



Product Catalog

Test & Measurement Instruments

Innovating the Future: An Overview of UNI-T

UNI-T was founded in 1988 and officially registered as UNI-Trend (China) Technology Co., Ltd. in 2003. We design and manufacture advanced test and measurement solutions. For years, we have been dedicated to pioneering technology and providing professional solutions, with a vision for a sustainable and shared future. UNI-T has consistently driven innovation in the electronic testing and measurement industry. As a well-established and trusted brand, we cater to a diverse range of sectors, including Education and Scientific Research, Industrial Automation, Automotive, Transportation, Energy, Semiconductors, Network and Communications, Medical, Environmental Protection, and beyond. The company went public in SSE STAR (Sci-Tech Innovation Board) stock market in Feb. 2021 (code: 688628)



Driving Innovation Through R&D Excellence

With three dedicated R&D centers in Dongguan, Chengdu, and Changzhou, and a team of over 200 experienced engineers, UNI-Trend Group is deeply committed to research and development. This focus ensures we maintain a competitive edge by delivering reliable, innovative, and cost-effective products.

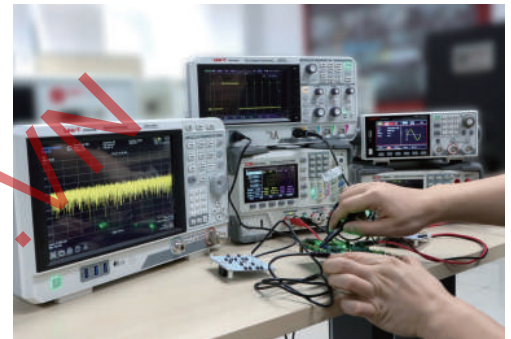
Our proprietary manufacturing facility covers 100,000 square meters and has an annual production capacity exceeding 10 million units. This extensive infrastructure underpins our specialization in testing solutions, allowing us to support and enhance the capabilities of our global partners and customers. Through our R&D-driven approach, we are dedicated to advancing technology and providing superior solutions tailored to diverse industry needs worldwide.





Comprehensive Solutions for Diverse Industries

As a growing company with solutions that span multiple sectors, there's a lot to talk about UNI-Trend Group We got four major product lines: Test & Measurement Instruments, Field Measurement Instruments, Thermal Imagers and Environmental Testers. Our products serve a wide range of industries and applications, making UNI-T a reliable partner for everything from R&D projects to facility and equipment maintenance. Our Test & Measurement Instruments portfolio includes Signal Analyze, RF&Microwave, Power Electronic, Passive components and Safety Testers.



UNI-TREND!

Customer-Centric Sales: Global Reach, Local Support

UNI-T's network of worldwide partners, spanning over 80 countries, ensures that our customers receive timely services whenever and wherever needed. We work closely with our partners, not only on product and technical matters but also on business development and channel strategies, to guarantee customer satisfaction. Together, we are committed to maintaining the highest quality products and services for scientists, engineers, and technicians globally, driving success and innovation for the future.



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Digital Oscilloscopes

High Definition Oscilloscopes

Selection Guide

Series	Model	Channels	Memory depth	Sample rate	Vertical resolution	Bandwidth											
						2 GHz	1 GHz	500 MHz	350 MHz	300 MHz	200 MHz	150 MHz	100 MHz	70 MHz	60 MHz	50 MHz	25 MHz
MSO5000HD	MSO5104HD	4+16Digit	500Mpts	5GSa/s	12bit		•										
	MSO5054HD						•										
	MSO5034HD							•									
MSO3000HD	MSO3054HD	4+16Digit	500Mpts	2.5GSa/s	12bit			•									
	MSO3034HD							•									
	MSO3024HD									•							

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MSO5000HD Series NEW

Digital Oscilloscopes



MSO5000HD series high-resolution oscilloscope has the maximum bandwidth of 1 GHz, the maximum Sample rate of 5 GSa/s, and is equipped with 4 analog channels and 16 digital channels, with the memory depth of up to 500 Mpts. MSO5000HD series adopts exclusive Ultra Phosphor 3.0 technology, achieving the waveform capture rate of up to 2,000,000 wfms/s, with 256 levels of gray temperature colors, and features an innovative digital trigger system with high trigger sensitivity and low jitter.

- Analog channel bandwidth:1GHz/500 MHz/350 MHz
- Real-time sample rate 5 GSa/s
- 12-bit vertical resolution
- 4 analog channels, 16 digital channels
- Memory depth of up to 500 Mpts
- Waveform capture rate is up to 800,000 wfms/s (sequence mode: 2,000,000 wfms/s)
- 9 instrument functions: digital oscilloscope, logic analyzer, function/ arbitrary waveform generator, spectrum analyzer, digital voltmeter, frequency meter, protocol analyzer, bode plot analyzer and power analyzer.
- Uninterrupted hardware real-time waveform recording and analysis of up to 400,000 frames
- Enhanced FFT of up to 4M points
- 54 kinds of parameter measurements. adds histogram and line graph display
- Multi-Windows display
- Multi-channel 7-digit hardware frequency meter
- DVM multi-channel RMS measurement:DC, AC RMS and DC+ACRMS
- Protocol triggering and decoding function:RS232/UART, I2C, SPI, I3C, 1-wire, CAN, CAN-FD, LIN, FlexRay, Audio, MIL-STD-1553B, Manchester, SENT, ARINC429
- Zone trigger for capturing sporadic signals and observing complicated signals.
- 10.1-inch 1280x800 HD capacitive multi-touch screen
- Built-in WebServer

Key Specifications	MSO5034HD	MSO5054HD	MSO5104HD
Bandwidth	350 MHz	500 MHz	1 GHz
Channels	4	4	4
Sample rate (analog)	5GSa/s(single channel), 2.5 GSa/s (dual-channel),2.5 GSa/s (four channel)		
Sample rate (digital)	1.25GSa/s		
Memory depth	500Mpts		
Max. Waveform capture rate	≥800,000 wfms/s; ≥2,000,000 wfms/s (sequence mode)		
Vertical resolution	12-bit (ERES is enabled with a maximum of 16-bit)		
Time base scale	500 ps/div to 1 ks/div		
Input impedance	(1 MΩ±2%) (18 pF±3 pF) 50 Ω± 1.5%		
Input impedance (digital)	(101 kΩ±1%) (9 pF ± 1 pF)		
Vertical scale	500 μV/div - 10 V/div(1 MΩ) 500 μV/div -1 V/div(50 Ω)		
DC gain accuracy	<5 mV: ±2% full scale, ≥5 mV: ±1.5% full scale		
Waveform record	400,000 frames		

Key Specifications	MSO5034HD	MSO5054HD	MSO5104HD
Serial protocol analysis	RS232/UART, I2C, SPI, I3C, 1-wire, CAN, CAN-FD, LIN, FlexRay, Audio, MIL-STD-1553B, Manchester, SENT, ARINC429		
Auto measurements	54 kinds of parameter, simultaneously display 27 kinds of parameter measurement		
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Histogram		
Arbitrary waveform generator (optional)	2 CH, 50 MHz, 250 MSa/s		
Frequency counter	7-bit hardware frequency counter		
Digital voltmeter	4digits,DC/AC RMS/DC+AC RMS		
Advanced analysis function	Power Analysis (Optional), BODE Plot (Optional), Limit Mask Testing		
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), Gen Out, HDMI, WIFI, 10MHz reference clock IN/OUT		

General Characteristics	
Power	100 V-240 VAC(fluctuate: ±10%), 50 Hz/60 Hz 100 V-120 VAC(fluctuate: ±10%), 400 Hz
Display	10.1 - inch multi-touch capacitive screen, 1280*800(H*V)
Product net weight	3.83 kg
Product size (W×H×D)	364 mm×209 mm×106 mm
Standard quantity per carton	1pcs

Ordering Information		
MSO5000HD Series	MSO5104HD(1 GHz,5 GSa/s, 12bit, 4 analog channels, MSO)	
	MSO5054HD(500 MHz,5 GSa/s, 12bit, 4 analog channels, MSO)	
	MSO5034HD(350 MHz,5 GSa/s, 12bit, 4 analog channels, MSO)	
Standard Accessories	National standard cable x 1	
	USB3.0 cable x 1	
	BNC-BNC direct-through line x 1	
	BNC-red and black alligator connecting wire x 1	
	Passive probe x 4	
Options	MSO5000HD-BW5MT1G	500MHz Upgrade to 1GHz Bandwidth
	MSO5000HD-BW3M5T5M	350MHz Upgrade to 500MHz Bandwidth
	MSO5000HD-BW3M5T1G	350MHz Upgrade to 1GHz Bandwidth
	MSO5000HD-BND	All Serial Bus Trigger and Decode Options (including AUTO, Audio, MIL-STD, ARINC, Manchester)
	MSO5000HD-AUTO	Automotive Serial Bus Trigger and Decode Option (CAN, CAN-FD, LIN, FlexRay, SENT)
	MSO5000HD-CAN	Automotive Serial Bus Trigger and Analysis Option (CAN)
	MSO5000HD-CANFD	Automotive Serial Bus Trigger and Analysis Option (CAN-FD)
	MSO5000HD-LIN	Automotive Serial Bus Trigger and Analysis Option (LIN)
	MSO5000HD-FLEX	Automotive Serial Bus Trigger and Analysis Option (FlexRay)
	MSO5000HD-SENT	Automotive Sensor Bus Trigger and Analysis Option (SENT)

Ordering Information

Options	MSO5000HD-I3C	I3C Serial Bus Trigger and Analysis Option (I3C)
	MSO5000HD-1-wire	1-wire Bus Trigger and Analysis Option
	MSO5000HD-AUDIO	Audio Serial Bus Trigger and Analysis Option (I2S, LJ, RJ, TDM)
	MSO5000HD-MIL1553	Aerospace Serial Bus Trigger and Analysis Option (MIL-STD-1553)
	MSO5000HD-ARINC429	Aerospace Serial Bus Trigger and Analysis Option(ARINC429)
	MSO5000HD-MANCH	Serial Bus Trigger and Analysis Option (Manchester)
	MSO5000HD-AWG	Dual-Channel 50 MHz Arbitrary Waveform Generator Option
	MSO5000HD-PWR	Power Analysis Option
Optional accessories	Active single-ended probe (2GHz; 10X): UT-PA2000	
	High Voltage Probe:UT-V23/UT-P21/UT-P20	
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36	
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44:UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B	
	16-channel logic analyzer probe:UT-M15	
	Isolation transformer: UT-IS01	

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MSO5000HD Series

MSO3000HD Series Digital Oscilloscopes

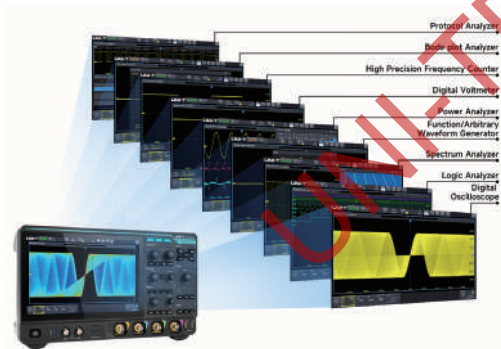
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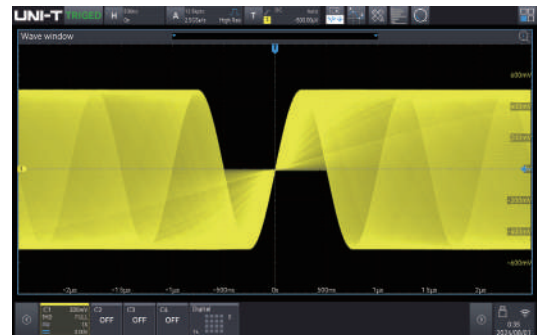
MSO3000HD series high-resolution oscilloscope has the maximum bandwidth of 500 MHz, the maximum Sample rate of 2.5 GSa/s, and is equipped with 4 analog channels and 16 digital channels, with the memory depth of up to 500 Mpts. MSO3000HD series adopts exclusive Ultra Phosphor 3.0 technology, achieving the waveform capture rate of up to 1,500,000 wfms/s, with 256 levels of gray temperature colors, and features an innovative digital trigger system with high trigger sensitivity and low jitter.

- Analog channel bandwidth: 500 MHz/350 MHz/200 MHz
- Real-time sample rate 2.5 GSa/s
- 12-bit vertical resolution
- 4 analog channels, 16 digital channels
- Memory depth of up to 500 Mpts
- Waveform capture rate is up to 500,000 wfms/s (sequence mode: 1,500,000 wfms/s)
- 9 instrument functions: digital oscilloscope, logic analyzer, function/arbitrary waveform generator, spectrum analyzer, digital voltmeter, frequency meter, protocol analyzer, bode plot analyzer and power analyzer.
- Uninterrupted hardware real-time waveform recording and analysis of up to 125,000 frames
- Enhanced FFT of up to 4M points

- Supports ERES (enhanced resolution) of up to 4-bit
- 54 kinds of parameter measurements. adds histogram and line graph display
- Multi-Windows display
- Multi-channel 7-digit hardware frequency meter
- DVM multi-channel RMS measurement: DC, AC RMS and DC+ACRMS
- Protocol triggering and decoding function: RS232/UART, I2C, SPI, CAN, CAN-FD, LIN, FlexRay, Audio, MIL-STD-1553B, Manchester, SENT, ARINC429
- Zone trigger for capturing sporadic signals and observing complicated signals.
- 10.1-inch 1280x800 HD capacitive multi-touch screen
- Built-in WebServer



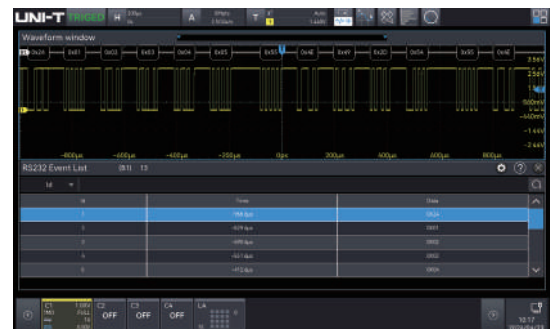
- 9-in-1 Comprehensive Test Platform



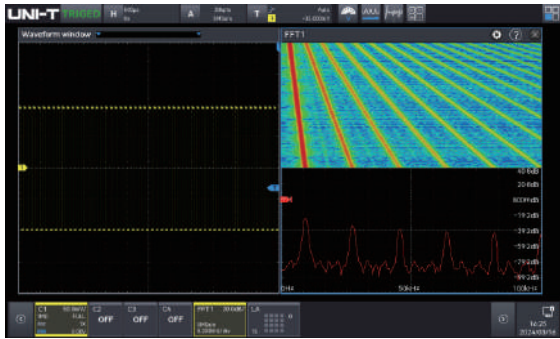
- Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 500,000 wfms/s and 1,500,000 wfms/s in sequence mode.



