3)	±(1%+3)
Resistance (Ω)	60MΩ	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
Capacitance	60mF	±(3%+5)	±(3%+5)	±(3%+5)
Frequency	60Hz~10MHz	±(0.1%+4)		
	60Hz~40MHz		±(0.1%+4)	±(0.1%+4)
Duty cycle	0.1%~99.9%	±(2%+5)		±(2%+5)
Temperature (°C)	-40°C~1000°C		±(1.5%+4)	
Temperature (°F)	-40°F~ 1832°F		±(2%+5)	

Features

Display count		6000	6000	6000
Display interface (LCD)		Single	Single	Dual
Measurement sampling rate		3/s	3/s	5/s
Analog bar sampling rate		10/s		20/s
Analog bar		31		31
True RMS		√	√	√
AC voltage frequency response		45~400Hz	45~1kHz	45~5kHz
AC current frequency response		45~400Hz	45~1kHz	45~5kHz
3-phase motor sequence test			600	600
Low pass filter				1kHz
Diode/Continuity test		3.5V	3V	3V
Peak hold				250μs
Auto/Manual range		√	√	√
Continuity buzzer		√	√	√
Low battery indication		√	√	√
Data hold/Auto power off		√	√	√
MAX/MIN		√	√	√
Function selection		√	√	√
Flashlight/Auto backlight		√	√	√

Power	9V battery
LCD size	66mm x 51mm
Product color	Red and grey
Product net weight	437g
Product size	195mm x 95 mm x 58mm
Standard accessories	Test probes, battery, carrying bag, point contact temperature probe (UT195M)
Standard individual packing	Gift box, English manual (German, French, Spanish optional)
Standard quantity per carton	10pcs
Standard carton measurement	605mm x 335mm x 405mm
Standard carton gross weight	UT195E/UT195M: 11.8kg; UT195DS: 11.18kg

UT191 SERIES

PROFESSIONAL MULTIMETERS



● UT191E



● UT191T

- Measurement setting saved after power reset
- **IP65, 2m drop proof**
- True RMS/Peak value measurement
- Auto backlight
- 20A current measurement
- LoZ AC measurement
- Precise temperature measurement with resolution of 0.1°C (UT191T)

	Range	UT191E	UT191T
DC voltage (V)	600V	±(0.2%+5)	±(0.2%+5)
AC voltage (V)	600V	±(1%+3)	±(1%+3)
LoZ ACV (V)	600V	±(2%+3)	±(2%+3)
ACV LPF	600V	±(2%+5)	±(2%+5)
DC current (A)	20A	±(0.8%+3)	±(0.8%+3)
AC current (A)	20A	±(1%+3)	±(1%+3)
Resistance (Ω)	60MΩ	±(0.8%+2)	±(0.8%+2)
Capacitance (F)	60mF	±(3%+5)	±(3%+5)
Frequency (Hz)	10Hz~1MHz	±(0.1%+4)	±(0.1%+4)
Duty cycle	0.1%~99.9%	±(2%+5)	±(2%+5)
Temperature (°C)	-40°C~400°C (0.1°C resolution)		±(1%+20)
Temperature (°F)	-40°F~752°F (0.2°F resolution)		±(1%+40)
ACV peak hold		±(2%+100)	±(2%+100)
Peak current detection		±(3%+100)	±(3%+100)

Features

Display count	6000
Sampling rate	3 times/second
Analog bar graph	31 sections
True RMS	√
AC voltage frequency response	45Hz~400Hz
AC current frequency response	45Hz~400Hz
Diode/Continuity test	√
Auto/Manual range	√
Auto power off	√
Low battery indication	√
Data hold/MAX/MIN	√
Function selection (SELECT)	√
Flashlight/Auto backlight	√
2m drop test/IP65	√

Power	9V battery
LCD size	58mm x 42mm
Product color	Red and grey
Product net weight	428g
Product size	180mm x 87mm x 59mm
Standard accessories	Test lead, battery, carrying bag, point contact temperature probe (UT191T)
Standard individual packing	Gift box, English manual
Standard quantity per carton	10pcs
Standard carton measurement	535mm x 315mm x 335mm
Standard carton gross weight	9.2kg

iDMM iDMM APP



iDMM APP

- Available to download at Apple Store and Google Play Store
- Supports Android 4.3 and higher versions
- Supports iOS 5 and higher versions
- Designed to work with UT-D07A Bluetooth Adaptor
- Applicable to UT181, UT171, and UT71 series digital multimeter
- Landscape and graphical views
- 3 operation modes



UT-D07A

- Description: Bluetooth 4.0 communication protocol
- Support: iOS 6.0 or above, Android 4.0 or above
- Application: UT71, UT171, UT181 series
- Power: 1.5V battery (R03) x 2



iOS



Android



1) Real-time mode:

Users can stream real-time result from multimeter and view through smart phone

2) Datalogging mode:

Users can set up different conditions for logging data on smart phone

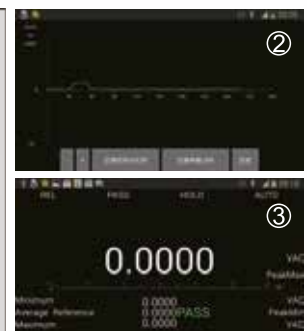
3) Data transfer mode:

Users can upload the data stored in multimeter memory and display on smart phone

Diagram 1: Real-time data stream between
UT181A and smart phone

Diagram 2: Landscape view of iDMM

Diagram 3: Graphical view of iDMM



UT181A

TRUE RMS DATALOGGING MULTIMETER



UT181A is a datalogging true RMS multimeter with features such as trend capture, low pass filter, nS conductance, dual temperature, and more. Users can store up to 20000 sets of measurement data and display them on a trend graph for long term monitoring.



- Smart phone APP: iDMM
- Works with UT-D07A Bluetooth adaptor
- Download from Apple Store or Google Play Store



● UT-D07A

	Range	Accuracy
DC voltage (V)	1000V	±(0.025%+5)
AC voltage (V)	1000V	±(0.3%+30)
DC current (A)	10A	±(0.08%+10)
AC current (A)	10A	±(0.6%+20)
Resistance (Ω)	60MΩ	±(0.05%+2)
Admittance (nS)	60nS	±(2%+10)
Capacitance (F)	60mF	±(2%+5)
Frequency (Hz)	10Hz~60MHz	±(0.01%+5)
Temperature (°C)	-40°C~1000°C	±(1%+30)
Temperature (°F)	-40°F~1832°F	±(1.5%+50)
Features		
Display count		60000
Auto/Manual range		√
Bandwidth (Hz)	100kHz	√
AC+DC/Continuity buzzer		√
Low pass filter	1kHz	√
dBV/dBm		√
Diode	Around 3V	√
Duty cycle	10%~90%	√
Dual temperature measurement	T1, T2, T1-T2, T2-T1	√
Data hold/Peak hold		√
Relative mode		√
Data logging	20000	√
Trend capture		√
MAX/MIN/AVG		√
Data time display/Data comparison		√
Backlight adjustment		√
Analog bar graph/USB interface		√
Mis-plug alarm		√
Battery indication/Auto power off		√
Rechargeable battery		√
Input protection		√
Input impedance for DCV	≥10MΩ	√
Power	Li-ion battery: 7.4V 2200mAh	
Display	3.5-inch 64K color TFT LCD (320 x 240)	
Product color	Red and grey	
Product net weight	638.6g	
Product size	225mm x 103mm x 59mm	
Standard accessories	Battery, test leads, temperature adaptor socket, point contact temperature probes, power adaptor socket, power adaptor, PC software CD, USB interface cable	
Standard individual packing	Gift box, carrying bag, English manual	
Standard quantity per carton	5pcs	
Standard carton measurement	355mm x 310mm x 265mm	
Standard carton gross weight	7kg	
Optional accessories	Bluetooth adaptor (UT-D07)	

UT171 SERIES

INDUSTRIAL TRUE RMS DIGITAL MULTIMETERS



UT171 series are industrial grade multimeters used by professionals. Its built-in square wave output is useful for troubleshooting industrial control signals. The LoZ (ACV) feature can be used to identify residual (ghost) voltage in large capacitors. UT171C's OLED display has great viewing angle and is perfect for working in low temperatures.

- AC+DC measurement (UT171B/C)
- Peak hold (UT171B/C)
- Rechargeable battery (UT171B/C)
- VFC low-pass filtering
- USB/Bluetooth communication



● UT171C



- Smart phone APP: iDMM
- Works with UT-D07A Bluetooth adaptor
- Download from Apple Store or Google Play Store



● UT-D07A

	Range	UT171A	UT171B	UT171C
DC voltage (V)	1000V	±(0.025%+5)	±(0.025%+5)	±(0.025%+5)
AC voltage (V)	1000V	±(0.4%+40)	±(0.4%+40)	±(0.4%+40)
DC current (A)	10A	±(0.15%+10)	±(0.15%+10)	±(0.15%+10)
AC current (A)	10A	±(0.75%+20)	±(0.75%+20)	±(0.75%+20)
Resistance (Ω)	40MΩ	±(0.05%+2)		
	60MΩ		±(0.05%+2)	±(0.05%+2)
Admittance (nS)	60nS		±(1%+10)	±(1%+10)
Capacitance (F)	40mF	±(2.5%+5)		
	60mF		±(2.5%+5)	±(2.5%+5)
Frequency (Hz)	10Hz~10MHz	±(0.01%+5)	±(0.01%+5)	±(0.01%+5)
Temperature (°C)	-40°C~1000°C		±(1%+3)	±(1%+3)
Temperature (°F)	-40°F~1832°F		±(1.5%+5)	±(1.5%+5)

Features

Display count		40000	60000	60000
Auto/Manual range		√	√	√
True RMS		√	√	√
Bandwidth (Hz)	100kHz	√	√	√
4~20mA loop	0~100%		√	√
LoZ (ACV)	Around 3kΩ		√	√
Diode	Around 3V	√	√	√
Continuity buzzer		√	√	√
Duty cycle	0.1%~99.9%	√	√	√
NCV/Data hold/MAX/MIN		√	√	√
Relative mode		√	√	√
Data storage		1000	9999	9999
Display type		LCD	EBTN	OLED
Analog bar graph		31	31	31
LCD backlight		√	√	√
Mis-plug alarm		√	√	√
Low battery indication		√	√	√
Auto power off		√	√	√
Input protection		√	√	√
Input impedance for DCV	≥10MΩ	√	√	√

Power	UT171A: 1.5V battery (R03) x 6; UT171B/C: 7.4V 2000mAh Li-ion battery
Display	UT171A: 70.6mm x 49.5mm UT171B/C: 70.6mm x 35.3mm
Product color	Red and grey
Product net weight	384g
Product size	206mm x 95mm x 55mm
Standard accessories	Batteries, test leads, point contact temperature probe, USB interface cable, power adaptor (UT171B/C), PC software CD
Standard individual packing	Gift box, carrying bag, English manual
Standard quantity per carton	5pcs
Standard carton measurement	390mm x 310mm x 205mm
Standard carton gross weight	5.6kg
Optional accessories	Bluetooth adaptor (UT-D07)

UT139 SERIES

TRUE RMS DIGITAL MULTIMETERS



Intertek

UT139 series are CAT III 600V digital multimeters designed for electricians. Its NCV feature can effectively check electrical status through measuring EM field intensity. The new UT139E/S models include special features such as LoZ (ACV) for measuring 'ghost' voltage. Its built-in 31-segment analog bar also gives electricians a better visual representation of measurement results. UT139S is built with black EBTN display and it is a perfect meter for working in dark environments.

- Unique battery test feature: Display battery power value when testing 1.5V/9V batteries(UT139A)
- Optional accessories: current sensor AC/DC 40A (UT139C only)
- VFC (UT139A/UT139B/UT139C)



● UT139C



● UT139S

	Range	UT139A	UT139B	UT139C	UT139E	UT139S
DC voltage (V)	600V	±(0.7%+3)	±(0.7%+3)	±(0.7%+3)	±(0.7%+3)	±(0.7%+3)
AC voltage (V)	600V	±(1%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
DC current (A)	60A	±(1%+3)	±(1%+3)	±(1%+3)	±(1%+3)	±(1%+3)
AC current (A)	60A	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)
Resistance (Ω)	20MΩ	±(1%+2)				
	40MΩ		±(0.8%+2)			
	60MΩ			±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
Capacitance (F)	99.99mF		±(4%+5)	±(4%+5)	±(4%+5)	±(4%+5)
Frequency (Hz)	10Hz~10MHz		±(0.1%+4)	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)
Temperature (°C)	-40 °C~1000°C			±(1%+3)	±(1%+4)	±(1%+4)
Temperature (°F)	-40°F~1832°F			±(1.5%+5)	±(1.5%+5)	±(1.5%+5)

Features

Display count		2000	4000	6000	6000	6000
Display type		LCD	LCD	LCD	TN	EBTN
Auto range/Manual range/True RMS		√	√	√	√	√
Bandwidth (Hz)		45Hz~400Hz	45Hz~1kHz	45Hz~1kHz	45Hz~400Hz	45Hz~400Hz
NCV/Continuity buzzer		√	√	√	√	√
Duty cycle	0.1%~99.9%		√	√	√	√
Diode		Around 2V	Around 3V	Around 3V	Around 3V	Around 3V
LPF/LoZ (ACV)					√	√
Analog bar					√	√

Power	1.5V battery (R6) x 2
Display	58mm x 36mm
Product color	Red and grey
Product net weight	UT139A/B/C: 354g; UT139E/S: 345g
Product size	170mm x 80mm x 48mm
Standard accessories	UT139A/B: Batteries, test leads; UT139C/E/S: Batteries, test leads, temperature probe
Standard individual packing	Gift box, English manual
Standard quantity per carton	20pcs
Standard carton measurement	UT139A/B/C: 450mm x 330mm x 340mm; UT139E/S: 425mm x 275mm x 340mm
Standard carton gross weight	UT139A/B: 11.8kg; UT139C/E: 12.3kg; UT139S: 12.4kg
Optional accessories	UT139C: Current sensor AC/DC 40A

UT136+ SERIES

DIGITAL MULTIMETERS



● UT136C+



- Measures up to 1000V and 10A AC/DC voltage and current
- Equipped with 3mm protective sleeve; 2m drop proof
- Large LCD display; Overload alarm
- Quick sampling rate, up to 4 times/s
- Quick capacitor measurement (measures 1mF in 4 seconds)
- Low power consumption and auto power saving function; long battery service life (>500hrs)

	Range	UT136B+	UT136C+
DC voltage (V)	1000V	±(0.7%+3)	±(0.7%+3)
AC voltage (V)	1000V	±(1%+3)	±(1%+3)
DC current (A)	10A	±(1%+3)	±(1%+3)
AC current (A)	10A	±(1.2%+5)	±(1.2%+5)
Resistance (Ω)	40MΩ	±(0.8%+2)	±(0.8%+2)
Capacitance (F)	40mF	±(3%+5)	±(3%+5)
Frequency (Hz)	400Hz~40MHz	±(0.1%+4)	±(0.1%+4)
Temperature (°C)	-40~1000°C		±(1%+3)
Temperature (°F)	-40~1832°F		±(1.5%+5)

Features

Display count	4000	4000
Transistor measurement	√	√
NCV	√	
Diode/transistor	√	√
Continuity buzzer	√	√
Data hold/Auto power off	√	√
Low battery/Indication	√	√
LCD backlight	√	√

Power	1.5V battery (R6) x 2
Display	56.5mm x 36mm
Product color	Red and grey
Product net weight	330g
Product size	175mm x 83mm x 53mm
Standard accessories	Batteries, test leads, temperature probe (UT136C+)
Standard individual packing	Gift Box, English manual
Standard quantity per carton	30pcs
Standard carton measurement	390mm x 355mm x 355mm
Standard carton gross weight	14.8kg

UT133 SERIES

DIGITAL MULTIMETERS



● UT133A



● UT133B

- Over voltage/current audible alarm
- High voltage warning
- Auto power off (can be disabled)
- Low power consumption
- Battery test with status
- 2m drop proof

	Range	UT133A	UT133B
DC voltage (V)	600mV/6000mV/60V/600V	±(0.7%+3)	±(0.7%+3)
AC voltage (V)	600V	±(0.7%+3)	±(1.2%+3)
DC current (A)	600uA/60mA/600mA/10A	±(1%+3)	±(1%+2)
AC current (A)	10A	±(1.2%+3)	
Resistance (Ω)	600Ω/6000Ω/60kΩ/600kΩ/60MΩ	±(0.8%+2)	±(0.8%+2)
Capacitance (F)	9.999nF/99.99nF/999.9nF/9.999μF/99.99μF/999.9μF/9.999mF	±(4%+5)	±(4%+5)
Frequency (Hz)	10.00Hz~1.000MHz	±(0.1%+5)	
Temperature (°C)	-40°C~1000°C	±(1%+4)	
Temperature (°F)	-40°F~1832°F	±(1.5%+5)	

Features

Display count		6000	6000
Range selection		Auto	Manual
Diode		√	√
Continuity buzzer		√	√
Battery test	Tests 1.5V and 9V batteries and displays 'good', 'low', 'bad' status		√
NCV		√	√
LCD backlight		√	√
Test probe holder		√	√
Data hold		√	√
Low battery indication		√	√
Overload indication		√	√

Power	1.5V battery (R03) x 2
Display	50mm x 23mm
Product color	Red and grey
Product net weight	255g (with batteries)
Product size	155mm x 76.5mm x 49mm
Standard accessories	Manual, test leads, K-type thermocouple (UT133A)
Standard individual packing	Gift box, English manual
Standard quantity per carton	30pcs
Standard carton measurement	350mm x 335mm x 318mm
Standard carton gross weight	11.8kg



● Battery status chart

	GOOD	LOW	BAD
1.5V	>1.3V	0.95~1.3V	<0.95V
9V	>7.7V	5.7~7.7V	<5.7V

UT125C POCKET SIZE DIGITAL MULTIMETER



UT125C is a pocket size, ergonomic and reliable multimeter with 4000 display counts. It is a useful tool for electronics DIYers working with low currents (< 0.4A). This product is CE/cETLus certified and complies with CAT III 600V.



	Range	UT125C
DC voltage (V)	600V	±(0.5%+5)
AC voltage (V)	600V	±(1.2%+5)
DC current (A)	400mA	±(1.8%+5)
AC current (A)	400mA	±(2%+8)
Resistance (Ω)	40MΩ	±(1%+5)
Capacitance (F)	100μF	±(4%+10)
Frequency (Hz)	10Hz~60kHz	±(0.1%+5)
Duty cycle	20%~80%	Reference

Features

NCV		✓
Diode test/Continuity test		✓
Low battery indication		✓
Data hold/Auto power off		✓
Operating temperature	0°C~50°C	
Power	1.5V battery (R03) x 2	
Display	38mm x 23mm	
Product color	Red and grey	
Product net weight	180g	
Product size	112mm x 58mm x 35mm	
Standard accessories	Batteries	
Standard individual packing	Gift box, English manual	
Standard quantity per carton	60pcs	
Standard carton measurement	500mm x 290mm x 280mm	
Standard carton gross weight	13.5kg	

UT123

RESIDENTIAL DIGITAL MULTIMETER



The UT123 is a pocket-sized residential multimeter designed for home use. The compact structure makes it easy to hold in one hand, and the EBTN screen allows users to obtain clear readings at maximum angle, it is also great for working in dark environments.

LED FUNCTION DESCRIPTIONS

Functions	LED off	Green LED	Yellow LED	Red LED
*NCV		30V~60V	60V~100V	> 220VAC
Continuity $\rightarrow$	>420Ω	Good ($\leq 30\Omega$)		Poor ($30\Omega\sim 420\Omega$)
Battery power LED ON for 2s when power on		Normal (>2.7V)	Low (2.5V~2.7V)	No power (<2.5V)

*NCV voltage values above are tested at contact distance (0cm) from the charged bare wire, it is used for reference only. When meter is at some distance away from test object, NCV indication light may change to the weaker voltage color



	Range	Accuracy
DC voltage (V)	600V	$\pm(0.5\%+2)$
AC voltage (V)	600V	$\pm(1\%+3)$
Resistance (Ω)	20MΩ	$\pm(0.8\%+2)$
Temperature	-40°C~300°C	$\pm 4^\circ\text{C}$

Features

Display count		4000
Auto range		✓
NCV		✓
Continuity		✓
LED/buzzer indication	NCV/continuity/battery power	✓
Low battery indicaiton		✓
Data hold		✓
Auto power off		✓
Over voltage alarm	>600V	✓

Power	1.5V battery (R03) x 2
Display	44mm x 26mm
Product color	Red and grey
Product net weight	130g
Product size	130mm x 65mm x 28mm
Standard accessories	Batteries, thermocouple
Standard individual packing	Gift box, English manual
Standard quantity per carton	60pcs
Standard carton measurement	480mm x 340mm x 325mm
Standard carton gross weight	14.8kg



Temperature measurement



Continuity, resistance



EBTN LCD screen, high contrast

UT120 SERIES

POCKET SIZE DIGITAL MULTIMETERS



UT120 series multimeters are designed for DIYers and electronics engineers to troubleshoot electronics systems development and electronics circuits. It is a simple and portable multimeter for every electronics engineer.



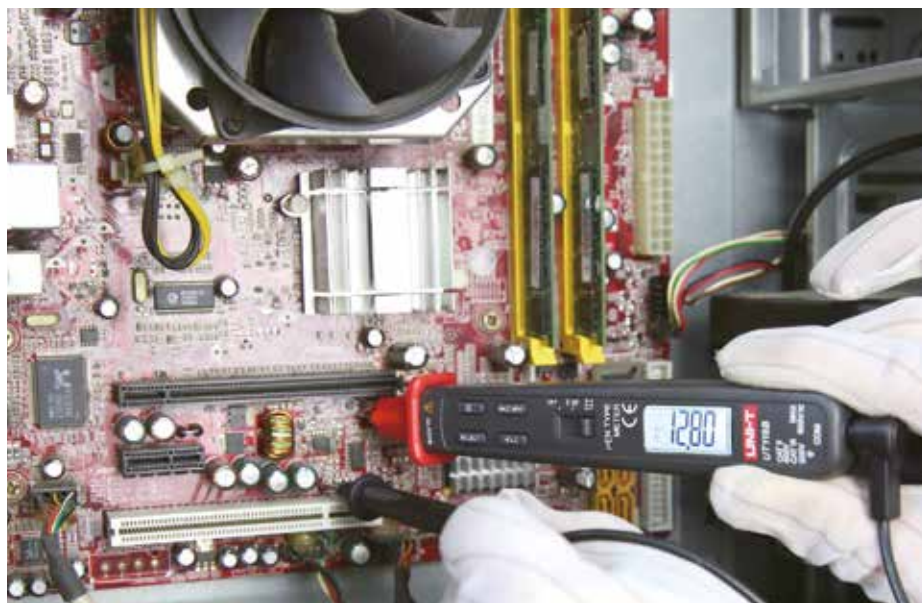
	Range	UT120A	UT120B	UT120C
DC voltage (V)	600V	±(0.8%+1)	±(0.8%+1)	±(0.8%+1)
AC voltage (V)	600V	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)
DC current (A)	400mA			±(1%+3)
AC current (A)	400mA			±(1.5%+5)
Resistance (Ω)	40MΩ	±(1%+2)	±(1%+2)	±(1%+2)
Capacitance (F)	100μF		±(4%+3)	±(4%+3)
Frequency (Hz)	10MHz	±(0.5%+3)	±(0.5%+3)	±(0.5%+3)
Features				
Display count		4000	4000	4000
Auto range		√	√	√
Duty cycle	0.1%~99.9%	√	√	√
Diode		√	√	√
Auto power off	Around 30 minutes	√	√	√
Continuity buzzer		√	√	√
Low battery indication	≤2.4V	√	√	√
Data hold		√	√	√
Relative mode		√	√	√
Input impedance for DCV	Around 10MΩ	√	√	√
Power	3V battery (CR2032)			
Display	43mm x 22mm			
Product color	Red and grey			
Product net weight	76g			
Product size	110mm x 58.2mm x 10.8mm			
Standard accessories	Battery, carrying case			
Standard individual packing	Blister, English manual			
Standard quantity per carton	60pcs			
Standard carton measurement	430mm x 255mm x 460mm			
Standard carton gross weight	11.5kg			

UT118B

TYPE DIGITAL MULTIMETER



● UT118B



UT118B pen type multimeter is light and durable. This meter has a fast sampling rate of 4 times/s, which can quickly capture measurement readings. It is a cost-effective product customized for home appliance repair and DIYers.

	Range (SCAN Mode)	Range (AUTO Mode)	Accuracy
DC voltage (V)	600V	600V	±(1%+3)
AC Voltage (V)	600V	600V	±(1%+4)
Resistance (Ω)	3MΩ	30MΩ	±(1%+3)
Capacitance (F)	300μF	3mF	±(3%+5)

Features

Display count		3000
Auto range		√
EF function		√
Diode		√
Auto power off	Around 10 minutes	√
Continuity buzzer		√
Low battery indication		√
Data hold		√
MAX/MIN		√
LCD backlight		√
Penlight		√
Input impedance for DCV	≥10MΩ	√

Power	3V battery (CR2032)
Display	28mm x 14mm
Product color	Red and grey
Product net weight	90g
Product size	20mm x 27mm x 182mm
Standard accessories	Battery, test lead
Standard individual packing	Blister, English manual
Standard quantity per carton	40pcs
Standard carton measurement	405mm x 300mm x 300mm
Standard carton gross weight	7.1kg

UT116 SERIES SMD TESTERS



- 36V DC voltage measurement
- Battery measurement (10mA) (UT116C)
- Resistance, capacitance (UT116C: up to 100mF), continuity, diode measurement
- The pen can be rotated by 180°, which is convenient for reading and diode/LED
- zener diode polarity test



	UT116A	UT116C
Display count	3000	6000
Resistance	30MΩ	60MΩ
Capacitance	30mF	100mF
Diode test	3V	3.2V
LED/stabilivolt	About 21V/1mA	About 21V/1mA
Continuity Test	<30Ω	<50Ω
DCV	36V	
Battery test		Load current ≈ 10mA
Auto range	√	√
Auto scan identification	√	
Auto power off	√	√
Power	1.5V battery (R03) x 2	
Display	39mm x 20mm	
Product color	Red and grey	
Product net weight	About 80g	
Product size	204mm x 33mm x 25mm	
Standard accessories	Battery	
Standard individual packing	Gift box, English manual	
Standard quantity per carton	60pcs	
Standard carton measurement	440mm x 420mm x 210mm	
Standard carton gross weight	About 7.1kg	



The pen can be rotated by 180° for easy reading and operation



Probe attachment



LED measurement

UT105

AUTOMOBILE MULTIMETER



● UT105



UT105 is specially designed for automobiles diagnostic. It combines RPM, DWELL, and other multimeter functions. UT105 is useful for automobile mechanics to diagnose gas powered vehicles and hybrid electric vehicles. Its applications include working on fuse, switch, solenoid, relay, charging system, fuel system, engine sensing etc.

- Diode/Data hold
- Continuity buzzer
- Low battery indication
- Input protection

	Range	Accuracy
DC voltage (V)	200mV/2V/20V/200V/1000V	$\pm(0.5\%+5)$
AC voltage (V)	2V/20V/200V/750V	$\pm(0.8\%+5)$
DC current (A)	200mA/10A	$\pm(0.8\%+5)$
Resistance (Ω)	200 Ω /2k Ω /20k Ω /200k Ω /2M Ω /20M Ω	$\pm(0.8\%+5)$
Features		
Display count		2000
Input impedance for DCV	Around 10M Ω	✓
Dwell/Tach	4CYL/6CYL/8CYL	$\pm(3\%+5)$
Power	9V battery (6F22)	
Display	60mm x 54mm	
Product color	Red and grey	
Product net weight	351g (including holster)	
Product size	179mm x 88mm x 39mm	
Standard accessories	Battery, test leads, holster	
Standard individual packing	Gift box, English manual	
Standard quantity per carton	20pcs	
Standard carton measurement	450mm x 330mm x 340mm	
Standard carton gross weight	15.4kg	

UT89X SERIES

TRMS DIGITAL MULTIMETERS



Capacitor Measurement	
	Fully charged
	Charging in progress

LED Test (UT89XD only)	
	Normal LED, forward voltage within 11.1V DC
	LED not working

	Range	UT89X	UT89XD
DC voltage (V)	600mV/6V/60V/600V/1000V	±(0.5%+2)	±(0.5%+2)
AC voltage (V)	6V/60V/600V/1000V	±(0.8%+5)	±(0.8%+5)
DC current (A)	60μA/60mA/600mA/20A	±(0.8%+8)	
DC current (A)	60μA/6mA/60mA/600mA/20A		±(0.8%+8)
AC current (A)	60mA/600mA/20A	±(1%+12)	±(1%+12)
Resistance (Ω)	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	±(0.8%+3)	±(0.8%+3)
Capacitance (F)	6nF/60nF/600nF/6μF/60μF/600μF/6mF/60mF/100mF	±(2.5%+20)	±(2.5%+20)
Frequency (Hz)	9.999Hz/9.999MHz	±(0.1%+4)	±(0.1%+4)
Duty cycle	0.1%~99.9%	±(2%+5)	±(2%+5)
Temperature (°C)	-40°C~1000°C	±(2%+4)	
Temperature (°F)	-40°F~1832°F	±(2%+8)	

Features

Display count		6000	6000
Sampling rate		3 times/s	3 times/s
True RMS		✓	✓
AC frequency response		45~1000Hz	45~1000Hz
Live wire test		✓	
LED test			12V
Audible/visual alarm	V/A/Cap/Diode/hFE/NCV/Live (UT89X)/LED (UT89XD)		
Diode/Continuity test		✓	✓
Transistor hFE		✓	✓
Dual range NCV test		✓	✓
Auto power off		✓	✓
Low battery indication		✓	✓
Data hold		✓	✓
Function selection	SELECT	✓	✓
Flashlight		✓	✓
Auto backlight		✓	✓

Power	1.5V battery (R03) x 4
Display	61mm x 36mm
Product color	Red and grey
Product net weight	345g
Product size	189mm x 89mm x 53mm
Standard accessories	Batteries, test lead, k-type temperature probe (UT89X)
Standard individual packing	Gift box, English manual
Standard quantity per carton	20pcs
Standard carton measurement	450mm x 355mm x 340mm
Standard carton gross weight	12.2kg

- 1000V AC/DC; 20A AC/DC
- True RMS, 6000 count
- Dual range NCV test which quickly identifies neutral and live wires through light intensity
- LED measurement (UT89XD)
- Audible/visual alarm
- Capacitor charging indicator
- Ergonomic design
- Double injection molding
- 1m drop proof
- Flashlight; Auto backlight



● UT89X

UT890 SERIES

TRMS DIGITAL MULTIMETERS



Patent pending

The UT890C/D+ 6000-count true RMS digital multimeters are designed with large LCD display. The maximum measurable capacitance is 100mF, with fast response time of less than 12s. The NCV and continuity measurement have acousto-optic indications. UT890D+ has a LIVE function for distinguishing between live and neutral wires. In addition, it is equipped with the automatic fuse blown detection and high voltage protection.