- MSO3000HD series provides 54 kinds of measurement parameters. The parameter snapshot displays 39 kinds of test items for a single channel measurement



- 12 kinds of trigger protocol and decoding, which including the field of computer, embedded serial bus, automobile, aerospace and audio



- Standard enhanced FFT, up to 4 Mpts, 4 channels signal analysis



- Multiple power analysis functions:
 - Power quality
 - Harmonic analysis
 - Switching loss
 - Ripple wave analysis
 - Loop analysis
 - Safety operation area

Key Specifications	MSO3024HD	MSO3034HD	MSO3054HD
Bandwidth	200MHz	350MHz	500MHz
Channels	4	4	4
Sample rate (analog)	2.5 GSa/s (interweave mode), 1.25 GSa/s (non-interweave mode)		
Sample rate (digital)	1.25GSa/s		
Memory depth	500Mpts		
Max. Waveform capture rate	≥500,000 wfms/s; ≥1,500,000 wfms/s (sequence mode)		
Vertical resolution	12-bit (RES is enabled with a maximum of 16-bit)		
Time base scale	200 MHz (2 ns/div to 1 ks/div)	350 MHz (1 ns/div to 1 ks/div)	500 MHz (500 ps/div to 1 ks/div)
Input impedance	(1 MΩ±2%) (18 pF±3 pF) 50 Ω± 1.5%		
Input impedance (digital)	(101 kΩ±1%) (9 pF ± 1 pF)		
Vertical scale	500 μV/div - 10 V/div (1 MΩ) 500 μV/div - 1 V/div (50 Ω)		
DC gain accuracy	<5 mV: ±2% full scale, ≥5 mV: ±1.5% full scale		
Waveform record	125,000 frames		
Serial protocol analysis	RS232/UART, I2C, SPI, CAN, CAN-FD, LIN, FlexRay, AUDIO, MIL-STD-1553B, Manchester, SENT, ARINC429		
Auto measurements	54 kinds of parameter, simultaneously display 27 kinds of parameter measurement		
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Histogram		
Arbitrary waveform generator (optional)	2 CH, 50 MHz, 250 MSa/s		
Frequency counter	7-bit hardware frequency counter		
Digital voltmeter	4digits, DC/AC RMS/DC+AC RMS		
Advanced analysis function	Power Analysis (Optional), BODE Plot (Optional), Limit Mask Testing		
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), Gen Out, HDMI, WIFI, 10MHz reference clock IN/OUT		

General Characteristics	
Power	100 V-240 VAC(fluctuate:±10%),50 Hz/60 Hz,100 V-120 VAC(fluctuate:±10%),400 Hz
Display	10.1 - inch multi-touch capacitive screen, 1280*800(H*V)
Product net weight	3.83 kg
Product size (W×H×D)	364 mm×209 mm×106 mm
Standard quantity per carton	1pcs

Ordering Information		
MSO3000HD Series	MSO3054HD(500 MHz,2.5 GSa/s, 4 analog channels)	
	MSO3034HD(350 MHz,2.5 GSa/s, 4 analog channels)	
	MSO3024HD(200 MHz,2.5 GSa/s, 4 analog channels)	
Standard Accessories	National standard cable x 1	
	USB3.0 cable x 1	
	BNC-BNC direct-through line x 1	
	BNC-red and black alligator connecting wire x 1	
	Passive probe (500 MHz/350 MHz/200 MHz) x 4	
Options	MSO3000HD-BW2MT3M5	200MHz Upgrade to 350MHz Bandwidth
	MSO3000HD-BW2MT5M	200MHz Upgrade to 500MHz Bandwidth
	MSO3000HD-BW3M5T5M	350MHz Upgrade to 500MHz Bandwidth
	MSO3000HD-BND	All Serial Bus Trigger and Decode Options (including AUTO, Audio, MIL-STD, ARINC, Manchester)
	MSO3000HD-AUTO	Automotive Serial Bus Trigger and Decode Option (CAN, CAN-FD, LIN, FlexRay, SENT)
	MSO3000HD-CAN	Automotive Serial Bus Trigger and Analysis Option (CAN)
	MSO3000HD-CANFD	Automotive Serial Bus Trigger and Analysis Option (CAN-FD)
	MSO3000HD-LIN	Automotive Serial Bus Trigger and Analysis Option (LIN)
	MSO3000HD-FLEX	Automotive Serial Bus Trigger and Analysis Option (FlexRay)
	MSO3000HD-SENT	Automotive Sensor Bus Trigger and Analysis Option (SENT)
	MSO3000HD-AUDIO	Audio Serial Bus Trigger and Analysis Option (I2S, LJ, RJ, TDM)
	MSO3000HD-MIL1553	Aerospace Serial Bus Trigger and Analysis Option (MIL-STD-1553)
	MSO3000HD-ARINC429	Aerospace Serial Bus Trigger and Analysis Option (ARINC429)
	MSO3000HD-MANCH	Serial Bus Trigger and Analysis Option (Manchester)
	MSO3000HD-AWG	Dual 50 MHz Arbitrary Waveform Generator Option (Includes Bode Plot)
MSO3000HD-PWR	Power Analysis Option	

Ordering Information

Optional accessories	Active single-ended probe (2GHz; 10X): UT-PA2000
	High Voltage Probe:UT-V23/UT-P21/UT-P20
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44,UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B
	16-channel logic analyzer probe:UT-M15
	Isolation transformer: UT-ISOT



MSO3000HD Series

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Digital Oscilloscopes

Selection Guide

Series	Model	Channels	Memory depth	Sample rate	Bandwidth														
					2 GHz	1 GHz	500 MHz	350 MHz	300 MHz	200 MHz	150 MHz	100 MHz	70 MHz	60 MHz	50 MHz	25 MHz			
MSO7000X	MSO7204X	4+16Digit	1Gpts	10GSa/s	•														
	MSO7104X					•													
UPO7000L	UPO7204L	4	1Gpts	10GSa/s	•														
	UPO7104L					•													
MSO3000X	MSO3054X	4+16Digit	500Mpts	5GSa/s			•												
	MSO3034X						•												
MSO/UPO3000E	MSO/UPO3504E	4+16Digit/4	250Mpts	2.5GSa/s			•												
	MSO/UPO3502E	2+16Digit/2					•												
	MSO/UPO3352E	2+16Digit/2						•											
	MSO/UPO3354E	4+16Digit/4							•										
	MSO3504E-S	4+16Digit							•										
	MSO3354E-S									•									
MSO2000X	MSO2304X	4+16Digit	100Mpts	5GSa/s					•										
	MSO2204X								•										
	MSO2104X												•						
MSO/UPO2000	MSO/UPO2204	4+16Digit/4	56Mpts	2GSa/s						•									
	MSO/UPO2202	2+16Digit/2									•								
	MSO2204-S	4+16Digit										•							
	MSO2202-S	2+16Digit										•							
	MSO/UPO2104	4+16Digit/4											•						
	MSO/UPO2102	2+16Digit/2												•					
	MSO2104-S	4+16Digit													•				
	MSO2102-S	2+16Digit														•			
UPO1000	UPO1204	4	56Mpts	2GSa/s						•									
	UPO1104											•							
	UPO1054															•			
UPO1000CS	UPO1202CS	2	56Mpts	1GSa/s						•									
	UPO1102CS												•						

Series	Model	Channels	Memory depth	Sample rate	Bandwidth														
					2 GHz	1 GHz	500 MHz	350 MHz	300 MHz	200 MHz	150 MHz	100 MHz	70 MHz	60 MHz	50 MHz	25 MHz			
UTD2000CEX+	UTD2202CEX+	2	64Kpts	1GSa/s							•								
	UTD2102CEX+												•						
	UTD2052CEX+																	•	
UTD2000CL+/CL	UTD2152CL	2	64Kpts	500MSa/s								•							
	UTD2102CL+													•					
	UTD2052CL+																	•	
	UTD2072CL															•			
UTD1000C	UTD1202C	2	7.5Kpts	1GSa/s							•								
	UTD1102C			500MSa/s												•			
	UTD1062C			250MSa/s													•		
UTD1000L	UTD1050DL	2	12Kpts	250MSa/s													•		
	UTD1025DL																	•	
	UTD1050CL	1		200MSa/s													•		
	UTD1025CL																•		

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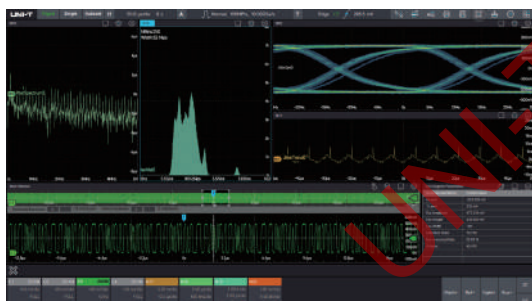
MSO7000X Series

Digital Oscilloscopes

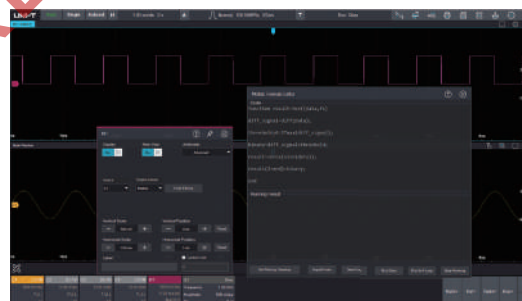


MSO7000X series is a new mixed-signal oscilloscope with bandwidth up to 2 GHz and sample rate up to 10 GSa/s. It adopts the unique UltraAcq® technology to enhance the waveform capture rate up to 800,000 wfms/s. It supports a variety of advanced measurement and analysis functions, and up to 48 kinds of parameter automatic measurements, which greatly meets the measurement needs of engineers. Equipped with Win10 64-bit operating system, providing users with a stable and scalable system platform. Adopts 15.6-inch high-definition capacitive touch screen, supporting multi-window split-screen display and multiple gesture touch control. Can be widely used in communications, aerospace, education and many other industries and fields.

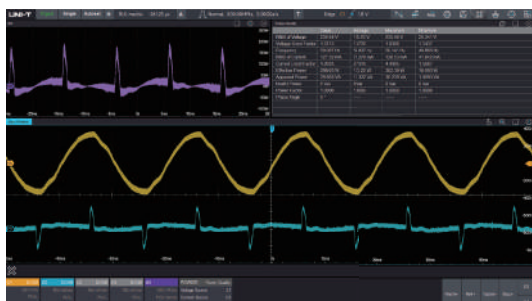
- Analog channel bandwidth: 1G/2GHz
- Maximum sample rate: 10GSa/s
- Maximum memory depth: 1Gpts (standard configuration)
- Waveform capture rate: 800,000wfms/s (UltraAcq®), 2,000,000wfms/s (Sequence mode)
- 11 kinds of serial protocol analysis
- One machine with multiple functions: Digital oscilloscope, Logic analyzer, Spectrum analyzer, Function/arbitrary waveform generator, Digital voltmeter, Frequency counter and Protocol analyzer
- Up to 48 kinds of parameter measurement, support histogram, tracking, trend graph
- Advanced measurement and analysis functions: Power analysis (optional), jitter analysis & Eye diagram (optional), Mask and limit testing, Histogram, etc.
- Equipped with Win10 64-bit operating system
- 15.6-inch high-definition touch screen
- Embedded WebServer, easy to achieve cross-platform access
- Support SCPI standard instrument programming commands
- Supports MATLAB embedded programming and data presentation



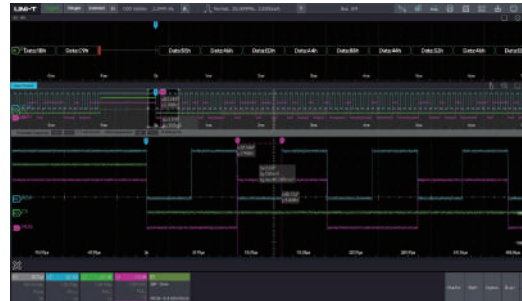
- jitter analysis & eye diagram, Efficient measurement of clock and serial bus.



- Support MATLAB embedded programming, Operational results are rendered directly to the oscilloscope window.



- Power Measurement & Analysis, Provide a full range of analytical tools and assessment results



- Up to 11 serial protocols analysis

Key Specifications	MSO7104X	MSO7204X
Bandwidth	1GHz	2GHz
Channels	4	
Sample rate (analog)	10GSa/s(single channel), 5GSa/s (dual channel), 2.5GSa/s (full channel)	
Sample rate (digital)	1.25GS/s	
Memory depth	1Gpts(single channel), 500Mpts(dual channel), 250Mpts(full channel)	
Max. Waveform capture rate	≥800,000 wfms/s(UltraAcq®); ≥2,000,000 wfms/s (sequence mode)	
Time base scale	100ps/div-1000s/div	
Input impedance	1MΩ ± 1% (15±3 pF), 50Ω ± 2%	
Input impedance (digital)	100kΩ±2%	
Vertical scale	1mV/div-10 V/div (1 MΩ);1mV/div-1V/div (50Ω)	
DC gain accuracy	50Ω:±1.5%(≤5mV/div: ±2.0%)±1% of FS(≤5mV/div:±1.5% of FS) 1MΩ:±1.2%(≤5mV/div: ±1.5%)±1% of FS(≤5mV/Div : ±1.2% of FS)	
Serial protocol analysis	Standard configuration: RS-232/422/485/UART, SPI, I2C, CAN, LIN; Optional: CAN-FD, SENT, FlexRay, AudioBus (I2S\LJ\RJ\TDM), MIL STD 1553, ARINC429	
Waveform math	Simultaneous support for 8 math waveforms; Enhanced FFT, basic operations, filter, advanced function editor, MATLAB embedded programming operations and render, enhanced resolution; Histograms, Area histograms, Trend Chart, Trace	
Auto measurements	>48 , support for parameter snapshots; support for statistical analysis, histograms, trend charts and tracking chart analysis	
Number of measurements	Display 10 measurements at the same time	
Measurement statistics	Current value, Average value, Maximum value, Minimum value, Standard deviation, Measure the count, Histogram, Trend chart, Trace	
Arbitrary waveform generator (optional)	2CH, 60MHz , 625MSa/s	
Frequency counter	8-bit hardware frequency counter	
Digital voltmeter	4digits,DC/AC RMS/DC+AC RMS	
Advanced analysis function	Power Analysis (Optional), Jitter and Eye Diagram Analysis (Optional), Limit Mask Testing, Sequence Mode	
Standard interfaces	USB 3.0 Host (4 ports), USB 3.0 Device (1 port, USBTMC Compliant), LAN (10/100/1000Mb/s Base-T Ethernet; LXI Compliant), HDMI, Aux In (Trig In, AWG external trigger input), Aux Out (Trig Out, Pass/Fail, AWG trigger output), 10MHz REF In\Out	