Applications:

Electrical switchboards; HVAC systems; Electrical circuit faults detection; Installation or maintenance of electronics/factory equipment; Electronics component; development, circuit board design; Users who need to distinguish between neutral/live wire frequently

	Range	UT890C	UT890D+
DC voltage	600mV/6V/60V/600V/1000V	$\pm(0.7\%+3)$	$\pm(0.7\%+3)$
AC voltage	6V/60V/600V/750V	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$
ACV Frequency	10Hz~10kHz	$\pm(0.1\%+5)$	$\pm(0.1\%+5)$
DC current	60μA/600μA/6mA/60mA/600mA/20A	$\pm(0.8\%+8)$	$\pm(0.8\%+8)$
AC current	60μA/600μA/6mA/60mA/600mA/20A	$\pm(1\%+12)$	$\pm(1\%+12)$
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$
Capacitor	6nF/60nF/600nF/6μF/60μF/600μF/6mF/60mF/100mF	$\pm(3\%+10)$	$\pm(3\%+10)$
Frequency	9.999Hz~9.999MHz	$\pm(0.1\%+5)$	$\pm(0.1\%+5)$
Temperature	-40°C~1000°C/-40°F~1832°F	$\pm(1\%+3)$	

Features

Display count		6000	6000
Manual range		✓	✓
NCV/hFE		✓	✓
Diode test/Continuity test		✓	✓
Live			✓
True RMS		✓	✓
Fuse blowing alarm (mA only)	Input overload or misoperation	✓	✓
Acousto-optic indication (NCV/continuity)		✓	✓
High voltage false detection	1000Vrms	✓	✓
Current (AC/DC) mode memory		✓	✓
Over-current alarm	$\geq 20A$	✓	✓
Low battery indication	$\leq 2.5V$	✓	✓
Data hold/REL		✓	✓
Max/Min		✓	✓
Auto power off		✓	✓
LCD Backlight		✓	✓

Power	1.5V battery (R03) x 2
Display	60mm x 35mm
Product color	Red and grey
Product net weight	346g
Product size	183mm x 88mm x 56mm
Standard accessories	Batteries, test lead, k-type temperature probe (UT890C)
Standard individual packing	Gift box, English manual
Standard quantity per carton	40pcs
Standard carton measurement	645mm x 450mm x 340mm
Standard carton gross weight	23.3kg



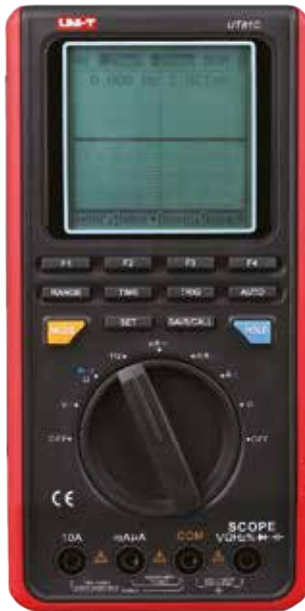
Live and nature wires identification



Fuse blowing alarm (mA only)

UT81 SERIES

SCOPE DIGITAL MULTIMETERS



● UT81C

UT81 series handheld digital oscilloscope multimeters combine oscilloscope and digital multimeter in one. Oscilloscope measurement mode includes signal input, data processing, auto measure, waveform storage, and transfer.

Multimeter mode features AC/DC voltage and current, resistance, diode, continuity, frequency, duty ratio, and capacitance.

	Range	UT81B	UT81C
DMM Specifications			
DC voltage (V)	1000V	±(0.8%+8)	±(0.8%+8)
AC voltage (V)	750V	±(1%+15)	±(1%+15)
DC current (A)	10A	±(1%+8)	±(1%+8)
AC current (A)	10A	±(1.5%+8)	±(1.5%+8)
Resistance (Ω)	40MΩ	±(1%+5)	±(1%+5)
Capacitance (F)	100μF	±(3%+8)	±(3%+8)
Frequency (Hz)	10Hz~10MHz	±(0.1%+3)	±(0.1%+3)
Scope Specifications			
Bandwidth		8MHz	16MHz
Sampling rate		40MS/s	80MS/s
Vertical accuracy		±(5%+1)	±(5%+1)
Vertical sensitivity		20mV/div~500V/div (1-2-5)	
Time-base accuracy		±(0.01%+1)	±(0.01%+1)
Time-base range	UT81B: 100ns/div -5s/div (1-2-5); UT81C: 50ns/div - 5s/div(1-2-5)		
Features			
Display count		4000	4000
Auto range		√	√
Duty cycle	0.1~99.9%	√	√
Diode		√	√
Auto power off		√	√
Continuity buzzer		√	√
Display	160 x 160 monochrome	√	√
Trigger types	Auto run/Normal/Single shot	√	√
Memory	10 screens and setups	√	√
Contrast and brightness setup		√	√
Low battery indication		√	√
USB interface		√	√
LCD backlight		√	√
Input impedance for DCV	Around 10MΩ	√	√
Power	1.5V battery (R6) x 4		
Display	60mm x 60mm		
Product color	Red and grey		
Product net weight	498g		
Product size	200mm x 100mm x 48mm		
Standard accessories	Batteries, test lead, alligator clip, USB interface cable, PC software CD		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	5pcs		
Standard carton measurement	485mm x 450mm x 260mm		
Standard carton gross weight	UT81B: 9.55kg; UT81C: 6.83kg		
Optional accessories	Scope probe, AC power adaptor		



UT71 SERIES

INTELLIGENT DIGITAL MULTIMETERS



● UT71E

UT71 series can quickly solve complex problems on electronics, factory automation, distribution and electronic engineering equipment. UT71 series can set upper and lower limits, a very useful feature for improving electronics mass production inspection and screening efficiency.

- Adjustable data recording interval (UT71B/C/D/E)
- True RMS, duty cycle, continuity buzzer
- MAX/MIN/REL modes; peak/data hold; analog bar graph
- 4-20mA loop test (UT71B/C/D/E)
- 45Hz~100kHz frequency response
- LCD backlight; misplug alarm
- Auto power off, low battery indication
- Data logging
- Auto and manual ranges selectable
- USB interface, Bluetooth
- 2500W power measurement (UT71E)
- Temperature measurement, k-type (UT71B/C/D/E)



- Smart phone APP: iDMM
- Works with UT-D07A Bluetooth adaptor
- Download from Apple Store or Google Play Store

	Range	UT71A	UT71B	UT71C	UT71D	UT71E
DC voltage (V)	1000V	±(0.1%+8)	±(0.05%+5)	±(0.025%+5)	±(0.025%+5)	±(0.025%+5)
AC voltage (V)	1000V	±(0.8%+40)	±(0.6%+40)	±(0.4%+30)	±(0.4%+30)	±(0.4%+30)
DC current (A)	10A	±(0.2%+20)	±(0.15%+20)	±(0.1%+15)	±(0.1%+15)	±(0.1%+15)
AC current (A)	10A	±(1%+15)	±(0.8%+15)	±(0.7%+15)	±(0.7%+15)	±(0.7%+15)
Resistance (Ω)	20MΩ	±(0.5%+20)	±(0.4%+20)			
	40MΩ			±(0.3%+8)	±(0.3%+8)	±(0.3%+8)
Capacitance (F)	20mF	±(1.5%+20)	±(1.2%+20)			
	40mF			±(1%+20)	±(1%+20)	±(1%+20)
Frequency (Hz)	20Hz~200MHz	±(0.1%+15)	±(0.1%+15)			
	40Hz~400MHz			±(0.01%+8)	±(0.01%+8)	±(0.01%+8)
Temperature	-40°C~1000°C		±(1%+30)	±(1%+30)	±(1%+30)	±(1%+30)
	-40°F~1832°F		±(1.5%+50)	±(1.5%+50)	±(1.5%+50)	±(1.5%+50)
Display count		20000	20000	40000	40000	40000
Power	9V battery (6F22)					
Display	73mm x 50mm					
Product color	Red and grey					
Product net weight	384g					
Product size	200mm x 93mm x 40mm					
Standard accessories	Battery, test leads, alligator clip, test clips, USB interface cable, PC software CD, carrying bag, point contact temperature probe (UT71B/UT71C/UT71D/UT71E), power adaptor (UT71E)					
Standard individual packing	Gift box, English manual					
Standard quantity per carton	10pcs					
Standard carton measurement	UT71A/UT71B/UT71C/UT71D: 515mm x 380mm x 205mm; UT71E: 540mm x 360mm x 275mm					
Standard carton gross weight	UT71A/UT71B/UT71C/UT71D: 9.8kg; UT71E: 12.5kg					

UT61 SERIES

MODERN DIGITAL MULTIMETERS



UT61 series complies with CE, ETL, and GS standards. This series is all auto range with selectable True RMS models (UT61D/E). This series has an abundant of features and is combined with high safety rating of CAT IV 600V. It is suitable for advanced electronics and electrical users.

- Auto range
- MAX/MIN/REL mode
- Auto power off (UT61A/B/C/D)
- LCD backlight (UT61A/B/C/D)
- RS-232 and USB interface (UT61B/C/D/E)
- Analog bar graph
- NCV (UT61A)
- Low battery indication
- True RMS (UT61D/E)
- EF (Electric Field) detection (UT61A)
- Transistor measurement (UT61A)
- Peak value/hold (UT61E)
- K-type temperature probe (UT61B/C)
- Diode/continuity buzzer
- Data hold
- Input protection



● UT61E

	Range	UT61A	UT61B	UT61C	UT61D	UT61E
DC voltage (V)	1000V	±(0.5%+1)	±(0.5%+1)	±(0.5%+1)	±(0.5%+1)	±(0.1%+2)
AC voltage (V)	750V	±(1%+3)	±(1%+3)	±(1%+3)	±(1%+3)	±(0.8%+10)
DC current (A)	10A	±(1%+2)	±(1%+2)	±(1%+3)	±(1%+3)	±(0.5%+10)
AC current (A)	10A	±(1.2%+5)	±(1.2%+5)	±(1.2%+5)	±(1.2%+5)	±(0.8%+10)
Resistance (Ω)	40MΩ	±(1%+2)	±(1%+2)			
	60MΩ			±(1%+2)	±(1%+2)	
	220MΩ					±(0.5%+10)
Capacitance (F)	4000μF	±(3%+5)	±(3%+5)	±(3%+5)	±(3%+5)	
	220mF					±(3%+5)
Frequency (Hz)	10Hz~10MHz	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)	
	10Hz~220MHz					±(0.01%+5)
Temperature	-40 °C~1000°C		±(1.2%+3)	±(1.2%+3)		
	-40°F~1832°F		±(1.2%+4)	±(1.2%+4)		

Features

Display count		4000	4000	6000	6000	22000
Bandwidth (Hz)		45Hz~400Hz	45Hz~400Hz	45Hz~1kHz	45Hz~3kHz	45Hz~10kHz
Duty cycle	0.1%~99.9%	√	√	√	√	√
Power	9V battery (6F22)					
Display	65mm x 43mm					
Product color	Red and grey					
Product net weight	370g					
Product size	180mm x 87mm x 47mm					
Standard accessories	Battery, test leads, multi-purpose socket, RS-232 interface cable (UT61B/UT61C/UT61D/UT61E), PC software CD (UT61B/UT61C/UT61D/UT61E), point contact temperature probe (UT61B/UT61C)					
Standard individual packing	Gift box, English manual					
Standard quantity per carton	20pcs					
Standard carton measurement	455mm x 335mm x 345mm					
Standard carton gross weight	UT61A: 12.7kg; UT61B: 13.97kg; UT61C: 13kg; UT61D: 14.5kg; UT61E: 12.9kg					
Optional accessories	UT61B/UT61C/UT61D/UT61E: USB interface cable					

UT39+ SERIES

DIGITAL MULTIMETERS



UT39+ series modern digital multimeters are portable devices designed for the electrical industry. They feature overvoltage and overcurrent alarm and high voltage protection, triggered during faulty operation. UT39C+ is suitable for HVACR maintenance with its temperature measurement feature. Designed according to CAT II 1000V/CAT III 600V safety standards.



● UT39C+



Super soft Insulator, meter is able to withstand 2m drop



Large screen



High quality dial



Collapsible support

	Range	UT39A+	UT39C+
DC voltage (V)	400mV/4V/40V/400V/1000V	$\pm(0.5\%+5)$	$\pm(0.5\%+5)$
AC voltage (V)	4V/40V/400V/750V	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$
DC current (A)	40uA/400uA/4mA/40mA/400mA/10A	$\pm(0.8\%+3)$	
	400uA/400mA/10A		$\pm(0.8\%+3)$
AC current (A)	40mA/400mA/10A	$\pm(1\%+2)$	
	4mA/400mA/10A		$\pm(1\%+2)$
Resistance (Ω)	400 Ω /4000 Ω /40k Ω /400k Ω /4M Ω /200M Ω	$\pm(0.8\%+2)$	
	400 Ω /4000 Ω /40k Ω /400k Ω /4M Ω /40M Ω		$\pm(0.8\%+2)$
Capacitance (F)	4nF/40nF/400nF/4uF/40uF/400uF/4mF/10mF	$\pm(4\%+5)$	$\pm(4\%+5)$
Frequency (Hz)	10Hz~1MHz		$\pm(0.1\%+4)$
Temperature	-40°C~1000°C		$\pm 4^{\circ}\text{C}$
	-40°F~1832°F		$\pm 5^{\circ}\text{F}$

Features

Display count		4000	4000
Transistor hFE		✓	✓
NCV			✓
Diode		✓	✓
Frequency response	40Hz~400Hz	✓	✓
Range selection		Manual	Manual
Continuity test		✓	✓
Data hold		✓	✓
Backlight		✓	✓
Low battery indication		✓	✓
Auto power off		✓	✓

Power	1.5V battery (R03) × 2
Display	56.5mm x 36mm
Product color	Red and grey
Product net weight	330g
Product size	175mm x 83mm x 53mm
Standard accessories	Test leads, temperature probe (UT39C+)
Standard individual packing	Gift box, English manual
Standard quantity per carton	30pcs
Standard carton measurement	390mm x 355mm x 340mm
Standard carton gross weight	14.5kg

UT33+ SERIES

PALM SIZE DIGITAL MULTIMETERS



The new generation UT33+ series redefines the performance standard for entry-level digital multimeters. Our innovative industrial design ensures that these products can withstand 2 meters drop. The new LCD display layout provides a better user experience. This series ensures that users can work safely in CAT II 600V environment. This series' special features are:
2mF capacitance test (UT33A+); battery test (UT33B+);
temperature measurement function (UT33C+); non-contact voltage (NCV) test (UT33D+).

- Clear LCD display
- Comfortable protective cover, with test lead storage groove
- 2 meters drop test
- Loud buzzer sound; ergonomic design
- Unique battery test feature: Displays 'good', 'low', and 'bad' statuses when testing 1.5V/9V/12V batteries (UT33B+)



● UT33A+

	Range	UT33A+	UT33B+	UT33C+	UT33D+
DC voltage (V)	200mV/2V/20V/200V/600V	$\pm(0.5\%+2)$	$\pm(0.5\%+2)$	$\pm(0.5\%+2)$	$\pm(0.5\%+2)$
AC voltage (V)	600V	$\pm(0.7\%+3)$			
	200V/600V		$\pm(1.2\%+3)$	$\pm(1.2\%+3)$	$\pm(1.2\%+3)$
DC current (A)	200μA/2000μA/20mA/200mA/2A/10A	$\pm(1\%+2)$			
	200μA/200mA/10A		$\pm(1\%+2)$		
	2000μA/20mA/200mA/10A			$\pm(1\%+2)$	$\pm(1\%+2)$
AC current (A)	200μA/2000μA/20mA/200mA/2A/10A	$\pm(1.2\%+3)$			
Resistance (Ω)	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/200MΩ	$\pm(0.8\%+2)$			
	200Ω/2kΩ/20kΩ/200kΩ/20MΩ/200MΩ				$\pm(0.8\%+2)$
	200Ω/2kΩ/20kΩ/200kΩ/20MΩ		$\pm(0.8\%+2)$	$\pm(0.8\%+2)$	
Capacitance (F)	2mF	$\pm(4\%+8)$			
Temperature	-40°C~1000°C			$\pm(1\%+4)$	
	-40°F~1832°F			$\pm(1.5\%+5)$	

Features

Display count		2000	2000	2000	2000
Auto power off/Auto backlight off		√	√	√	√
Diode test/Continuity buzzer		√	√	√	√
2m drop test/ Test probe holder		√	√	√	√
Range selection		Auto	Manual	Manual	Manual
Battery test			1.5V/9V/12V		
NCV					√

Power	1.5V battery (R03) x 2
Display	66mm x 51mm
Product color	Red and grey
Product net weight	206g (batteries included)
Product size	134mm x 77mm x 47mm
Standard accessories	Batteries, test leads, k-type thermocouple (UT33C+)
Standard individual packing	Gift box, English manual
Standard quantity per carton	60pcs
Standard carton measurement	640mm x 310mm x 350mm
Standard carton gross weight	UT33A+: 18.6kg; UT33B+: 19.4kg; UT33C+: 20.2kg; UT33D+: 19.8kg

DIGITAL CLAMP METERS

Clamp meters are handheld devices with multimeter functions and able to measure AC/DC current directly without breaking the electrical conductor. Today's clamp meters are multi-functional designed and used in HVAC/R, electrical vehicles, electrical installation, motor inspection, engineering R&D, and many other applications. UNI-T clamp meters are well known for its performance, practicality, and reliability.



UT219 SERIES PROFESSIONAL CLAMP METERS



● UT219DS

- Auto/Manual range
- True RMS
- Auto power off
- MAX/MIN
- Low battery indication
- LoZ input for ghost voltage measurement
- Flashlight and auto backlight
- 3-phase motor sequence test (UT219M/DS)
- Temperature and μ A measurements (flame sensor) (UT219M/DS)
- Inrush current (UT219DS)
- AC+DC voltage (UT219DS)
- V+A dual display (UT219DS)

UT219 series is 600A true RMS professional clamp meter with CAT IV 600V rating. It is industrially designed with IP54 rating and able to withstand 2 meters drop test for measurement in harsh environments. This series is suitable for professional electricians, HVAC/R and motor technicians.

	Range	UT219E	UT219M	UT219DS
AC current (A)	600A	$\pm (1.8\%+6)$	$\pm (1.8\%+6)$	$\pm (1.8\%+6)$
DC current (A)	600A			$\pm (1.8\%+6)$
	2000 μ A		$\pm (0.9\%+6)$	$\pm (0.9\%+6)$
AC voltage (V)	1000V	$\pm (1\%+6)$	$\pm (1\%+6)$	$\pm (1\%+6)$
DC voltage (V)	1000V	$\pm (0.6\%+3)$	$\pm (0.6\%+3)$	$\pm (0.6\%+3)$
LoZ ACV	600V	$\pm (2.5\%+6)$	$\pm (2.5\%+6)$	$\pm (2.5\%+6)$
Resistance (Ω)	60M Ω	$\pm (1\%+3)$	$\pm (1\%+3)$	$\pm (1\%+3)$
Capacitance (F)	60mF	$\pm (4\%+7)$	$\pm (4\%+7)$	$\pm (4\%+7)$
Frequency (Hz)	10Hz~10MHz	$\pm (0.1\%+6)$		
	600Hz~40MHz		$\pm (0.1\%+5)$	$\pm (0.1\%+6)$
Duty cycle	0.1% ~ 99.9%	$\pm (2.6\%+7)$		$\pm (2.6\%+7)$
Temperature	-40~1000°C		$\pm (2\%+5^{\circ}\text{C})$	$\pm (2\%+5^{\circ}\text{C})$
	-40~1832°F		$\pm (2\%+9^{\circ}\text{F})$	$\pm (2\%+9^{\circ}\text{F})$

Features

Display count		6000	6000	6000
Jaw opening		33mm	33mm	33mm
AC current frequency response		40Hz~400Hz	40Hz~400Hz	40Hz~400Hz
AC voltage frequency response		40Hz~400Hz	40Hz~400Hz	40Hz~1kHz
3-phase motor sequence test	600V		✓	✓
Low pass filter	1kHz, 3db attenuation			✓
V+A displays voltage and current at the same time				✓
Diode test		12V	3V	3V
Measurement sampling rate		3 times/s	3 times/s	5 times/s
Analog bar sampling rate		10 times/s		20 times/s
Analog bar		31 segment		31 segment
Display interface (LCD)		Single	Single	Dual
Data hold (H)/Relative mode (REL)		✓	✓	✓
ZERO mode		✓	✓	✓
Function selection (SELECT)		✓	✓	✓
Auto backlight/2m drop test		✓	✓	✓
IP rating		IP54	IP54	IP54
Input impedance	$\geq 10\text{M}\Omega$	✓	✓	✓

Power	1.5V battery (R03) x 3
Display	35mm x 31mm
Product color	Red and grey
Product net weight	310g
Product size	234.6mm x 82mm x 47mm
Standard accessories	Test leads, batteries, carrying bag, PC software CD, point contact temperature probe (UT219M/UT219DS)
Standard individual packing	Gift box, blister, English manual (German, French, Spanish optional)
Standard quantity per carton	10pcs
Standard carton measurement	490mm x 295mm x 330mm
Standard carton gross weight	UT219E: 8kg; UT219M/UT219DS: 8.2kg

UT200+ SERIES

400-600A DIGITAL CLAMP METERS



UT201+/202+/202A+
(AC current only)



UT203+/204+
(AC/DC current)

**True
RMS**

True RMS

0.04A

Small current
measurement



60mF large capacitance
measurement (UT202A+/204+)



Larger screen and
display digits



LCD backlight

Live

Neutral/live wire test
(UT202A+/204+)



High voltage (600V) frequency
measurement



NCV multi-segment display and
audio/visual alarm



600V protection across all
range



In current and voltage range
measurement. Accuracy guarantee
range 1%~100%



Industrial electricity



Residential electricity



Air conditioning



Automobile

	Range	UT201+	UT202+	UT202A+	UT203+	UT204+
AC current (A)	0.04~400A	±(2%+10)	±(2%+10)		±(2%+5)	
	0.06~600A			±(2%+10)		±(2%+5)
AC current frequency (Hz)	50Hz~100Hz	±(1%+5)	±(1%+5)	±(1%+5)		
DC current (A)	0.04~400A				±(2%+5)	
	0.06~600A					±(2%+5)
AC voltage (V)	600V	±(0.8%+5)	±(0.8%+5)	±(0.8%+5)	±(0.8%+5)	±(0.8%+5)
AC voltage frequency (Hz)	10Hz~10kHz	±(1%+5)	±(1%+5)	±(1%+5)		
	10Hz~60kHz				±(0.5%+2)	±(0.5%+2)
DC voltage (V)	600V	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)	±(0.5%+2)
Resistance (Ω)	40MΩ	±(0.8%+2)	±(0.8%+2)		±(0.8%+2)	
	60MΩ			±(0.8%+2)		±(0.8%+2)
Capacitance (F)	4mF		±(4%+5)			
	40mF				±(4%+5)	
	60mF			±(4%+5)		±(4%+5)
Temperature (°C)	-40°C~1000°C		±(1.5%+5)			±(1.5%+5)
Frequency (Hz)	10Hz~10MHz			±(1%+5)	±(0.1%+4)	±(0.1%+4)

Features

Display count		4000	4000	6000	4000	6000
Auto range		√	√	√	√	√
Jaw opening		28mm	28mm	28mm	28mm	28mm
True RMS		√	√	√	√	√
NCV		√	√	√	√	√
Live wire test				√		√
Continuity test		√	√	√	√	√
Diode		√	√	√	√	√
MAX/MIN		√	√	√	√	√
Relative mode			√	√	√	√
Zero mode					√	√
Data hold		√	√	√	√	√
Low battery indication		√	√	√	√	√
Auto power off		√	√	√	√	√

Power	1.5V battery (R03) x 2
Display	37mm x 25mm
Product color	Red and grey
Product net weight	UT201+/202+/202A+: 248g; UT203+/204+: 235g
Product size	215mm x 63mm x 36mm
Standard accessories	Batteries, test leads, Themocouple (UT202+/204+)
Standard individual packing	Gift box, carrying bag, English manual
Standard quantity per carton	40pcs
Standard carton measurement	485mm x 295mm x 385mm
Standard carton gross weight	UT201+: 16.6kg; UT202+: 17.1kg; UT203+: 16.1kg; UT202A+/UT204+: 16.7kg;

UT200 SERIES

1000A TRUE RMS DIGITAL CLAMP METERS



Patent pending



Intertek



UT200 series are 6000-count digital clamp meters with auto range, large LCD, true RMS, auto scale memory, and NCV functions. They conform to CAT III 1000V/CAT IV 600V safety rating and certified by CE/ETL. The UT206B, UT207B, and UT208B come with LoZ mode for eliminating 'ghost' voltage, LPF ACV function for measuring INV and VFD voltage, and inrush current mode for capturing transient current. The UT206B and UT208B also feature high-precision temperature measurement with 0.1 °C resolution, and can be equipped with a flexible current probe to extend the AC current measurement range to 3000A.



Flashlight button: Short press this button to turn on/off the flashlight.



Flexible current probe (optional) to extend the AC current measurement range to 3000A (UT206B/208B)



Inrush current capture (UT206B/207B/208B)



NCV Multi-Segment Display and audio/visual alarm



True RMS



Auto backlight



NCV



Function retention

	Range	UT205E	UT206B	UT207B	UT208B
AC current (A)	1000A	±(2%+5)	±(2%+5)	±(2%+5)	±(2%+5)
DC current (A)	1000A			±(2%+5)	±(2%+5)
AC current frequency response		50Hz~60Hz	50Hz~60Hz	40Hz~400Hz	40Hz~400Hz
Inrush current (A)	1000A		±(10%+10)	±(10%+10)	±(10%+10)
AC voltage (V)	6V	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)	±(1.2%+3)
	60V/600V/1000V	±(1%+8)	±(1%+8)	±(1%+8)	±(1%+8)
DC voltage (V)	600mV	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
	6V/60V	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)
	600V	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)
	1000V	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)	±(0.5%+5)
Low pas filter (LPF ACV)	600V/1000V		±(2%+5)	±(2%+5)	±(2%+5)
AC voltage frequency response		40Hz~400Hz	40Hz~400Hz	40Hz~400Hz	40Hz~400Hz
LoZ ACV	600V/1000V		±(2%+5)	±(2%+5)	±(2%+5)
Resistance (Ω)	600Ω	±(1%+3)	±(1%+3)	±(1%+3)	±(1%+3)
	6KΩ/60KΩ/600KΩ	±(1%+2)	±(1%+2)	±(1%+2)	±(1%+2)
	6MΩ/60MΩ	±(2%+8)	±(2%+8)	±(2%+8)	±(2%+8)
Capacitance (F)	60nF	±(4%+25)	±(4%+25)	±(4%+25)	±(4%+25)
	600nF/6μF/60μF/600μF	±(4%+5)	±(4%+5)	±(4%+5)	±(4%+5)
	6mF/60mF	±(10%+9)	±(10%+9)	±(10%+9)	±(10%+9)
Temperature (°C)	-40°C~300°C		±(1%+20)		±(1%+20)
	300°C~1000°C		±(1%+2)		±(1%+2)
Low voltage frequency (Hz)	10Hz~1MHz	±(0.1%+3)	±(0.1%+3)	±(0.1%+3)	±(0.1%+3)
Duty cycle (%)	10%~90%	±(2.6%+7)	±(2.6%+7)	±(2.6%+7)	±(2.6%+7)

Features

Display count		6000	6000	6000	6000
Jaw opening		42mm	42mm	42mm	42mm
Current frequency		50Hz~60Hz	50Hz~60Hz	40Hz~400Hz	40Hz~400Hz
High voltage frequency		40Hz~400Hz	40Hz~400Hz	40Hz~400Hz	40Hz~400Hz
Analog bar			31	31	31
Auto power off/Continuity test		√	√	√	√
Auto/Manual range		√	√	√	√
Low battery indication/Diode test		√	√	√	√
Relative mode/Data hold/MAX/MIN		√	√	√	√
Function selection/Flashlight		√	√	√	√
Wake-up function		√	√	√	√
Auto power off current: <50μA		√	√	√	√
Flexible current probe (optional)	Extends to 3000A		√		√
Zero mode				√	√
Input impedance (ACV/DCV)	≥10MΩ	≥10MΩ	≥10MΩ	≥10MΩ	≥10MΩ
Power	1.5V battery (R03) x 3				
Display	43mm x 45mm				
Product color	Red and grey				
Product net weight	UT205E/UT206B: 465g; UT207B/UT208B: 420g				
Product size	272mm x 81mm x 43.5mm				
Standard accessories	Test leads, batteries, point contact temperature probe (UT206B/UT208B)				
Standard individual packing	Gift box, carrying bag, English manual				
Standard quantity per carton	UT205E/UT206B/UT207B: 10pcs; UT208B: 5pcs				
Standard carton measurement	UT205E/UT206B/UT207B: 355mm x 330mm x 315mm; UT208B: 355mm x 330mm x 165mm				
Standard carton gross weight	UT205E/UT206B/UT207B: About 7.1kg; UT208B: About 4.5kg				

UT210 SERIES

MINI CLAMP METERS



● UT210E

UT210 series mini clamp meters are designed to work well in limited spaces. These are essential tools for mechanical and electrical equipment maintenance, home appliance installation and residential electrical maintenance.

- VFC, low pass filter (**UT210E**)
- NCV (**UT210B/C/D/E**)
- MAX/MIN (**UT210B/C**)
- Ergonomic and lightweight
- Auto range, 2~3 times/s sampling rate
- True RMS (**UT210B/C/D/E**)
- ZERO mode (**UT210D/E**)
- LCD backlight, data hold
- Auto power off, low battery indication
- Relative mode (**UT210B**)



	Range	UT210A	UT210B	UT210C	UT210D	UT210E
AC current (A)	200A	±(2.5%+20)	±(2.5%+20)	±(2%+10)	±(2.5%+8)	
	100A					±(2.5%+5)
DC current (A)	200A				±(2%+3)	
	100A					±(2%+3)
AC voltage (V)	600V			±(1%+3)	±(1%+3)	±(1%+3)
DC voltage (V)	600V			±(0.7%+3)	±(0.7%+3)	±(0.7%+3)
Resistance (Ω)	20MΩ			±(1%+2)	±(1%+2)	±(1%+2)
Frequency (Hz)	60kHz				±(0.1%+4)	
Capacitance (F)	20mF			±(4%+5)	±(4%+5)	±(4%+5)
Temperature	-40~1000°C			±(1%+3)	±(1%+3)	
	-40~1832°F			±(1.5%+5)	±(1.5%+5)	

Features

Display count		2000	2000	2000	2000	2000
Auto range		√	√	√	√	√
Continuity buzzer				√	√	√
Jaw opening		16mm	16mm	17mm	17mm	17mm
Diode test	Around 3.0V			√	√	√
Power	1.5V battery (R03) x 2					
Display	39.3mm x 26.5mm					
Product color	Red and grey					
Product net weight	UT210A/B: 150g (batteries included); UT210C/D/E: 170g					
Product size	UT210A/B: 158mm x 60mm x 33.5mm; UT210C/D/E: 175mm x 60mm x 33.5mm					
Standard accessories	Batteries, test leads (UT210C/UT210D/UT210E), point contact temperature probe (UT210C/UT210D)					
Standard individual packing	Gift box, English manual, carrying bag (UT210C/UT210D/UT210E)					
Standard quantity per carton	40pcs					
Standard carton measurement	UT210A/B: 345mm x 245mm x 300mm; UT210C/D/E: 385mm x 345mm x 305mm					
Standard carton gross weight	UT210A: 8kg; UT210B: 7.2kg; UT210C: 14.8kg; UT210D: 8.2kg; UT210E: 13.6kg					

UT211B 60A MINI CLAMP METER



● UT211B



UT211B 60A mini clamp meter is a high precision tool designed with the resolution of 0.1mA. UT211B is perfect for anyone requiring high precision and accurate results when working with electronics, such as troubleshooting solar power systems current load, electrical cars, etc. It is ergonomically designed and also lightweight, making it a convenient tool for working in tight spaces.

	Range	UT211B
AC current (A)	60A (0.1mA resolution)	$\pm(1.5\%+10)$
DC current (A)	60A	$\pm(2\%+3)$
AC voltage (V)	600V	$\pm(0.8\%+3)$
DC voltage (V)	600V	$\pm(0.7\%+3)$
Resistance (Ω)	60M Ω	$\pm(0.8\%+2)$
Capacitance (F)	62mF	$\pm(4\%+5)$
Features		
Display count		6000
Auto range		✓
True RMS		✓
Diode test	Around 3.0V	✓
V.F.C.		✓
NCV		✓
Data hold		✓
Zero mode		✓
LCD backlight		✓
Auto power off	Around 15 minutes	✓
Continuity buzzer		✓
Low battery indication	$\leq 2.5V$	✓
Input protection		✓
Input impedance for DCV	$\geq 10M\Omega$	✓
Power	1.5V battery (R03) x 2	
Display	39.3mm x 26.5mm	
Product color	Red and grey	
Product net weight	170g	
Product size	175mm x 60mm x 33.5mm	
Standard accessories	Batteries, test leads	
Standard individual packing	Gift box, carrying bag, English manual	
Standard quantity per carton	20pcs	
Standard carton measurement	385mm x 335mm x 165mm	
Standard carton gross weight	13.6kg	

UT213 SERIES

400A DIGITAL CLAMP METERS



● UT213C



UT213 series are 400A digital clamp meters with CAT III 600V safety standards. These meters are designed for electricians and HVAC/R technicians. The built-in flashlight also makes these meters useful tools when working in dark environments.

	Range	UT213A	UT213B	UT213C
AC current (A)	400A	±(1.8%+9)	±(1.8%+9)	±(2.5%+5)
DC current (A)	400A			±(2%+3)
AC voltage (V)	600V	±(1.2%+5)	±(1.2%+5)	±(1.2%+5)
DC voltage (V)	600V	±(0.8%+1)	±(0.8%+1)	±(0.8%+3)
Resistance (Ω)	40MΩ	±(1%+2)	±(1%+2)	±(1%+2)
Capacitance (F)	100μF	±(4%+5)		
	40mF		±(4%+5)	±(4%+5)
Frequency	10Hz~1MHz	±(0.1%+4)	±(0.1%+4)	±(0.1%+4)
Temperature	-40°C~1000°C		±(1%+3)	±(1%+3)
	-40°F~1832°F		±(1%+6)	±(1%+6)

Features

Display count		4000	4000	4000
Auto range		√	√	√
Jaw opening		30mm	30mm	30mm
True RMS			√	√
Diode		Around 1.5V	Around 3.0V	Around 3.0V
NCV		√	√	√
Data hold		√	√	√
Relative mode		√	√	√
MAX/MIN			√	√
LCD backlight		√	√	√
Flashlight		√	√	√
Auto power off		√	√	√
Continuity buzzer		√	√	√
Low battery indication	≤3.6V	√	√	√
Input protection		√	√	√
Input impedance for DCV	≥10MΩ	√	√	√
Power	1.5V battery (R03) x 3			
Display	38mm x 24mm			
Product color	Red and grey			
Product net weight	UT213A/B: 280g; UT213C: 231.7g			
Product size	220mm x 75mm x 40mm			
Standard accessories	Batteries, test leads, point contact temperature probe (UT213B/UT213C)			
Standard individual packing	Gift box, carrying bag, English manual			
Standard quantity per carton	20pcs			
Standard carton measurement	485mm x 345mm x 205mm			
Standard carton gross weight	UT213A: 9.1kg; UT213B: 9.8kg; UT213C: 9.7kg			

UT216 SERIES

600A TRUE RMS DIGITAL CLAMP METERS



● UT216D



UT216 series digital clamp meters are designed for measuring high frequency currents (up to 400Hz) in railways and aerospace, server rooms, IT systems, etc. Its double injection design gives users a more comfortable grip and enhanced durability.

UT216' s 6000 count display also provides precise readings for users.

	Range	UT216A	UT216B	UT216C	UT216D
AC current (A)	600A	± (2.5%+5)	± (2.5%+5)	± (2.5%+5)	± (2.5%+5)
AC current frequency response		50/60Hz	40~400Hz	40~400Hz	40~400Hz
DC current (A)	600A			± (2.5%+5)	± (2.5%+5)
AC voltage (V)	750V	± (1.2%+5)	± (1.2%+5)	± (1.2%+5)	± (1.2%+5)
AC voltage frequency response		40~400Hz	40~400Hz	40~400Hz	45~400Hz
DC voltage (V)	1000V	± (0.8%+3)	± (0.8%+3)	± (0.8%+3)	± (0.8%+3)
Resistance (Ω)	60MΩ	± (1%+2)	± (1%+2)	± (1%+2)	± (1%+2)
Capacitance (F)	60mF	± (4%+5)	± (4%+5)	± (4%+5)	± (4%+20)
Frequency (Hz)	10Hz~1MHz		± (0.1%+4)	± (0.1%+4)	± (0.1%+4)
Temperature (°C)	-40°C~1000°C			± (3%+5)	± (3%+5)
Temperature (°F)	-40°F~1832°F			± (3%+5)	± (3%+5)

Features

Display count		6000	6000	6000	6000
Auto range		√	√	√	√
Jaw opening		30mm	30mm	30mm	30mm
True RMS		√	√	√	√
Diode	Around 3.0V	√	√	√	√
VFC			√	√	√
NCV		√	√	√	√
Data hold		√	√	√	√
Relative mode		√	√	√	√
MAX/MIN		√	√	√	√
LCD backlight		√	√	√	
Inrush current				√	√
OLED display					√
Analog bar graph				61	21
Flashlight		√	√	√	√
Auto power off		√	√	√	√
Continuity buzzer		√	√	√	√
Low battery indication	≤3.6V	√	√	√	√
Input protection		√	√	√	√
Input impedance for DCV	≥10MΩ	√	√	√	√
Power	1.5V battery (R03) x 3				
Display	38mm x 24mm				
Product color	Red and grey				
Product net weight	UT216A: 280g; UT216B/C/D: 231.7g				
Product size	220mm x 75mm x 40mm				
Standard accessories	Batteries, test leads, point contact temperature probe (UT216C/UT216D)				
Standard individual packing	Gift box, carrying bag, English manual				
Standard quantity per carton	20pcs				
Standard carton measurement	485mm x 335mm x 205mm				
Standard carton gross weight	UT216A: 9.4kg; UT216B: 9kg; UT216C: 10kg; UT216D: 9.6kg				

UT220 SERIES

2000A DIGITAL CLAMP METERS



Intertek

UT220 series are 2000A AC/DC digital clamp meters. This series ensures stable performance, safety, and reliability for measuring up to 2000A AC (and DC for UT221) current. It is designed with over-load protection for all ranges, perfect for all professionals measuring currents up to 2000A (2500A for UT222).



● UT221



	Range	UT220	UT221	UT222
AC current (A)	2000A	±(2.5%+5)	±(2.5%+5)	
	2500A			±(1.5%+5)
DC current (A)	2000A		±(2.5%+5)	
	2500A			±(1.5%+5)
AC voltage (V)	750V	±(1.2%+5)	±(1.2%+5)	
	1000V			±(1%+3)
DC voltage (V)	1000V	±(0.8%+1)	±(0.8%+1)	±(0.5%+2)
	20MΩ	±(1%+2)		
Resistance (Ω)	60MΩ			±(1%+2)
	66MΩ		±(1%+2)	
Capacitance (F)	60mF			±(3%+5)
Frequency (Hz)	20MHz		±(0.1%+3)	
	60MHz			±(0.1%+3)
Temperature	-40°C~1000°C			±(1%+10)
	-40°F~1832°F			±(1%+18)

Features

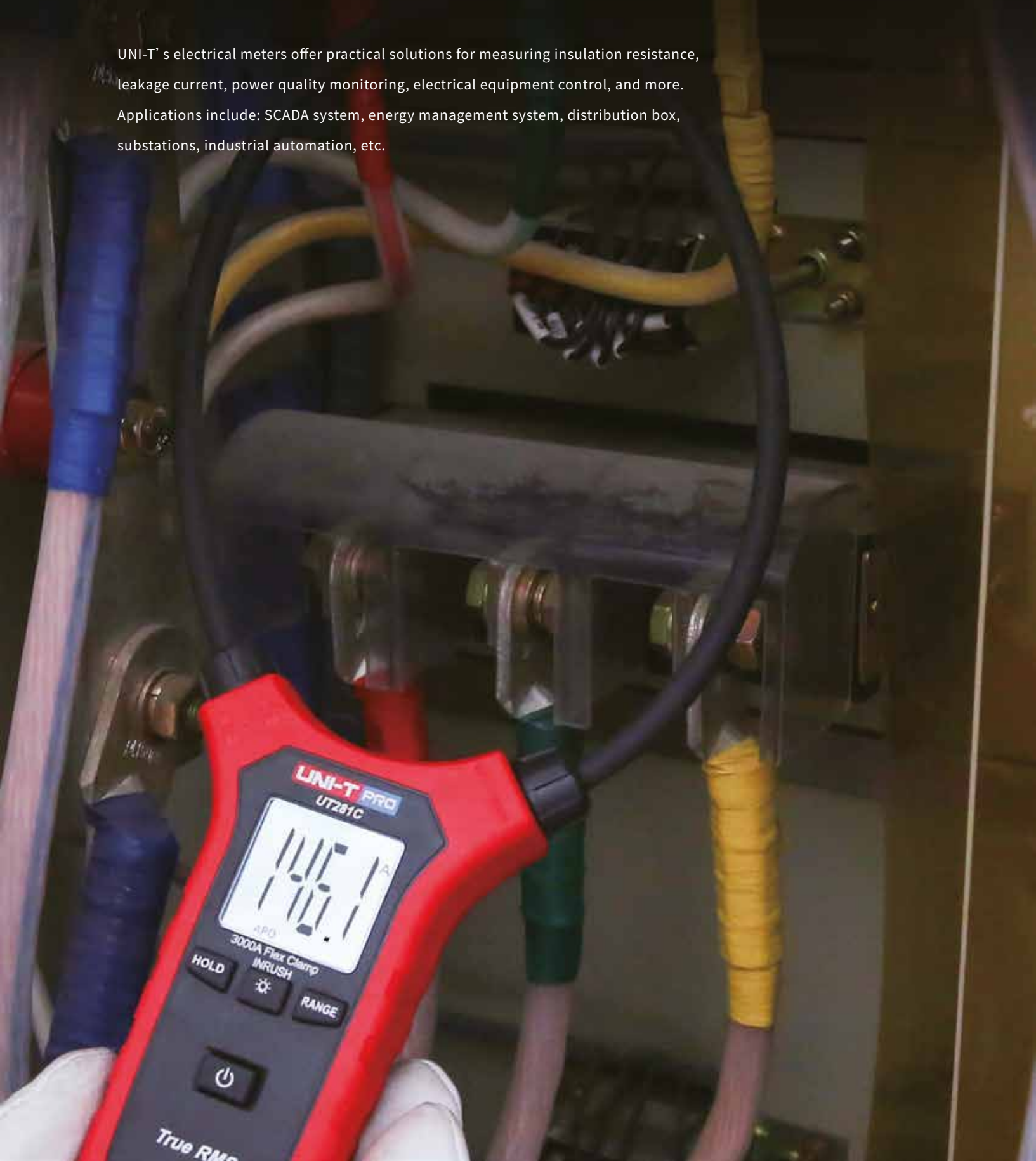
Display count		2000	6000	6000
Auto range/Diode		√	√	√
Jaw opening		63mm	63mm	63mm
True RMS (AC voltage/AC current)			√	√
Duty cycle	10%~90%		√	√
Continuity buzzer		√	√	√
AC+DC				√
Low pass filter			√	√
Inrush current	AC current		√	√
Relative mode			√	√
Data hold/MAX		√	√	√
MIN/I-OUT function			√	√
Data storage				1000
Analog bar graph			66	61
Full icon display		√	√	√
Low battery indication		√	√	√
Input impedance	≥10MΩ	√	√	√

Power	9V battery (6F22)
Display	43mm x 30mm
Product color	Red and grey
Product net weight	UT220: 389g; UT221/UT222: 726g
Product size	298mm x 107mm x 47mm
Standard accessories	Test leads, output cable (UT221/UT222), thermocouple (UT222)
Standard individual packing	Gift box, carrying bag (UT220), tool box (UT221/UT222), English manual
Standard quantity per carton	UT220: 10pcs; UT221/UT222: 5pcs
Standard carton measurement	UT220: 640mm x 305mm x 175mm UT221/UT222: 510mm x 375mm x 320mm
Standard carton gross weight	UT220: 7.52kg; UT221/UT222: 12.1kg

ELECTRICAL POWER TOOLS

UNI-T's electrical meters offer practical solutions for measuring insulation resistance, leakage current, power quality monitoring, electrical equipment control, and more.

Applications include: SCADA system, energy management system, distribution box, substations, industrial automation, etc.



UT243

POWER AND HARMONICS CLAMP METER



UT243 is a hand-held and stable power and harmonics clamp meter, with digital ammeter and power meter functions.

UT243 can measure voltage, current, active/reactive power, power factor, phase angle and more. It can also measure single harmonic components up to 20 times. UT243 can be used in power equipment, circuit measurement, and grid power quality evaluation.



● UT243

	Range	Accuracy
AC current (A)	1000A	$\pm(2\%+5)$
AC voltage (V)	600V	$\pm(1.2\%+5)$
Frequency (Hz)	40Hz~80Hz	$\pm(0.5\%+5)$
Active power (W)	0.01kW~600kW	$\pm(3\%+5)$
Apparent power (VA)	0.01kVA~600kVA	$\pm(3\%+5)$
Reactive power (VAr)	0.01kVAr~600kVAr	$\pm(4\%+5)$
Power factor	0.3~1	± 0.022
Phase angle (°)	0°~360°	$\pm 2^\circ$
Active energy (Wh)	1kWh~9999kWh	$\pm(3\%+2)$
Features		
Display count	10000	
Auto range	√	
Jaw opening	50mm	
True RMS	AC voltage/AC current	
Auto power off	√	
Low battery indication	√	
Data hold	√	
MAX/MIN	√	
Data storage	999	
USB interface	√	
LCD backlight	√	
Full icon display	√	
Harmonic analysis	1~20	
Setup	√	
Single-phase 2-wire	√	
3-phase 3-wire	√	
3-phase 4-wire	√	
Phase sequence test	Positive phase, reverse phase, phase deficiency	
Auto calibration		
Input impedance for DCV	$\geq 5M\Omega$	
Input protection	√	
Power	1.5V battery (R6) x 4	
Display	46mm x 42mm	
Product color	Red and grey	
Product net weight	601g	
Product size	303mm x 112mm x 39mm	
Standard accessories	Batteries, test leads, alligator clips, USB interface cable, PC software CD	
Standard individual packing	Gift box, English manual, tool box	
Standard quantity per carton	5pcs	
Standard carton measurement	510mm x 375mm x 320mm	
Standard carton gross weight	12.3kg	

UT251 SERIES

HIGH SENSITIVITY LEAKAGE CURRENT CLAMP METERS



UT251 series high-accuracy high sensitivity leakage current clamp meters are designed for testing AC leakage current. These high resolution meters are great for applications such as checking leakage current for motor, home appliances and other electrical equipment up to 600A.



● UT251A

	Range	UT251A	UT251C
Leakage current (A)	0.001mA~60A	±(1.5%+5)	±(1.5%+5)
	60A~199.9A		±(2%+5)
	200A~300A		±(3%+5)
	300A~600A		±(4%+5)
	Voltage (Freq.) 0V~600V (50Hz/60Hz)	√	√
	Resolution	1uA	1mA
Features			
Display	4 digits LCD	√	√
Clamp size		25mm x 30mm	35mm x 40mm
Auto range		√	√
RS-232		√	√
Data storage		99	99
Peak/Data hold		√	√
Overload protection	OL	√	√
Auto power off	5 minutes	√	√
Low battery indication	≤7.2V	√	√
Over-range display	OL	√	√
Test mode	Clamp CT, integral mode	√	√
Power	9V battery (6F22)		
Display	32mm x 15mm		
Product color	Red and grey		
Product net weight	120g		
Product size	175mm x 70mm x 38mm		
Standard accessories	Battery, RS-232 interface cable, PC software CD		
Standard individual packing	Gift box, carrying bag, English manual, tool box		
Standard quantity per carton	5pcs		
Standard carton measurement	325mm x 293mm x 110mm		
Standard carton gross weight	2.3kg		

UT253/257 SERIES

LARGE JAWS LEAKAGE CURRENT CLAMP METERS



UT253 series are large current high precision leakage clamp meters that can measure up to 2000A. Its large 80mm×80mm jaw is able to clamp up to 96mm cables or flat-steel ground wires. UT253' s intelligent design can measure leakage current, three-phase voltages and display them on the screen simultaneously. UT257A is a 3000A large current clamp with AC leakage current detection capability. Its large jaw (108mm×148mm) is capable of clamping cables up to 108mm in diameter or 160mm×4mm flat-steel ground wires.

- Auto range; RS-232
- LCD backlight; Data hold
- Over-range display
- Auto power off
- Low battery indication



● UT253A

● UT257A

	Range	UT253A	UT253B	UT257A
Leakage current (A)	0mA~300A	±(1.5%+3)	±(1.5%+3)	
	0mA~499A			±(2%+5)
	300A~1200A	±(2%+3)	±(2%+3)	
	500A~999A			±(3%+5)
	1000A~2999A			±(4%+5)
	1200A~2000A		±(3%+3)	
	Voltage (Freq.)	√	√	
	Resolution	0.01mA	0.1mA	0.1mA
Test range	AC 0.0mA~3200A			√
AC voltage (V)	0.00V~600V	±(1.5%+3)	±(1.5%+3)	
	Frequency: 50Hz/60Hz	√	√	
	Resolution	0.01V	0.01V	

Features

Display mode		128 dots×64 dots LCD		4 digits LCD
Clamp size	UT253A/UT253B: 80mm×80mm UT257A: 108mm×148mm (can clamp ϕ 108mm wires, or 160mm×4mm flat- steel ground wires)			
Data logging		200	200	99
Test mode	Clamp CT, integration	√	√	√
Power	UT253A/UT253B: 1.5V Battery (LR6) x 4; UT257A: 6V DC battery (LR6) x 4			
Display	UT253A/UT253B: 43mm x 29mm; UT257A: 47mm x 28.5mm			
Product color	Red and grey			
Product net weight	UT253A/UT253B: 1kg; UT257A: 1.5kg (with batteries)			
Product size	UT253A/UT253B: 275mm x 145mm x 40mm; UT257A: 350mm x 180mm x 55mm			
Standard accessories	Batteries, test leads (3 red, 1 black) (UT253A/UT253B), RS-232 interface cable, PC software CD			
Standard individual packing	Gift box, English manual, tool box			
Standard quantity per carton	1pcs			
Standard carton measurement	UT253A/UT253B: 370mm x 110mm x 300mm; UT257A: 430mm x 290mm x 150mm			
Standard carton gross weight	UT253A/UT253B: 3kg; UT257A: 3.8kg			

UT255 SERIES HIGH VOLTAGE CLAMP AMMETERS



● UT255B

UT255 series high voltage clamp ammeters can measure up to 69kV high voltage line current and leakage current. UT255 comes with an insulation rod, allowing professional users to check status of lightning arresters. The wireless model (UT255B) is also able to wirelessly transmit data in real-time up to 30m range. Its clamp can be easily removed from wire by pressing or pulling back the insulation rod.

- Auto range, 2 times/s sampling rate
- Peak hold
- Manual range/stores 99 sets of data
- RS-232 interface
- Data hold
- Auto power off
- LCD backlight
- Overload protection, low battery indication
- Automatic plug clamp
- Wireless transmission (UT255B)

	Range	UT255A	UT255B
Leakage current (A)	0.01mA~100A	±(1%+5)	±(1%+5)
	100A~600A	±(2%+5)	±(2%+5)
	Voltage (Freq.) 0V~69kV (50Hz/60Hz)	√	√

Features

Display mode	4 digits LCD	√	√
Jaw opening		33mm	33mm
Auto range		√	√
Wireless transmission	≤30m		√
Data recall		√	√
Data storage		99	99
Peak value		√	√
LCD backlight		√	√
Data hold		√	√
Auto power off	Around 15 minutes	√	√
Low battery indication		√	√
Over-range display	OL	√	√
Test mode	Clamp CT, integration	√	√
Sampling rate	About 2 times/s	√	√

Power	1.5V Battery (LR03) x 4
Display	47mm x 28.5mm
Product color	Red and grey
Product net weight	335g
Product size	68mm x 245mm x 40mm
Standard accessories	Batteries, insulation rod, receiver (UT255B)
Standard individual packing	Gift box, English manual, tool box
Standard quantity per carton	1pcs
Standard carton measurement	1040mm x 240mm x 140mm
Standard carton gross weight	6.8kg



UT256 SERIES

200A TRUE RMS FORK METER



Intertek

UT256 series are high reliable, true RMS fork meters. Its unique design allows users to measure current by simply moving the wire of interest inside the opening of the 'fork' past the labeled mark. With no mechanical parts, this meter bares no risk from any type of mechanical failure.

	Range	UT256A	UT256B
AC current (A)	200A	$\pm(1.8\%+2)$	$\pm(2.5\%+5)$
DC current (A)	200A		$\pm(2.5\%+5)$
AC voltage (V)	750V		$\pm(1.2\%+3)$
	1000V	$\pm(1.2\%+3)$	
DC voltage (V)	1000V	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$
Resistance (Ω)	60M Ω	$\pm(1\%+2)$	$\pm(1\%+2)$
Capacitance (F)	60mF		$\pm(4\%+20)$
Frequency (Hz)	10~10kHz	$\pm(0.1\%+5)$	

Features

Display count		6000	6000
Auto range		✓	✓
True RMS		✓	✓
Diode test	About 3V		✓
NCV		Tricolor	✓
Data hold		✓	✓
Zero mode			✓
Relative mode			✓
LCD backlight		✓	✓
Auto power off	About 15 minutes	✓	✓
Continuity buzzer		✓	✓
Low battery indication	$\leq 2.4V$	✓	✓
Input protection		✓	✓
Input impedance	$\geq 10M\Omega$	✓	✓

Power	1.5V battery (LR6) x 2
Display	UT256A: 35mm x 26mm; UT256B: 36.5mm x 24mm
Product color	Red and grey
Product net weight	UT256A: 251g; UT256B: 163.7g
Product size	UT256A: 217mm x 58.8mm x 38.5mm; UT256B: 210mm x 53mm x 35mm
Standard accessories	Batteries, test leads
Standard individual packing	Gift box, carrying bag, English manual
Standard quantity per carton	20pcs
Standard carton measurement	485mm x 310mm x 205mm
Standard carton gross weight	9.5kg



● UT256A



● UT256B



UT261 SERIES

PHASE SEQUENCE AND MOTOR ROTATION INDICATORS



UT261 series is used for determining 3-phase power phase sequence, missing phase indication, and motor phase rotation (UT261B). UT261A and UT261B can measure AC voltage of 40~700V and 90~600V respectively. These devices can operate in frequency range of 15~400Hz. UT261 are durable devices which can withstand impact from 2 meter's height. Test leads with protective tubing are included in optional accessories.



● UT261A



● UT261B

	UT261A	UT261B
AC voltage (V)	90V~600V	40V~690V
Frequency (Hz)	15Hz~400Hz	15Hz~400Hz
Working current (A)	<1mA	<3mA
Features		
Phase sequence indication	LCD	LED
Missing phase indication	LCD	LED
Motor rotation indication		LED
Power	UT261A: No battery required; UT261B: 9V battery (6F22)	
Product color	Red and grey	
Product net weight	UT261A: 160g; UT261B: 180g	
Product size	123mm x 71mm x 29mm	
Standard accessories	Battery (UT261B), test lead with alligator clip x 3	
Standard individual packing	Gift box, English manual, carrying bag	
Standard quantity per carton	20pcs	
Standard carton measurement	450mm x 325mm x 340mm	
Standard carton gross weight	UT261A: 9.8kg; UT261B: 10.3kg	

UT262 SERIES

NON-CONTACT PHASE DETECTORS



UT262 series are clamp type non-contact phase detectors. Users do not need to be in contact with high-voltage, reducing risk of electrical shock to electricians and other professional personnels. Beside phase sequence detection, UT262 series can also be used for live wire detection, simple electrical inspection, phase identification, missing-phase judgment, and wire breaker searching. It is a perfect tool for phase sequence detection, motor mounting, and wires maintenance.

- Clamp opening 1.6~16mm (UT262A) , 10~40mm (UT262C)
- Power on indication
- Auto power off (Automatically switch off after three minutes)
- LED, buzzer indication



● UT262C



	UT262A	UT262C
Phase sequence	[Positive phase] four phase lights on clockwise, and beeping sound [Negative phase] four phase lights on anti-clockwise, and solid sound	
Missing phase detection	R-S or S-T light off	
Live power detection	R-S or S-T light on	
Circuit break detection	R-S or S-T light off	
Voltage detection	R-S or S-T light on	
AC voltage range (V)	70V~600V	70V~1000V
Frequency range (Hz)	40Hz~70Hz	
Power	1.5V battery (R6) x 2	
Product color	Red and grey	
Product net weight	180g	
Product size	70mm x 75mm x 30mm	
Standard accessories	Batteries	
Standard individual packing	Blister, English manual	
Standard quantity per carton	40pcs	
Standard carton measurement	690mm x 650mm x 405mm	
Standard carton gross weight	15.5kg	

UT265B/267B

INTELLIGENT 2/3 CLAMP PHASE VOLTAMMETERS



UT265B/UT267B are economical 2/3 phase clamp meters. These meters are able to simultaneously measure 2/3 phase systems and display phase diagram on the LCD screen. These meters can be used to monitor power distribution box, suitable for electricians, electrical maintenance, repair, and training personnel.

	Range	UT265B	UT267B
AC current (A)	0mA~20A	±(1.5%+3)	±(1.5%+3)
AC voltage (V)	0V~600V	±(1.5%+3)	±(1.5%+3)
Frequency (Hz)	45Hz~65Hz	±(2%+3)	±(2%+3)
Active power (W)	0W~12kW	±(3%+3)	±(3%+3)
Apparent power (VA)	0VA~12kVA	±(3%+3)	±(3%+3)
Reactive power (VAR)	0VAR~12kVAR	±(3%+3)	±(3%+3)
Power factor	-1~+1	±0.03	±0.03
Phase angle (°)	0°~360°	±1°	±1°
Current vector sum	0mA~60A		√
Phase sequence test	Forward rotation, U1-U2-U3 or I1-I2-I3; reverse rotation, U1-U3-U2 or I1-I3-I2		√
Phase		2	3

Features

Display mode	LCD: 240 dots×160 dots	√	√
Clamp size	Acuminate current clamp: 7.5mm×13mm (optional) Round jaw current clamp: 35mm×40mm (optional)		
Auto range		√	√
RS-232		√	√
Data storage		1500	99
LCD backlight		√	√
Data hold		√	√
Input impedance for DCV	≥2MΩ	√	√
Auto power off	About 15 minutes	√	√
Low battery indication		√	√
Sampling rate	About 0.5 times/s	√	√

Power	1.5V battery (LR6) x 6
Product color	Red and grey
Product net weight	550g
Product size	196mm x 92mm x 54mm
Standard accessories	Batteries, current clamps (UT265B: 2pcs; UT267B: 3pcs), test leads (UT265B: 2 yellow, 2 black; UT267B: 1 yellow, 1 green, 1 red, 1 black)
Standard individual packing	Gift box, tool box, English manual
Standard quantity per carton	1pcs
Standard carton measurement	337mm x 136mm x 333mm
Standard carton gross weight	3.3kg



● UT267B

UT270 SERIES

CLAMP EARTH GROUND TESTERS



UT270 series can quickly and safely measure the grounding system without disconnecting circuit ground lines or the need of auxiliary electrodes. It can measure resistance from 0.01Ω with a resolution of 0.001Ω . UT275 can also measure leakage current up to 30A. These clamps' double insulation design makes them durable tools for outdoor work and effective in blocking interference from the environment.