General Characteristics

Power	100V-240V ACrms (±10%), 50Hz/60Hz
Display	15.6 inch FHD capacitive touch screen, 1920*1080(H*V)
Product net weight	10.5kg
Product size (W×H×D)	445mm×302mm×200mm
Standard quantity per carton	1pcs

Ordering Information	
MSO7000X Series	MSO7204X :2GHz, 10GS/s, 1Gpts, 4CH digital oscilloscope
	MSO7104X :1GHz, 10GS/s, 1Gpts, 4CH digital oscilloscope
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D30: USB3.0 data cable
	UT-P07:Passive probe x 4 (1 x, 10 x switchable, 500MHz)
	UT-L45: BNC-BNC straight-through cable x2
	Front panel protective cover x1
Options	MSO7000X-AWG: Dual-channel 60 MHz arbitrary wave generator Option
	MSO7000X-LA: 16-channel logic analyzer option and probe
	MSO7000X-JITTER: Advanced Jitter and Eye Diagram Analysis Option
	MSO7000X-PWR: Advanced power analysis
	MSO7000X-CANFD: Automotive Serial Bus Triggering and Analysis (CAN FD)
	MSO7000X-FLEX: Automotive serial bus trigger and analysis (FlexRay)
	MSO7000X-SENT: Automotive sensor bus trigger and annalysis (SENT)
	MSO7000X-AUDIO: Audio serial bus triggering and analysis (I2S, LJ, RJ, TDM)
	MSO7000X-AERO: Aerospace Serial Bus Triggering and Analysis (MIL-STD-1553, ARINC 429)
	MSO7000X-BND: Upgrade kit (JITTER, PWR, CANFD, FLEX, SENT, AUDIO, AERO)
Optional accessories	Active single-ended probe (2GHz; 10X): UT-PA2000
	Passive high-impedance probe (1X: 8MHz; 10X: 500MHz): UT-P07A
	High Voltage Probe:UT-V23/UT-P21/UT-P20
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44,UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B
	16-channel logic analyzer probe:UT-M15
	Rack mount kit: MSO7000X-RM



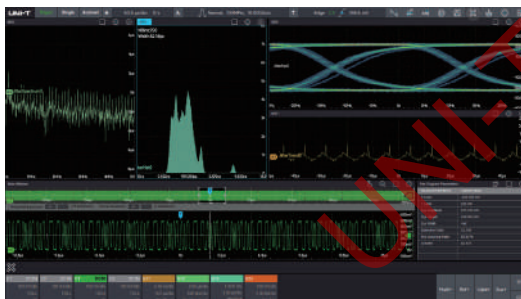
MSO7000X Series

UPO7000L Series NEW Digital Oscilloscopes



UPO7000L series digital oscilloscopes are slim and compact, 1U height is more suitable for multi-machine system integration and remote system control. Supports multi-mechanical synchronous triggering, up to 128 oscilloscopes. The single machine integrates 4 analog channels, 1 external trigger channel and 1 function/ arbitrary waveform generator channel. You can access an external touch display for a silky smooth gesture touch experience like the MSO7000X. Multi-computer integrated rack mounting kit is available. No matter what the application scenario, the UPO7000L can handle it with ease.

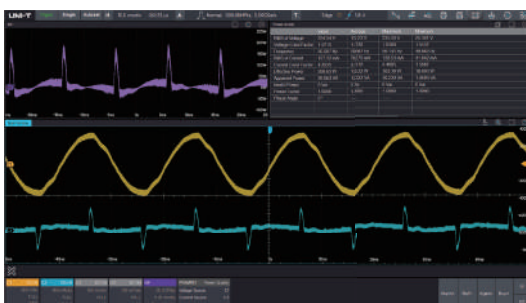
- Analog channel bandwidth: 1G/2GHz
- Maximum sample rate: 10GSa/s
- Maximum memory depth: 1Gpts (standard configuration)
- Waveform capture rate: 800,000wfms/s (UltraAcq®), 2,000,000wfms/s (Sequence mode)
- 11 kinds of serial protocol analysis
- One machine with multiple functions: Digital oscilloscope, Spectrum analyzer, Function/arbitrary waveform generator, Digital voltmeter, Frequency counter and Protocol analyzer
- Up to 48 kinds of parameter measurement, support histogram, tracking, trend graph
- Advanced measurement and analysis functions: Power analysis (optional), jitter analysis & Eye diagram (optional), Mask and limit testing, Histogram, etc.
- Embedded WebServer, easy to achieve cross-platform access
- Support SCPI standard instrument programming commands
- Supports MATLAB embedded programming and data presentation



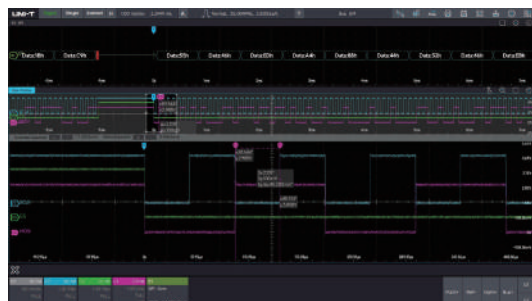
- Jitter analysis & eye diagram, Efficient measurement of clock and serial bus.



- Support MATLAB embedded programming, Operational results are rendered directly to the oscilloscope window.



- Power Measurement & Analysis, Provide a full range of analytical tools and assessment results



- Up to 11 serial protocols analysis

Key Specifications	UPO7104L	UPO7204L
Bandwidth	1GHz	2GHz
Channels	4	4
Sample Rate	10GSa/s(single channel), 5GSa/s (dual channel), 2.5GSa/s (full channel)	
Memory depth	1Gpts(single channel), 500Mpts(dual channel), 250Mpts(full channel)	
Max. Waveform capture rate	≥800,000 wfms/s(UltraAcq®); ≥2,000,000 wfms/s (sequence mode)	
Time base scale	100ps/div-1000s/div	
Input impedance	1MΩ ± 1% (15±3 pF), 50Ω ± 2%	
Vertical scale	1mV/div-10 V/div (1 MΩ);1mV/div-1V/div (50Ω)	
DC gain accuracy	50Ω:±1.5%(≤5mV/div: ±2.0%)±1% of FS(≤5mV/div:±1.5% of FS) 1MΩ:±1.2%(≤5mV/div: ±1.5%)±1% of FS(≤5mV/Div: ±1.2% of FS)	
Serial protocol analysis	Standard configuration: RS-232/422/485/UART, SPI, I2C, CAN, LIN; Optional: CAN-FD, SENT, FlexRay, AudioBus (I2S\LJ\RJ\TDM), MIL STD 1553, ARINC429	
Waveform math	Simultaneous support for 8 math waveforms; Enhanced FFT, basic operations, filter, advanced function editor, MATLAB embedded programming operations and render, enhanced resolution; Histograms, Area histograms, Trend chart, Trace	
Auto measurements	>48 , support for parameter snapshots; support for statistical analysis, histograms, trend charts and tracking chart analysis	
Number of measurements	Display 10 measurements at the same time	
Measurement statistics	Current value, Average value, Maximum value, Minimum value, Standard deviation, Measure the count, Histogram, Trend chart, Trace	
Arbitrary waveform generator (optional)	1CH, 60MHz , 625MSa/s	
Frequency counter	8-bit hardware frequency counter	
Digital voltmeter	4-bit,DC/AC RMS/DC+AC RMS	
Advanced analysis function	Power Analysis (Optional), Jitter and Eye Diagram Analysis (Optional), Limit Mask Testing, Sequence Mode	
Standard interfaces	USB Host×4, USB Device x1, LAN (10/100/1000Mb/s)×2, HDMI, Aux Out (Trig Out, Pass/Fail, AWG trigger output), 10MHz REF In\Out,Audio interface	

General Characteristics

Power	100V-240V ACrms (±10%), 50Hz/60Hz
Product net weight	3.5kg
Product size (W×H×D)	214mm×43mm×500mm
Standard quantity per carton	1pcs

Ordering Information

UPO7000L Series	UPO7204L :2GHz, 10GS/s, 1Gpts, 4CH digital oscilloscope
	UPO7104L :1GHz, 10GS/s, 1Gpts, 4CH digital oscilloscope
Standard Accessories	Power cord conforming to the standard of the destination country
	USB2.0 data cable
	UT-P07:Passive probe x 4 (1 x, 10 x switchable, 500MHz)
	UT-L45: BNC-BNC straight-through cable ×2

Ordering Information

Options	UPO7000L-AWG: 60 MHz arbitrary wave generator
	UPO7000L-JITTER: Advanced Jitter and Eye Diagram Analysis Option
	UPO7000L-PWR: Advanced Power Analysis
	UPO7000L-CANFD: Automotive Serial Bus Triggering and Analysis (CAN FD)
	UPO7000L-FLEX: Automotive serial bus trigger and analysis (FlexRay)
	UPO7000L-SENT: Automotive sensor bus trigger and annalysis (SENT)
	UPO7000L-AUDIO: Audio serial bus triggering and analysis (I2S, LJ, RJ, TDM)
	UPO7000L-AERO: Aerospace Serial Bus Triggering and Analysis (MIL-STD-1553, ARINC 429)
	UPO7000L-BND: Upgrade kit (JITTER, PWR, CANFD, FLEX, SENT, AUDIO, AERO)
Optional accessories	Active single-ended probe (2GHz; 10X): UT-PA2000
	Passive high-impedance probe (1X: 8MHz; 10X: 500MHz): UT-P07A
	High Voltage Probe:UT-V23/UT-P21/UT-P20
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44,UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B
	Rack mount kit: UPO7000L-RM

UNI-TREND



UPO7000L Series

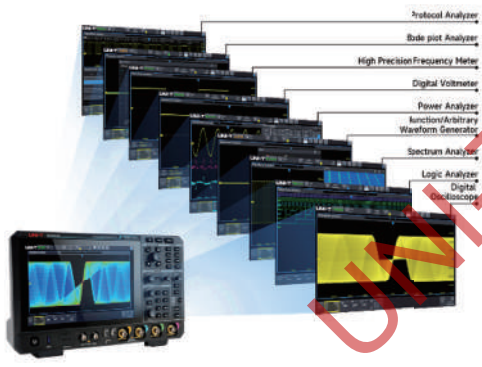
MSO3000X Series NEW Digital Oscilloscopes



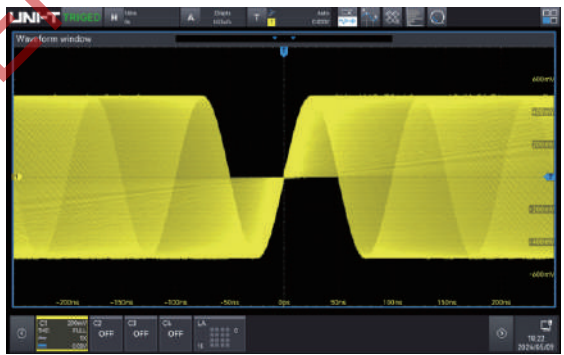
MSO3000X series mixed signal oscilloscope with the maximum bandwidth of 500 MHz, maximum Sample rate of 5 GSa/s and equipped with 4 analog channels and 16 digital channels, the memory depth up to 500 Mpts. MSO3000X has unique Ultra Phosphor 3.0 technology, the waveform capture rate is up to 2,000,000 wfms/s, innovative digital trigger system with high trigger sensitivity and low jitter. This oscilloscope supports multiple advanced triggers, serial bus trigger and decoding, and supports the advanced sampling and analysis mode of spectrum analyzing, power analysis, histogram, waveform recording, enhanced resolution (ERES), hardware acceleration template testing, Search and Navigate. MSO3000X series adopts 10.1-inch capacitive touch screen that supports multiple gestures for common waveform operations, and combined with multiple one-touch keys on the front panel, this greatly optimizes the efficiency of oscilloscope operation and improves the user experience.

- 4CH+16MSO
- BW: 500MHz/350MHz
- Memory depth 500Mpts
- Waveform capture rate 800,000 wfms/s (sequention mode: 2,000,000 wfms/s)
- 9-in-1: Digital oscilloscope, Logic analyzer, Function/arbitrary waveform generator, Spectrum analyzer, Digital voltmeter, Frequency counter, protocol analyzer, Bode plot analyzer, and Power analyzer
- Parameter measurement statistics add Histogram and Trend chart

- 4M points enhanced FFT
- 54 waveform parameter measurements
- Multi-Windows display
- Zone trigger function
- Ultra Phosphor3.0 display technology
- 10.1-inch 1280x800 HD capacitive touch
- Supports SCPI programmable instrument standard commands
- Embedded WebServer



● 9-in-1 Comprehensive Test Platform



● Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 800,000 wfms/s and 2000,000 wfms/s in sequence mode.



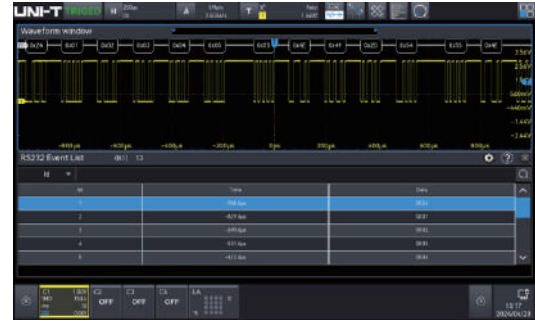
● MSO3000X series provides 54 kinds of measurement parameters. The parameter snapshot displays 39 kinds of test items for a single channel measurement



● 12 kinds of trigger protocol and decoding, which including the field of computer, embedded serial bus, automobile, aerospace and audio



- Standard enhanced FFT, up to 4 Mpts, 4 channels signal analysis



- Multiple power analysis functions:
 - Power quality
 - Harmonic analysis
 - Switching loss
 - Ripple wave analysis
 - Loop analysis
 - Safety operation area

Key Specifications	MSO3034X	MSO3054X
Bandwidth	350MHz	500MHz
Channels	4	4
Sample rate (analog)	5 GSa/s (interweave mode) 2.5 GSa/s (non-interweave mode)	
Sample rate (digital)	1.25GSa/s	
Memory depth	500Mpts	
Max. Waveform capture rate	≥800,000 wfms/s; ≥2,000,000 wfms/s (sequence mode)	
Time base scale	350 MHz (1 ns/div - 1 ks/div) 500 MHz (500 ps/div - 1 ks/div)	
Input impedance	(1 MΩ±2%) (16 pF±3 pF)	
Input impedance (digital)	(101 kΩ±1%) (9 pF ± 1 pF)	
Vertical scale	500 μV/div - 10 V/div(1 MΩ) 500 μV/div -1 V/div(50 Ω)	
DC gain accuracy	<5 mV : ±3% full scale, ≥5 mV : ±2% full scale	
Waveform record	250,000 frames	
Serial protocol analysis	Standard:RS232/UART, I2C, SPI Option:CAN, CAN-FD, LIN, FlexRay, AUDIO, MIL-STD-1553B, Manchester, SENT, ARINC429	
Auto measurements	54 kinds of parameter, simultaneously display 27 kinds of parameter measurement	
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Histogram	
Arbitrary waveform generator (optional)	2 CH, 50 MHz , 250 MSa/s	
Frequency counter	7-bit hardware frequency counter	
Digital voltmeter	4digits,DC/AC RMS/DC+AC RMS	
Advanced analysis function	Power Analysis (Optional), BODE Plot (Optional), Limit Mask Testing	
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), Gen Out, HDMI,WIFI, 10MHz reference clock IN/OUT	

General Characteristics	
Power	"100 V-240 VAC(fluctuate:±10%),50 Hz/60 Hz 100 V-120 VAC(fluctuate:±10%),400 Hz"
Display	10.1 - inch multi-touch capacitive screen, 1280*800(H*V)
Product net weight	3.83 kg
Product size (W×H×D)	378 mm×218 mm×120 mm
Standard quantity per carton	1pcs

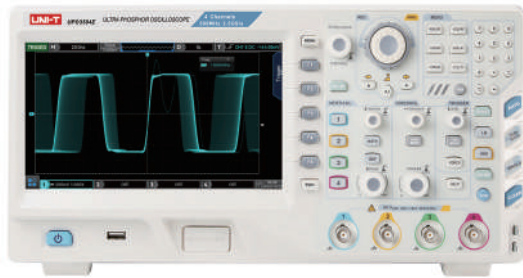
Ordering Information	
MSO3000X Series	MSO3054X : 500 MHz, 5 GS/s, 500 Mpts, 4 CH digital oscilloscope
	MSO3054X : 350 MHz, 5 GS/s, 500 Mpts, 4 CH digital oscilloscope
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D30: USB3.0 data cable
	UT-P07A/UT-P08A: Passive probe x 4 (1 x, 10 x switchable, 500 MHz/350 MHz)
	UT-L45: BNC-BNC straight-through cable x1
	UT-L02: BNC-red and black alligator connecting wire x 1
Options	MSO3000X-BW3M5T5M:350MHz Upgrade to 500MHz Bandwidth
	MSO3000X-AWG:Dual-Channel 50 MHz Arbitrary Waveform Generator Option
	MSO3000X-PWR:Power Analysis Option
	MSO3000X-BND:All Serial Bus Trigger and Decode Options (Including MSO3000X-AUTO, MSO3000X-AUDIO, MSO3000X-MIL-STD, MSO3000X-ARINC429, MSO3000X-MANCH)
	MSO3000X-AUDIO:Audio Serial Bus Trigger and Analysis Option
	MSO3000X-MIL1553:Aerospace Serial Bus Trigger and Analysis Option (MIL-STD-1553)
	MSO3000X-ARINC429:Aerospace Serial Bus Trigger and Analysis Option (ARINC429)
	MSO3000X-AUTO:Automotive Serial Bus Trigger and Decode Option (CAN, CAN-FD, LIN, FlexRay, SENT)
	MSO3000X-MANCH:Serial Bus Trigger and Analysis Option (Manchester)
	MSO3000X-CANFD:Automotive Serial Bus Trigger and Analysis Option (CAN-FD)
	MSO3000X-LIN:Automotive Serial Bus Trigger and Analysis Option (LIN)
	MSO3000X-FLEX:Automotive Serial Bus Trigger and Analysis Option (FlexRay)
	MSO3000X-SENT:Automotive Sensor Bus Trigger and Analysis Option (SENT)
	Optional accessories
High Voltage Probe:UT-V23/UT-P21/UT-P20	
High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36	
Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44,UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B	
16-channel logic analyzer probe:UT-M15	
Isolation transformer: UT-ISOT	



MSO3000X Series

MSO/UPO3000E Series

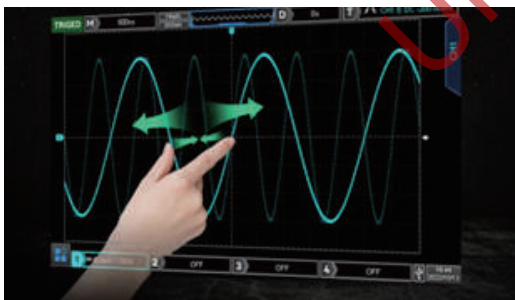
Digital Oscilloscopes



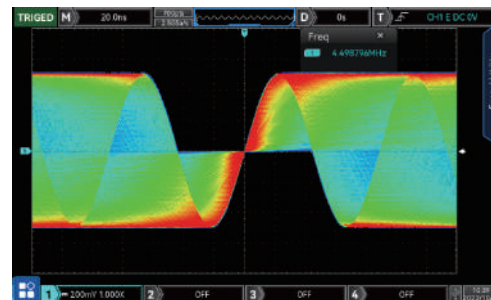
- Analog channel bandwidth: 350MHz, 500MHz
- Real time Sample rate of analog channel 2.5GSa/s, Real time Sample rate of digital channel 1.25GSa/s (only MSO)
- Input impedance :1M Ω , 50 Ω
- Max. memory depth :250Mpts
- Waveform capture rate up to 1,000,000 wfms/s
- Built in 50MHz dual channel function / arbitrary waveform generator (only MSO-S). It supports real-time loading of oscilloscope screen data to AWG arbitrary wave output.
- Support Bode Plot loop test and analysis function
- Hardware real-time waveform uninterrupted recording and analysis up to 120,000 frames
- Waveform operation functions (+, -, \times , \div , digital filtering, logic operation and advanced operation)
- 1M points enhanced FFT, supporting frequency setting, waterfall diagram, detection setting and mark measurement, etc.
- Auto measurement of 36 waveform parameters
- Multi-Scopes 2.0 supports multi-channel independent trigger and fluorescent display
- Multi-channel independent 7-bit hardware frequency counter

The MSO/UPO3000E series digital phosphor oscilloscope is a multifunctional and high-performance oscilloscope based on UNI-T's original Ultra Phosphor 2.0 technology. It realizes the combination of ease of use, excellent technical indicators and many functional features. It can help users complete the measurement work faster. It is an oscilloscope designed for general design / debugging / testing needs in many fields, such as communication, semiconductor, computer, instrumentation, industrial electronics, consumer electronics, automotive electronics, on-site maintenance, R & D / education, etc. Fast Acquire technology can accurately capture abnormal events such as video, jitter, noise and low wave signals.

- DVM supports multi-channel independent AC / DC true RMS measurement
- Rich trigger functions: edge, pulse, video, slope, runt, over amplitude pulse, delay, timeout, duration, setup/hold, Nth edge and pattern trigger
- Area trigger function, which can be used to capture accidental signals and observe complex signals
- Protocol trigger and decoding function (optional): RS232, I2C, SPI, CAN, CAN-FD, LIN, FlexRay
- Ultra Phosphor 2.0 super fluorescent display effect, up to 256 levels of gray display
- 8-inch 800x480 capacitive touch, supporting various gesture operations: click, slide, zoom, edit, drag, etc.
- Rich interfaces: USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail), AWG, VGA
- Support U disk data storage, U disk software upgrade, one-key copy screen and other functions
- Support plug and play USB device, can communicate with computer through USB device
- Support SCPI programmable instrument standard commands
- Support web access and control



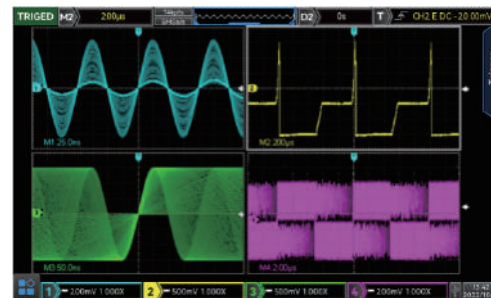
- Brand new interactive experience



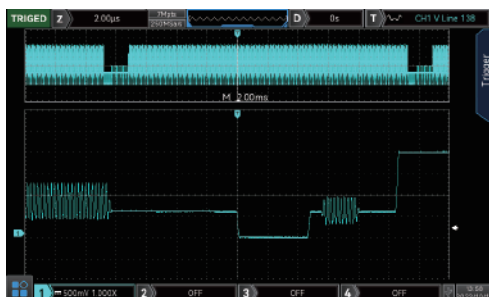
- 256-level grayscale display



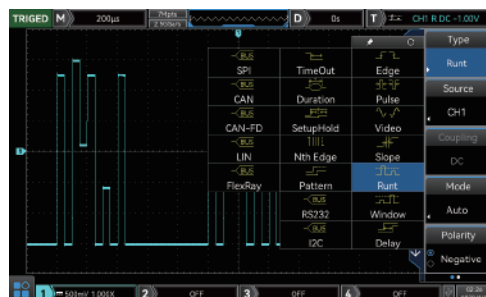
- Ultra high capture rate 1,000,000 wfms/s in Fast Acquire mode



- Channel split screen function Multi-Scopes 2.0



● Max. memory depth 250Mpts



● Rich trigger function



● AWG Function Arbitrary Waveform Generator



● Embedded with Web Server

Key Specifications	MSO3352E UPO3352E	MSO3354E UPO3354E	MSO3354E-S	MSO3502E UPO3502E	MSO3504E UPO3504E	MSO3504E-S
Bandwidth	350MHz			500MHz		
Channels	2+ 16digital/2	4+ 16digital/4	4+ 16digital, 2CH AWG	2+ 16digital/2	4+ 16digital/4	4+ 16digital, 2CH AWG
Sample rate (analog)	2.5GS/s (Single channel), 1.25GS/s (all channels)					
Sample rate (digital)	1.25GS/s					
Max. memory depth	250Mpts					
Waveform capture rate	200,000wfms/s; 1,000,000wfms/s(Fast Acquire)					
Time base scale (s/div)	1ns/div-1000s/div (Display current Sample rate and memory depth)					
Input impedance	(± 2%@1MΩ,±1.5%@50Ω) (18 pF± 3 pF)					
Input impedance (digital)	(101 kΩ±1%) (9 pF ± 1 pF)					
Vertical scale (V/div)	1mV/div-10 V/div (1 MΩ);1mV/div-1V/div (50Ω)					
DC gain accuracy	<5mV:±3%,≥5mV:±2%					
Waveform record	120,000 frames					
Trigger types	Edge, Runt, Window, Nth Edge, Delay, Time out, Duration, Setup/Hold, Pulse Width, Slop, Video, Pattern; Optional:RS232/UART, I2C, SPI, CAN, CAN-FD, LIN, FlexRay					
Bus decode	Optional:RS232/UART, I2C, SPI, CA, CAN-FD, LIN, FlexRay					
Mathematical operations	A+B, A-B, A×B, A/B, Enhanced FFT,digital filtering, editable advanced and logical operations					

Key Specifications	MSO3352E UPO3352E	MSO3354E UPO3354E	MSO3354E-S	MSO3502E UPO3502E	MSO3504E UPO3504E	MSO3504E-S
Auto measurements	Analog channel: Max,Min ,High, Low, Ampl, Pk- Pk, Middle, Mean,Cycmean,RMS,CycRMS,AC RMS, Period,Freq,Rise,Fall,RiseDelay,Fall-Delay,+Width,-Width, FRFR, FRFF,FFFR, FFFF, FRLF, FRLR, FFLR, FFLF, +Duty,-Duty,Area,CycArea,Oversht,Presht,Phase,-Pulse, a total of 36 measurement parameters; Digital channel: Freq, period, +Width,-Width, +Duty,-Duty, RiseDelay A → B, FallDelay A → B, phase A → B, phase B → A					
Number of measurements	Display 5 measurements at the same time					
Measurement statistics	Average, Max, Min, standard deviation, number of measurements					
Frequency counter	7-bit hardware frequency meter					
Standard interfaces	USB-host, USB-Device, LAN, EXT Trig, AUX Out(Trig Out\Pass/Fail) output, AWG(only MSO-S model), VGA					

General Characteristics

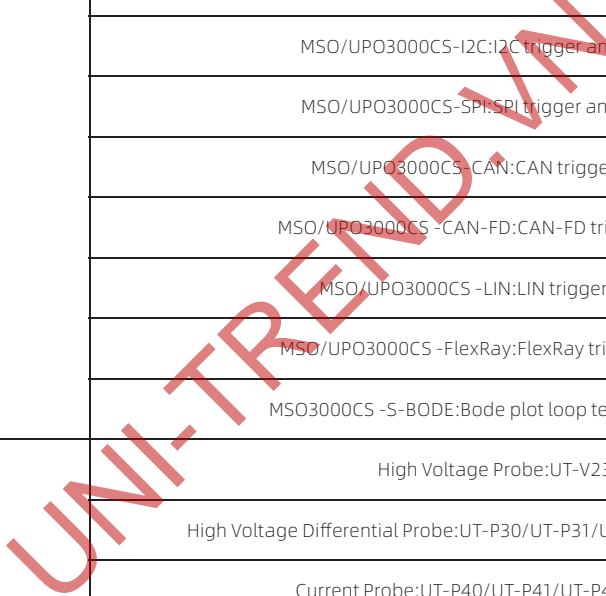
Power	100 V -240 VAC(fluctuate:±10%),50 Hz/60 Hz 100 V -120 VAC(fluctuate:±10%),400 Hz
Display	8 inch TFT LCD, WVGA (800x480),touch screen
Product net weight	4.5kg
Product size (WxHxD)	370mmx185mmx115mm
Standard quantity per carton	1pcs
Standard carton size	475mm x 215mm x 300mm
Standard carton gross weight	5.2kg

Ordering Information

Model MSO3000E Series	MSO3504E-S :500MHz, 2.5GS/s, 250Mpts, 4+16CH MSO,2CH 50MHz AWG
	MSO3504E :500MHz, 2.5GS/s, 250Mpts, 4+16CH MSO
	MSO3502E :500MHz, 2.5GS/s, 250Mpts, 2+16CH MSO
	MSO3354E-S :350MHz, 2.5GS/s, 250Mpts, 4+16CH MSO,2CH 50MHz AWG
	MSO3354E :350MHz, 2.5GS/s, 250Mpts, 4+16CH MSO
	MSO3352E :350MHz, 2.5GS/s, 250Mpts, 2+16CH MSO
Model UPO3000E Series	UPO3504E :500MHz, 2.5GS/s, 250Mpts, 4CH
	UPO3502E :500MHz, 2.5GS/s, 250Mpts, 2CH
	UPO3354E :350MHz, 2.5GS/s, 250Mpts, 4CH
	UPO3352E :350MHz, 2.5GS/s, 250Mpts, 2CH