	Range	UT273	UT275	UT276A	UT278A
Earth Ground Resistance (Ω)	0.01~0.099 Ω	$\pm(1\%+0.01)$	$\pm(1\%+0.01)$	$\pm(1\%+0.01)$	$\pm(1\%+0.01)$
	0.1~0.99 Ω	$\pm(1\%+0.01)$	$\pm(1\%+0.01)$	$\pm(1\%+0.01)$	$\pm(1\%+0.01)$
	1~49.9 Ω	$\pm(1.5\%+0.1)$	$\pm(1.5\%+0.1)$	$\pm(1\%+0.1)$	$\pm(1\%+0.1)$
	50~99.5 Ω	$\pm(2\%+0.5)$	$\pm(2\%+0.5)$	$\pm(1.5\%+0.5)$	$\pm(1.5\%+0.5)$
	100~199 Ω	$\pm(3\%+1)$	$\pm(3\%+1)$	$\pm(2\%+1)$	$\pm(2\%+1)$
	200~395 Ω	$\pm(10\%+5)$	$\pm(10\%+5)$	$\pm(5\%+5)$	$\pm(5\%+5)$
	400~590 Ω	$\pm(20\%+10)$	$\pm(20\%+10)$	$\pm(10\%+10)$	$\pm(10\%+10)$
	600~800 Ω			$\pm(20\%+20)$	$\pm(20\%+20)$
	600~1000 Ω	$\pm(25\%+20)$	$\pm(25\%+20)$		
	800~1200 Ω			$\pm(25\%+30)$	$\pm(25\%+30)$
Leakage current (A)	0mA~9mA				$\pm(2.5\%+1mA)$
	10mA~99mA				$\pm(2.5\%+5mA)$
	100mA~299mA				$\pm(2.5\%+10mA)$
	0mA~299mA		$\pm(2.5\%+2mA)$		
	0.3A~2.99A		$\pm(2.5\%+100mA)$		$\pm(2.5\%+0.1A)$
	3A~9.9A				$\pm(2.5\%+0.3A)$
	10A~20A				$\pm(2.5\%+0.5A)$
	3A~30A		$\pm(2.5\%+300mA)$		$\pm(2.5\%+0.5A)$

Features

Display count		10000	10000	4 digits LCD display	
Jaw opening		28mm	28mm	32mm	32mm
Resistance measurement frequency	>1kHz			✓	✓
Single measurement time	1 second			✓	✓
Current limit alarm	1mA~499mA			✓	✓
Current measurement frequency	50Hz/60Hz			✓	✓
Auto power off		✓	✓		
RS-232				✓	✓
Visual and audible alarm				✓	✓
Jamming signal recognition				✓	✓
Over-range display				✓	✓
Data storage		30	30	99	99

Power	1.5V battery (LR6) x 4				
LCD size	47mm x 28.5mm				
Product color	Red and grey				
Product net weight	UT273/275: 1.32kg; UT276A/278A: 1.16kg				
Product size	UT273/275: 293mm x 90mm x 66mm; UT276A/278A: 285mm x 85mm x 56mm				
Standard accessories	Batteries, test ring, tool box				
Standard individual packing	Gift box, English manual				
Standard quantity per carton	UT273/275: 5pcs; UT276A/278A: 6pcs				
Standard carton measurement	UT273/275: 510mm x 375mm x 320mm; UT276A/278A: 610mm x 375mm x 320mm				
Standard carton gross weight	UT273/275: 15.2kg; UT276A/278A: 18kg				
Optional accessories	UT276A/278A: RS-232 interface cable, PC software CD				



● UT278A

- Resistance limit alarm
- Auto range
- Low battery indication
- Data hold (**UT273/275**)
- Data recall (**UT273/275**)
- LCD backlight (**UT273/275**)
- Auto calibration (**UT273/275**)

UT281 SERIES TRUE RMS FLEX CLAMPS

UT281 series can measure large currents in various harsh and hard to reach environments. They are designed with Rogowski flex coil and can test up to 3000A AC current. UT281A/C are from UNI-T's Pro Line series, which meet IP54 and 2m drop proof requirements. Due to the ease in operation, accurate readings, stable performance and reliable quality, these flex clamps are ideal tools for electricians.



● UT281E

	UT281A	UT281C	UT281E
AC current (A)	3000A; $\pm(3\%+5)$	3000A; $\pm(3\%+5)$	3000A; $\pm(3\%+5)$
Frequency response	45Hz~500Hz (sine wave)	45Hz~500Hz (sine wave)	45Hz~500Hz (sine wave)
Inrush current	0.5A~3000A (for reference)	0.5A~3000A (for reference)	0.5A~3000A (for reference)
AC voltage (V)			600V; $\pm(1.2\%+3)$
Resistance (Ω)			60M Ω ; $\pm(1.2\%+3)$
Frequency (Hz)			20Hz~30kHz; $\pm(1\%+2)$

Features

Range selection	Manual	Manual	Auto (manual range available in current measurement)
Flex coil size	10" (25.4cm) radius: 1.5" (3.8cm)	18" (45.7cm) radius: 3.1" (8cm)	18" (45.7cm) radius: 3.1" (8cm)
Display count	3000	3000	6000 (3000 in current measurement)
Refresh rate	3 times/s	3 times/s	3 times/s
True RMS	✓	✓	✓
Display interface (LCD)	Single	Single	Dual
Data hold/Buzzer	✓	✓	✓
Auto power off	✓	✓	✓
Low battery indication	✓	✓	✓
Backlight/Function selection	✓	✓	✓
2m drop test	✓	✓	✓
IP rating	IP54	IP54	

Power	1.5V battery (R03) x 3
Display	32 x 34mm (1.8 inches)
Product color	Red and grey
Product net weight	UT281A: 220g; UT281C: 236g; UT281E: 250g
Product size	UT281A: 300mm x 150mm x 55mm; UT281C: 350mm x 190mm x 55mm; UT281E: 325mm x 180mm x 30mm
Standard accessories	Batteries, PC software CD (UT281A), test leads (UT281E)
Standard individual packing	Gift box, blister, English manual (UT281A/C only: German, French, Spanish optional)
Standard quantity per carton	10pcs
Standard carton measurement	UT281A: 580mm x 380mm x 180mm; UT281C: 420mm x 355mm x 425mm; UT281E: 435mm x 380mm x 245mm
Standard carton gross weight	UT281A: 4.9kg; UT281C: 6.2kg; UT281E: 6.3kg

UT-CS09 SERIES

FLEX CLAMP SENSORS



● UT-CS09C

UT-CS09 series flex clamp sensor solves problems in measuring high current conductors in tight spaces. Its Rogowski coil based current sensor provides stable, safe, and high reliable measurements up to 3000A. This series' unique design and lightweight feature make it a great choice for professional electricians. The UT-CS09A coil length is 25.4cm (10 inches), and UT-CS09C coil length is 45.7cm (18 inches).

- Flex clamp can measure from 1.5A to 3000A current
- 1m drop proof
- Robust terminal connection



● BNC adapter

	Range	UT-CS09A	UT-CS09C
AC current (A)	30A/300A/3000A	±(3%+5)	±(3%+5)
Frequency response (Hz)	45Hz~500Hz	√	√
Features			
Flex clamp size	UT-CS09A: 25.4cm (10 inches); UT-CS09C: 45.7cm (18 inches)		
Operating temperature	0°C~50°C		
Storage temperature	-20°C~60°C		
Storage humidity	≤80%RH		
Low battery indication	About 3.3V		
Manual range	√		
Power	1.5V battery (R03) x 3		
Product color	Red and grey		
Product net weight	260g		
Product size	267mm x 119.4mm x 34mm		
Standard accessories	Batteries, BNC adapter		
Standard individual packing	Blister, English manual		
Standard quantity per carton	10pcs		
Standard carton measurement	495mm x 405mm x 225mm		
Standard carton gross weight	7kg		

UT283A SINGLE PHASE POWER QUALITY ANALYZER



- Trend/event capture
- Harmonics/inrush current measurement
- File management through USB interface
- Flick measure (PST/PLT values)
- User friendly interface
- Multimeter functions
- Scope functions including waveform display
- 3.5 inches 64K color TFT LCD display
- THD (Total Harmonic Distortion) function
- Long-term monitoring



● current clamp

UT283A is a handheld multi-functional device designed to measure and analyze single-phase power systems. This portable S class device can measure amplitude, phase, harmonics, current, voltage, then record results in SD card for further analysis and export. This product is suitable for professionals working in electrical power, medical, transportation, telecommunication, and other industrial areas.

	Range	Accuracy
Voltage (V)	10V~1000V AC/DC	$\pm 0.5\%U_{din}$
AC current (A)	10A/100A/1000A	$\pm 0.5\%f.s.$
Frequency (Hz)	40~70Hz	$\pm 50mHz$
Power (W)	$>15\%S$	$\pm 1\%S$
Power factor	0~1	± 0.02
Energy (Wh)	0~9999MWh	$\pm 1.5\%rdg$
Crest factor	1 to 10	$\pm 5\%$
Voltage harmonics or inter-harmonics	$U_m \geq 3\%U_{nom}$ (1~51th, step 0.5th)	$\pm 5\%U_{rms}$
	$U_m < 3\%U_{nom}$ (1~51th, step 0.5th)	$\pm 0.15\%U_{nom}$
Current harmonics or inter-harmonics	$I_m \geq 10\%I_{nom}$ (1~51th, step 0.5th)	$\pm 5\%I_{rms}$
	$I_m < 10\%I_{nom}$ (1~51th, step 0.5th)	$\pm 0.5\%I_{nom}$
Power harmonics	(1~51th, step 1th)	Calculated based on voltage and current amplitude and phase accuracy
Transients	$\pm 6000V$ Peak, $F_{sample}=2MHz$	$\pm 5\%rdg, \pm 5\%f.s.$
Dip/swell/interrupt	0~1000V AC	$U_{din} \pm 1\%$
AC inrush current (A)	10A/100A/1000A	$\pm 1\%f.s.$
Resistance (Ω)	600 Ω /6k Ω /60k Ω /600k Ω /6M Ω /60M Ω	$\pm (1\%+3)$
Capacitance (F)	60nF/600nF/6 μ F/60 μ F/600 μ F	$\pm (4\%+20)$

Features

True RMS		✓
Harmonic analysis	Up to 51th	✓
Flick measure	10 minutes, PST and PLT values	✓
Voltage ratio		✓
Current ratio		✓
Event capture		✓
Trend capture		✓
Data logging	8GB	✓
USB interface		✓
Backlight adjustment		✓
Low battery indication		✓
Input protection		✓

Power	Li-ion battery: 7.4V 3600mAh
Display	70mm x 52mm; 3.5 inches 64K color TFT LCD (320 x 240)
Product color	Red and grey
Product net weight	808.4g
Product size	199mm x 118mm x 49mm
Standard accessories	Power adaptor, power cord, test leads, test probes, alligator clips, current clamp (10A/100A/1000A), USB interface cable, PC software CD, SD card (8GB)
Standard individual packing	Gift box, carrying bag, English manual
Standard quantity per carton	1pcs
Standard carton measurement	342mm x 98mm x 305mm
Standard carton gross weight	3.4kg

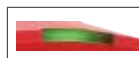
INFRARED THERMOMETERS

Infrared thermometer plays an important role in production, quality control and inspection, equipment protection, energy saving, etc.

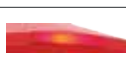
Infrared thermometer measures temperature through non-contact method, producing quick and accurate results, it allows users to measure extreme temperatures at a safe distance.



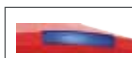
UT301+ SERIES INFRARED THERMOMETERS



Normal status:
High limit > temperature > low limit



Temperature > high limit



Temperature < low limit

	UT301A+	UT301C+	UT301D+
Temperature range (°C)	-32°C~420°C	-32°C~600°C	-32°C~600°C
Temperature range (°F)	-25.6°F~788°F	-25.6°F~1112°F	-25.6°F~1112°F
Accuracy (°C)	±1.5°C or ±1.5%		
Accuracy (°F)	±3.0°F or ±1.5%		
Repeatability	0.7°C or 0.7% (1.5°F or 0.7%)		
D:S ratio	12:1 (95%)		
Response time	≤250ms (95% of reading)		
Emissivity	0.1~1.0 (adjustable, stores 5 sets of preset values)		
Spectral response	8um~14um		
Laser signal	Single	Ring	Double
Laser power	< 1mW		
Features			
Auto power off	√		
Low battery indication	√		
LCD display	Color EBTN		
High/low temperature LED alarm	√		
High/low temperature audible alarm	√		
Data hold	√		
°C/°F selection	√		
MAX/MIN/AVG/DIF mode	√		
Lock measurement	√		
Data storage	—	99	99
Scheduled measurement	—	√	√
Backlight	√		
Operating temperature	0°C~50°C (32°F~122°F)		
Storage temperature	-20°C~60°C (-4°F~140°F)		
Operating humidity	<90% RH (non-condensing)		
Tripod mounting hole	√		
Power	9V battery		
Display	30mm x 30mm		
Product color	Red and grey		
Product net weight	204g		
Product size	160mm x 74mm x 48mm		
Standard accessories	Battery, carrying bag		
Standard individual packing	Gift box, blister, English manual		
Standard quantity per carton	20pcs		
Standard carton measurement	475mm x 350mm x 250mm		
Standard carton gross weight	10.43kg		



● UT301C+

- 12:1 D:S ratio
- Adjustable emissivity 0.1~1.0
- ±1.5°C temperature measurement accuracy
- User defined visual and audio alarm
- High contrast EBTN color display
- MAX/MIN/AVG/DIFF/Hold modes
- Ring Lasers (UT301C+); Dual Lasers (UT301D+)
- Temperature recording up to 99 groups (UT301C+/UT301D+)
- Date/time display (UT301C+/UT301D+)
- Time scheduled measurement (UT301C+/UT301D+)



Scheduled measurement (UT301C+/UT301D+):

Set a start time and interval, device will auto turn on at start time, perform a measurement, then turn off, and repeat the procedure once for every interval time. Interval range from 1 min to 96 hours, number of measurement and data storage can be up to 99 sets.



* Ring laser (UT301C+)

Unique patented display method that covers entire measured area, user will know exactly where the measurement is taking place

UT302+/303+ SERIES

INFRARED THERMOMETERS



Scheduled measurement

(UT302C+/UT303C+/UT302D+/UT303D+):

Set a start time and interval, device will auto turn on at start time, perform a measurement, then turn off, and repeat the procedure once for every interval time. Interval range from 1 min to 96 hours, number of measurement and data storage can be up to 99 sets.



* Ring laser (UT302C+/UT303C+)

Unique patented display method that covers entire measured area, user will know exactly where the measurement is taking place.



- $\pm 1.5^{\circ}\text{C}$ temperature measurement accuracy
- User defined visual and audio alarm
- High contrast EBTN color display
- MAX/MIN/AVG/DIFF/Hold modes
- Dual lasers (UT302D+/UT303D+)
- Temperature recording up to 99 groups (UT302C+/UT303C+/UT302D+/UT303D+)
- Date/time display (UT302C+/UT302D+/UT303C+/UT303D+)
- Time scheduled measurement (UT302C+/UT303C+/UT302D+/UT303D+)

	Normal status: High limit > temperature > low limit
	Temperature > high limit
	Temperature < low limit

	UT302A+	UT302C+	UT302D+	UT303A+	UT303C+	UT303D+
Temperature range (°C)	-32°C~700°C	-32°C~1100°C	-32°C~1100°C	-32°C~800°C	-32°C~1300°C	-32°C~1300°C
Temperature range (°F)	-25.6°F~1292°F	-25.6°F~2012°F	-25.6°F~2012°F	-25.6°F~1472°F	-25.6°F~2372°F	-25.6°F~2372°F
Accuracy (°C)	±1.5°C or ±1.5%					
Accuracy (°F)	±3.0°F or ±1.5%					
Repeatability	0.7°C or 0.7% (1.5°F or 0.7%)					
D:S ratio	20:1			30:1		
Response time	250ms					
Emissivity	0.1~1.0 (adjustable, stores 5 sets of preset values)					
Spectral response	8um~14um					
Laser signal	Single	Ring	Double	Single	Ring	Double
Laser power	< 1mW	< 3mW	< 1mW	< 1mW	< 3mW	< 1mW

Features

Auto power off	√					
Low battery indication	√					
LCD display	Color EBTN					
High/low LED alarm	√					
High/low audible alarm	√					
Data hold	√					
$^{\circ}\text{C}/^{\circ}\text{F}$ selection	√					
MAX/MIN/AVG/DIF mode	√					
Lock measurement	√					
Data storage	—	99	99	—	99	99
Scheduled measurement	—	√	√	—	√	√
Backlight	√					
Operating temperature	$0^{\circ}\text{C}\sim 50^{\circ}\text{C}$ ($32^{\circ}\text{F}\sim 122^{\circ}\text{F}$)					
Storage temperature	$-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$ ($-4^{\circ}\text{F}\sim 140^{\circ}\text{F}$)					
Operating humidity	<90%RH (non-condensing)					
Tripod mounting hole	√					
Power	9V battery					
Display	35mm x 35mm					
Product color	Red and grey					
Product net weight	310g					
Product size	172mm x 113.5mm x 53mm					
Standard accessories	Battery, carrying bag					
Standard individual packing	Gift box, blister, English manual					
Standard quantity per carton	10pcs					
Standard carton measurement	425mm x 335mm x 365mm					
Standard carton gross weight	6.65kg					

UT300A+

INFRARED THERMOMETER



- Simple one button operation
- 10:1 D:S ratio
- Data hold
- Backlight
- Temperature range: -20°C~400°C

	UT300A+
Temperature range (°C)	-20°C~400°C
Temperature range (°F)	-4°F~752°F
Accuracy (°C)	±2.0°C or ±2%
Accuracy (°F)	±4.0°F or ±2%
Repeatability	1°C or 1.0% (2°F or 1.0%)
D:S ratio	10:1
Response time	≤500ms (95% of reading)
Emissivity	0.95
Spectral response	5.5um~14um
Laser power	< 1mW
Features	
Auto power off	8s
Low battery indication	✓
Data hold	✓
°C/°F selection	✓
Backlight	✓
Laser	✓
Operating temperature	0°C~50°C (32°F~122°F)
Storage temperature	-20°C~60°C (-4°F~140°F)
Operating humidity	<90% RH (non-condensing)
Drop test	1m
Power	1.5V battery (LR03) x 2
Display	20mm x 24mm
Product color	Red and grey
Product net weight	146g
Product size	135mm x 94mm x 36.5mm
Standard individual packing	Blister, English manual
Standard quantity per carton	20pcs
Standard carton measurement	430mm x 265mm x 300mm
Standard carton gross weight	6.97kg

UT305 SERIES

INFRARED THERMOMETERS



● UT305C



UT305 series infrared thermometers can measure temperature by laser or contact with k-type temperature probe. UT305 has a 50:1 D:S ratio, so it can measure long range temperature points of interest with great accuracy. UT305 also has 99 sets of data storage and USB data transmission. They are ideal tools for industrial quality inspection such as HVAC and electronics manufacturing.

	UT305A	UT305C
Temperature range (°C)	-50°C~1050°C	-50°C~1550°C
Temperature range (°F)	-58°F~1922°F	-58°F~2822°F
Accuracy	±1.8°C or ±1.8%	
Repeatability	±0.5°C or ±0.5%	
Resolution	0.1	
D:S ratio	50:1	
Response time	250ms (95% of reading)	
Emissivity	0.1~1.0 adjustable	
Laser type	Class 2	
Laser power	<1mW	
Laser wavelength	630nm~670nm	
Spectral response	8μm~14μm	
Features		
°C/°F selection	√	
Laser switch	√	
Display hold (s)	8	
Data hold	√	
Auto power off	√	
Low battery indication	√	
MAX/MIN/AVG/DIFF mode	√	
Data storage	99	
USB interface	√	
High/Low alarm	√	
LCD backlight	√	
Tripod mounting hole	√	
T-C thermocouple measurement	√	
Power	USB or 9V battery (6F22) or power adaptor	
Display	33mm x 38 mm	
Product color	Red and grey	
Product net weight	320g	
Product size	183mm x 147mm x 57mm	
Standard accessories	Battery, USB interface cable, PC software CD, point contact temperature probe	
Standard individual packing	Gift box, tool box, English manual	
Standard quantity per carton	1pcs	
Standard carton measurement	372mm x 113mm x 315mm	
Standard carton gross weight	2kg	

UT306A

MINI INFRARED THERMOMETERS



	UT306A
Temperature range (°C)	-35°C~300°C
Temperature range (°F)	-31°F~572°F
Accuracy (°C)	±2.0°C or ±2%
Accuracy (°F)	±4.0°F or ±2%
D:S ratio	6:1
Response time	<250ms
Emissivity	0.95
Spectral response	8um~14um
Laser power	< 1mW
Features	
Auto power off	√
Low battery indication	√
Data hold	√
°C/°F selection	√
MAX/MIN/AVG mode	√
Lock measurement	√
Backlight	√
Laser	√
Operating temperature	0°C~50°C (32°F~104°F)
Storage temperature	-20°C~60°C (-4°F~140°F)
Operating humidity	<90%RH (non-condensing)
Drop test	1m
Power	1.5V battery (R03) x 3
Display	37.4mm x 36.4mm
Product color	Red and grey
Product net weight	120g
Product size	120mm x 53mm x 28mm
Standard accessories	Batteries
Standard individual packing	Gift box, English manual
Standard quantity per carton	20pcs
Standard carton measurement	272mm x 225mm x 200mm
Standard carton gross weight	2.8kg

UT306A is a portable non-contact thermometer. This device's miniature design is convenient to carry and suitable for everyday temperature measurement needs. UT306A is designed to counter environmental interference, ensuring accurate temperature readings under various measurement environments.

UT309 SERIES

PROFESSIONAL INFRARED THERMOMETERS



● UT309E

	High temperature LED indicator
	Low temperature LED indicator



UT309 series professional infrared thermometer can determine surface temperature through the energy radiated by the target surface. It is designed to meet some of the highest protection ratings in UNI-T's product line, **IP65 and 3m drop proof**. With a rapid response rate of 250ms, high measurement accuracy, and multiple scanning modes, UT309 proves to be a necessary tool for engineers and technicians working in a various fields such as electrical distribution inspection, HVACR maintenance, transportation equipment inspection, instrument repair, and many more.

- °C/°F selection
- Laser switch
- High alarm (red LCD)
- Low alarm (blue LCD)
- MAX/MIN/AVG/DIFF mode
- Data hold
- Auto power off
- Low battery indication

	UT309A	UT309C	UT309E
Temperature range (°C)	-35°C~450°C	-35°C~650°C	-35°C~850°C
Temperature range (°F)	-31°F~842°F	-31°F~1202°F	-31°F~1562°F
Accuracy (°C)	±1.8°C or ±1.8%		
Accuracy (°F)	±3.6°F or ±1.8%		
Resolution	0.1°C/0.1°F		
D:S ratio	10:1	12:1	20:1
Response time	250ms (95% of reading)		
Emissivity	0.95	0.10~1.0 adjustable	0.10~1.0 adjustable
Number of lasers	Single laser	Dual lasers	Dual lasers
Laser type	Class 2		
Laser power	<1mW		
Laser wavelength	630nm~670nm		
Spectral response	8μm~14μm		

Features

LCD display	LCD	LCD	Color EBTN
Data storage with date and time	—	—	99
Scheduled measurement	—	—	√
Monitoring measurement	—	—	√
Protective function	—	—	√
Lock measurement	√		
LCD backlight	√		
Tripod mounting hole	√		
Power	9V battery (6F22)		
Display	32mm x 29mm		32mm x 32mm
Product color	Red and grey		
Product net weight	292g		
Product size	189mm x 118mm x 55mm		
Standard accessories	Battery, carrying bag		
Standard individual packing	Gift box, blister, English manual (UT309A/C only: German, French, Spanish optional)		
Standard quantity per carton	10pcs		
Standard carton measurement	430mm x 335mm x 330mm		
Standard carton gross weight	6.5kg		5.8kg

ENVIRONMENTAL TESTERS

Our environment is seriously affected by the rapid economic growth and industrialization of today's society. Environmental protection is the toughest issue facing humans today. Environmental indicators such as temperature, humidity, illumination, noise, dust, CO, CO₂ are important data for ensuring a healthy living environment. UNI-T is committed to environmental monitoring by offering professional and comprehensive environmental testers. These meters output audio/visual alerts whenever environment data goes beyond normal/preset range.



UT310 SERIES

VIBRATION TESTERS



● UT315A

UT310 series handheld vibration testers can measure displacement, velocity, and acceleration of rotating and reciprocating machinery. Technicians can use these to monitor equipment status and ensure normal operation.

	UT311/UT312		UT315A
Acceleration (O-P)	0.1~199.9m/s ²	Frequency response: 10~1500Hz, Amplitude error: ≤±5% Amplitude linear error: ≤2.0m/s ² , ≤±10%; >2.0m/s ² , ≤±5%	0~199.9m/s ² ; Frequency response: 10Hz-10kHz Accuracy: ±(5%+0.2m/s ²)
Velocity (RMS)	0.1~199.9mm/s	Frequency response: 10~1500Hz, Amplitude error: ≤±5% Amplitude linear error: ≤2.0mm/s, ≤±10%; >2.0mm/s, ≤±5%	0~19.99cm/s; Frequency response: 10Hz~1kHz Accuracy: ±(5%+0.02cm/s)
Displacement (P-P)	1~1999μm	Frequency response: 10~500Hz, Amplitude error: ≤±5% Amplitude linear error: ≤20μm, ≤±10%; >20μm, ≤±5%	1~1.999mm; Frequency response: 10Hz~500Hz Accuracy: ±(5%+0.002mm)

Features

Data hold	√
Low battery indication	√
Auto power off	√
Battery life	Continuous measuring time > 8 hours
Display count	2000
Power	9V battery (6F22)
Product color	Red and grey
Product net weight	UT311/UT312: 230g; UT315A: 395g
Product size	UT311/UT312: 185mm x 68mm x 30mm; UT315A: 166mm x 80mm x 30mm
Std. accessories	Battery, tool box
Std. individual packing	Gift box, English manual
Std. quantity per carton	UT311/UT312: 5pcs; UT315A: 1pcs
Std. carton measurement	UT311/UT312: 375mm x 307mm x 246mm; UT315A: 305mm x 240mm x 85mm
Std. carton gross weight	UT311/UT312: 5.8kg; UT315A: About 1.2kg

UT320 SERIES

MINI CONTACT TYPE THERMOMETERS



UT320A and UT320D are single and double channel contact type thermometers respectively. These highly accurate thermometers have a wide temperature range. UT320D can also calculate the temperature difference of its two channels. UT320 can be used with any K or J temperature probe.

	Range	UT320A	UT320D
Temperature measurement (K)	-50°C~1300°C	±(0.5%+1)	±(0.5%+1)
Temperature measurement (J)	-50°C~1200°C	±(0.5%+1)	±(0.5%+1)

Features

		Single	Dual
Display mode		✓	✓
Auto power off		✓	✓
Low battery indication		✓	✓
Difference measurement (T1-T2)			✓
Data hold		✓	✓
°C/°F selection		✓	✓
MAX/MIN/AVG		✓	✓
Mode selection (K/J)		✓	✓
Backlight		✓	✓
Drop test	1m	✓	✓
Operating temperature	0°C~40°C		
Operating humidity	≤80%RH		
Power	1.5V battery (R03) x 3		
Display	37.4mm x 36.4mm		
Product color	Red and grey		
Product net weight	60g		
Product size	120mm x 53mm x 28mm		
Standard accessories	K-type temperature probe, batteries		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	20pcs		
Standard carton measurement	332mm x 225mm x 200mm		
Standard carton gross weight	3.4kg		



● UT320D



UT320 SERIES

CONTACT TYPE THERMOMETERS



UT320 series contact type thermometers provide fast, accurate, and precise temperature measurement with thermocouple temperature probes. Users can select single or dual input, record, and analyze data through PC software. UT320 series can be used with a variety of temperature probes, satisfying multiple applications.

		Range	UT321	UT322	UT325
Single or dual input			Single	Dual	Dual
Temperature	Type K	-200°C~1372°C (-328°F~2501°F)	±(0.5%+0.8)		±(0.2%+0.6)
	Type J	-210°C~1200°C (-346°F~2192°F)	±(0.5%+0.8)		±(0.2%+0.6)
	Type T	-250°C~400°C (-418°F~752°F)	±(0.5%+0.8)		±(0.2%+0.6)
	Type E	-150°C~1000°C (-238°F~1832°F)	±(0.5%+0.8)		±(0.2%+0.6)
	Type R	0.0°C~1767°C (32°F~3212°F)			±(0.2%+2)
	Type S	0.0°C~1767°C (32°F~3212°F)			±(0.2%+2)
	Type N	-200°C~1300°C (-328°F~2372°F)			±(0.2%+1.5)
Resolution		0.1°C (When value>999.9°C: 1°C)	√		√
Features					
°C/°F/K selection			√		√
Data hold			√		√
Auto power off			√		√
Low battery indication			√		√
MAX/MIN/AVG mode			√		√
Data storage			100		100
USB interface			√		√
High alarm					√
Low alarm					√
High/lower signal output					√
LCD backlight			√		√
Auto calibration			√		√
Power		USB or 9V battery (6F22)			
Display		30mm x 32mm			
Product color		Red and grey			
Product net weight		270g			
Product size		175mm x 85mm x 30mm			
Standard accessories		Battery, USB interface cable, PC software CD, K-type temperature probe			
Standard individual packing		Gift box, English manual			
Standard quantity per carton		10pcs			
Standard carton measurement		405mm x 290mm x 165mm			
Standard carton gross weight		4.3kg			



● UT325



UT330 SERIES

TEMPERATURE HUMIDITY METERS



● UT332

UT330 series meters measure temperature and humidity with low power consumption and high precision. The measured data can be saved and exported to PC software for further analysis. These meters can be used in factories, laboratories, research institutes, food, health, environmental protection, and other fields.

	Range	UT331	UT332
Temperature	-20°C~70°C	±0.5°C	±0.5°C
Humidity	10%RH~90%RH	±3.5%RH	±2.5%RH

Features

°C/°F selection		√	√
Response time	Around 10 seconds	√	√
Humidity offset settings		√	√
Temperature offset settings		√	√
Dew point offset settings		√	√
Auto power off		√	√
Power saving mode			√
Data hold		√	√
MAX/MIN		√	√
Data storage		√	√
Data recall		√	√
USB interface		√	√
Auto record time setup		√	√
LCD backlight		√	√

Power	1.5V battery (R03) x 4
Display	26.5mm x 35.5 mm
Product color	Red and grey
Product net weight	130g
Product size	185mm x 54.8mm x 33.8mm
Standard accessories	Batteries, carrying bag, PC software CD, USB interface cable
Standard individual packing	Gift box, English manual
Standard quantity per carton	20pcs
Standard carton measurement	430mm x 290mm x 290mm
Standard carton gross weight	6.3kg



iENV iENV APP



iENV is an App which connects UNI-T's mini environmental series meters to a cell phone through Bluetooth. It is a free App which can be downloaded from Google Play, Apple Store or UNI-T's website at www.uni-trend.com. iENV is able to display and record real-time temperature/humidity, noise level, wind speed, and light intensity through UNI-T meters UT333BT, UT353BT, UT363BT, and UT383BT respectively. iENV's user manual comes in English, French, German, and Spanish.