Ordering Information

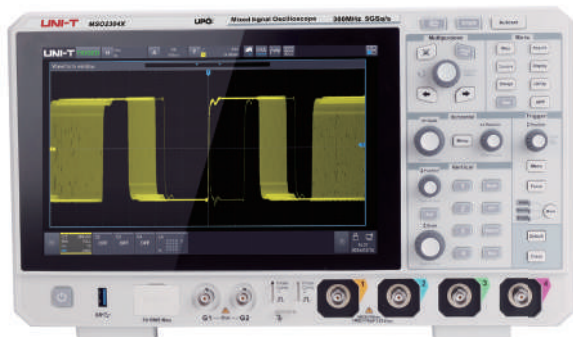
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P07A:Passive probe x 2/4 (1 x, 10 x switchable, 500MHz)(MSO/UPO3502E,MSO/UPO3504E)
	UT-P08A:Passive probe x 2/4 (1 x, 10 x switchable, 350MHz)(MSO/UPO3352E,MSO/UPO3354E)
	UT-M15:16CH logic analyzer probe(MSO3000E series)
	UT-L45: BNC-BNC straight-through cable (only MSO-S)×1
	UT-L02A: BNC-red and black alligator clip cable (only MSO-S) ×1
Options	MSO/UPO3000CS-BND:All Serial Bus Trigger and Decode Options
	MSO/UPO3000CS-EMBD:Serial bus trigger and decode options (includes RS232, UART, I2C, SPI)
	MSO/UPO3000CS-AUTO:Automotive serial bus triggering and decoding options (CAN, CAN-FD, LIN, FlexRay)
	MSO/UPO3000CS-COM:RS232/UART trigger and decode options
	MSO/UPO3000CS-I2C:I2C trigger and decode options
	MSO/UPO3000CS-SPI:SPI trigger and decode options
	MSO/UPO3000CS-CAN:CAN trigger/decode option
	MSO/UPO3000CS-CAN-FD:CAN-FD trigger/decode option
	MSO/UPO3000CS-LIN:LIN trigger/decode option
	MSO/UPO3000CS-FlexRay:FlexRay trigger/decode option
MSO3000CS-S-BODE:Bode plot loop test analysis (software)	
Optional accessories	High Voltage Probe:UT-V23/UT-P21
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44
	16-channel logic analyzer probe:UT-M15
	Isolation transformer:UT-ISOT



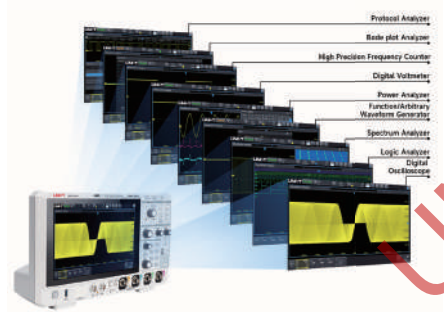
MSO/UPO3000E Series

MSO2000X Series NEW

Digital Oscilloscopes



- 4CH+16MSO
- BW: 100 MHz/200 MHz/300 MHz
- Memory depth 100Mpts/CH
- Waveform capture rate 500,000 wfms/s (sequention mode: 2,000,000 wfms/s)
- 9-in-1: Digital oscilloscope, Logic analyzer, Function/arbitrary waveform generator, Spectrum analyzer, Digital voltmeter, Frequency counter, protocol analyzer, Bode plot analyzer, and Power analyzer
- Parameter measurement statistics add Histogram and Trend chart



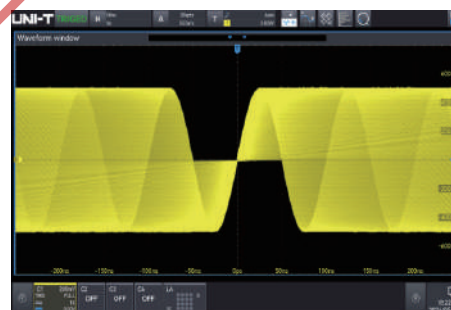
- 9-in-1 Comprehensive Test Platform



- MSO2000X series provides 54 kinds of measurement parameters. The parameter snapshot displays 39 kinds of test items for a single channel measurement

MSO2000X series mixed signal oscilloscope with the maximum bandwidth of 300 MHz, maximum Sample rate of 5 Gsa/s and equipped with 4 analog channels and 16 digital channels, the memory depth up to 100 Mpts. MSO2000X has unique Ultra Phosphor 3.0 technology, the waveform capture rate is up to 2,000,000 wfms/s, innovative digital trigger system with high trigger sensitivity and low jitter. This oscilloscope supports multiple advanced triggers, serial bus trigger and decoding, and supports the advanced sampling and analysis mode of spectrum analyzing, power analysis, histogram, waveform recording, enhanced resolution (ERES), hardware acceleration template testing, Search and Navigate. MSO2000X series adopts 10.1-inch capacitive touch screen that supports multiple gestures for common waveform operations, and combined with multiple one-touch keys on the front panel, this greatly optimizes the efficiency of oscilloscope operation and improves the user experience.

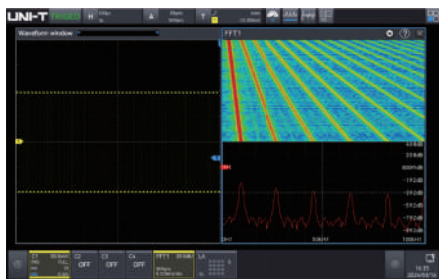
- 125,000 frames of hardware real-time waveform non-stop recording and analysis capabilities
- 4M points enhanced FFT
- 54 waveform parameter measurements
- Multi-Windows display
- Zone trigger function
- Ultra Phosphor 3.0 display technology
- 10.1-inch 1280x800 HD capacitive touch
- Supports SCPI programmable instrument standard commands
- Embedded WebServer



- Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 500,000 wfms/s and 2000,000 wfms/s in sequence mode.



- 9 kinds of trigger protocol and decoding, which including the field of computer, embedded serial bus, automobile, aerospace and audio



● Standard enhanced FFT, up to 4 Mpts, 4 channels signal analysis



● Multiple power analysis functions:
 Power quality
 Harmonic analysis
 Ripple wave analysis
 Loop analysis
 Safety operation area

Key Specifications	MSO2104X	MSO2204X	MSO2304X
Bandwidth	100MHz	200MHz	300MHz
Channels	4	4	4
Sample rate (analog)	5 GSa/s (interweave mode), 2.5 GSa/s (non-interweave mode)		
Sample rate (digital)	1.25GSa/s		
Memory depth	100Mpts per channel		
Max. Waveform capture rate	≥500,000 wfms/s, ≥2,000,000 wfms/s (sequence mode)		
Time base scale	100 MHz (5 ns/div - 1 ks/div) 200 MHz (2 ns/div - 1 ks/div) 300 MHz (1 ns/div - 1 ks/div)		
Input impedance	(1 MΩ±2%) (16 pF±3 pF)		
Input impedance (digital)	(101 kΩ±1%) (9 pF ± 1 pF)		
Vertical scale	500 μV/div - 10 V/div(1 MΩ) 500 μV/div - 1 V/div(50 Ω)		
DC gain accuracy	<5 mV : ±3% full scale, ≥5 mV : ±2% full scale		
Waveform record	125,000 frames		
Serial protocol analysis	Standard:RS-232/422/485/UART, I2C, SPI Option:CAN, CAN-FD, LIN, FlexRay, AUDIO, SENT		
Auto measurements	54 kinds of parameter, simultaneously display 27 kinds of parameter measurement		
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Histogram		
Arbitrary waveform generator (optional)	2 CH, 50 MHz , 250 Msa/s		
Frequency counter	7-bit hardware frequency counter		
Digital voltmeter	4digits,DC/AC RMS/DC+AC RMS		
Advanced analysis function	Power Analysis (Optional), BODE Plot (Optional), Limit Mask Testing		
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), Gen Out, HDMI,10MHz reference clock IN/OUT		

General Characteristics	
Power	100 V-240 VAC(fluctuate:±10%),50 Hz/60 Hz 100 V-120 VAC(fluctuate:±10%),400 Hz
Display	10.1 - inch multi-touch capacitive screen, 1280*800(H*V)
Product net weight	3.83 kg
Product size (W×H×D)	378 mm×218 mm×120 mm
Standard quantity per carton	1pcs

Ordering Information

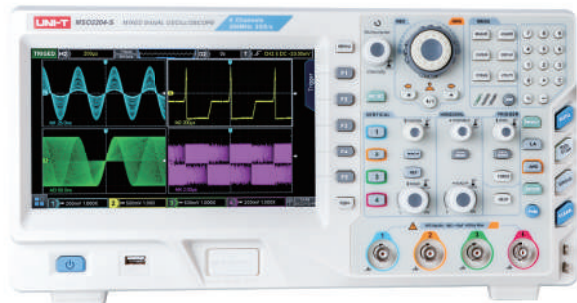
MSO2000X Series	MSO2304X : 300 MHz, 5 GS/s, 100 Mpts, 4 CH digital oscilloscope
	MSO2204X : 200 MHz, 5 GS/s, 100 Mpts, 4 CH digital oscilloscope
	MSO2104X : 100 MHz, 5 GS/s, 100 Mpts, 4 CH digital oscilloscope
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D30: USB3.0 data cable
	UT-P06/UT-P05/UT-P04: Passive probe (300 MHz/200 MHz/100 MHz) x 4
	UT-L45: BNC-BNC straight-through cable x1
	UT-L02: BNC-red and black alligator connecting wire x 1
Options	MSO2000X-BW1MT3M:100MHz Upgrade to 300MHz Bandwidth
	MSO2000X-BW2MT3M:200MHz Upgrade to 300MHz Bandwidth
	MSO2000X-BW1MT2M:100MHz Upgrade to 200MHz Bandwidth
	MSO2000X-AWG:Dual-Channel 50 MHz Arbitrary Waveform Generator Option
	MSO2000X-PWR:Power Analysis Option
	MSO2000X-BND:All Serial Bus Trigger and Decode Options (Including MSO2000X-AUTO bundle and MSO2000X-AUDIO)
	MSO2000X-AUDIO:Audio Serial Bus Trigger and Analysis Option
	MSO2000X-AUTO:Automotive Serial Bus Trigger and Decode Option (Including CAN, CAN-FD, LIN, FlexRay, SENT)
	MSO2000X-CAN:Automotive Serial Bus Trigger and Analysis Option (CAN)
	MSO2000X-CANFD:Automotive Serial Bus Trigger and Analysis Option (CAN-FD)
	MSO2000X-LIN:Automotive Serial Bus Trigger and Analysis Option (LIN)
	MSO2000X-FLEX:Automotive Serial Bus Trigger and Analysis Option (FlexRay)
	MSO2000X-SENT:Automotive Sensor Bus Trigger and Analysis Option (SENT)
Optional accessories	High Voltage Probe:UT-V23/UT-P21/UT-P20
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44, UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B
	16-channel logic analyzer probe:UT-M15
	Isolation transformer: UT-ISOT



MSO2000X Series

MSO/UPO2000 Series

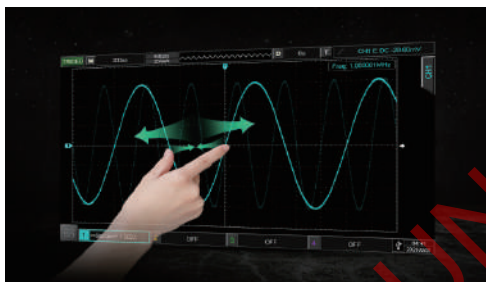
Digital Oscilloscopes



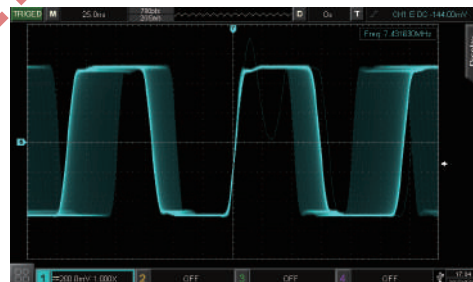
The UPO/MSO2000 series digital phosphor oscilloscope is a multifunctional and high-performance oscilloscope based on UNI-T's original Ultra Phosphor technology. It realizes the combination of ease of use, excellent technical indicators and many functional features. It can help users complete the measurement work faster. It is an oscilloscope designed for general design / debugging / testing needs in many fields, such as communication, semiconductor, computer, instrumentation, industrial electronics, consumer electronics, automotive electronics, on-site maintenance, R & D / education, etc. FastAcq technology can accurately capture abnormal events such as video, jitter, noise and low wave signals.

- Analog channel bandwidth: 200MHz, 100MHz
- Real time Sample rate of analog channel 2GSa/s
- Memory depth of each channel: 56Mpts
- Waveform capture rate up to 1,000,000 wfms/s
- Built in 50MHz dual channel function / arbitrary waveform generator (only MSO-S)
- Support real-time loading of oscilloscope screen data to AWG arbitrary wave output
- Support Bode Plot loop test and analysis function
- Hardware real-time waveform uninterrupted recording and analysis up to 120,000 frames

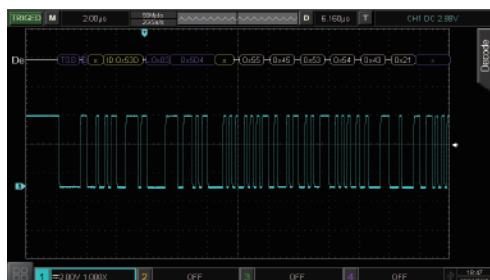
- 4M points enhanced FFT, supporting frequency setting, waterfall diagram, detection setting and mark measurement, etc.
- Auto measurement of 36 waveform parameters
- Multi-Scopes supports multi-channel independent trigger and fluorescent display
- Hardware 7-bit frequency meter
- DVM supports multi-channel independent AC / DC true RMS measurement
- Area trigger function
- Protocol trigger and decoding function. Standard:RS232, I2C, SPI; Optional: CAN, CAN-FD, LIN, FlexRay
- 8-inch 800x480 capacitive touch



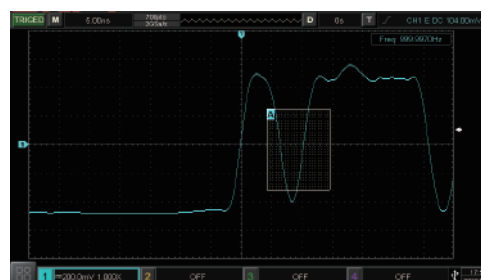
- The 8-inch touch screen design supports a variety of gesture operations, such as click, slide, zoom, edit, drag, etc.



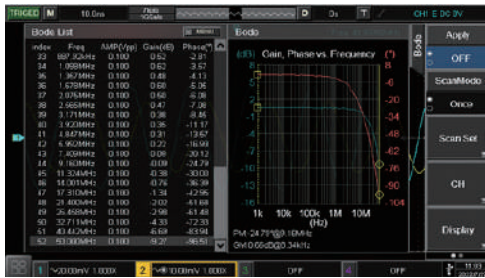
- Using innovative digital signal parallel processing technology, it can reach an ultra-high capture rate of 200,000wfms/s in normal sampling and 1,000,000 wfms/s in FastAcq mode.