Main features

1. Wireless data transfer through Bluetooth
2. Real-time data and trends display
3. Real-time/historical/off-line data and trends recall. Data export in csv, pdf, or graphical format files that can be sent through E-mail
4. Attach pictures taken with phone into data reports
5. Allows user and company info to be filled in with reports and able to send reports through email
6. Bluetooth connectivity distance is roughly 10 meters in open space



Mini Environmental BT Series



Real-time
display/record

Bluetooth 4.0



Remote
control



iENV APP (Suitable for IOS and Android)



User

- Email PDF/excel report
- Offline data export
- Alert

UT333/UT333BT

MINI TEMPERATURE HUMIDITY METERS



UT333/UT333BT temperature humidity meters can measure, process data, and display results on LCD. UT333BT can transfer measurement data through bluetooth to UNI-T's custom mobile APP (iENV) for further analysis, storage, and export. iENV can be downloaded from Google Play, Apple Store or UNI-T's website by searching 'iENV'.



● UT333BT

	UT333	UT333BT
Temperature range	-10°C~60°C/14°F~140°F	-10°C~60°C/14°F~140°F
Temperature accuracy	±1.0°C/±2.0°F	±1.0°C/±2.0°F
Temperature resolution	0.1°C/0.2°F	0.1°C/0.2°F
Humidity range	0%RH~100%RH	0%RH~100%RH
Humidity accuracy	±5%RH	±5%RH
Humidity resolution	0.1%RH	0.1%RH
Sampling rate	1/s	1/s

Features

APP		√
Bluetooth®		√
Overload indication	OL	OL
MAX/MIN	√	√
Data hold	√	√
°C/°F selection	√	√
LCD backlight	√	√
Auto power off	5 min	5 min
Low battery indication	3V~3.5V	3V~3.5V

Power	1.5V battery (R03) x 3
Display	32mm x 26mm
Product color	Red and grey
Product net weight	102g
Product size	155mm x 50mm x 28mm
Standard accessories	Batteries
Standard individual packing	Blister, English manual
Standard quantity per carton	UT333: 40pcs; UT333BT: 20pcs
Standard carton measurement	UT333: 505mm x 330mm x 280mm UT333BT: 332mm x 262mm x 290mm
Standard carton gross weight	UT333: 8kg; UT333BT: 4.2kg

UT333S

DIGITAL TEMPERATURE HUMIDITY METER



UT333S is a stable, safe and reliable mini digital temperature humidity meter. With split type design, it is convenient and fast to measure the temperature accurately in different environments. It is widely used in grain storage and transportation, file management, material management, forestry and animal husbandry, health care, teaching experiment, public sector and home. The split type design is perfect for monitoring hard to reach and small ventilation ducts.



	Range	Resolution	Accuracy
Temperature	-10°C~60°C/14°F~140°F	0.1°C/0.2°F	±1.0°C/±2.0°F
Humidity	0%RH~100%RH	0.1%RH	±5% (20~80%RH)
Features			
°C/°F	√		
MAX/MIN	√		
Data hold	√		
Overload alarm	√		
Backlight	√		
Auto power off	√		
Power	1.5V battery (R03) x 3		
Display	32mm x 35mm		
Product color	Red and grey		
Product net weight	310g		
Product size	110mm x 53mm x 26mm		
Standard accessories	Batteries		
Standard individual packing	Gift box, English manual, blister		
Standard quantity per carton	20pcs		
Standard carton measurement	480mm x 300mm x 360mm		
Standard carton gross weight	6.7kg		



UT343D

COATING THICKNESS GAUGE

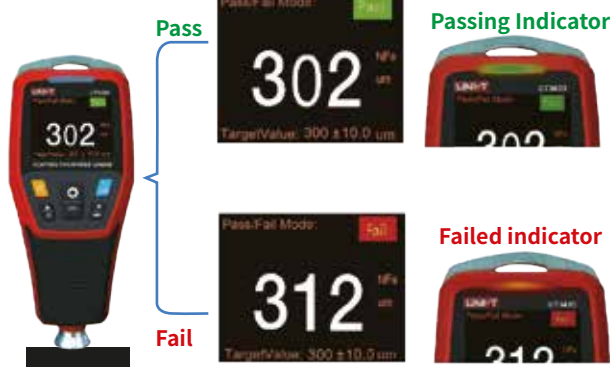
UT343D coating thickness gauge can measure coating thickness of ferrous and non-ferrous materials. This device is designed with a unique quick test feature, which allows users to set thickness range and using a 3-color LED and audio alarm to quickly determine if coating being tested falls within the preset range, greatly increasing work efficiency. UT343D display is auto rotatable. This CE certified device can store up to 500 sets of data for further analysis through the PC analytical software that is included.



	Range
Measurement range	0~1250um
Accuracy	±(3%H+1)um
Resolution	0.1um (0~99.9um); 1um (100~1250um)
Measurement method	Single/Continuous
Measurement mode	MAX/MIN/AVG
Metal type	Ferrous/ non-ferrous
Features	
Display type	2.0-inches TFT LCD (320 x 240 pixels)
LCD brightness control	√
Auto rotatable screen	√
Unit conversion	√
Audio alarm	√
LED alarm	√
PC analysis software	√
USB communication	√
Quick test mode	√
Data storage	500 groups
Auto power off	√
Low battery indication	√
Power	3V battery (R03) x 2
Display	48mm x 36mm
Product color	Red and grey
Product net weight	175g
Product size	153.5mm x 64.5mm x 41mm
Standard accessories	Micro USB interface cable, standard pieces, batteries, cloth bag
Standard individual packing	Gift box, English manual
Standard quantity per carton	10pcs
Standard carton measurement	450mm x 325mm x 255mm
Standard carton gross weight	5.9kg



● Auto-rotatable screen: 0°, 90°, 180°, 270°



● Quick test mode

UT350 SERIES SOUND LEVEL METERS



UT350 series sound level meters can measure sound noise level and output results in dB. A or C weighted modes can be selected depending on the application. These meters consume very little power and can continuously work up to 20 hours. They are suitable for industrial and environmental sound level measurements.

- Auto power off (cancelable)
- 63 sets of data storage (UT352)
- AC/DC analog signal output
- Over/under range indication
- Simulated analog bar
- A (ear)/C (machine) weighting modes
- Manual/auto range selectable
- Fast/slow response rate (fast: 125ms, slow: 1s)
- Powered by batteries or external power source



	Range	UT351	UT352
Range	30~130dB	±1.5dB	±1.5dB
Frequency	31.5Hz~8000Hz	√	√
Frequency weighting	A&C	√	√
Sampling rate (Fast)	8 times/s	√	√
Sampling rate (Slow)	1 time/s	√	√
Features			
Analog outputs (AC)	0.707Vrms full scale; Output impedance: around 600Ω	√	√
Analog outputs (DC)	2Vrms full scale; 10mV/dB; Output impedance: around 100Ω	√	√
Data hold/auto power off		√	√
Low battery indication	≤4.8V	√	√
MAX/MIN		√	√
Data storage			63
High alarm	Display "OVER"	√	√
Lower alarm	Display "UNDER"	√	√
LCD backlight		√	√
Analog bar graph	30~130dB	√	√
Power	1.5V battery (LR6) x 4		
Display	53mm x 41mm		
Product color	Red and grey		
Product net weight	330g		
Product size	273mm x 70mm x 39mm		
Standard accessories	Windscreen, leather box		
Standard individual packing	Gift Box, English manual		
Standard quantity per carton	10pcs		
Standard carton measurement	670mm x 415mm x 120mm		
Standard carton gross weight	7.3kg		



● UT352

UT353/UT353BT

MINI SOUND LEVEL METERS



● UT353BT

UT353/UT353BT mini digital sound level meters can convert ambient sound into electric signals, process data and display results on LCD. They can constantly monitor ambient sound. UT353BT can transfer measurement data through bluetooth to UNI-T's custom mobile APP (iENV) for further analysis, storage, and export. iENV can be downloaded from Google Play, Apple Store or UNI-T's website by searching 'iENV'.

- White backlight, clear LCD screen
- Adjustable sampling rate, fast/slow
- 1/2 inch condenser microphone
- Light weight, ergonomic design, user-friendly interface

	UT353	UT353BT
Noise (A weighting)	30~130dB	30~130dB
Accuracy	±1.5dB	±1.5dB
Resolution	0.1dB	0.1dB
Sampling rate	Fast: 125ms; Slow: 1000ms	Fast: 125ms; Slow: 1000ms
Frequency range	31.5Hz~8kHz	31.5Hz~8kHz

Features

APP		√
Bluetooth®		√
Overload indication	OL	OL
MAX/MIN	√	√
Data hold	√	√
LCD backlight	√	√
Auto power off	√	√
Low battery indication	√	√

Power	1.5V battery (R03) x 3
Display	32mm x 26mm
Product color	Red and grey
Product net weight	116g
Product size	150mm x 52mm x 27mm
Standard accessories	Batteries, windscreen
Standard individual packing	Blister, English manual
Standard quantity per carton	UT353: 40pcs; UT353BT: 20pcs
Standard carton measurement	UT353: 505mm x 330mm x 280mm UT353BT: 367mm x 262mm x 290mm
Standard carton gross weight	UT353: 8.42kg; UT353BT: 4.2kg



UT360 SERIES ANEMOMETERS



UT360 series anemometers can measure temperature, wind speed, and wind count. These meters can be used in energy saving, HVAC, fishing and other industries that use exhaust or ventilation systems.

	Range	UT361	UT362
Wind speed measurement	2m/s~10m/s	±(3%+0.5)	±(3%+0.5)
	10m/s~30m/s	±(3%+0.8)	±(3%+0.8)
Wind count measurement (CMM)	0.001~9999 x 100	√	√
Wind count measurement (CFM)	0.001~9999 x 100	√	√
Temperature measurement	0°C~40°C (32°F~104°F)	±3°C (±4°F)	±3°C (±4°F)
Features			
Display count		10000	10000
Data hold		√	√
Auto power off	Around 10 minutes	√	√
Low battery indication	≤7.2V	√	√
MAX/MIN mode		√	√
Data storage		2044	2044
USB interface			√
Auto record time setup		√	√
Units switch		√	√
LCD backlight		√	√
Wind speed display	Display "VEL"	√	√
Wind count display	Display "FLOW"	√	√
Power	9V battery (6F22)		
Display	57mm x 37mm		
Product color	Red and grey		
Product net weight	375g		
Product size	162mm x 78mm x 30mm		
Standard accessories	Battery, USB interface cable (UT362), PC software CD (UT362), carrying bag		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	10pcs		
Standard carton measurement	460mm x 335mm x 210mm		
Standard carton gross weight	6.8kg		



● UT362



UT363/UT363BT

MINI ANEMOMETERS



UT363/UT363BT are mini wind speed and temperature meters. UT363 and UT363BT can measure wind speeds up to 30m/s.

UT363BT can transfer measurement data through bluetooth to UNI-T's custom mobile APP (iENV) for further analysis, storage, and export. iENV can be downloaded from Google Play, Apple Store or UNI-T's website by searching 'iENV'.

	UT363	UT363BT
Wind speed	0~30m/s	0~30m/s
Wind speed accuracy	±(5%+0.5)	±(5%+0.5)
Wind speed resolution	0.1m/s	0.1m/s
Temperature	-10~50°C/14~122°F	-10~50°C/14~122°F
Temperature accuracy	±2°C/±4°F	±2°C/±4°F
Temperature resolution	0.1°C/0.2°F	0.1°C/0.2°F
Wind scale	Level 0~12	Level 0~12
Wind scale accuracy	±1	±1
Sampling rate	0.5s	0.5s

Features

APP		√
Bluetooth®		√
Overload indication (>45m/s)	OL	OL
MAX/AVG	√	√
Data hold	√	√
LCD backlight	√	√
Auto power off	5 min	5 min
Low battery indication	3V~3.5V	3V~3.5V

Power	1.5V battery (R03) x 3
Display	32mm x 26mm
Product color	Red and grey
Product net weight	118g
Product size	160mm x 50mm x 28mm
Standard accessories	Batteries
Standard individual packing	Blister, English manual
Standard quantity per carton	UT363: 40pcs; UT363BT: 20pcs
Standard carton measurement	UT363: 505mm x 330mm x 280mm UT363BT: 332mm x 262mm x 290mm
Standard carton gross weight	UT363: 8.42kg; UT363BT: 4.2kg



● UT363BT



UT363S DIGITAL ANEMOMETER



UT363S is a stable, safe and reliable split-type anemometer, featuring quick detection, low consumption and high accuracy. It can be widely used in mining, electric, iron and steel, petrochemical, energy-saving, navigation, fan manufacturing, exhaust ventilation, sporting and more sectors.

	Range	Accuracy
Wind speed	0.4~30m/s	±(5%+0.5m/s)
	1.4~108km/h	±(5%+1.5km/h)
	78~5905ft/min	±(5%+100ft/min)
	0.7~58knots	±(5%+1knots)
	0.8~67mph	±(5%+1mph)
Temperature	-10~50°C/14~122°F	±2.0°C/±4.0°F
Wind scale	0~12	±1
Features		
Sampling rate	0.5s	
Units	m/s, km/h, ft/min, knots, mph, °C/°F	
Overload indication	√	
Auto range	√	
Auto power off	√	
Low battery indication	√	
Data hold	√	
MAX/MIN/AVG	√	
Backlight	√	
Working temperature	0°C~40°C	
1m drop test	√	
Power	1.5V battery (R03) x 3	
Display	35mm x 32mm	
Product color	Red and grey	
Product net weight	365g	
Product size	120mm x 53mm x 43mm	
Standard accessories	Batteries	
Standard individual packing	Gift box, blister, English manual	
Standard quantity per carton	20pcs	
Standard carton measurement	550mm x 295mm x 350mm	
Standard carton gross weight	7.2kg	



UT370 SERIES TACHOMETERS



UT370 series non-contact tachometers measure rotating speed of shaft or disk with a point laser and reflective tape on the object being measured. These meters can output RPM or count readouts without interfering with the equipment being measured.



● UT372

	Range	UT371	UT372
RPM range	10RPM~99999RPM	±0.03	±0.03
Counts	0~99999	√	√
	Max. input frequency: 10kHz; bandwidth: 5%		
Target distance	50mm~200mm	√	√
Features			
Display count		100000	100000
Data hold		√	√
Auto power off	Around 15 minutes	√	√
Low battery indication	≤4.8V	√	√
MAX/MIN/AVG mode		√	√
USB interface			√
Power	1.5V battery (LR6) X 4		
Display	53mm x 41mm		
Product color	Red and grey		
Product net weight	100g		
Product size	184mm x 56mm x 34mm		
Standard accessories	Reflective tape, USB interface cable (UT372), PC software CD (UT372)		
Standard individual packing	Blister, English manual		
Standard quantity per carton	20pcs		
Standard carton measurement	420mm x 305mm x 370mm (0.047CBM per standard carton)		
Standard carton gross weight	5kg		

UT373 MINI NON-CONTACT TACHOMETER



UT373 is a reliable digital non-contact tachometer used to measure rotation speed of motors and other machines. This device is able to display results in RPM or revolution count. UT373 is able to safely measure rotational objects through a non-intrusive method.

	Range	Resolution	Accuracy
RPM measurement	10.0~99999RPM	0.1	$\pm(0.04\%+2)$
Counting measurement	0~99999 counts	1	± 1

Features

Auto range	√
Auto power off	√
Low battery indication	√
Laser-on indication	√
Data hold	√
MAX/MIN	√
Overload indication	√
LCD backlight	√
Refresh rate	1s to 7s (>120rpm for 1s)
Sensor type	Photodiode and laser tube
Target distance	50mm~200mm
Measuring angle	$\pm 30^\circ$ from perpendicular
Drop test	1m
Power	1.5V battery (R03) x 3
Display	5-digit segment code; 99999 max display
Product color	Red and grey
Product net weight	85g (excluding battery)
Product size	120mm x 53mm x 28.5mm
Standard accessories	Batteries, reflective tape
Standard individual packing	Bubble bag, gift box, English manual
Standard quantity per carton	20pcs
Standard carton measurement	272mm x 225mm x 220mm
Standard carton gross weight	3kg



UT377A

MINI WOOD MOISTURE METER



UT377A is a digital meter designed to measure the moisture content of wood, paper, plywood, and other wooden materials. This device classifies wood into four categories based on material density, and applies temperature compensation algorithm to ensure measurement accuracy. UT377A's miniature design, low power consumption, and high precision all make this a great product choice for measuring wood moisture content.

	Range	Resolution	Accuracy
Wood moisture	2~40%	0.1%	±2%
Features			
Refresh rate	2 times/s		
Auto range	√		
Auto power off	√		
Low battery indication	√		
Data hold	√		
MAX/MIN	√		
Wood categories	4		
Backlight	√		
Ambient temperature correction	√		
Operating temperature	0°C~40°C		
1m drop test	√		
Power	1.5V battery (R03) x 3		
Display	35mm x 32mm		
Product color	Red and grey		
Product net weight	130g		
Product size	135mm x 53mm x 28mm		
Standard accessories	Batteries		
Standard individual packing	Gift box, bubble bag, English manual		
Standard quantity per carton	20pcs		
Standard carton measurement	272mm x 225mm x 215mm		
Standard carton gross weight	3.5kg		



UT380 SERIES LIGHT METERS



UT380 series light meters measure light intensity and display results in Lux or Fc. It has a high sampling rate of 100/s. UT380 series' low power consumption allows up to 200 hours of continuous operation. Results can be stored within the device and transferred to PC for further analysis, printing and storage.

	Range	UT381	UT382
Illuminance measurement (Lux)	20 Lux~20000 Lux	$\pm(3\%+8)$	$\pm(3\%+8)$
Illuminance measurement (Fc)	2 Fc~2000 Fc	√	√
Features			
Display count		2000	2000
Auto range		√	√
Data hold		√	√
Auto power off	Around 10 minutes	√	√
Low battery indication	Around $\leq 7.1V$	√	√
MAX/MIN mode		√	√
Data storage		2044	2044
USB interface			√
Auto record time setup		√	√
Real-time clock		√	√
Power	9V battery (6LF22)		
Display	22.5mm x 32.5mm		
Product color	Red and grey		
Product net weight	185g		
Product size	195mm x 45mm x 26mm		
Standard accessories	Carrying bag, USB interface cable (UT382), PC software CD (UT382)		
Standard individual packing	Blister, gift box, English manual		
Standard quantity per carton	20pcs		
Standard carton measurement	447mm x 300mm x 335mm		
Standard carton gross weight	7kg		



● UT382



UT383/UT383BT

MINI LIGHT METERS



UT383/UT383BT can effectively measure light intensity and display results in units of Lux or Fc on screen. UT383BT can transfer measurement data through bluetooth to UNI-T's custom mobile APP (iENV) for further analysis, storage, and export. iENV can be downloaded from Google Play, Apple Store, or UNI-T's website by searching 'iENV'.

	UT383	UT383BT
Illuminance measurement (Lux)	0~199,900Lux	0~199,900Lux
Illuminance measurement (Fc)	0~18,500Fc	0~18,500Fc
Accuracy	± (4%+8)	
Resolution	1Lux (0~9999Lux)	
	10Lux (≥10,000Lux)	
	100Lux (≥100,000Lux)	
	1Fc (0~9999Fc); FC=Lux/10.76	
	10Fc (≥10,000Fc); FC=Lux/10.76	
Sampling time	0.5s	
Features		
APP		√
Bluetooth®		√
Overload indication	OL	OL
MAX/MIN	√	√
Data hold	√	√
LCD backlight	√	√
Auto power off	√	√
Low battery indication	√	√
Tripod mounting hole		√
Power	1.5V battery (R03) x 3	
Display	32mm x 26mm	
Product color	Red and grey	
Product net weight	118g	
Product size	160mm x 50mm x 28mm	
Standard accessories	Batteries	
Standard individual packing	Blister, English manual	
Standard quantity per carton	UT383: 40pcs; UT383BT: 20pcs	
Standard carton measurement	UT383: 505mm x 330mm x 280mm UT383BT: 332mm x 262mm x 290mm	
Standard carton gross weight	UT383: 8.42kg; UT383BT: 4.2kg	



● UT383BT



UT383S

DIGITAL LIGHT METER



- Split probe
- Sampling time: 0.5s
- Auto range
- Lux/Fc selectable
- Max/Min
- Overload indication (LO/HI)
- Data hold
- Backlight
- Auto power off
- Low battery indication

Applications:

Public settings, light manufacturing, photo studios, interior renovation, construction, greenhouses.

	Range	Resolution	Accuracy
Illuminance	0~199,900Lux	1Lux (0~9999Lux)	±(4%+8)
		10Lux (≥10,000Lux)	±(5%+10)
		100Lux (≥100,000Lux)	±(5%+10)
		0.1Fc (0~999.9Fc)	±(4%+8)
		1Fc (≥1000Fc)	±(5%+10)
		10Fc (≥10,000Fc)	±(5%+10)

Features

MAX/MIN	√
Data hold	√
Overload indication	√
Backlight	√
Auto power off	√
Power	1.5V battery (R03) x 3
Display	35mm x 32mm
Product color	Red and grey
Product net weight	300g
Product size	110mm x 53mm x 26mm
Standard accessories	Batteries
Standard individual packing	Blister, gift box, English manual
Standard quantity per carton	20pcs
Standard carton measurement	560mm x 300mm x 335mm
Standard carton gross weight	6.9kg

A12T/A13T

TEMPERATURE HUMIDITY METERS



● A12T



● A13T

A12T/13T measures real-time temperature and humidity and display readings on a large screen. These can be used for both indoor and outdoor measurements. A12T has an additional external sensor probe for measuring temperatures of two locations. Both of these meters have alarm clock and 12/24 time mode. A12T displays comfort rating based on the combination of temperature and humidity. Hanging hole and stand are available for wall or table mount.

Applications: Labs, offices, hotels, schools, factories, meeting rooms, airports, pharmacies, warehouses, restaurants, greenhouses, nurseries, gardens, homes, shopping malls, museums, animal husbandry, and more.

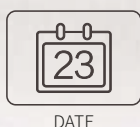
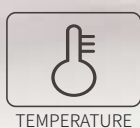
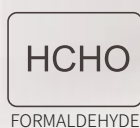


	Range	A12T	A13T
Temperature (°C)	-10°C~50°C	±1°C (0~40°C)	±1°C (0~40°C)
Humidity	20%~95%RH	±5%RH (40%~80%RH)	±5%RH (40%~80%RH)
External temperature probe	-10°C~50°C	±1°C (0~40°C)	
Features			
°C/°F selection		√	√
MAX/MIN		√	
Comfort rating		Wet/dry/comfort	
Sampling time		10s	10s
Alarm clock/time display		√	√
Date/calendar			√
12/24 hour modes		√	√
External temperature probe		√	
Power	1.5V battery (R03) x 1		
Display	92.5mm x 60mm		
Product color	White		
Product net weight	110g		
Product size	130mm x 22mm x 78mm		
Standard accessories	Batteries, External Temperature Probe (A12T)		
Standard individual packing	Gift box, bubble bag, English manual		
Standard quantity per carton	80pcs		
Standard carton measurement	400mm x 330mm x 290mm		
Standard carton gross weight	A12T: 13.2kg; A13T: 12.2kg		

A15F FORMALDEHYDE METER



A15F is an air quality monitor for real time monitoring of formaldehyde (HCHO), a colorless carcinogenic gas. This device is widely used in homes, shopping malls, offices, vehicles and more.



	Range	Resolution	Accuracy
Formaldehyde (mg/m ³)	0~2mg/m ³	0.01mg/m ³	≤0.14mg/m ³ : ±25%+0.05mg/m ³
Temperature (°C)	-10°C~50°C	0.1°C	±1°C
Temperature (°F)	14°F~122°F	0.2°F	±1.8°F
Humidity	0%RH~99%RH	1%RH	±5%RH@30%~80%RH
			±8%RH@<30%RH, >80%RH

Features

Auto power off	√
Low battery indication	√
Date and time	√
Visual backlight alarm	√
MAX/MIN	√
Backlight	√
Concentration emoticon	√
Power	1300mAh rechargeable battery
Display	64.75 x 42mm
Product color	White and grey
Product net weight	230g
Product size	130mm x 75mm x 55.4mm
Standard accessory	1m USB interface cable
Standard individual packing	Gift box, English manual, blister
Standard quantity per carton	5pcs
Standard carton measurement	360mm x 185mm x 140mm
Standard carton gross weight	2.2kg

A25 SERIES

PM2.5 METERS



A25 series air quality meters are used to measure PM2.5 concentration. A25F can also measure formaldehyde. A25 series can be used in homes, laboratories, offices, hotels, schools, factories, airports, hospitals, restaurants, and other public places.

- Precise PM2.5 concentration based on pre-calibrated sensors
- Temperature measurement (°C/°F)
- Humidity measurement (A25D, A25F)
- Emoticon display
- LCD backlight and red backlight alarm
- Battery status, low power, auto power off
- Formaldehyde concentration (A25F)



● A25M



● A25F

	Range	A25M	A25D	A25F
PM2.5 (ug/m ³)	0~100	±(10ug/m ³ +10dgts)	±(10ug/m ³ +10dgts)	±(10ug/m ³ +10dgts)
	101~400	±(10%+30dgts)	±(10%+30dgts)	±(10%+30dgts)
	401~500	±(10%+50dgts)	±(10%+50dgts)	±(10%+50dgts)
Formaldehyde (mg/m ³)	0~2			±25%+0.05mg/m ³
Temperature	-10°C~50°C	For reference only	±1°C	±1°C
Humidity	5%~99%RH		±5%RH@30%~80%RH	±5%RH@30%~80%RH
			±8%RH@<30%RH, >80%RH	±8%RH@<30%RH, >80%RH

Features

Auto power off		√	√	√
Low battery indication		√	√	√
Red backlight alarm		√	√	√
LCD backlight		√	√	√
Concentration emoticon		√	√	√

Power	A25M: 520mAh rechargeable polymer battery; A25D/A25F: 1500mAh rechargeable polymer battery
Display	A25M: 35mm x 35mm; A25D/A25F: 42mm x 65mm
Product color	White and grey
Product net weight	A25M: 85g; A25D/A25F: 230g
Product size	A25M: 64mm x 60mm x 28mm; A25D/A25F: 75mm x 55mm x 130mm
Standard accessories	1m micro USB cable, wall mount (A25M)
Standard individual packing	Gift box, blister, English manual
Standard quantity per carton	A25M: 20pcs; A25D/A25F: 5pcs
Standard carton measurement	A25M: 325mm x 215mm x 210mm; A25D/A25F: 360mm x 185mm x 140mm
Standard carton gross weight	A25M: 4.5kg; A25D/A25F: 2.35kg

A37 CO2 METER



A37 is used to detect CO₂ concentration in different environments. The LCD displays CO₂ concentration, temperature, humidity, and date/time together. Air quality is indicated with emoticons. When CO₂ concentration gets too high, audio and visual alarm will go off.



	Range	Resolution	Accuracy
Carbon dioxide	400ppm~5000ppm	1ppm	±(5% + 50ppm)
Temperature	-10.0°C~50.0°C	0.1°C	±1°C
Relative humidity	0%RH~99%RH	1%RH	±5%RH (10%RH~90%RH) at 25°C
Features			
ABC	Automatic baseline correction		
Audible and visual alarm	√		
Sensor type	NDIR		
Response time	√		
Date/time	√		
Low battery indication	√		
Auto power off	<2 minutes		
Backlight	√		
Operating temperature	0°C~50°C, 0%RH~85%RH		
Storage temperature	-20°C~60°C, 0%RH~95%RH		
Power	3.7V DC Li-ion battery/ Micro USB charging port		
Display	42mm x 65mm		
Product color	White and grey		
Product net weight	195g		
Product size	75mm x 55mm x 130mm		
Standard accessories	Micro USB cable		
Standard individual packing	Gift box, blister, English manual		
Standard quantity per carton	5pcs		
Standard carton measurement	360mm x 185mm x 140mm		
Standard carton gross weight	2.35kg		

A61

DIGITAL THERMOMETER



A61 is an IP65 rated thermometer with FDA certified stainless steel probe. It is equipped with a protective shell to prevent accidental skin puncture and burning. With its portable pen-like design, clear backlight display, and auto power off functions, A61 is a useful temperature measurement tool for cooking, refrigeration, heating, food processing and other applications.



LED alarm



Data hold



Pen-type
design



MAX/MIN/
Real-time



IP65



Unit
conversion



	Range
Measurement range	-40°C~250°C (-40°F~482°F)
Accuracy	±1°C (-20°C≤T<100°C)
	±2°C (T<-20°C; T≥100°C)
	±2°F (-4°F≤T<212°F)
	±4°F (T<-4°F; T≥212°F)
Minimum measuring depth	12mm
Sensor	NTC
Stabilization time	20s
Resolution	0.1°C (0.1°F)
Power	3V button cell×1 (CR1632)
Battery duration	12h
Operating temperature	0°C~40°C (32°F~104°F)
Storage temperature	-20°C~60°C (-4°F~140°F)
Operating humidity	<RH80% (Non condensable)
Power	3V battery (CR1632)
Display	26.6mm x 10.6mm
Product color	White and grey
Product net weight	50.8g
Product size	190mm x 29.5mm x 15.5mm
Standard accessory	Battery
Standard individual packing	Blister, English manual
Standard quantity per carton	40pcs
Standard carton measurement	520mm x 210mm x 280mm
Standard carton gross weight	5kg

LAYOUT AND MEASUREMENT TOOLS

From home DIY projects to utility project layouts, UNI-T's layout and measurement tools can help to accurately measure distance (laser distance meter), project horizontal/vertical levels (laser levels), and detect objects behind walls during construction (wall scanners).