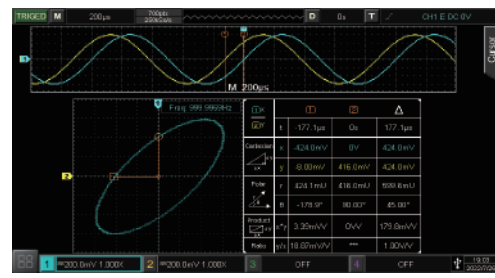
- The full-memory hardware decoding under the deep storage of 56Mpts, Decoding speed in milliseconds



- The area trigger can be used in combination with the existing basic trigger, advanced trigger and protocol trigger to complete the capture of various occasional and complex characteristic signals.



● Provides a Bode plot for loop analysis



● XY mode cursor measurement can quickly measure the phase difference between two signals.

Key Specifications	MSO2102-S MSO2102	MSO2104-S MSO2104	MSO2202-S MSO2202	MSO2204-S MSO2204
	UPO2102	UPO2104	UPO2202	UPO2204
Bandwidth	100MHz		200MHz	
Channels	2+16 digital/2	4+16 digital/4	2+16 digital/2	4+ 16digital/4
Sample rate (analog)	2GSa/s			
Sample rate (digital)	1GSa/s (only MSO)			
Max. memory depth	56Mpts per CH			
Waveform capture rate	200,000wfms/s,1,000,000wfms/s(Fast Acquire)			
Time base scale (s/div)	2ns/div-1000s/div (Display Sample rate and memory depth)		1ns/div-1000s/div (Display Sample rate and memory depth)	
Input impedance	(1M Ω \pm 2%) (16pF \pm 3pF)			
Input impedance (digital)	(101k Ω \pm 1%) (9pF \pm 1pF)			
Vertical scale (V/div)	500uV/div-20 V/div (1 M Ω)			
DC gain accuracy	<5mV: \pm 3%, \geq 5mV: \pm 2%			
Waveform record	120,000 frames			
Trigger types	Edge, runt, Window, Nth Edge, Delay, Time out, Duration, Setup/Hold, Pulse Width, Slop, Video, Pattern; Optional:RS232/UART, I2C, SPI, CAN, CAN-FD, LIN, FlexRay			
Bus decode	Optional:RS232/UART, I2C, SPI, CA, CAN-FD, LIN, FlexRay			
Mathematical operations	A+B, A-B, AxB, A/B, Enhanced FFT,digital filtering, editable advanced and logical operations			
Auto measurements	Analog channel: Max,Min ,High, Low, Ampl, Pk- Pk, Middle, Mean,Cycmean,RMS,CycRMS,AC RMS, Period,Freq,Rise,Fall,RiseDe- lay,FallDelay,+Width,-Width, FRFR, FRFF,FFFF, FFFF, FRLF, FRLR, FFLR, FFLF, +Duty,-Duty,Area,CycArea,Over- sht,Presht,Phase,Pulse, a total of 36 measurement parameters; Digital channel: Freq, period, +Width,-Width, +Duty,-Duty, RiseDelay A \rightarrow B, FallDelay A \rightarrow B, phase A \rightarrow B, phase B \rightarrow A			
Number of measurements	Display 5 measurements at the same time			
Measurement statistics	Average, Max, Min, standard deviation, number of measurements			
Frequency counter	7-bit hardware frequency meter			
Standard interfaces	USB-host, USB-Device, LAN, EXT Trig, AUX Out(Trig Out\Pass/Fail) output, AWG (only MSO-S model), VGA			

General Characteristics	
Power	100 V -240 VAC(fluctuate:±10%),50 Hz/60 Hz 100 V -120 VAC(fluctuate:±10%),400 Hz
Display	8 inch TFT LCD, WVGA (800x480),touch screen
Product net weight	4.5kg
Product size (W×H×D)	370mm x 185mm x 115mm
Standard quantity per carton	1pcs
Standard carton size	470mm x 215mm x 300mm
Standard carton gross weight	5.2kg

Ordering Information	
MSO2000 Series	MSO2204-S :200MHz, 2GSa/s, 56Mpts, 4+16CH MSO,2CH 50MHz AWG
	MSO2204 :200MHz, 2GSa/s, 56Mpts, 4+16CH MSO
	MSO2202-S :200MHz, 2GSa/s, 56Mpts, 2+16CH MSO,2CH 50MHz AWG
	MSO2202 :200MHz, 2GSa/s, 56Mpts, 2+16CH MSO
	MSO2104-S :100MHz, 2GSa/s, 56Mpts, 4+16CH MSO,2CH 50MHz AWG
	MSO2104 :100MHz, 2GSa/s, 56Mpts, 4+16CH MSO
	MSO2102-S :100MHz, 2GSa/s, 56Mpts, 2+16CH MSO,2CH 50MHz AWG
	MSO2102 :100MHz, 2GSa/s, 56Mpts, 2+16CH MSO
UPO2000 Series	UPO2204 :200MHz, 2GS/s, 56Mpts, 4CH
	UPO2202 :200MHz, 2GS/s, 56Mpts, 2CH
	UPO2104 :100MHz, 2GS/s, 56Mpts, 4CH
	UPO2102 :100MHz, 2GS/s, 56Mpts, 2CH
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P05:Passive probe x 2/4 (1 x, 10 x switchable, 200MHz)(MSO/UPO2202,MSO/UPO2204,MSO2202/4-S)
	UT-P04:Passive probe x 2/4 (1 x, 10 x switchable, 100MHz)(MSO/UPO2102,MSO/UPO2104,MSO2102/4-S)
	UT-M15:16CH logic analyzer probe(MSO2000 series)
	UT-L45: BNC-BNC straight-through cable (only MSO-S)
	UT-L02A: BNC-red and black alligator clip cable (only MSO-S)

Ordering Information

Options	MSO/UPO2000-BND:Serial bus trigger and decode options (MSO/UPO2000-EMBD& MSO/UPO2000-AUTO)
	MSO/UPO2000-EMBD:Serial bus trigger and decode options (includes RS232, UART, I2C, SPI)
	MSO/UPO2000-AUTO:Automotive serial bus triggering and decoding options (CAN, CAN-FD, LIN, FlexRay)
	MSO/UPO2000 -COM:RS232/UART trigger and decode options
	MSO/UPO2000 -I2C:I2C trigger and decode options
	MSO/UPO2000 -SPI:SPI trigger and decode options
	MSO/UPO2000-CAN:CAN trigger/decode option
	MSO/UPO2000-CAN-FD:CAN-FD trigger/decode option
	MSO/UPO2000-LIN:LIN trigger/decode option
	MSO/UPO2000-FlexRay:FlexRay trigger/decode option
	UPO2000-LA16:16-channel upgrade option (software),for UPO2000 models only
	MSO2000-S-BODE:Bode plot loop test analysis (software)
	Optional accessories
High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36	
Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44	
16-channel logic analyzer probe:UT-M15	
Isolation transformer:UT-ISOT	

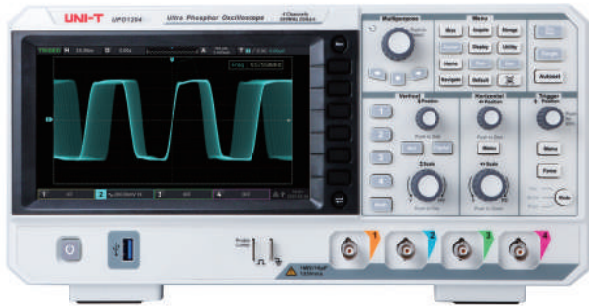
UNI-TRENDING



MSO/UPO2000 Series

UPO1000 Series

Digital Oscilloscopes



- Analog channel bandwidth: 200MHz, 100MHz, 50MHz
- Number of analog channels: 4
- Maximum Sample rate: 2GSa/s
- Vertical scale: 500 μ V/div-20 V/div
- Low noise floor: <100 μ Vrms
- Memory depth 56Mpts/CH
- Waveform capture rate up to 500,000 wfms/s
- Hardware real-time waveform recording 120,000 frames
- Can automatically measure 36 kinds of waveform parameters, the measurement range is optional: screen or cursor area

UPO1000 series digital oscilloscope adopts UNI-T's newly created digital 3D technology Fast Acquire Phosphor™. This series is equipped with three levels of bandwidth of 50MHz/100MHz/200MHz, and the real-time Sample rate is as high as 2GSa/s. The whole series is equipped with 4 channels as standard; supports independent DVM module; has rich trigger and bus decoding functions, and supports full-memory hardware real-time decoding. It can be widely used in communication, semiconductor, computer, integrated circuit design, instrumentation, industrial electronics, consumer electronics, automotive electronics, field maintenance, research and development/education and many other fields.

- 7-bit hardware frequency meter
- DVM supports four-channel true RMS measurement
- 1M points enhanced FFT function
- RS232, I2C, SPI full memory hardware real-time decoding
- Supports waveform navigation, markers, segments
- Support SCPI programmable instrument standard commands
- Support WEB access and control



- The maximum memory depth is 56Mpts. At the same time, the whole and details of the waveform are considered



- Innovative hardware decoding enables real-time decoding



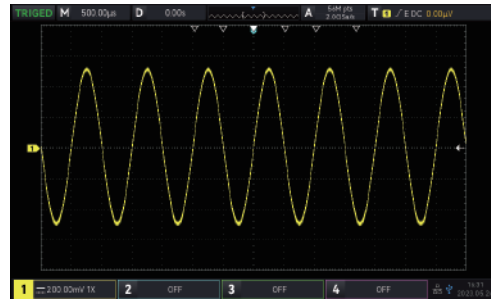
- 1M sampling point enhanced FFT



- The cursor function can measure the time and voltage of CH1, CH2, CH3, CH4, MATH, REF at the same time. MATH, REF at the same time.



● When "Cursor" is turned on, the parameters of the waveform in the cursor area can be measured



● When "Cursor" is turned on, the parameters of the waveform in the cursor area can be measured

Key Specifications	UPO1054	UPO1104	UPO1204
Bandwidth	50 MHz	100 MHz	100 MHz
Channels	4		
Sample rate	2GSa/s		
Max. memory depth	56 Mpts(Per channel)		
Waveform capture rate	150,000wfms/s;500,000 wfms/s(Fast Acquire mode)		
Time base scale (s/div)	2ns/div - 1000s/div	2ns/div - 1000s/div	1 ns/div - 1000s/div
Input impedance	(1MΩ± 2%) (16 pF± 3pF)		
Vertical scale (V/div)	500 μV/div - 20V/div (1MΩ)		
DC gain accuracy	<10mV: ±4.0% full scale; ≥10mV: ±3.0% full scale;		
Waveform record	120,000 frames		
Trigger types	Edge, Runt Set, Window Set, Nth Edge, Delay, Timeout,Pattern, Duration, Build / hold, Pulse, Slope, Video, RS232 / UART, I2C, SPI		
Bus decode	RS232/UART, I2C,SPI		
Mathematical operations	A+B, A-B, A×B, A/B, Enhanced FFT, Editable advanced, operations(Log,Exp,Sin,Cos,Tan,Sqrt,Intg,Diff), Logical operations		
Auto measurements	Max,Min,High, Low, ampl, Pk- Pk, Middle, Mean,Cycmean ,RMS,CycRMS,AC RMS, Period,Freq,Rise,Fall,RiseDe- lay,FallDelay,+Width,-Width, FRFR, FRFF,FFFR, FFFF, FRLF, FRLR, FFLR, FFLF,+Duty,-Duty,Area,CycArea,Over- sht,Presht,Phase,Pulse, a total of 36 measurement parameters		
Number of measurements	5 measurements are displayed simultaneously		
FFT points	1Mpts		
Frequency counter	7-bit hardware frequency meter		
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out(Trig Out/,Pass/Fail)		

General Characteristics	
Power	100 V -240 VAC(fluctuate:±10%),50 Hz/60 Hz 100 V -120 VAC(fluctuate:±10%),400 Hz
Display	7 inch TFT LCD, WVGA(800×480)
Product net weight	2.45 kg
Product size (W×H×D)	306mm×138mm×107mm
Standard quantity per carton	1pcs
Standard carton size	470mm×215mm×300mm
Standard carton gross weight	4 kg

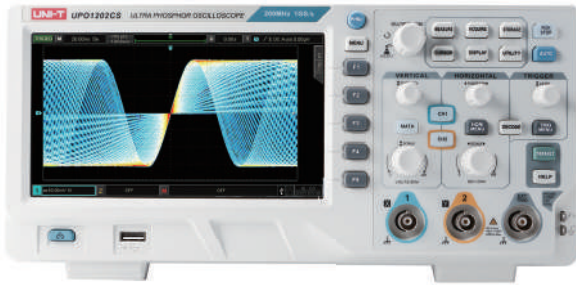
Ordering Information	
UPO1000 Series	UPO1054 (50MHz, 2GS/s, 56Mpts, 4-Channel)
	UPO1104 (100MHz, 2GS/s, 56Mpts, 4-Channel)
	UPO1204 (200MHz, 2GS/s, 56Mpts, 4-Channel)
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P03:Passive probe x 4(1 x, 10 x switchable, 60MHz)(UPO1054)
	UT-P04:Passive probe x 4(1 x, 10 x switchable, 100MHz)(UPO1104)
	UT-P05:Passive probe x 4(1 x, 10 x switchable, 200MHz)(UPO1204)
Options	MSO/UPO1000X-1MT2M:Bandwidth upgrade option for MSO/UPO1104 to 200 MHz bandwidth
Optional accessories	High Voltage Probe:UT-V23/UT-P21
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44



UPO1000 Series

UPO1000CS Series

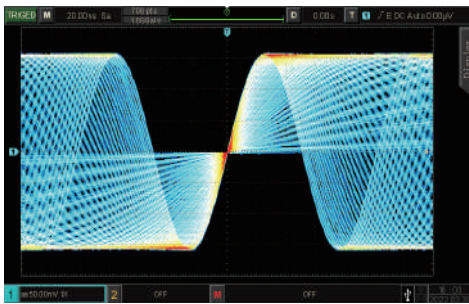
Digital Oscilloscopes



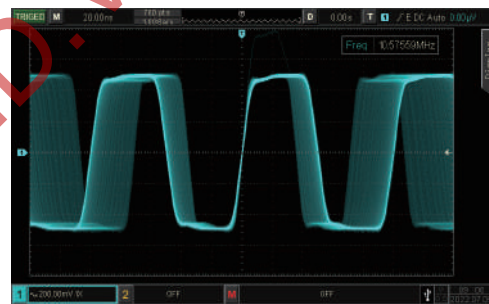
The UPO1000CS Series offers unprecedented value in customer applications with its innovative technology, industry leading specifications, powerful trigger functions and analysis capabilities. The Series is available in 100 and 200 MHz bandwidths and 2 analog channels. It adopts UNI-T UPO visualization technology, has a maximum sample rate of 1 GSa/s and a standard memory depth of 56 Mpts. It comes with an innovative digital trigger system with high sensitivity and low jitter, and a waveform capture rate of 150,000 wfms/s.

- 1GSa/s real-time Sample rate per channel, 2 analog channels
- Bandwidth: 100MHz, 200MHz
- Memory depth 56Mpts (per channel)
- Up to 150,000wfms/s waveform capture rate
- 256-level intensity grading display
- Alternative trigger

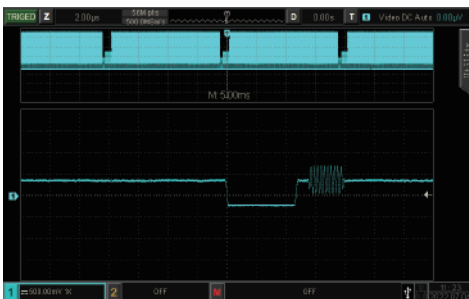
- Low noise floor, minimum vertical gear 1mV / div
- A variety of trigger modes, and a variety of serial bus trigger and real-time decoding
- 100,000 frames waveform record
- 7 inch TFT LCD, WVGA (800x480)
- Interfaces: USB Host, USB device, LAN, EXT Trig, AUX



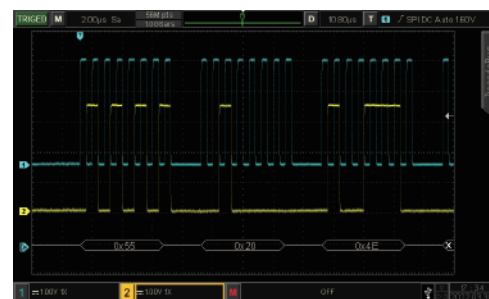
- Using the original Ultra Phosphor display technology, it is easy to display the details of the waveform information



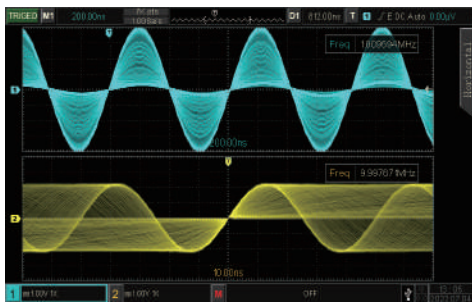
- Innovative digital signal parallel processing technology, normal sampling waveform capture up to 150,000 wfms/s, FastAcq mode up to 500,000 wfms/s



- Standard 56Mpts per channel. Take into account the overall and details of the waveform



- Innovative hardware decoding enables real-time decoding. The decoding time under the deep storage 56Mpts can reach the millisecond level



- Multi-Scopes technology, which can be used for testing signals with different clock sources and different frequencies



- 1Mpts enhanced FFT for easy frequency domain analysis of signals

Key Specifications	UPO1102CS	UPO1202CS
Bandwidth	100 MHz	200 MHz
Channels	2	
Sample rate	1GS/s (Per channel)	
Max. memory depth	56Mpts (Per channel)	
Waveform capture rate	150,000wfms/s;500,000 wfms/s(Fast Acquire mode)	
Time base scale (s/div)	2ns/div - 1000s/div	1ns/div - 1000s/div
Input impedance	(1MΩ± 2%) (16 pF± 3pF)	
Vertical scale (V/div)	1mV/div - 20V/div (1MΩ)	
DC gain accuracy	<10mV: ±4.0% full scale; ≥10mV: ±3.0% full scale;	
Waveform record	100,000 frames	
Trigger types	Edge, Runt Set, Window Set, Nth Edge, Delay, Timeout, Pattern, Duration, Build / hold, Pulse, Slope, Video, RS232 / UART, I2C, SPI, Optional: CAN, LIN	
Bus decode	RS232/UART, I2C,SPI, Optional: CAN, LIN	
Mathematical operations	A+B, A-B, A×B, A/B, Enhanced FFT, Editable advanced, operations(Log,Exp,Sin,Cos,Tan,Sqrt,Intg,Diff), Logical operations	
Auto measurements	Max,Min ,High, Low, ampl, Pk- Pk, Middle, Mean,Cycmean,RMS,CycRMS,AC RMS, Period,Freq,Rise,Fall,RiseDelay,FallDelay,+Width,-Width, FRFR, FRFF,FFFR, FFFF, FRLF, FRLR, FFLR, FFLF, +Duty,- Duty,Area,CycArea,Oversht,Presht,Phase,Pulse, a total of 36 measurement parameters	
Number of measurements	5 measurements are displayed simultaneously	
Measurement statistic	Mean, maximum, minimum, standard deviation and number of measurements	
Frequency counter	7-bit hardware frequency meter	
Standard interfaces	USB Host, USB Device,LAN, EXT Trig, AUX Out(Trig Out/, Pass/Fail)	

General Characteristics

Power	100V-240V AC, 50Hz/60Hz
Display	7 inch TFT LCD, WVGA(800×480)
Product net weight	3.0 kg
Product size (W×H×D)	306mm×138mm×107mm
Standard quantity per carton	1pcs
Standard carton size	410mm×225mm×270mm
Standard carton gross weight	4 kg

Ordering Information

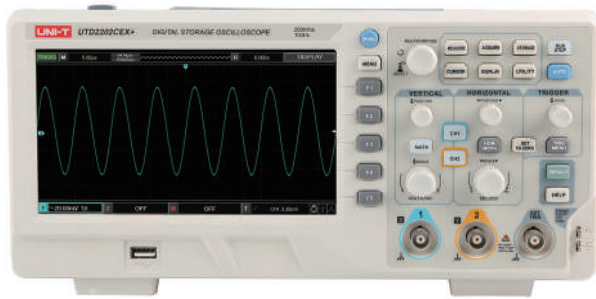
UPO1000CS Series	UPO1102CS (100MHz, 1GS/s, 56Mpts, 2-Channel)
	UPO1202CS (200MHz, 1GS/s, 56Mpts, 2-Channel)
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P04:Passive probe x 2(1 x, 10 x switchable, 100MHz)(UPO1102CS)
	UT-P05:Passive probe x 2(1 x, 10 x switchable, 200MHz)(UPO1202CS)
Options	UPO1000CS-AUTO: CAN Decoding options, LIN Decoding options
Optional accessories	High Voltage Probe:UT-V23/UT-P21
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44



UPO1000CS Series

UTD2000CEX+ Series

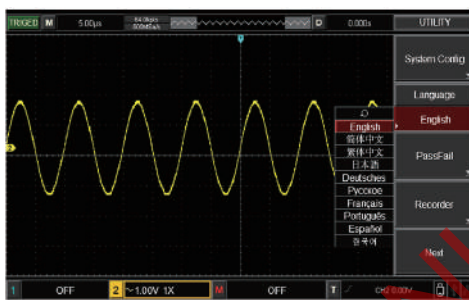
Digital Oscilloscopes



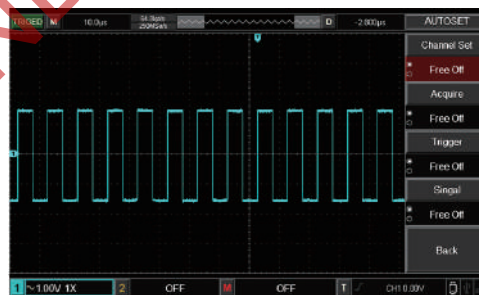
The UTD2000CEX+ Series digital storage oscilloscope serves as an entry-level bench solution, addressing the fundamental requirements of basic measurements. Its straightforward and intuitive front panel is designed for easy operation. The UTD2000CEX+ Series offers bandwidth options of 50MHz, 100MHz, and 200MHz, a real-time Sample rate of 1GSa/s, dual channels, and a memory depth of 64kpts. With its versatile capabilities, this model is well-suited for a broad range of application scenarios in communication, semiconductor, computer, instrumentation, industrial electronics, consumer electronics, automotive electronics, on-site maintenance, and R&D/education, among others.

- 50/100/200MHz bandwidth
- 2 channels, low noise floor, wide vertical range:1mV/div-20V/div
- Memory depth: 64kpts
- System software upgrade via USB drive

- 7 inch TFT LCD
- Supports plug-and-play USB storage device; communication with and remote control of computer through the USB device



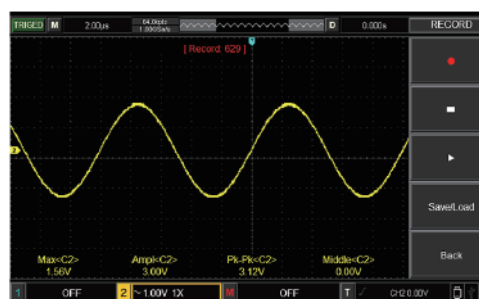
- Multilingualism to meet the needs of more users in countries



- 8divx16div Wider display range



- Automatic Measurement of Waveform Parameter



- Waveform recording functions

Key Specifications	UTD2052CEX	UTD2102CEX+	UTD2202CEX+
Bandwidth	50MHz	100MHz	200MHz
Channels	2		
Sample rate	1GS/s		
Memory depth	64kpts		
Waveform capture rate	5,000wfms/s		
Rise time	<7ns	< 3.5ns	< 1.8ns
Vertical scale (V/div)	1mV/div-20V/div		
Vertical resolution	8bit		
Time base scale (s/div)	2ns/div-50s/div		
Deviation from scope	±8div(away from screen center)		
Input impedance	1MΩ±2% ,18±3pF		
Input coupling	DC, AC, GND		
Timing accuracy	≤± (50+2 × service life)ppm		
Time base mode	Y-T,X-Y,ROLL		
Storage methods	Setup, wave, bitmap		
Trigger types	Edge, pulse, alternate,slope, video		
Mathematical operations	+, -, ×, ÷, 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		
Displayed measurements	Display 5 measurements at the same time		
Frequency counter	6 bits		
Interface	USB Host,USB Device,Pass/Fail		

General Characteristics	
Power	100-240VAC, 45-440Hz
Display	7 inch TFT LCD, 800×480
Product color	White and grey
Product net weight	2.5kg
Product size (W×H×D)	306mm×138mm×124mm
Standard quantity per carton	2pcs
Standard carton size	450mm x 420mm x 280mm
Standard carton gross weight	7.5kg

Ordering Information

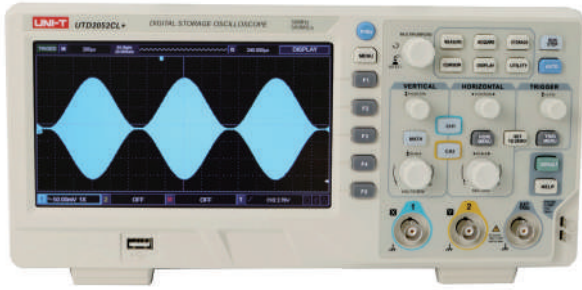
UTD2000CEX+	UTD2202CEX+:200MHz,1GS/s,64kpts,2-Channel
	UTD2102CEX+:100MHz,1GS/s,64kpts,2-Channel
	UTD2052CEX+:50MHz,1GS/s,64kpts,2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P03:Passive Probe x 2 (1 x , 10 x switchable,60MHz)
	UT-P04:Passive Probe x 2 (1 x , 10 x switchable,100MHz)
	UT-P05:Passive Probe x 2 (1 x , 10 x switchable,200MHz)



UTD2000CEX+ Series

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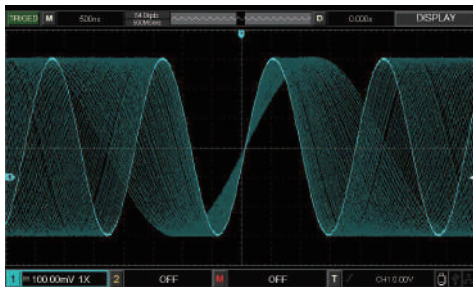
UTD2000CL/CL+ Series Digital Oscilloscopes



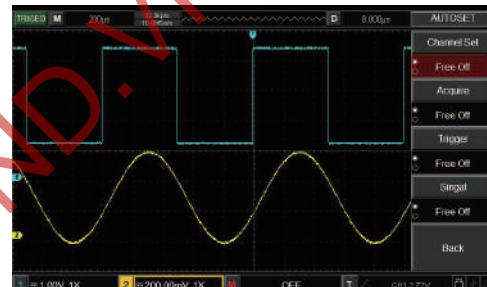
The UTD2000CL/CL+ Series stands out as a popular choice for entry-level digital oscilloscopes, designed to fulfill mainstream testing needs. With a classic front panel design and a clear user interface, this model is well-suited for your daily testing tasks.

- 50MHz/70MHz/100MHz/150MHz bandwidth
- 2 channels, low noise floor, wide vertical range:1mV/div-20V/div
- Memory depth: 64kpts/daily testing tasks.