LM MINI/T SERIES

LASER DISTANCE METERS/LASER TAPE



One-button
operation



Single
measurement



Rear measurement
reference



Unit
conversion



Dual measurement
methods (LM40T)



Portable and
compact



● LM40T

	LM20m	LM40m	LM40T
Display type	LCD		
Display size	1.2-inches		
Range	20m	40m	40m; tape: 5m
Min. display unit	0.001m		
Measurement units	m/ft+in		
measurement basis	Rear		
Accuracy	±2mm		
Laser class	2		
Laser type	630~670nm, <1mW		
Features			
Single measurement	√		
Auto power off	√		
Auto laser off	√		
Battery status display	√		
Drop test	1m		
Power	1.5V battery (LR03) x 2		
Product color	Red and grey		
Product net weight	LM20m/40m: 53.5g; LM40T: 305g		
Product size	LM20m/40m: 100mm x 37mm x 23.5mm LM40T: 86mm x 50mm x 80mm		
Standard accessories	Carrying bag (LM20m/40m)		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	LM20m/40m: 60pcs; LM40T: 20pcs		
Standard carton measurement	LM20m/40m: 375mm x 225mm x 350mm LM40T: 345mm x 315mm x 230mm		
Standard carton gross weight	LM20m/40m: 7.2kg; LM40T: 8.7kg		



● LM40m

LM e SERIES LASER DISTANCE METERS

NEW


1.8-inch
backlit screen

6 measurement
modes

Front/Rear
measurement
reference

Alkaline
battery

20 groups of
data storage

Applications:

It can be used in interior/exterior design, construction, factory supervision, engineering inspection, traffic accident evidence gathering, real estate development, fire assessment, and more.



	LM40e	LM50e	LM60e
Display type	FSTN		
Display size	1.8-inches		
Range	40m	50m	60m
Min. display unit	0.001m		
Measurement units	m/ft/in/ft+in		
Measurement basis	Front/rear		
Accuracy	±2mm		
Laser class	2		
Laser type	630~670nm, <1mW		
Features			
Single measurement	√		
Continuous measurement	√		
Max/Min/Area	√		
Volume/Pythagoras	√		
Add/Subtract	√		
Data storage	20 groups		
Auto laser off	30s without operation		
Auto power off	√		
Battery status display	√		
Power	1.5V battery (LR03) x 2		
Product color	Red and grey		
Product net weight	106g		
Product size	110mm x 52mm x 28mm		
Standard accessories	Carrying bag		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	60pcs		
Standard carton measurement	420mm x 295mm x 355mm		
Standard carton gross weight	LM40e/50e: 11.8kg; LM60e: 12.4kg		



● **LM150**

- Ergonomic exterior, comfortable handling
- Millimeter accuracy
- Large, multiple angle HD display
- Quick, auto calculation with real-time readout
- Physical leveler
- Auto power off after 3 minutes without operation

	LM40	LM50	LM60	LM80	LM100	LM120	LM150
Display type	EBTN			TN			
Display size	2.0-inches						
Range	40m	50m	60m	80m	100m	120m	150m
Min. display unit	0.001m						
Measurement units	m/ft/in						
Measurement basis	front/rear						
Accuracy	±(2mm+5 x 10 ⁻⁵ D)						
Laser class	2						
Laser type	630~670nm, <1mW						
Features							
Volume/Pythagoras	√						
Add/Subtract	√						
Auto leveling horizontal/vertical	—			√			
Tilt angle	—			±90.0°			
Data storage	20 groups						
Auto laser off	30s without operation						
Auto backlight off	10s without operation						
Audio indication	√						
Battery status display	√						
Power	1.5V battery (LR03) x 2						
Product color	Red and grey						
Product net weight	108.8g						
Product size	122mm x 52mm x 29.5mm						
Standard accessories	Carrying bag						
Standard individual packing	Gift box, English manual						
Standard quantity per carton	LM40/50/60/80: 60pcs; LM100/120/150: 20pcs						
Standard carton measurement	LM40/50/60/80: 520mm x 470mm x 345mm; LM100/120/150: 355mm x 340mm x 255mm						
Standard carton gross weight	LM40/50/60/80: 15.3kg; LM100/120/150: 5.2kg						

LM PRO SERIES

LASER DISTANCE METERS



2.4-inch
color screen



6 measurement
modes



3 selectable
measurement
references



Electronic
leveling



20 groups
of data storage



IP65
dust and
water proof



2m drop
test



USB supply
power



	LM70PRO	LM100PRO	LM120PRO
Display type	EBTN		
Display size	2.4-inches		
Range	70m	100m	120m
Min. display unit	0.001m		
Measurement units	m/ft/in/ft+in		
Measurement basis	Front/middle/rear		
Accuracy	±2mm		
Laser class	2		
Laser type	630~670nm, <1mW		
Features			
Single measurement	√		
Continuous measurement	√		
Max/Min/Area	√		
Volume/Pythagoras	√		
Add/Subtract/Triangle area	√		
Auto leveling horizontal/vertical	√		
Electronic leveler	√		
Data storage	20 groups		
Auto power off	√		
Auto backlight off	√		
Battery status display	√		
USB charging	√		
Tripod mounting hole	√		
Power	1.2V AAA recharge battery x 3		
Product color	Red and grey		
Product net weight	170g		
Product size	59mm x 28mm x 137mm		
Standard accessories	Carrying bag, USB interface cable		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	20pcs		
Standard carton measurement	390mm x 255mm x 345mm		
Standard carton gross weight	8.3kg		

LM EX SERIES

LASER DISTANCE METERS



2.4-inch color screen



9 measurement modes



3 selectable measurement references



Electronic leveling



USB supply power



20 groups of data storage



Rotatable screen



IP65 dust and water proof



2m drop test



Rotatable screen

	LM50EX	LM70EX	LM100EX
Display type	TFT		
Display size	2.4-inches		
Range	50m	70m	100m
Min. display unit	0.001m		
Measurement units	m/ft/in		
Measurement basis	Front/middle/rear		
Accuracy	±2mm		
Laser class	2		
Laser type	630~670nm, <1mW		
Features			
Single measurement	√		
Continuous measurement	√		
Max/Min/Area	√		
Volume/Pythagoras	√		
Add/Subtract/Triangle area	√		
Rotatable screen	√		
Auto leveling horizontal/vertical	√		
Electronic leveler	√		
Data storage	20 groups		
Auto power off	√		
Auto backlight off	√		
Battery status display	√		
USB charging	√		
Tripod mounting hole	√		
Power	1.2V AAA recharge battery x 3		
Product color	Red and grey		
Product net weight	170g		
Product size	59mm x 28mm x 137mm		
Standard accessories	Carrying bag, USB interface cable		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	20pcs		
Standard carton measurement	390mm x 255mm x 345mm		
Standard carton gross weight	8.3kg		

LM CAM SERIES

LASER DISTANCE METERS



2.4-inch
color screen



12 measurement
modes



Electronic
leveling



3 selectable
measurement
references



USB supply
power



100 groups of
data storage



Rotatable
screen



Camera-aided
measurement



2m drop
test



IP65
dust and water
proof



	LM80C	LM120C	LM200C
Display type	IPS		
Display size	2.4-inches		
Range	80m	120m	200m
Min. display unit	0.001m		
Measurement units	m/ft/in/ft+in		
Measurement basis	Front/middle/rear		
Accuracy	±2mm		
Laser class	2		
Laser type	630~670nm, <1mW		
Features			
Single measurement	√		
Continuous measurement	√		
Max/Min/Area	√		
Volume/Pythagoras	√		
Add/Subtract/Triangle area	√		
Camera mode	√		
Rotatable screen	√		
Auto leveling horizontal/vertical	√		
Electronic leveler	√		
Data storage	100 groups		
Auto power off	√		
Auto backlight off	√		
Battery status display	√		
USB charging	√		
Tripod mounting hole	√		
Power	1.2V AAA recharge battery x 3		
Product color	Red and grey		
Product net weight	170g		
Product size	59mm x 28mm x 137mm		
Standard accessories	Carrying bag, USB interface cable		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	20pcs		
Standard carton measurement	390mm x 255mm x 345mm		
Standard carton gross weight	8.3kg		

Applications:

It can be used in interior/exterior design, construction, factory supervision, engineering inspection, traffic accident evidence gathering, real estate development, fire assessment, and more.

LM DESIGNER SERIES

LASER DISTANCE METERS



● LM100D

Applications

Interior/exterior design, construction, factory supervision, engineering inspection, traffic accident evidence gathering, real estate development, fire assessment, and more.



Curvature measurement

- Ergonomic exterior, comfortable handling
- Millimeter accuracy
- Large, HD display
- USB supply power
- Auto voice and audio indication
- Curvature measurement, test curve length via the roller
- Auto power off after 3 minutes without operation
- Convenient angle measurement via electronic leveling

	LM50D	LM100D
Display type	EBTN	
Display size	2.4-inches	
Range	50m	100m
Min. display unit	0.001m	
Measurement units	m/ft/in	
Measurement basis	Front/middle/rear	
Accuracy	±(2mm+5 x 10 ⁻⁵ D)	
Laser class	2	
Laser type	630~670nm, < 1mW	
Features		
Single measurement	√	
Continuous measurement	√	
Max/Min/Area	√	
Volume/Pythagoras	√	
Triangle area	√	
Auto leveling horizontal	√	
Auto leveling vertical	√	
Add/Subtract	√	
Displacement	√	
Trapezoid	√	
Data storage	20 groups	
Auto laser off	30s without operation	
Auto backlight off	10s without operation	
Electronic leveler	√	
Audio indication	√	
Battery status display	√	
Tripod mounting hole	√	
Power	1.5V battery (LR03) x 3	
Product color	Red and grey	
Product net weight	125g	
Product size	137mm x 55mm x 26mm	
Standard accessories	Carrying bag	
Standard individual packing	Gift box, English manual	
Standard quantity per carton	40pcs	
Standard carton measurement	485mm x 362mm x 355mm	
Standard carton gross weight	10.2kg	

LM570-I SERIES LASER LEVELS



(LM570R-I)

(LM570R-I)

LM570 series line laser level are handy tools used in construction. These are ideal tools for horizontal and vertical leveling needs. It is useful for project that requires accurate leveling in 2-dimensional area.

Applications:

Home decoration, renovation, construction, grading, electrical installation, furniture installation, and more.



	LM570R-I	LM570LD-I
Display type	Red	Green
Laser type	1V1H (1 laser)	
Expanded Angle	H110°/V110°	
Laser class	Class 2	
Light source	10mW	
Laser wavelength	635nm	510nm
H/V accuracy	±3mm/10m	
Self-leveling range	3°±1°	
Self-leveling time	3s	
Working distance (Line)	15m-30m	20m-40m
Operating time	>12h (All lasers on)	>4h (All lasers on)
Tripod mounting hole	√	
Power	2 x AA (LR6)	
Product color	White and grey	
Product net weight	260g	
Product size	75.5mm x 65mm x 75mm	
Standard accessories	Carrying bag	
Standard individual packing	Gift box, English manual	
Standard quantity per carton	40pcs	
Standard carton measurement	520mm x 295mm x 415mm	
Standard carton gross weight	19.2kg	

LM571-I SERIES

LASER LEVELS



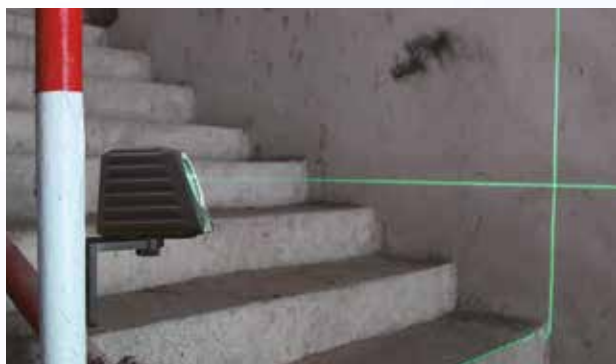
(LM571R-I) (LM571R-I)

LM571 series line laser level are handy tools used in construction. These are ideal tools for horizontal and vertical leveling needs.

It is useful for project that requires accurate leveling in 2 dimension area.

Applications:

Home decoration, renovation, construction, grading, electrical installation, furniture installation, and more.



	LM571R-I	LM571LD-I
Display type	Red	Green
Laser type	1V1H (2 lasers)	
Expanded Angle	H130°/V150°	
Laser class	Class 2	
Light source	10mW	
Laser wavelength	635nm	510nm
H/V accuracy	±2mm/10m	
Self-leveling range	3°±1°	
Self-leveling time	3s	
Working distance (Line)	20m; >30m with detector	
Operating time	>12h (All lasers on)	>4h(All lasers on)
Tripod mounting hole	√	
Power	4 x AA (LR6)	
Product color	White and grey	
Product net weight	330g	
Product size	94mm x 84mm x 58mm	
Standard accessories	Carrying bag	
Standard individual packing	Gift box, English manual	
Standard quantity per carton	24pcs	
Standard carton measurement	500mm x 355mm x 335mm	
Standard carton gross weight	18.2kg	



150° wide projection angle

LM SERIES LASER RANGEFINDERS



UNI-T's new LM series laser rangefinders enable accurate measurement of height, distance, and angle. The new speed measurement function adopts low power pulsed laser that is safe for the eyes. The new and improved LM series laser rangefinders are perfect tools for a wide variety of applications such as engineering surveying, power line inspection, building construction, navigation, golf, and hunting.



7X optical
zoom telescope



HD coating



Skidproof



Built-in
Li-ion battery



Distance:
5~1500yd



Height:
0~600yd



Speed: 0~300km/h
(0~186mi/h)



Angle: $\pm 45^\circ$



	LM600	LM800	LM1000	LM1200	LM1500
Distance range	5~600yd	5~800yd	5~1000yd	5~1200yd	5~1500yd
Accuracy	± 1yd ± D x 0.2%				
Magnification	7X				
Objective caliber	25mm				
Height	250yd	300yd	450yd	500yd	600yd
Height error	± 0.5yd				
Velocity range	0-300km/h (reference only)				
Angle	± 45°				
Angle error	± 1°				
Features					
Pulse laser	Harmless to eyes				
Fast distance measurement/LCD display	√				
Silent operation	Auto power off system				
Tripod mounting hole	√				
Power	3.7V Li-ion battery 1500mAh				
Product color	Red and grey				
Product net weight	230g				
Product size	114mm x 76mm x 48mm				
Standard accessories	Carrying bag, hanging cord, USB interface cable				
Standard individual packing	Gift box, English manual				
Standard quantity per carton	6pcs				
Standard carton measurement	350mm x 315mm x 112mm				
Standard carton gross weight	LM600/LM800: 2.6kg; LM1000/LM1200/LM1500: 2.94kg				

UT387 SERIES

WALL SCANNERS

UT387 series wall scanners are great tools designed for construction and home improvement sector. These scanners can pick up hidden objects behind walls, such as metals, live electrical wires, and wood. UT387A is designed for dry wall, but it can also effectively scan hardwood flooring, plywood, and coated wooden walls. It has two scanning modes, these are used for scanning walls of different thickness.

	UT387A		UT387B
Maximum detectable distance	StudScan	ThickScan	
Ferrous metals	19mm	28.5mm	80mm
Non-ferrous metals	19mm	28.5mm	80mm
Copper conductors (live)	50mm		50mm
Wood	19mm	28.5mm	20mm
Features			
Scanning modes	StudScan and ThickScan		
Auto calibration	√		
User calibration			√
Buzzer indication	√		√
Auto power off	√		√
Silent mode			√
Error calibration alarm	√		
LED alarm	√		√
Low battery indication	√		√
Power	9V battery (6F22)		
Product color	Red and grey		
Product net weight	UT387A: 153g; UT387B: 274g		
Product size	UT387A: 170mm x 70.5mm x 38.9mm UT387B: 220mm x 83mm x 30mm		
Standard accessories	Battery, carrying bag (UT387B)		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	10pcs		
Standard carton measurement	295mm x 290mm x 205mm		
Standard carton gross weight	4.5kg		



● UT387A



● UT387B

UT665 BORESCOPE



UT665 borescope displays clear images through a flexible camera probe. It is useful for viewing details of automobiles engine, pipelines, inner building walls, drain pipes, and other hard to reach locations. It is designed with 4-level adjustable LED lights and 180 degrees viewing angle IP67 probe. UT665 can perform non-destructive testing in complex industrial environments.



	Range
Pixels	640 × 480
Lens diameter	9mm (Max. 10mm)
LCD size	2.4 inches
Probe length	1m
Screen type	TFT
Features	
Light source	4 LED lights
Depth of field	>20mm
Water proof	IP67 (probe only)
Video signal	Analog
Field of view	60°
Image brightness	6 levels-adjustable
Illumination	4 levels-adjustable
Flippable image	√
Battery power indicator	√
Power	1.5V battery (R6) x 4
Display	2.36 inches
Product color	Red and grey
Product net weight	500g
Product size	196mm x 74mm x 97mm
Standard accessories	Camera probe, batteries
Standard individual packing	Gift box, blister, English manual
Standard quantity per carton	8pcs
Standard carton measurement	455mm x 410mm x 275mm
Standard carton gross weight	6.4kg

ELECTRICAL INSTALLATION TESTERS

Electricity is a double-edged sword. It can bring us convenience by powering our homes, or it could be a curse when it is unsafely handled. For example, the break down of electric motors, cables and household appliances by high voltage or environmental factors such as corrosion, sunlight, humidity and dust may affect insulation or earth ground protection. These events may result in economic and energy loss, human injury, or even lead to catastrophes. UNI-T helps to minimize these risks by providing accurate and safe meters for measuring insulation, earth ground resistance, RCD, etc.



UT505 SERIES HANDHELD INSULATION RESISTANCE TESTERS



UT505 series handheld true RMS insulation resistance testers combine features of a digital multimeter and insulation resistance tester. Aside from the typical multimeter functions, these meters can also measure insulation resistance, PI, DAR, and automatically calculate resistance ratio to determine the insulation status.

UT505 can be used in insulation resistance testing of precision tools, including motors, cables, transformers, switches, electrical appliances, and insulated materials.

		Range	UT505A	UT505B
Insulation resistance (Ω)	50V	50V/100V/250V/500V/1000V	0%~10%	0%~20%
		0.01MΩ~50MΩ	± (3%+5)	± (3%+3)
		50MΩ~1GΩ		± (3%+3)
	100V	1GΩ~10GΩ		± (10%+3)
		0.01MΩ~100MΩ	± (3%+5)	± (3%+3)
		100MΩ~1GΩ		± (3%+3)
	250V	1GΩ~20GΩ		± (10%+3)
		0.01MΩ~200MΩ	± (1.5%+5)	± (1.5%+5)
		200MΩ~1GΩ		± (1.5%+5)
	500V	1GΩ~50GΩ		± (10%+3)
		0.01MΩ~500MΩ	± (1.5%+5)	± (1.5%+5)
		500MΩ~1GΩ		± (1.5%+5)
	1000V	1GΩ~100GΩ		± (10%+3)
		0.1MΩ~2000MΩ	± (1.5%+5)	± (1.5%+5)
		2GΩ~9.9GΩ	± (10%+3)	± (5%+3)
		10GΩ~20GΩ	± (20%+10)	± (7%+3)
		20GΩ~200GΩ		± (20%+3)
	Load current	50V (R=50kΩ) 1mA	0%~10%	0%~10%
		100V (R=100kΩ) 1mA	0%~10%	0%~10%
		250V (R=250kΩ) 1mA	0%~10%	0%~10%
		500V (R=500kΩ) 1mA	0%~10%	0%~10%
		1000V (R=1MΩ) 1mA	0%~10%	0%~10%
	Short circuit current		<2mA	<2mA
Leakage current (A)	10~2000μA			± (10%+3)
Low resistance (Ω)	0.01Ω~20kΩ (about 5V/>200mA)		± (1.5%+3)	
	0.01Ω~100Ω (about 5V/>200mA/20mA optional)			± (1.5%+3)
General resistance (Ω)	0.01kΩ~10MΩ			± (3%+3)
DC voltage (V)	0V~600V		± (2%+3)	± (2%+3)
AC voltage (V)	0V~600V		± (2%+3)	± (1.5%+5)
Frequency (Hz)	45~1kHz			± (0.1%+3)
Capacitance (F)	100pF~500μF			± (5%+5)
Display count			6000	6000
Features				
Step voltage			√	√
Auto power off			√	√
Auto range			√	√
LCD backlight			√	√
Data hold			√	√
Low battery indication			√	√
Compliance standard	IEC 61557; 61557-1:2007; 61557-2:2007; 61557-4:2007			
Power	1.5V battery (LR6) x 6			
Display	78mm x 59mm			
Product color	Red and grey			
Product net weight	630g			
Product size	103mm x 225mm x 59mm			
Std. accessories	Batteries, test leads, test probes, alligator clips			
Std. individual packing	Carrying bag, gift box, English manual			
Std. quantity per carton	5pcs			
Std. carton measurement	325mm x 320mm x 205mm			
Std. carton gross weight	UT505A: 5.5kg; UT505B: 6.3kg			
Optional accessory	Remote test lead			



● UT505A

- Analog bar graph
- True RMS
- DARPI/Timing measurement
- Comparison measurement
- Auto fuse check (UT505B)
- High voltage output alarm
- Auto discharge
- Continuity buzzer
- 99-group data storage

UT500 SERIES

INSULATION RESISTANCE TESTERS



(UT501A)



● UT502A

	Range	UT501A	UT501B	UT502A
Insulation resistance (Ω)				
Test voltages	100V/250V/500V/1000V	0%~10%		
	250V/500V/1000V		0%~10%	
	500V/1000V/2500V			0%~10%
100V	0M Ω ~100M Ω	$\pm(3\%+5)$		
250V	0M Ω ~99.9M Ω	$\pm(3\%+5)$	$\pm(3\%+5)$	
	100M Ω ~5G Ω	$\pm(5\%+5)$	$\pm(5\%+5)$	
500V	0M Ω ~99.9M Ω	$\pm(3\%+5)$	$\pm(3\%+5)$	$\pm(3\%+5)$
	100M Ω ~5G Ω	$\pm(5\%+5)$	$\pm(5\%+5)$	$\pm(5\%+5)$
1000V	0M Ω ~99.9M Ω	$\pm(3\%+5)$	$\pm(3\%+5)$	$\pm(3\%+5)$
	100M Ω ~5G Ω	$\pm(5\%+5)$	$\pm(5\%+5)$	$\pm(5\%+5)$
2500V	0M Ω ~99.9M Ω			$\pm(3\%+5)$
	100M Ω ~9.9G Ω			$\pm(5\%+5)$
	10G Ω ~20G Ω			$\pm(10\%+5)$
Load current	50V (R=50k Ω) 1mA	0%~10%	0%~10%	0%~10%
	100V (R=100k Ω) 1mA	0%~10%	0%~10%	0%~10%
	250V (R=250k Ω) 1mA	0%~10%	0%~10%	0%~10%
	500V (R=500k Ω) 1mA	0%~10%	0%~10%	0%~10%
	1000V (R=1M Ω) 1mA	0%~10%	0%~10%	0%~10%
	2500V (R=1M Ω) 1mA			0%~10%
Short-circuit current		<2mA	<2mA	<2mA
Low resistance (Ω)	0.01 Ω ~200 Ω (about 5.0V/>200mA)			
AC voltage (V)	30V~750V	$\pm(2\%+3)$	$\pm(2\%+3)$	$\pm(2\%+3)$
Features				
Display count		2000	2000	2000
DAR	60s/15s and 60s/30s		✓	✓
PI			✓	✓
Auto range/Low battery indication		✓	✓	✓
LCD backlight/Light alarm		✓	✓	✓
Buzzer alarm/High voltage indication		✓	✓	✓
Over load indication/Auto discharge		✓	✓	✓
Test voltage secondary display		✓	✓	✓
10M Ω internal resistance test		✓	✓	✓
Meets IEC 61557	61557-1:2007; 61557-2:2007; 61557-4:2007 (UT502A only)			
Power	1.5V battery (LR6) x 6			
Display	70.6mm x 34mm			
Product color	Red and grey			
Product net weight	500g			
Product size	150mm x 100mm x 71mm			
Standard accessories	Batteries, test leads, alligator clips, elastic strap, test probes (UT502A)			
Standard individual packing	Gift box, carrying bag, English manual			
Standard quantity per carton	20pcs			
Standard carton measurement	500mm x 380mm x 330mm			
Standard carton gross weight	UT501A: 17.7kg; UT501B: 20.9kg; UT502A: 18.9kg			

UT510 SERIES INSULATION RESISTANCE TESTERS



	Range	UT511	UT512 UT512A	UT513A
Insulation resistance (Ω)				
Test voltages	100V~1000V	0%~10%		
	500V~2500V		0%~20%	
	500V~5000V			0%~20%
100V	0.1M Ω ~500M Ω	$\pm(3\%+5)$		
250V	0.5M Ω ~2G Ω	$\pm(3\%+5)$		
500V	1M Ω ~4G Ω	$\pm(3\%+5)$		
	0.5M Ω ~5G Ω		$\pm(3\%+5)$	
	0.5M Ω ~20G Ω			$\pm(3\%+5)$
1000V	2M Ω ~10G Ω	$\pm(3\%+5)$	$\pm(3\%+5)$	
	1M Ω ~40G Ω			$\pm(3\%+5)$
1500V	5M Ω ~20G Ω		$\pm(3\%+5)$	
2500V	2.5M Ω ~100G Ω			$\pm(3\%+5)$
	10M Ω ~100G Ω		$\pm(3\%+5)$	
5000V	5M Ω ~1000G Ω			$\pm(3\%+5)$
DC voltage (V)	1000V	$\pm(2\%+3)$		
	600V		$\pm(2\%+5)$	$\pm(2\%+3)$
AC voltage (V)	750V	$\pm(2\%+3)$		
	600V		$\pm(2\%+5)$	$\pm(2\%+3)$
Short-circuit current		<2mA	<1.8mA	>3mA
Low resistance (Ω)	0.1 Ω ~999.9 Ω	$\pm(1\%+3)$		
Features				
Auto range/Auto power off		✓	✓	✓
Test voltage secondary display				✓
Low battery indication		✓	✓	✓
Data storage		18	18	18
Comparison measurement		✓	✓	✓
Polarization index (PI)		✓	✓	✓
Dielectric absorption ratio (DAR)		✓	✓	✓
USB interface			✓	✓
Analog bar graph		30	30	30
LCD backlight		✓	✓	✓
Over-range warning		✓	✓	✓
High voltage indication		✓	✓	✓
Timing measurement	Around 30 minutes	✓		
	Around 15 minutes		✓	✓
Meets IEC 61557	UT512A/UT513A: 61557-1:2007; 61557-2:2007			
Power	1.5V battery (LR14) x 8			
Display	123mm x 58mm			
Product color	Red and grey			
Product net weight	UT511: 1.2kg; UT512/UT512A: 1.8kg; UT513A: 2kg			
Product size	202mm x 155mm x 94mm			
Standard accessories	2pcs of one plug test lead to one alligator clip (black and green), 1pcs of two plugs test lead to one alligator clip (red), batteries, USB cable (UT512/UT512A/UT513A), PC software CD (UT512/UT512A/UT513A), power adaptor (UT512/UT512A/UT513A)			
Standard individual packing	Gift box, tool box, English manual			
Standard quantity per carton	4pcs			
Standard carton measurement	505mm x 345mm x 345mm			
Standard carton gross weight	UT511: 13.4kg; UT512/UT512A: 15.9kg; UT513A: 18.9kg			
Optional accessories	Power adaptor (UT511)			



● UT513A

UT520 SERIES

DIGITAL EARTH TESTERS



● UT522

UT520 series can perform precise 3-wire and simple 2-wire earth resistance measurement for power and electrical systems, lightning protection equipment, and ground system of all electrical equipment. This series is UNI-T's introductory earth resistance tester with high economic value. Its light weight design is convenient for field work.

	Range	UT521	UT522
Earth resistance (Ω)	0~20 Ω	$\pm(2\%+10)$	
	0~200 Ω	$\pm(2\%+3)$	
	0~2000 Ω	$\pm(2\%+3)$	
	0~40 Ω		$\pm(2\%+20)$
	0~400 Ω		$\pm(2\%+3)$
	0~4000 Ω		$\pm(2\%+3)$
AC earth voltage (V)	0~200V	$\pm(1\%+4)$	
	0~400V		$\pm(1\%+6)$
	Frequency: 50Hz/60Hz	✓	✓

Features

Display count		2000	4000
Manual range		✓	✓
Auto power off	Around 10 minutes	✓	✓
Low battery indication		✓	✓
Data hold		✓	✓
Data storage		20	20
LCD backlight		✓	✓
Full icon display		✓	✓
Double insulation protection		✓	✓
Poor contact display	"... Ω "	✓	✓
Over-range display	Display "OL"	✓	✓
Simple 2-wire testing		✓	✓
Precise 3-wire testing		✓	✓
Power	1.5V battery (LR6) x 6		
Display	70.6mm x 34mm		
Product color	Red and grey		
Product net weight	560g		
Product size	160mm x 100mm x 70.5mm		
Standard accessories	Batteries, simple test leads with alligator clips, standard test leads with alligator clips, earth spike, elastic strap		
Standard individual packing	Gift box, carrying bag, English manual		
Standard quantity per carton	8pcs		
Standard carton measurement	530mm x 300mm x 350mm		
Standard carton gross weight	19kg		

UT526

MULTIFUNCTION ELECTRICAL METER



UT526 is a multifunctional electrical installation tester. It can be used to test insulation resistance, RCD status, low resistance continuity, and voltage measurements. UT526 can also be used to test power distribution system, lightning protection system and wiring systems to ensure safe operations.

		Range	UT526
Insulation resistance (Ω)	Test voltages	250V/500V/1000V	$\pm 10\%$
	250V	0.05M Ω ~200M Ω	$\pm (5\%+5)$
	500V	0.05M Ω ~300M Ω	$\pm (5\%+5)$
	1000V	0.05M Ω ~500M Ω	$\pm (5\%+5)$
	Load current	250V (R=250k Ω) 1mA	$\pm 10\%$
		500V (R=500k Ω) 1mA	$\pm 10\%$
		1000V (R=1M Ω) 1mA	$\pm 10\%$
RCD	Short circuit current	<2mA	$\sqrt$
	Operating voltage (Freq.)	220V (45Hz~65Hz)	$\pm 10\%$
	Test current	10mA/30mA/100mA/300mA	0~20%
	Trip time	0ms~2000ms, 1 Δ n general (10mA)	$\pm (5\%+2)$
		0ms~500ms, 1 Δ n general	
Low resistance continuity	Range	0 Ω ~2000 Ω	$\pm (2\%+5)$
	Test voltage	Around 5V	$\sqrt$
	Test current	>200mA (R<2 Ω)	$\sqrt$
Voltage measurement (V)	DC voltage	0~440V	$\pm (5\%+2)$
	AC voltage	0~440V	$\pm (5\%+2)$
	Frequency (For reference only)		$\sqrt$

Features

Display count		10000
Manual range		$\sqrt$
Phase switch (RCD)	0°and 180°	$\sqrt$
Low battery indication		$\sqrt$
Auto AC/DC voltage identification		$\sqrt$
Red warning lights		$\sqrt$
Power	1.5V battery (LR6) x 6	
Display	71mm x 34mm	
Product color	Red and grey	
Product net weight	380g	
Product size	160mm x 100mm x 71mm	
Standard accessories	Batteries, carrying bag, elastic strap, test leads, alligator clips, test line	
Standard individual packing	Gift box, English manual	
Standard quantity per carton	10pcs	
Standard carton measurement	445mm x 440mm x 180mm	
Standard carton gross weight	12.8kg	

UT572

ADVANCED EARTH RESISTANCE TESTER



UT572 is for measuring earth resistance and soil resistivity. It can automatically check interface connection and detect interference voltage/frequency, with data hold and indication functions. It can perform 2/3/4-wire measurements for different on-site applications, such as power equipment wiring and lightning protection equipment.



	Range	Accuracy
Earth resistance (Re)	4Ω	±(3%+15)
	40Ω/400Ω/4kΩ/40kΩ	±(3%+5)
Soil resistivity (ρ)	4Ω	±(3%+15)
	40Ω/400Ω/4kΩ/40kΩ	±(3%+5)
Disturbance voltage (Ust)	50V (DC voltage/40Hz~500Hz)	±(3%+3)
Disturbance frequency (Fst)	40Hz~500Hz	±(1%+2)
Features		
2/3/4-wire test		√
Earth resistance test frequency	94/128Hz	√
Soil resistivity test distances	1~40m	√
Earth resistance RH and RS test		√
Compensating resistance RK test		√
Data hold		√
Data storage		20
LCD backlight		√
Auto power off	Around 5 minutes	√
Low battery indication	≤9.5V	√
Power	1.5V battery (LR6) x 8	
Display	125mm x 37mm	
Product color	Red and grey	
Product net weight	1.1kg	
Product size	210mm x 175mm x 90 mm	
Standard accessories	Batteries, simple test leads with alligator clips(double plugs x 1, single plug x 1), earth spike x 4, standard test leads with alligator clips (40m red x 1, 20m red x 1, 20m black x 1, 10m yellow x 1, 5m green x 1), elastic strap	
Standard individual packing	Gift box, carrying bag, toolbox, English manual	
Standard quantity per carton	2pcs	
Standard carton measurement	475mm x 378mm x 335mm	
Standard carton gross weight	14kg	



UT582+ DIGITAL RCD (ELCB) TESTER



UT582+ is mainly used to detect whether the RCD in the circuit can be triggered normally. **It is only suitable for single-phase circuits with the supply voltage range of 195V~253V.** Its voltage measurement range is 30V~600V, 45Hz~65Hz.



		Range		Accuracy
RCD measurement	Range setting	Rated operating current	Trip time	
	X 1/2	10mA/20mA/30mA/100mA/300mA/500mA	2000ms	-10%~0%
	X 1	10mA/20mA/30mA/100mA/300mA	1000ms	0%~10%
		500mA	300ms	0%~10%
	X 5	10mA/20mA/30mA	40ms	0%~10%
	AUTO RAMP	10mA/20mA/30mA/100mA/300mA/500mA	300ms	-10%~10%
	Trip time accuracy	$\pm (2\%+2)$		
	Operating voltage (Freq.)	195V~253V		
Voltage measurement	Voltage range	30~600V		
	Frequency	45Hz~65Hz		
	Resolution	1V		
	Accuracy	$\pm (3\%+3)$		

Features

Display count	999
Power off gear	√
Low battery indication	<7.2V
APO	Auto power off function
LCD backlight	√
Data hold	√
Phase angle selection	0° and 180°
Connections check	Simultaneously test the trip time and trip current
AUTO RAMP	√
Disconnect buzzer	√
Over-range display	OL
Fused	√
Mis-operation buzzer	√
Power off buzzer	√
Full icon display	√
Compliance standard	IEC 61010-1, IEC 61010-2-030, IEC 61010-2-033, IEC 61557-1:2007; IEC 61557-6:2007, EN61326-1, EN61326-2-2
Lead sequence check	LCD
Power	1.5V battery (LR6) x 6
Display	71mm x 34mm
Product color	Red and grey
Product net weight	400g
Product size	160mm x 100mm x 71mm
Standard accessories	Test line, carrying bag, elastic strap
Standard individual packing	Gift box, English manual
Standard quantity per carton	5pcs
Standard carton measurement	425mm x 280mm x 180mm
Standard carton gross weight	4.9kg

UT585/586

DIGITAL RCD (ELCB) TESTERS



UT580 series digital RCD (ELCB) testers are necessary tools for engineering quality monitoring by measuring RCD (ELCB) trip time and current. Users can set X1/2, X1, X2, X5 the rated trip current to check RCD (ELCB) response rate under various conditions.



● UT586

	Range	UT585	UT586
RCD measurement			
Range setting	Rated operating current	Trip time	
x 1/2	10mA/20mA/30mA/100mA/300mA/500mA	1000ms	√
	10mA/20mA/30mA/100mA/200mA/300mA/500mA/1000mA	2000ms	√
x 1	10mA/20mA/30mA/100mA/300mA/500mA	1000ms	√
	10mA/20mA/30mA/100mA/200mA/300mA	2000ms	√
	500mA/1000mA	200ms	√
x 2	10mA/20mA/30mA/100mA/300mA	1000ms	√
	10mA/20mA/30mA/100mA/200mA/300mA/500mA	200ms	√
x 5	10mA/20mA/30mA/100mA/200mA	300ms	√
	10mA/20mA/30mA/100mA/200mA	200ms	√
AUTO RAMP	10mA/20mA/30mA/100mA/300mA/500mA	300ms	√
	10mA/20mA/30mA/100mA/200mA/300mA/500mA/1000mA	300ms	√
MANUAL RAMP	10mA/20mA/30mA/100mA/200mA/300mA/500mA/1000mA	300ms	√
Trip current accuracy		±10%	±10%
Trip time accuracy		±(0.6%+4)	±(0.6%+4)
Trip time resolution		1ms	1ms
Operating voltage (frequency)	230V (50Hz)	±10%	±10%
AC voltage	60V~400V (Frequency: 50Hz~60Hz)	±(5%+2)	±(5%+2)
DC voltage	±60V~±400V	±(5%+2)	
Features			
Auto power off		√	√
Low battery indication		√	√
Data hold		√	√
LCD backlight		√	√
Contact voltage automatic detection		√	√
Over-temperature detection		√	√
Lock measurement		√	√
Connections check	Lamps indication	√	√
Fused		√	√
Power	1.5V battery (R6) x 8		
Display	125mm x 37mm		
Product color	Red and grey		
Product net weight	1kg		
Product size	210mm x 175mm x 90mm		
Standard accessories	Batteries, test line, holster, elastic strap, tool box		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	1pcs		
Standard carton measurement	340mm x 140mm x 340mm		
Standard carton gross weight	3.4kg		

UT600 SERIES

INDUCTANCE CAPACITANCE METERS



● UT603

UT600 series digital inductance capacitance meters are used to test resistors, capacitors and inductors. They can also be used to measure transistor parameters. These meters can be used to check electronic components in electronic labs, production lines, maintenance facilities and schools.

	Range	UT601	UT603
Resistance (Ω)	20Ω/200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/200MΩ/2000MΩ	±(0.8%+1)	
	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ		±(0.8%+1)
Capacitance (F)	200pF/2nF/20nF/200nF/2uF/20uF/200uF/2mF/20mF	±(0.5%+10)	
	2nF/20nF/200nF/2uF/20uF/200uF/600uF		±(1%+5)
Inductance (H)	2mH/20mH/200mH/2H/20H		±(2%+8)
Features			
Display count		2000	2000
Manual range		✓	✓
Diode		✓	✓
Transistor		✓	✓
Continuity buzzer		✓	✓
Low battery indication		✓	✓
Power	9V battery (6F22)		
Display	61mm x 32 mm		
Product color	Red and grey		
Product net weight	UT601: 310g, UT603: 312g		
Product size	172mm x 83mm x 38mm		
Standard accessories	Battery, test leads with alligator clips, holster		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	20pcs		
Standard carton measurement	450mm x 330mm x 340mm (0.099CBM per standard carton)		
Standard carton gross weight	9.6kg		

UT612

LCR METER

UT612 LCR meter is used to measure inductance, capacitance and resistance. Advanced features include series/parallel measurement modes, quality factor/loss/phase angle measurements, equivalent/DC resistance measurements and 5 kinds of measurement frequency in AC mode for selection. UT612 can be used in production lines, component inspection and electronic maintenance.



● UT612

	Range	Accuracy
Inductance (H)	20uH~2000H	$\pm(0.5\%+5)$
Capacitance (F)	200pF~20mF	$\pm(0.5\%+5)$
Resistance (Ω)	20 Ω ~200M Ω	$\pm(0.3\%+5)$
Test frequency (Hz)	100Hz/120Hz/1kHz/10kHz/100kHz	√
Operating voltage	0.6Vrms	√
Test parameters	L/C/R/DCR/Q/D/ θ /ESR	√

Features

Display count		20000
D/Q display count		2000
D/Q resolution	0.001	√
Auto range		√
Test frequency real-time display		√
Measurement mode	Series/Parallel	√
Auto power off		√
Low battery indication	$\leq 6.8V$	√
Data hold		√
Relative mode		√
USB interface		√
PC data records		60000
LCD backlight		√
Analog bar graph		26
Deviation ratio measurement		√
Comparison function		√
Calibration function		√
Output impedance	120 Ω	√
Auto LCR check and measurement		√

Power	9V battery (6F22) or USB
Display	40mm x 63mm
Product color	Red and grey
Product net weight	374g
Product size	96mm x 193mm x 47mm
Standard accessories	Battery, SMD test clamp, USB interface cable, multi-purpose socket, PC software CD
Standard individual packing	Gift box, English manual
Standard quantity per carton	10pcs
Standard carton measurement	370mm x 305mm x 475mm
Standard carton gross weight	13.2kg
Optional accessory*	USB power adaptor

UT620A is used to measure DC low resistance through 4-wire method. Its features are: Comparison function to determine if the device is in good condition, unknown wire length calculation (FT/M); two-way data transmission by USB interface. UT620A can be used in narrow space for on-site troubleshooting, such as metal coating resistance, motor and small transformer winding resistance, welding points, power distribution cabinet bus, lead connection inspections, and more.

Features

Display count		60000
Four-wire measurement		√
Wire length measurement		√
High/low limit alarm		√
Data storage		1000
USB data transmission		√
Manual range		√
Backlight		√
Relative value		√
Low battery indication		√

Power	Li-ion battery 7.4V 4000mAh
Display	116mm x 87.5mm
Product color	Red and grey
Product net weight	1.5kg
Product size	268mm x 168mm x 60mm
Standard accessories	Test leads with Kelvin clips (red & black), power cord, power adaptor, USB interface cable, PC software CD
Standard individual packing	Gift box, carrying bag, English manual
Standard quantity per carton	1pcs
Standard carton measurement	370mm x 90mm x 290mm
Standard carton gross weight	3kg
Optional accessories*	Four-wire test probes (red & black) x 1

UT681 SERIES

CABLE TESTERS



	Range	UT681L	UT681C	UT681HDMI	Description
Test function	To test for: RJ45/RJ11	√			
	To test for: RJ45/RJ11/BNC		√		Need to use RJ45 to BNC adaptor
	To test for: HDMI/MINI-HDMI			√	
	Fast test mode	√	√		LED1~LED8, LED_G
	Slow test mode	√	√		LED1~LED8, LED_G
	Scan test mode			√	LED1~LED19, LED_S
	Full display test mode			√	LED1~LED19, LED_S
	To test for the case of short circuit, crossover, open circuit, etc.	√	√	√	
	Ethernet cable: shielded/ unshielded test	√	√	√	
	Manual shutdown function	√	√	√	
	Auto shutdown function	√	√	√	No operation within 10 minutes
	Single key operation	√	√	√	
	Power supply: 9V battery	√	√	√	
	Low battery detection	√	√	√	Less than 7.2V
Application environment	Working temperature: 0~40°C	√	√	√	
	Storage temperature: -10~50°C	√	√	√	
	Working humidity: 20~80%RH	√	√	√	
	Storage humidity: 10~90%RH	√	√	√	
	Altitude: ≤2000 meters	√	√	√	
Safety standard	CE EN61326-1: 2013; EN61326-2-2: 2013	√	√	√	
Product color	Red and grey				
Product net weight	Transmitter: 87g; receiver: 51g				
Product size	Transmitter: 102mm x 62mm x 28mm; receiver: 102mm x 37mm x 28mm				
Standard accessories	9V battery, BNC to RJ45 adaptor (UT681C)				
Standard individual packing	Gift box, English manual				
Standard quantity per carton	40pcs				
Standard carton measurement	455mm x 410mm x 225mm				
Standard carton gross weight	UT681L : 6.4kg; UT681C : 8.7kg; UT681HDMI : 9.5kg				

UT682 SERIES

WIRE TRACKER/TONE AND PROBE



UT682 wire tracker consists of a transmitter and a receiver, it is able to track ethernet/telephone/ power cables without opening their insulation. UT682 can troubleshoot ethernet cables and is a recommended tool for debugging communication cables and audio/video cables.



● UT682

● UT682D

	Features		UT682	UT682D
Wire tracking	Wire types		LAN cable/telephone line/coaxial cable/ electric wire	Telephone line/ twisted-pair/ electric wire
	Indication light for signal strength		√	
	Live switchboard wire tracing		√	
	Switchboard wire tracing distance		≥100m	
	Telephone lines tracking distance		≥3000m	≥3000m
	Unshielded cables tracking distance		≥320m	
	Shielded cables tracking distance		≥320m	
	Open and short circuit test		√	
	Polarity indication for telephone lines	DCV function, range: ±(5V~52V)	√	√
	Telephone lines and LAN cables distinction	Jacks distinction	√	
	Broken wire tracking		√	
	Transmitter output voltage		≥12V peak-peak	8VDC with a new battery
	Transmitter low battery indication		6.6V±0.5V	7V±0.5V
	Transmitter power supply	9V battery	√	√
	Max transmitter working current		25mA	
	Headphone jack for receiver		√	
	Receiver power supply	9V battery	√	√
	Max receiver standby current	~10mA	√	√
	Max receiver operating current	<40mA (AC, RMS)	√	√
Wire alignment	Line sequence measurement	9 LEDs (LED1~LED8, LED_G)	√	
	Line sequence measuring speed	Fast and slow selectable	√	
	LAN cable: shielded/unshielded indication		√	
Transmitter input voltage protection			52V DC	60V DC
Environment	Operating temperature: 0~40°C; Storage temperature: -10~50°C Operating humidity: 20~75%RH; Storage humidity: 10~90%RH; Altitude: ≤2000m			
Product color	Red and grey			
Product net weight	UT682: Transmitter-125g, receiver-153g; UT682D: Transmitter-150g, Receiver-130g			
Product size	UT682: Transmitter-125mm x 48mm x 28mm, receiver-195mm x 48mm x 30mm UT682D: Transmitter-74mm x 68mm x 28mm, receiver-208mm x 47mm x 33mm			
Standard accessories	9V battery x 2, RJ11 cable (UT682), RJ45 cable (UT682), RJ11 cable with alligator clips (UT682)			
Standard individual packing	Blister (UT682), carrying bag (UT682), gift box (UT682D), English manual			
Standard quantity per carton	UT682: 24pcs; UT682D: 20pcs			
Standard carton measurement	UT682: 575mm x 310mm x 430mm; UT682D: 425mm x 265mm x 260mm			
Standard carton gross weight	UT682: 12.3kg; UT682D: 7.5kg			

UT658B

USB TESTER



UT658B USB tester is used to inspect USB charger and portable power source of electronics products. UT658B can output voltage, current, and power. Users can use this device to monitor charging status of any USB powered device.

	UT658B
Input voltage range (V)	3V~9V
Voltage resolution	0.01V
Voltage monitoring accuracy	±(1%+5)
Current monitoring range (A)	0A~3.5A
Current monitoring accuracy	±(1%+5)
Current resolution	0.01A
Capacity	0~39999mAh
Capacity data storage	10 sets
Display	LCD
Warning	√
Button	√
Cable length	10cm
Pollution level	2
Working temperature	-10°C~40°C
Storage temperature	-10°C~50°C
Relative humidity	<75%
Product color	White
Product net weight	30g
Product size	72mm x 29mm x 12mm
Standard individual packing	Gift box
Standard quantity per carton	60pcs
Standard carton measurement	205mm x 170mm x 170mm
Standard carton gross weight	2.3kg



● UT658B



UT658 SERIES USB TESTERS

The second generation UT658 series USB testers can inspect USB chargers, portable power sources, USB type A and C cables and other electronic charging devices. UT658 measures output voltage, current, energy, capacity, circuit equivalent resistance, D+ and D- voltages of USB data cables. This series is designed to be precise, reliable, stable, and portable. They are great tools for applications such as manufacturing verification, engineering testing, and DIYers.



Tester with electronic load (UT658 LOAD)



● UT658A

● UT658C

● UT658DUAL

● UT658LOAD

	Description	UT658A	UT658C	UT658DUAL	UT658LOAD
Input & Output ports (Type A)		√		√	√
Input & Output ports (Type C)			√	√	
Data/charging protocol		2.0/3.0	2.0/4.0	2.0/(3.0/4.0)	2.0/3.0
Voltage range	4~24VDC, resolution: 0.01V	√	√	√	√
Current range (Type-A)	0.05~3ADC, resolution: 0.01A	√		√	√
Current range (Type-C)	0.05~5ADC, resolution: 0.01A		√	√	
Capacity	0~99999mAh, resolution: 1mAh	√	√	√	√
Energy	0~1000Wh	√	√	√	√
Circuit equivalent resistance measurement	1~480Ω	√	√	√	√
USB data cable voltage (D+, D-)	0~3.3V	√	√	√	√
Data storage	10 sets	√	√	√	√
Electrical load (UT658LOAD only)	0.5A, 1A, 2A, 3A (Max power: 60W)				√
Maximum recording time	99h, 59min, 59sec; resolution: 1s	√	√	√	√
Fast charge protocol (Type-A)	QC 3.0 fast charge protocol	√		√	√
Fast charge protocol (Type-C)	QC 4.0 fast charge protocol		√	√	
Product color	White				
Product net weight	UT658A/C: 50.6g; UT658DUAL: 65.8g; UT658LOAD: 114.4g;				
Product size	UT658A/C: 93mm x 45mm x 13mm; UT658DUAL: 93mm x 55mm x 13mm; UT658LOAD: 122mm x 53mm x 27mm				
Standard individual packing	Gift box, English manual				
Standard quantity per carton	60pcs				
Standard carton measurement	UT658A/C/DUAL: 280mm x 220mm x 225mm; UT658LOAD: 320mm x 300mm x 225mm				
Standard carton gross weight	UT658A/C: 4kg; UT658DUAL: 5.5kg; UT658LOAD: 9kg;				

FIBER OPTIC CABLE TESTERS

Fiber optic cables have high bandwidth, low power consumption, and long transmission distance, making them a great alternative to traditional metal cables for data transmission. Due to our increasing need of transmission speed and bandwidth, the quality of fiber optic cables today becomes more important than ever. Power quality meters can measure the quality of fiber optic cables, an important tool used in fiber optic cable system setup, testing and maintenance.



UT691 SERIES VISUAL FAULT LOCATORS



UT691 visual fault locator is designed for optical fiber fault detection and locating, end to end optical fiber identification and more. It is IP54 rated, uses 650nm visible redlight with 2 emitting modes of continuous or pulse. With the functions of APO, battery status indicator and flashlight, it can be widely used in the fields of optical cable construction and maintenance, optical fiber communication or sensing, optical CATV and so on.



● UT691-01

	UT691-01	UT691-10	UT691-20
Laser output power	≥1mW	≥10mW	≥20mW
Optical fiber length range	2~3km	8~10km	12~15km
Wavelength of redlight	650±10nm		
Optical fiber adapter	2.5mm FC general connector		
Battery type	3.7V 1050mAh polymer lithium battery		
Battery life	>12h	>7h	>5.5h
Battery status display	The battery status will be shown by 4 blue LED (not in flashlight)		
Green indicator	Indicates auto power off state which LED will flash white light for 3 times		
Laser mode	Continuous mode/Pulse mode		
Charge voltage and current	DC 5V, < 1A		
APO	15min auto power off (manual adjustable)		
Warning symbol	√		
Warning	√		
Key press test	>5000 times		
Drop test	1m		
Power	1050mAh rechargeable battery		
Product color	Red and grey		
Product net weight	62g		
Product size	130mm x 38mm x 27mm		
Standard individual packing	Gift box, English manual		
Standard quantity per carton	20pcs		
Standard carton measurement	285mm x 245mm x 155mm		
Standard carton gross weight	About 2.8kg		

UT692/693 SERIES

OPTICAL POWER METERS/
OPTICAL MULTIMETER (POWER METER & VFL)



Applications:

- Cable construction and maintenance
- Optical fiber communication
- Evaluation of optical equipment
- Production, installation, operation and maintenance of fiber optic transmission systems
- Optical engineering, laboratory, production plant or facility maintenance



● UT692G

		Description	UT692D	UT692G	UT693D
Optical power meter	Wavelength range	800nm~1700nm			
	Calibrated wavelength	850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm, 1650nm			
	Measurement range	UT692D/UT693D: -70~10dBm, UT692G: -50~26dBm			
	Uncertainty	±5%	√	√	√
	Display resolution	Linear: 0.1%, logarithmic: 0.01dBm			
	Connector	FC/SC/ST			
	Detector type	InGaAs			
Visual fault locator	Wavelength	650nm±10nm			
	Power	10mW (measurable optical fiber length: approximately 8~10km)			√
	Mode	Continuous/Pulse			
	Connector	FC/SC/ST			
Flashlight			√	√	

Features

Low battery indication		√	√	√
Auto power off		√	√	√
IP rating		IP65	IP65	IP65
Drop test		2m	2m	2m

Power	1.5V battery (LR6) x 3
Display	63mm x 40mm
Product color	Red and grey
Product net weight	300g
Product size	189mm x 87mm x 45mm
Standard accessories	Batteries, carrying bag
Standard individual packing	Gift box, English manual
Standard quantity per carton	10pcs
Standard carton measurement	295mm x 250mm x 210mm
Standard carton gross weight	5.66kg

UT695D-10 OPTICAL MULTIMETER

UT695D-10 includes optical power meter, visual fault locator, flashlight, and remote cable tester. UT695D-10 is used for optical signal power measurement, optical fiber line loss test, optical device insertion loss test, optical fiber fault detection, optical fiber breakpoint location, end-to-end optical fiber identification and more. Designed with IP54 dust and water prevention function, UT695D-10 can be applied to optical cable construction and maintenance, optical fiber communication, optical fiber sensing, optical CATV and other fields.



●UT695D-10

		Description
Optical power meter	Wavelength range	800nm~1700nm
	Calibrated wavelength	850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm, 1650nm
	Measurement range	-70~3dBm
	Uncertainty	±5%
	Display resolution	Linear: 0.1%, logarithmic: 0.01dBm
	Connector	FC/SC/ST
	Detector type	InGaAs
Visual fault locator	Wavelength	650nm±10nm
	Power	10mW (measurable optical fiber length: approximately 8~10km)
	Mode	Continuous/Pulse
	Connector	FC/SC/ST
Flashlight		√
LAN cable sequence test		Line sequence measurement (LED1~8, LED_G)
Features		
Low battery indication		√
Auto power off		√
IP rating		IP54
Drop test		2m
Power		1050mAh rechargeable battery
Display		42mm x 33mm
Product color		Red and grey
Product net weight		168g
Product size		132mm x 68mm x 31mm
Standard accessories		USB cable
Standard individual packing		Gift box, English manual
Standard quantity per carton		10pcs
Standard carton measurement		305mm x 270mm x 130mm
Standard carton gross weight		About 2.7kg

UT696/UT697

OPTICAL LIGHT SOURCE/ OPTICAL MULTIMETER (POWER METER & LS)



UT696 optical light source can provide 1310nm and 1550nm dual wavelengths to meet specific requirements, it aims at fiber network installation, fiber network engineering acceptance and fiber network maintenance.

UT697 combined with optical light source and optical power meter, optical light source can provide 1310nm and 1550nm dual wavelengths to meet specific requirements. Optical power meter measures wavelength range of 800-1700nm and 8 calibrated wavelengths. It offers a quick and accurate testing solution on fiber optics.

		Description	UT696	UT697
Optical power meter	Wavelength range	800nm~1700nm		
	Calibrated wavelength	850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm, 1650nm		
	Measurement range	-70~10dBm		√
	Uncertainty	±5%		
	Display resolution	Linear: 0.1%, logarithmic: 0.01dBm		
	Connector	Universal connector FC/SC/ST		
	Detector type	InGaAs		
Light source	Wavelength	Dual wavelength: 1310nm, 1550nm		
	Typical output optical power	-4dBm		
	Adjustable output optical power	-4dBm, -6dBm, -8dBm, -10dBm		
	Internal modulation	0Hz/270Hz/1000Hz/2000Hz	√	√
	Luminescent device	FP-LD		
	Optical interface	FC/PC		
	Applicable optical fiber	SM/MM		
Flashlight			√	
Features				
Low battery indication			√	√
Auto power off			√	√
IP rating			IP65	IP65
Drop test			2m	2m
Power		1.5V battery (LR6) x 3		
Display		63mm x 40mm		
Product color		Red and grey		
Product net weight		300g		
Product size		189mm x 87mm x 45mm		
Standard accessories		Batteries, carrying bag		
Standard individual packing		Gift box, English manual		
Standard quantity per carton		10pcs		
Standard carton measurement		295mm x 250mm x 210mm		
Standard carton gross weight		5.66kg		



● UT696



● UT697

UT701 SINGLE FUNCTION TEMPERATURE CALIBRATOR



- Up to 0.05% output accuracy
- 6 digit display
- Output functions: DC voltage, resistance, thermocouple, and thermal resistance
- 10 thermocouple scales
- 4 thermal resistance scales
- High precision automatic cold junction compensation for thermocouple outputs
- Manual stepping and automatic stepping and ramping
- Stores and recalls setups

	Type	Range	Accuracy
DC (mV)		100mV	$\pm(0.05\%+20)$
		1000mV	$\pm(0.05\%+3)$
Resistance (Ω)		500 Ω	$\pm(0.05\%+2)$
		5000 Ω	$\pm(0.05\%+2)$
Thermocouples	J	-20~1200°C (-328~2192°F)	$\pm 0.7^{\circ}\text{C}$
	K	-200~1370°C (-328~2498°F)	$\pm 1^{\circ}\text{C}$
	T	-200~400°C (-328~752°F)	$\pm 0.8^{\circ}\text{C}$
	E	-200~950°C (-328~1742°F)	$\pm 0.7^{\circ}\text{C}$
	R	-20~1750°C (-4~3182°F)	$\pm 1.4^{\circ}\text{C}$
	S	-20~1750°C (-4~3182°F)	$\pm 1.5^{\circ}\text{C}$
	B	600~1800°C (1112~3272°F)	$\pm 1.4^{\circ}\text{C}$
	N	-200~0~1300°C (-328~2372°F)	$\pm 0.9^{\circ}\text{C}$
	Wre325	0~2000°C (32~3632°F)	$\pm 1.8^{\circ}\text{C}$
	Wre526	0~2300°C (32~4172°F)	$\pm 1.8^{\circ}\text{C}$
RTDs	Pt10	-200~850°C (-328~1562°F)	$\pm(0.5\%+6^{\circ}\text{C})$
	Pt100	-200~850°C (-328~1562°F)	$\pm(0.05\%+0.6^{\circ}\text{C})$
	Cu50	-50~150°C (-58~302°F)	$\pm(0.05\%+0.6^{\circ}\text{C})$
	Cu100	-50~150°C (-58~302°F)	$\pm(0.05\%+0.6^{\circ}\text{C})$

Features

Ramp functions	Source functions: Voltage, resistance, temperature
	Ramps: Slow ramp, Fast ramp, 25% step-ramp
Step functions	Source functions: Voltage, resistance, temperature
	Steps: 25% of range, 100% of range
Power	9V battery (6F22)
Display	63mm x 40mm
Product color	Red and grey
Product net weight	410g
Product size	96mm x 193mm x 47mm
Standard accessories	Test leads, battery
Standard individual packing	Gift box, English manual, cloth bag
Standard quantity per carton	5pcs
Standard carton measurement	325mm x 225mm x 285mm
Standard carton gross weight	4.5kg



UT705

SINGLE FUNCTION LOOP CALIBRATOR



- Measures: DC voltage, DC current, 4-20mA loop current
- Output functions: DC current, analog transmitter, 24V loop
- Up to 0.02% accuracy
- Provides 24V loop power to transmitter while conducting mA current measurement at the same time
- Automatic ramp for DC current output
- Manual stepping and automatic stepping and ramping output
- Stores and recalls setups

	Range	Accuracy
Measure accuracy		
DC voltage (V)	30V	$\pm (0.02\%+2)$
DC current (A)	4-20mA	$\pm (0.02\%+2)$
Loop current	4-20mA	$\pm (0.02\%+2)$
Source accuracy		
DC current (source)	4-20mA	$\pm (0.02\%+2)$
DC current (simulate)	4-20mA	$\pm (0.02\%+2)$
Features		
Loop power function	Voltage: 24V; Accuracy: 10%	
Ramp functions	Source functions: Voltage, resistance, temperature	
	Ramps: Slow ramp, Fast ramp, 25% step-ramp	
Step functions	Source functions: Voltage, resistance, temperature	
	Steps: 25% of range, 100% of range	
Power	9V battery (6F22)	
Display	63mm x 40mm	
Product color	Red and gray	
Product net weight	410g	
Product size	96mm x 193mm x 47mm	
Standard accessories	Test leads, battery	
Standard individual packing	Gift box, English manual, cloth bag	
Standard quantity per carton	5pcs	
Standard carton measurement	325mm x 225mm x 285mm	
Standard carton gross weight	4.5kg	



ACCESSORIES



UT-F/UT-L SERIES

CARTRIDGE FUSE/TEST LEADS



UT-F01 Cartridge fuse (fast fuse porcelain tube)

- Specifications: $\Phi 6.35 \times 31.8$ 500mA/600V
- Brand: HOLLY
- Safety certificate: CE
- Suitable products : UT61(GS) series, UTD1050CL、UT1939B、UT125C
- Amount: 1PC



UT-F03 Cartridge fuse (fast fuse porcelain tube)

- Specifications: $\Phi 6.35 \times 31.8$ 0.5A/1000V
- Brand: HOLLY
- Safety certificate: TUV
- Suitable products : UT71 series、UT81B、UT81C、UT801、UT802、UT505B
- Amount: 1PC



UT-F05 Cartridge fuse (fast fuse porcelain tube)

- Specifications: $\Phi 6.35 \times 31.8$ 600mA/600V
- Brand: HOLLY
- Safety certificate: TUV
- Suitable products : UT139C、UT139E、UT139S
- Amount: 1PC



UT-F07 Cartridge fuse (fast fuse porcelain tube)

- Specifications: $\Phi 10.3 \times 38$ 10A/1000V
- Brand: HOLLY
- Safety certificate: CCC、UR/CUR、VDE
- Suitable products : UT61 series(2010 CE)、UT71(CE)、UT171A/B/C、UT181A、UT801、UT802、UT803、UT804、UT805A
- Amount: 1 PC



UT-F10 Cartridge fuse (fast fuse porcelain tube)

- Specifications: $\Phi 6.35 \times 31.8$ 800mA/1000V
- Brand: HOLLY
- Safety certificate: UL
- Suitable products : UT171 series、UT181A
- Amount: 1PC



UT-F02 Cartridge fuse (fast fuse porcelain tube)

- Specifications: $\Phi 6.3 \times 25.4$ 10A/600V
- Brand: BUSSMANN
- Safety certificate: UL
- Suitable products : UT139 series、UT133A/B
- Amount: 1PC



UT-F04 Cartridge fuse (fast fuse porcelain tube)

- Specifications: $\Phi 6 \times 32$ 0.2A/600V
- Brand: HOLLY
- Safety certificate: TUV
- Suitable products : UT139A、UT105
- Amount: 1PC



UT-F06 Cartridge fuse (fast fuse porcelain tube)

- Specifications: $\Phi 6.35 \times 31.8$ 10A/600V
- Brand: HOLLY
- Safety certificate: TUV
- Suitable products : UT105、UT81B、UT81C
- Amount: 1PC



UT-F08 Cartridge fuse (fast fuse porcelain tube)

- Specifications: $\Phi 6.35 \times 31.8$ 600mA/1000V
- Brand: HOLLY
- Safety certificate: TUV
- Suitable products : UT61 series、UT8803E、UT61A/B/C/D/E-US
- Amount: 1PC



UT-L01 Tweezers test leads

- Length: 450mm, Probe length: 5mm
- Safety level: CAT III 1000V
- Application: SMT components measurement, universal test leads
- Amount: 1PC

UT-L SERIES TEST LEADS



UT-L02 BNC alligator clip test leads

- Length: 1000mm, Clip opening: 3mm
- Safety level: CAT II 600V 2A
- Application: BNC connector for instrument inputs
- Amount: 1PC



UT-L06 Dual head connectors

- Length: test leads 1200mm
- Safety level: CAT III 1000V 10A
- Application: Multifunctional connectors, all multimeters and clamps
- Amount: 1 pair



UT-L07 Probes

- Length: 1000mm, Probe length: 5mm+12mm
- Temperature condition: -15°C~40°C
- Safety level: CAT III 1000V 10A
- Features and application: Double insulated, lantern probes, removable probe protector, general type probes, all multimeters and clamps measuring within spec
- Amount: 1 pair



UT-L09 Dual head connectors

- Length: 1000mm, one head is 180°, the other is 90°
- Temperature condition: -15°C~40°C
- Safety level: CAT III 1000V 10A
- Features and application: Double insulated, banana plug with security mask and standard diameter, suitable for multiple devices, all multimeters and clamps
- Amount: 1 pair



UT-L10 Dual head multifunctional connectors

- Length: 1000mm, ø4mm
- Temperature condition: -15°C~40°C
- Safety level: CAT III 1000V 10A
- Features and application: Banana plug, used for testing adapter cables
- Amount: 1 pair



UT-L13 Probes

- Leads length: 1200mm, Rod length: 128mm
- Tip length: 18mm, with ø4mm standard lantern tip
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Temperature condition: -15°C~40°C
- Features and application: Double insulated UL authenticated material, ø4mm standard lantern-tip probe, which can be connected to standard alligator clips and test leads, removable tip shield sleeve, general type probes
- Amount: 1 pair



UT-L16 Probes

- Length: 1200mm, Rod length: 133mm
- Tip length: 18mm
- Safety level: CAT III 1000V 16A
- Safety certificate: EN 61010-031 :2015
- Features and application: Double insulated silicone wire material, through hole type input terminal, general type probes, all multimeters and clamps measuring within spec
- Amount: 1 pair



UT-L17 Probe with LED light

- leads length: 1000mm
- Tip length: 16mm
- Safety level: CAT II 1000V 10A
- Features and application: Controllable LED light source, all multimeters and clamps measuring within spec
- Amount: 1PC

UT-L SERIES

TEST LEADS



UT-L20 Probes

- Leads length: 900mm, Rod length: 101mm
- Tip length: 16.5mm
- Safety level: CAT I 1000V/CAT II 600V 10A
- Features and application: Cross plug with shield sleeve, general type probes, all multimeters and clamps measuring within spec
- Amount: 1 pair



UT-L21 Probes

- Leads length: 900mm, Rod length: 133mm
- Tip length: 15.8mm
- Safety level: CAT III 1000V/CAT IV 600V 20A
- Features and application: Cross plug with shield sleeve, general type probes, all multimeters and clamps
- Amount: 1 pair



UT-L25 Probes

- Leads length: 900mm, Rod length: 115mm
- Tip length: 18mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Safety certificate: EN 61010-031 2015
- Features and application: Double insulated wire, removable tip shield sleeve, general type probes, all multimeters and clamps measuring within spec
- Amount: 1 pair



UT-L26 Probes

- Leads length: 900mm, Rod length: 136mm
- Tip length: 15.7mm
- Safety level: CAT III 1000V/CAT IV 600V 20A
- Safety certificate: EN 61010-031 2015
- Features and application: UL 16AWG double insulated wire, removable tip shield sleeve, cross type input terminal with full protection, general type probes, all multimeters and clamps
- Amount: 1 pair



UT-L27 Probes

- Leads length: 900mm, Rod length: 130mm
- Tip length: 16.3mm, threaded
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Safety certificate: EN 61010-031 2015
- Features and application: Double insulated UL authenticated material, removable tip shield sleeve, banana plug input terminal, general type probes, all multimeters and clamps measuring within spec
- Amount: 1 pair



UT-L28 Probes

- Leads length: 900mm, Rod length: 128mm
- Tip length: 16.8mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Features and application: Double insulated wire, removable tip shield sleeve, banana plug input terminal, general type probes, all multimeters and clamps measuring within spec
- Amount: 1 pair



UT-L29 Probes

- Leads length: 900mm, Rod length: 136mm
- Tip length: 15.7mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Safety certificate: EN 61010-031 2015
- Features and application: Double insulated UL authenticated material, through hole crosshead with full protection input, removable tip shield sleeve, general type probes, all multimeters and clamps measuring within spec
- Amount: 1 pair



UT-L30 Probes

- Leads length: 900mm, Rod length: 136mm
- Tip length: 15.7mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Safety certificate: EN 61010-031 2015
- Features and application: Double insulated UL authenticated material, removable tip shield sleeve, cross input terminal, general type probes, all multimeters and clamps measuring within spec
- Amount: 1 pair

UT-L SERIES TEST LEADS



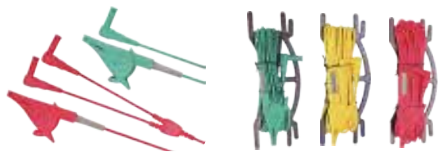
UT-L31 Probes

- Line length: 1300mm
- Tip length: 18.5mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Features and application: rod with switch, removable tip shield sleeve, used for UT505B
- Amount: 1PC



UT-L33 Group test leads

- Combinations: combined with 1PCS (red+black) alligator clip test leads and 1PCS double-plug alligator clip test leads
- Material: Double insulated UL authenticated material
- Total length: 1200±20mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Application: UT511
- Amount: 1 Group



UT-L35 Group test leads

- Combination: (1) 1.6m test lead (green+red) 1pair (2) 5m green test lead 1PCS (3) 10m yellow test lead 1PCS (4) 20m red test lead 1PCS
- Material: UL authenticated material
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Application: UT521、UT522、UT572
- Amount: 1 Group



UT-L37 Dual through hole test leads

- Material: Double insulated wire, 102 cores
- Length: 1090mm
- Safety level: CAT III 1000V/CAT IV 600V
- Application: UT500 series、UT531
- Amount: 1 pair



UT-L39 Alligator clip test leads with shield sleeve

- Material: Double insulated wire
- Length: 1000±50mm
- Features and application: Adapter plug with BNC
- Amount: 1PC



UT-L32 Group test leads

- Combinations: combined with 2PCS test leads, (red+black) and (yellow+blue)
- Material: Double insulated leads
- Line length: 1090mm
- Safety level: CAT III 600V/CAT IV 300V
- Application: UT233、UT243
- Amount: 1 Group



UT-L34 Group test leads

- Combinations: combined with 1PCS green, 1PCS black and 1PCS red alligator clip test leads
- Total length: 1500±20mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Application: UT513、UT513A
- Amount: 1 Group



UT-L36 Dual through hole test leads

- Material: 18AWG UL authenticated material
- Length: 1100mm
- Safety level: CAT III 1000V/CAT IV 600V
- Application: UT505B
- Amount: 1 pair



UT-L38 Group test leads

- Material: Double insulated wire, 102 cores Length: 1090mm
- Safety level: CAT III 600V/CAT IV 300V
- Features and application: with buckle, used for UT261A、UT261B
- Amount: 3PCS



UT-L40 SMD patch clamp

- Leads length: 450mm, probe length: 5mm
- Temperature condition: -10°C~40°C
- Safety level: CAT II 1000V 2A
- Features and application: used to SMT components, for UT611、UT612
- Amount: 1PC

UT-L/UT-H/UT-P SERIES

TEST LEADS/PROBES



UT-L41 Alligator clip short test leads

- Core: 19/20
- Length: 110-130mm
- Features and application: full protection cross input terminal, used for UT71 series、UT801、UT802、UT803、UT601、UT603
- Amount: 1 pair



UT-L42 Kelvin clip double insulated wire

- Length: 1000mm
- Features and application: AV input lead, used for UT620A、UT620B
- Amount: 1 pair



UT-L43 RS232C interface wire

- Length: 1000mm
- Features and application: Dual head 9-pin interface, used for UT803、UT804、UT805A
- Amount: 1PC



UT-L45 BNC-BNC through leads

- Material: 50Ω coaxial cable
- Length: 1000mm
- Features and application: dual-head BNC interface, used for UTG2025A、UTG4162A、UTG4122A、UTG4082A、UTG1010A、UTG1005A、UTG2122B、UTG2082B、UTG2062B
- Amount: 1PC



UT-L46 Four-wire test probes

- Leads material: 182-core double shielded wire
- Leads length: 1000mm
- Application: UT620B
- Amount: 1pair



UT-L61 Kelvin test leads

- Leads material: Double insulated wire
- Leads length: 600mm
- Application: UT611, UT612
- Amount: 1pair



UT-H01 Passive probe 25MHz

- Probe factor: (1:1/10:1)
- Bandwidth: 25MHz
- Input resistance: $1 \times :1M\Omega \pm 2\%$, $10 \times :10M\Omega \pm 2\%$
- Working voltage: $1 \times :300V_{pp}$, $10 \times :600V_{pp}$
- Application: UTD1025CL、UTD1025C (only for handheld type)
- Amount: 1PC



UT-H03 Passive probe 60MHz

- Probe factor: (1:1/10:1)
- Bandwidth: 60MHz
- Input resistance: $1 \times :1M\Omega \pm 2\%$, $10 \times :10M\Omega \pm 2\%$
- Working voltage: $1 \times :300V_{pp}$, $10 \times :600V_{pp}$
- Application: UTD1050CL、UTD1062C (only for handheld type)
- Amount: 1PC



UT-H04 Passive probe 100MHz

- Probe factor: (1:1/10:1)
- Bandwidth: 100MHz
- Input resistance: $1 \times :1M\Omega \pm 2\%$, $10 \times :10M\Omega \pm 2\%$
- Working voltage: $1 \times :300V_{pp}$, $10 \times :600V_{pp}$
- Application: UTD1000 series (only for handheld type)
- Amount: 1PC



UT-H05 Passive probe 200MHz

- Probe factor: (1:1/10:1)
- Bandwidth: 200MHz
- Input resistance: $1 \times :1M\Omega \pm 2\%$, $10 \times :10M\Omega \pm 2\%$
- Working voltage: $1 \times :300V_{pp}$, $10 \times :600V_{pp}$
- Application: UTD1000 series (only for handheld type)
- Amount: 1PC

UT-V/UT-P SERIES PROBES



UT-P01 Passive probe 25MHz

- Probe factor: (1:1/10:1)
- Bandwidth: 25MHz
- Input resistance: $1\times:1M\Omega\pm2\%$, $10\times:10M\Omega\pm2\%$
- Working voltage: $1\times:300V_{pp}$, $10\times:600V_{pp}$
- Application: UTD2025CL
- Amount: 1PC



UT-P04 Passive probe 100MHz

- Probe factor: (1:1/10:1)
- Bandwidth: 100MHz
- Input resistance: $1\times:1M\Omega\pm2\%$, $10\times:10M\Omega\pm2\%$
- Working voltage: $1\times:300V_{pp}$, $10\times:600V_{pp}$
- Application: UTD4082C、UTD4102C、UTD4104C、UTD4102CM、UPO2102CS、UPO2104CS
- Amount: 1PC



UT-P06 Passive probe 300MHz

- Probe factor: (1:1/10:1)
- Bandwidth: 300MHz
- Input resistance: $1\times:1M\Omega\pm2\%$, $10\times:10M\Omega\pm2\%$
- Working voltage: $1\times:300V_{pp}$, $10\times:600V_{pp}$
- Application: UTD4302C、UTD4304C、UTD4302CM
- Amount: 1PC



UT-V23 100:1 High voltage probe

- Probe factor: 100:1
- Bandwidth: 100MHz
- Input resistance: $10M\Omega\pm2\%$
- Working voltage: 2000Vpp
- Application: used for all oscilloscopes series
- Amount: 1PC



UT-P21 Passive high voltage probe 50MHz 15V

- Bandwidth: 50MHz
- Attenuation: 1000:1
- Maximum working voltage: DC 15kVrms/AC 10kV(sine wave)
- Application: used for all UTD and UPO series oscilloscope
- Amount: 1PC



UT-P03 Passive probe 60MHz

- Probe factor: (1:1/10:1)
- Bandwidth: 60MHz
- Input resistance: $1\times:1M\Omega\pm2\%$, $10\times:10M\Omega\pm2\%$
- Working voltage: $1\times:300V_{pp}$, $10\times:600V_{pp}$
- Application: UTD2052CL、UTD4062C、UTD4042C
- Amount: 1PC



UT-P05 Passive probe 200MHz

- Probe factor: (1:1/10:1)
- Bandwidth: 200MHz
- Input resistance: $1\times:1M\Omega\pm2\%$, $10\times:10M\Omega\pm2\%$
- Working voltage: $1\times:300V_{pp}$, $10\times:600V_{pp}$
- Application: UTD4202C、UTD4302C、UTD4204C、UTD4202CM、UPO2202CS、UPO2204CS
- Amount: 1PC



UT-P07 Passive probe 500MHz

- Probe factor: 10:1
- Bandwidth: 500MHz
- Input resistance: $10M\Omega$
- Working voltage: $1\times:300V_{pp}$, $10\times:600V_{pp}$
- Application:
- Amount: 1PC



UT-P20 Passive probe 250MHz 1500V

- Bandwidth: 250MHz
- Attenuation: 100:1
- Maximum working voltage: 1500Vrms
- Application: UTD4000 series
- Amount: 1PC



UT-P30 Differential probe 100MHz 800V

- Bandwidth: 100MHz
- Attenuation ratio: 100:1/10:1
- Input differential voltage: $\pm 800V_{pp}$
- Application: used for all UTD and UPO series oscilloscope
- Amount: 1PC

UT-P/UT-T SERIES

PROBES/THERMOCOUPLE



UT-P31 High voltage differential probe 100MHz 1.5kV

- Bandwidth: 100MHz
- Attenuation ratio: 100:1/10:1
- Input differential voltage: $\pm 1.5\text{kVpp}$
- Application: used for all UTD and UPO series oscilloscope
- Amount: 1PC



UT-P33 Differential probe 120MHz 14kV

- Bandwidth: 120MHz
- Attenuation ratio : 100:1/10:1
- Input differential voltage: $\pm 14\text{kVpp}$
- Application: used for all UTD and UPO series oscilloscope
- Amount: 1PC



UT-P41 Current probe 100kHz 0.05A~100A

- Range : 100mV/A, 10mV/A
- Current range : 50A~100A
- Frequency range: DC~100kHz
- Maximum working voltage: 600Vrms
- Application: used for all UTD and UPO series oscilloscope
- Amount: 1PC



UT-T03 Submersed thermocouple

- Probe length: 180mm
- Lead wire length: 1000mm
- Test range: $-50^{\circ}\text{C}\sim 600^{\circ}\text{C}$ ($58^{\circ}\text{F}\sim 1112^{\circ}\text{F}$)
- Features and application: metal covers from head to handle, used for liquid and gel temperature measurement
- Amount: 1PC



UT-T05 Gas thermocouple

- Probe length: 56mm
- Lead wire length: 1000mm
- Test range: $-50^{\circ}\text{C}\sim 900^{\circ}\text{C}$ ($58^{\circ}\text{F}\sim 1652^{\circ}\text{F}$)
- Features and application: protected by stainless steel gas adjusting hole, used for air or gas temperature measurement, not for liquid temperature measurement
- Amount: 1PC



UT-P32 Differential probe 50MHz 3kV

- Bandwidth: 50MHz
- Attenuation ratio : 1000:1/100:1
- Input differential voltage: $\pm 3\text{kVpp}$
- Application: used for all UTD and UPO series oscilloscope
- Amount: 1PC



UT-P40 Current probe 100kHz 0.4A~60A

- Range : 50mV/A, 5mV/A
- Current range : 0.4A~60A
- Frequency range: DC~100kHz
- Maximum working voltage: 600Vrms
- Application: used for all UTD and UPO series oscilloscope
- Amount: 1PC



UT-T01 Thermocouple

- Accuracy: $\pm 0.75\%$
- Test range: $-40^{\circ}\text{C}\sim 260^{\circ}\text{C}$ ($40^{\circ}\text{F}\sim 500^{\circ}\text{F}$)
- Features and application: Teflon covered insulation, through hole input, used for general temperature measurement, not for liquid measurement
- Amount: 1PC



UT-T04 Through hole thermocouple

- Probe length: 180mm
- Lead wire length: 1000mm
- Test range: $-50^{\circ}\text{C}\sim 600^{\circ}\text{C}$ ($58^{\circ}\text{F}\sim 1112^{\circ}\text{F}$)
- Features and application: metal covers from head to handle, used for food and other liquid or gel temperature measurement
- Amount: 1PC



UT-T06 Surface temperature thermocouple

- Probe length: 125mm
- Lead wire length: 1000mm
- Test range: $-50^{\circ}\text{C}\sim 500^{\circ}\text{C}$ ($58^{\circ}\text{F}\sim 932^{\circ}\text{F}$)
- Features and application: aimed at flat or slightly convex surface, used for hot roller and vessel surface temperature measurement
- Amount: 1PC

UT-T/UT-C SERIES THERMOCOUPLE/ALLIGATOR CLIP



UT-T07 Surface temperature measuring thermocouple

- Probe length: 200mm
- Lead wire length: 1000mm
- Test range: -50°C~500°C (58°F~932°F)
- Features and application: probe bends for 90°, aimed at flat or slightly convex surface, used for hot roller and vessel surface temperature measurement
- Amount: 1PC



UT-T10K Temperature probe

- Test range: -40°C~260°C (40°F~500°F)
- Accuracy: $\pm 0.75\%$
- Features and application: used for UT213 series、UT39C、UT204A、UT206、UT208、UT208A、UT107、UT109、UT136C+、UT133A、UT89X、UT39C+
- Amount: 1PC



UT-T12 Temperature probe

- Test range: 0°C~800°C (Error $\pm 0.4\%$)
- Features and application: Through hole input, used for UT323、UT321、UT322、UT325、UT181A
- Amount: 1PC



UT-C01 Hook type test clamp

- Specifications: Rod length 62mm, hook can extend to 7.5mm
- Safety level: CAT III 1000V 10A
- Features: With safety handle and spring hook type alligator clips
- Amount: 1 pair



UT-C02B (M4) threaded bore alligator clip

- Specifications: Length 80mm, opening 36mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Safety certificate: EN 61010-031:2015
- Amount: 1 pair



UT-T09K Temperature probe

- Test range: -40°C~260°C (40°F~500°F)
- Accuracy: $\pm 0.75\%$
- Features and application: crosshead socket type input, used for UT139C/E/S、UT216C/D、UT210D、UT213B/C、UT171B/C、UT219M、UT219DS、UT222
- Amount: 1PC



UT-T11 Temperature probe

- Test range: -40°C~260°C (40°F~500°F)
- Accuracy: $\pm 0.75\%$
- Features and application: through hole input, used for UT109、UT801、UT802、UT803、UT58 series、UT305 series、UT195M
- Amount: 1PC



UT-T15 K-type temp clamp

- Test range: -40°C~200°C
- Jaw opening: 35mm
- Lead wire length: 2000mm
- Features and application: Flat plug for any K-type temperature recording meter
- Amount: 1 pair



UT-C02A Through hole alligator clip

- Specifications: Length 80mm, opening 36mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Safety certificate: EN 61010-031:2015
- Amount: 1 pair



UT-C04A Through hole alligator clip

- Specifications: Length 75mm, opening 27mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Safety certificate: EN 61010-031:2015
- Amount: 1 pair

UT-C/UT-S SERIES

ALLIGATOR CLIP/ADAPTER SOCKET



UT-C05A (M4) threaded bore alligator clip (with protector)

- Specifications: Length 67mm, opening 8.3mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Amount: 1 pair



UT-C05B Through hole alligator clip (with protector)

- Specifications: Length 71mm, opening 8.3mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Amount: 1 pair



UT-C06 Test probes

- Specifications: Rod length 106mm, probe length 19mm
- Safety level: CAT III 1000V 10A
- Features: Fully-insulated, with tip and protector, banana plug probes
- Amount: 1 pair



UT-C07 Multifunctional electric test clips

- Specifications: Rod length 110mm, adjustable clip length 8mm
- Safety level: CAT III 1000V/CAT IV 600V 5A
- Features: Standard transfer socket, adjustable multifunctional clips
- Amount: 1 pair



UT-C08 Test probes

- Specifications: Rod length 99mm, probe length 18mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Features: Fully-insulated, with tip and protector, straight type probes
- Amount: 1 pair



UT-C09 Test probes

- Specifications: Rod length 99mm, probe length 18mm
- Safety level: CAT III 1000V/CAT IV 600V 10A
- Features: Fully-insulated, with tip and protector, lantern type probes
- Amount: 1 pair



UT-C12 Through hole alligator clip (with protector)

- Specifications: Length 53mm, opening 6mm
- Amount: 1 pair



UT-S01A Multifunctional adapter socket

- Function: Adapter test of temperature and capacitance
- Suitable product: UT804
- Amount: 1PC



UT-S01B Multifunctional adapter socket

- Function: Adapter test of temperature, capacitance and transistor
- Suitable products: UT803, UT58 series
- Amount: 1PC



UT-S02B Multifunctional adapter socket

- Function: Adapter test of temperature, capacitance and transistor
- Suitable products: UT61A, UT801, UT802
- Amount: 1PC



UT-S03 Multifunctional adapter socket

- Function: Adapter test of temperature and capacitance
- Suitable products: UT61B, UT61C, UT61D
- Amount: 1PC



UT-S04 Multifunctional adapter socket

- Function: Adapter test of temperature, capacitance and transistor
- Suitable product: UT61A (GS, 2010 CE version)
- Amount: 1PC

UT-S/UT-W SERIES ADAPTER SOCKET/POWER ADAPTER



UT-S05 Multipurpose standard adapter socket

- Function: Adapter test of temperature and capacitance
- Suitable products: UT61B、UT61C、UT61D (GS version)
- Amount: 1PC



UT-S06 Power adapter socket

- Suitable products: UT171 series、UT181
- Amount: 1PC



UT-S07 Temperature adapter socket

- Suitable product: UT181A
- Amount: 1PC



UT-S08 UT612 adapter socket

- Suitable products: UT611、UT612
- Amount: 1PC



UT-S09 BNC test wire adapter socket

- Suitable product: UT81 series
- Amount: 1PC



UT-S10 Wattmeter adapter socket

- Fixed current: 10A
- Suitable product: UT71E
- Amount: 1PC



UT-W01 Power adapter

- Input: AC100~240V 50/60Hz
- Output: DC9V 4A
- Certification: ErP
- Suitable products: UTS1000 series、UTD1000 series、UT283A、EDU1000
- Amount: 1PC



UT-W03 Power adapter

- Input: AC230V 50/60Hz 65mA
- Output: DC14.5V 600mA
- Certification: ErP
- Suitable products: UT512、UT511
- Amount: 1PC



UT-W04 Power adapter

- Input: AC230V 50/60Hz
- Output: DC14.5V±0.5V 1.0A
- Certification: ErP
- Suitable products: UT513、UT513A
- Amount: 1PC



UT-W05 Power adapter

- Input: 100~240V 50/60Hz
- Output: DC9V 4A outer positive inside negative
- Certification: ErP
- Suitable products: UT620A、UT620B
- Amount: 1PC

UT-W/UT-D SERIES

POWER ADAPTER/DATA CABLE



UT-W06 Power adapter

- Input: AC230V/50Hz
- Output: DC6.0V/450mA
- Certification: ErP
- Suitable product: UT81 series
- Amount: 1PC



UT-W08 Power adapter

- Input: AC230V 50Hz
- Output: DC6V/450mA
- Certification: ErP
- Suitable products: UT305A、UT305C
- Amount: 1PC



UT-W10 Power adapter

- Input: AC230V 50/60Hz
- Output: DC9V 0.2A
- Certification: ErP
- Suitable products: UT801 (2010 CE)、UT802 (2010 CE)
- Amount: 1PC



UT-D02+ RS232C data cable

- Wire length: 1m
- Features: RS232C interface, one-way transmission
- Suitable products: UT61 series、UT109
- Amount: 1PC



UT-D05 RS232C data cable

- Wire length: 1m
- Features: RS232C interface, two-way transmission
- Suitable products: UT70C、UT70D
- Amount: 1PC



UT-W07 Power adapter

- Input: AC100~240V 50/60Hz
- Output: DC10V 500mA input short-circuit protection
- Certification: ErP
- Suitable products: UT181A、UT171B/C
- Amount: 1PC



UT-W09 Power adapter

- Input: AC220V 50Hz
- Output: DC9V 0.2A
- Certification: ErP
- Suitable products: UT801、UT802
- Amount: 1PC



UT-D01 RS232C data cable

- Wire length: 1m
- Features: RS232C interface, one-way transmission
- Suitable products: UT70B
- Amount: 1PC



UT-D04 USB data cable

- Wire length: 1m
- Features: USB interface, one-way transmission
- Suitable products: UT71 series、UT230 series、UT61B/C/D
- Amount: 1PC



UT-D09 USB data cable

- Wire length: 1m
- Features: USB interface, two-way transmission
- Suitable products: UT171 series、UT243、UT181A
- Amount: 1PC

UT-D/UT-M SERIES DATA CABLE/CONVERTER



UT-D10 USB data cable

- Wire length: 1m
- Features: USB interface, two-way transmission
- Suitable products: UT81B、UT81C
- Amount: 1PC



UT-D12 USB charging line

- Wire length: 0.5m
- Material: 2 cores 24# wire
- Suitable products: LM600、LM800、LM1000、LM1200、LM1500、A25M、A25D、A25F、A37
- Amount: 1PC



UT-D14 USB 2.0 dual-head printer line

- Wire length: 1.5m
- Suitable products: UTD2000 series、UTD4000 series、UPO2102CS、UPO2202CS、UPO2104CS、UPO2204CS、UTG2025A
- Amount: 1PC



UT-D16 USB single-head connecting wire

- Wire length: 1m
- Suitable product: UT171C
- Amount: 1PC



UT-D18 USB dual header standard connecting wire

- Wire length: 1m
- Suitable products: UT620A、UT620B
- Amount: 1PC



UT-D11 USB connecting wire

- Wire length: 1m
- Suitable products: UT305A、UT305C、UT315、UT321、UT322、UT325、UT331、UT332、UT382、UT612、UT323、UT362
- Amount: 1PC



UT-D13 USB standard printer line

- Wire length: 1m
- Suitable products: UT372、UT512、UT513A、UT803、UT804、UT805A
- Amount: 1PC



UT-D15 USB2.0 communication cable

- Wire length: 1.5m
- Suitable products: UTD2025CL、UTD2052CL
- Amount: 1PC



UT-D17 USB2.0 data cable

- Features: one head for HOST, the other for MINI-USB
- Wire length: 1.5m
- Suitable products: UT283A、UTD1025CL、UTD1050CL、UTD1025DL、UTD1050DL
- Amount: 1PC



UT-M03 Voltage/current converter

- Range: 4mA/6mA, 40mA/60mA, 400mA/600mA
- Suitable products: UTD1000C、UTD4000C series
- Amount: 1PC

UT-W/UT-D SERIES

POWER ADAPTER/DATA CABLE



UT-M04 Voltage/current converter

- Range: 4A/6A
- Suitable products: UTD1000C、UTD4000C series
- Amount: 1PC



UT-M08 Lithium battery subassembly

- Output voltage: 7.4V
- Capacity: 3600mAh
- Suitable products: UTD1000L series、UT283A
- Amount: 1PC



UT-M10 Voltage/current converter

- Range: μ A, 40mA, 400mA
- Suitable products: UTD1025DL、UTD1050DL、UTD1025CL、UTD1050CL
- Amount: 1PC



UT-D07A Bluetooth adaptor

- Description: Bluetooth 4.0 communication protocol
- Support: iOS 6.0 or above, Android 4.0 or above
- Application: UT71、UT171、UT181 series
- Power: 1.5V battery (R03) x 2



UT-M07 10A current diverter

- Range: 10A
- Suitable products: UTD1025CL、UTD1052CL、UTD1050CL
- Amount: 1PC



UT-M09 Logic analyzer module

- Channels: 16
- Sampling rate: 250MS/s
- Maximum input voltage: ± 40 Vpp
- Trigger mode: Time trigger, array trigger
- Suitable products: UTD4000CM、UPO2000CS
- Amount: 1PC



UT-U01 Logic analyzer module

- Channels: 16
- Maximum input voltage: ± 40 Vpk
- Minimum voltage swing: 1.2Vpp
- Suitable products: UTD4000C series
- Amount: 1PC



UT-U02 Digital protocol cable

- Channels: 16
- Suitable products: UTG4000A series
- Amount: 1PC