- System software upgrade via USB drive
- 7 inch TFT LCD
- Supports plug-and-play USB storage device, communication with and remote control of computer through the USB device



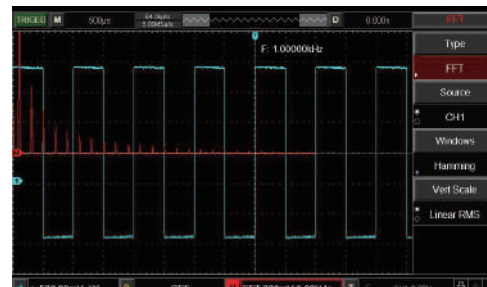
- Wider display range 8divx16div



- New autoselect function, easy to handle complex test scenarios



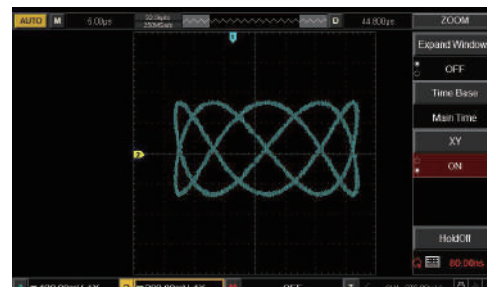
- Multiple frequency output standard square wave optional



- Abundant math functions: math operation, FFT, digital filtering



- Automatic measurement of waveform parameters



- Lissajous figure phase measurement

Key Specifications	UTD2052CL+	UTD2102CL+	UTD2072CL	UTD2152CL
Channels	2			
Bandwidth	50MHz	100MHz	70MHz	150MHz
Sample rate	500MS/S			
Memory depth	64kpts			
Waveform capture rate	5,000wfms/s			
Rise time	<7ns	<3.5ns	< 5ns	<2.4ns
Vertical scale (V/div)	1mV/div-20V/div			
Time base scale (s/div)	2ns/div-50s/div		2ns/div-50s/div	
Timing accuracy	$\leq \pm (50+2 \times \text{service life}) \text{ ppm}$			
Time base modes	Y-T, X-Y, Roll			
Storage methods	Setup, wave, bitmap			
Trigger types	Edge, pulse, alternate, slope, video			
Mathematical operations	A+B, A-B, AxB, 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, +Duty, -Duty,FRR, FRF, FFR, FFE, LRF, LRR, LFR, LFF, Area, CycArea, OverSht, PreSht, Phase, 34 parameters in total			
Number of measurements	Display 5 measurements at the same time			
Frequency counter	6 bits			
Standard interfaces	USB Host,USB Device,Pass/Fail			

General Characteristics

Power	100-240V AC, 45-440Hz
Display	7 inches TFT LCD, 800x480
Product color	White and grey
Product net weight	2.5kg
Product size (WxHxD)	336mmx164mmx108mm
Standard quantity per carton	2pcs
Standard carton size	450mm x 420mm x 280mm
Standard carton gross weight	6.7kg

Ordering Information

UTD2000CL Series	UTD2152CL:150MHz, 500MS/s, 64kpts, 2-Channel
	UTD2072CL:70MHz, 500MS/s, 64kpts, 2-Channel
	UTD2102CL+:100MHz, 500MS/s, 64Kpts, 2-Channel
	UTD2052CL+:50MHz, 500MS/s, 64Kpts, 2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P05:Passive probe x 2 (1 x, 10 x switchable, 200MHz)UTD2152CL
	UT-P04:Passive probe x 2 (1 x, 10 x switchable, 100MHz)UTD2072CL,UTD2102CL+
	UT-P03:Passive probe x 2 (1 x, 10 x switchable, 60MHz)UTD2052CL+
	User Manual and Software Download Guide



UTD2000CL/CL+ Series

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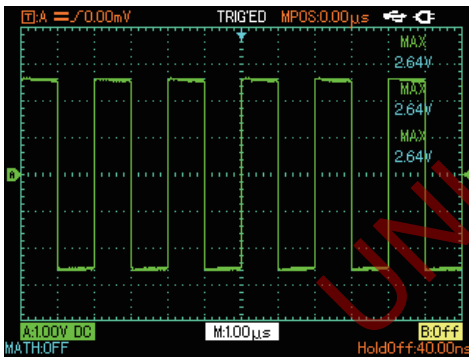
UTD1000C Series

Handheld Digital Storage Oscilloscopes



The UTD1000C Series handheld oscilloscope with user-friendly interface is designed to meet your test needs. Its powerful trigger and analytical functions also make it easy to acquire and analyses waveforms, You may either choose to use the external AC power supply or the built-in lithium battery as power source accordingly to your test needs. Classic design with clear user interface aligned with the bench models ensures a hassle-free user experience that will help to complete your daily testing tasks quick and easy.

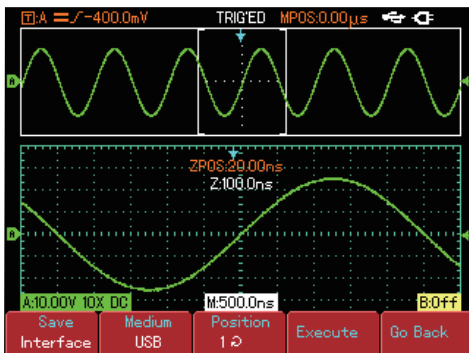
- 250MSa/s, 500MSa/s, 1GSa/s real-time Sample rate; 2 analog channels
- Bandwidth: 60MHz/100MHz/200MHz
- Multimeter function, 5999 display count
- Fine window extension; precise analysis of waveform details and overview
- Automatic measurement of 27 waveform parameters
- Unique waveform recording, storage and replay function
- Multilingual menu displays
- HD color 5.7 inch LCD panel at 320 x 240 pixel aspect ratio



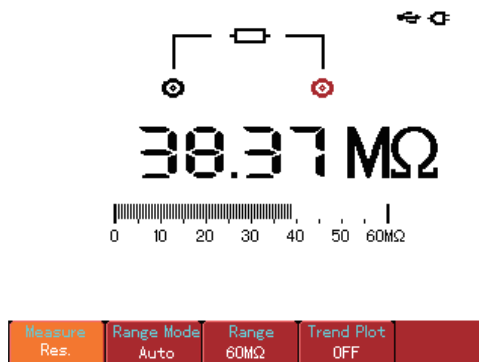
● Fast automatic measurement



● Recorded waveform replay



● Display under window zoom



● 5999 display count multimeter function

Key Specifications	UTD1062C	UTD1102C	UTD1202C
Bandwidth	60MHz	100MHz	200MHz
Channels	2		
Sample rate	250MSa/s	500MSa/s	1GSa/s
Rise time	≤5.8ns	≤3.5ns	≤1.8ns
Memory depth	7.5kpts		
Vertical scale (V/div)	5mV/div-50V/div		
Time base scale (s/div)	5ns/div-50s/div	5ns/div-50s/div	2ns/div-50s/div
Storage modes	Setup, waveform, bitmap		
Trigger types	Edge, pulse width, video and alternative		
Standard interfaces	USB Host		
Multimeter Specifications	Range		Accuracy
DC voltage (V)	600mV/6V/60V/600V/1000V		±(1%+5)
AC voltage (V) (45Hz-400Hz)	600mV/6V/60V/600V/700V/6V/60V/600V/700V		±(1.2%+5), Frequency: <200Hz
			±(1.5%+5), Frequency: ≥200Hz
DC current (A)	6mA/60mA/600mA		±(1.2%+5)
	6A		±(1.5%+5)
AC current (A) (45Hz-400Hz)	6mA/60mA/600mA		±(2%+5)
	6A		±(2.5%+5)
Resistance (Ω)	6kΩ/60kΩ/600kΩ		±(1.2%+5)
	600Ω/6MΩ/60MΩ		±(1.5%+5)
Capacitance (F)	6nF/6mF		±(5%+10)
	60nF/600nF/6μF/60μF/600μF/600nF/6μF/60μF/600μF		±(4%+5)
Display count	5999		
Auto range	Auto/manual (Only manual mode is available for current measurement)		

General Characteristics

Power	Li-ion battery: 7.4V 4400mAh; DC adapter: 100-240V 50/60Hz input, 9V/4A output
Display	5.7 inch TFT LCD, QVGA (320x240)
Product color	Red and grey
Product net weight	1.8kg
Product size (W×H×D)	268mm x 168 mm x 60mm
Standard quantity per carton	4pcs
Standard carton size	500mm x 400mm x 320mm
Standard carton gross weight	16.7kg

Ordering Information

UTD1000C Series	UTD1202C: 200MHz, 7.5Kpts, 1GSa/s, 2-Channel
	UTD1102C: 100MHz, 7.5Kpts, 500MSa/s, 2-Channel
	UTD1062C: 60MHz, 7.5Kpts, 250MSa/s, 2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-H04: Passive Probe x 2 (1 x, 10 x switchable, 100MHz)
	UT-H05: Passive Probe x 2 (1 x, 10 x switchable, 200MHz)
	UT-M03: 1 Voltage/current converter: 4mA-600mA
	UT-M04: 1 Voltage/current converter: 4A/6A
	DC adapter: 1pc
	1 Multimeter probes Test lead

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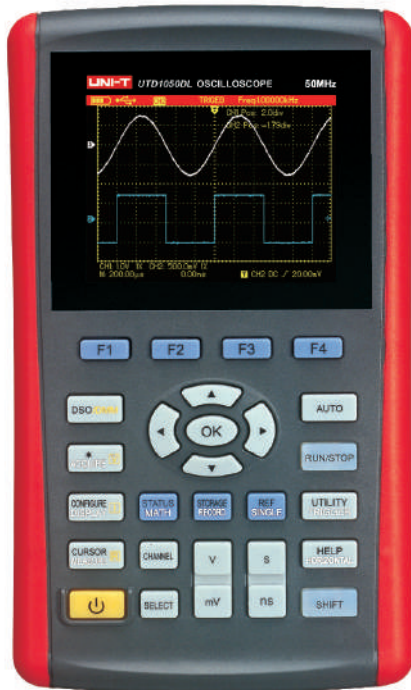
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UTD1000C Series

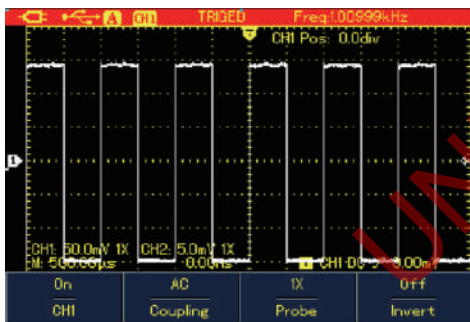
UTD1000L Series

Handheld Digital Storage Oscilloscopes

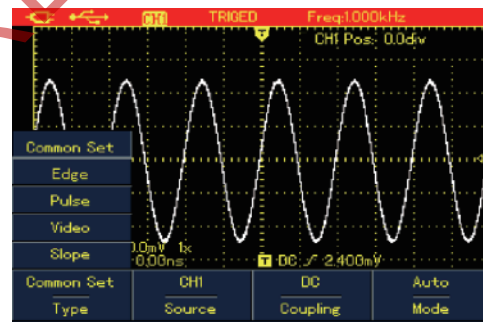


The UTD1000L Series Handheld Digital Storage Oscilloscope with 2-in-1 design serves not only as a digital scope but a multimeter as well. The outstanding features of this model provides you extensive functions that you may need to complete various test and measurement tasks.

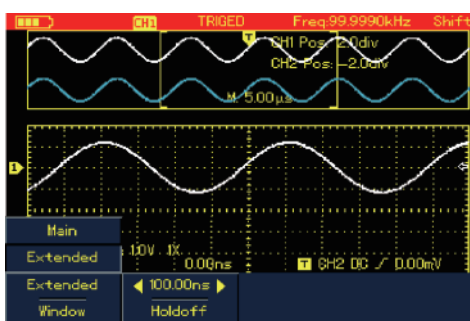
- 250MSa/s, 200MSa/s real-time Sample rate; 1/2 analog channels
- Bandwidth: 25MHz, 50MHz
- Combine oscilloscope multimeter and recorder functions in one, 3999 display count
- 8 hours of continuous battery operation for UTD1000CL and 6 hours for UTD1000DL
- 22 types of auto measurements
- Unique waveform record, storage and replay functions
- High-resolution and high-contrast color LCD
- Simple printscreen function



● Full autotest



● Typical and practical trigger function



● Display under window zoom



● 3999 display count multimeter function

Key Specifications	UTD1025CL	UTD1050CL	UTD1025DL	UTD1050DL
BanAC voltage (V)	25MHz	50MHz	25MHz	50MHz
Channels	1		2	
Sample rate	200MS/s		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			
Standard interface	Mini USB			
Multimeter Specifications	Range			Accuracy
DC voltage (V)	400mV/ 4V/ 40V/ 400V			±(1%+5)
AC voltage (V)	400mV/ 4V/ 40V/ 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)	51.2nF/512nF/5.12μF/51.2μF/100μF			±(3%+5)
Display count	3999			

General Characteristics

Power	Li-ion battery: 7.4V 3600mAh; DC adapter: 100V-240V, 50/60Hz input, 9V/4A output		
Display	3.5 inch TFT LCD, 320x240		
Product color	Red and grey		
Product net weight	0.9kg		
Product size (WxHxD)	199mm x 118 mm x 49mm		
Standard quantity per carton	2pcs		
Standard carton size	305mm x 190mm x 330mm		
Standard carton gross weight	3.3kg	4.6kg	

Ordering Information	
UTD1000DL	UTD1050DL:50MHz, 12Kpts, 250MS/s, 2-Channel
	UTD1025DL:25MHz, 12Kpts, 250MS/s, 2-Channel
UTD1000CL	UTD1050CL:50MHz, 12Kpts, 200MS/s, 1-Channel
	UTD1025CL:25MHz, 12Kpts, 200MS/s, 1-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-H03:Passive probe x 2 (1 x, 10 x switchable, 60MHz)(1000DL)
	UT-H03:Passive probe x 1 (1 x, 10 x switchable, 60MHz)(1000CL)
	UT-M04:1 Voltage/current converter: 4A/6A (1000DL)
	UT-D17:USB Host to Mini USB data cable
	Power adapter:1pc
	Multimeter test leads:1pair (one red, one black)
	Portable bag











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UTD1000L Series

Accessories

Model	Picture	Information	Certification	Series	
UT-H01		Probe factor:(10:1) Bandwidth: 25MHz.voltage:600Vpp	CE&UKCA	UTD1000L	
UT-H03		Probe factor:(10:1) Bandwidth: 60MHz.voltage:600Vpp		UTD1000C;UTD1000L	
UT-H04		Probe factor:(10:1) Bandwidth: 100MHz.voltage:600Vpp		UTD1000C	
UT-H05		Probe factor:(10:1) Bandwidth: 200MHz.voltage:600Vpp		UTD1000C	
UT-P01		Probe factor:(10:1) Bandwidth: 25MHz.voltage:600Vpp		UTD2000CL/CL+	
UT-P03	Probe factor:(10:1) Bandwidth: 60MHz.voltage:600Vpp	UTD2000CEX+; UTD2000CL/CL+			
UT-P04		Probe factor:(10:1) Bandwidth: 100MHz.voltage:600Vpp		MSO2000X;MSO/UPO2000; UPO2000E;UPO1000CS; UPO1000;UTD2000CEX+; UTD2000CL/CL+	
UT-P05		Probe factor:(10:1) Bandwidth: 200MHz.voltage:600Vpp		MSO3000HD;MSO/UPO3000E; MSO3000X;MSO2000X; MSO/UPO2000;UPO2000E; UPO1000CS;UPO1000; UTD2000CEX+;UTD2000CL/CL+;	
UT-P06		Probe factor:(10:1) Bandwidth: 300MHz.voltage:600Vpp		MSO3000HD;MSO7000X; MSO/UPO3000E; MSO3000X;MSO2000X;	
UT-P07A		Probe factor:(10:1) Bandwidth: 500MHz.voltage:600Vpp		MSO3000HD;MSO7000X; MSO/UPO3000E;MSO3000X;	
UT-P08A		Probe factor:(10:1) Bandwidth: 350MHz.voltage:600Vpp	MSO3000HD;MSO7000X; MSO/UPO3000E;MSO3000X; MSO2000X;		
UT-PA2000			Active single ended probe (2GHz, 10X)	ROW	MSO3000HD;MSO7000X; MSO3000X;
UT-P20			Passive probe: (100:1) Bandwidth: 250MHz.voltage: 1500V	CE&UKCA	MSO3000HD;MSO7000X; MSO/UPO3000E;MSO3000X; MSO2000X;MSO/UPO2000; UPO2000E;UPO1000CS; UPO1000;UTD2000CEX+; UTD2000CL/CL+;
UT-P21			Passive high voltage probe: (1000:1) Bandwidth: 40MHz voltage: DC 10kV/AC 7kVrms		
UT-P30		Differential probe:(10:1/100:1) Bandwidth: 100MHz differential voltage: 800Vpp			
UT-P31		High voltage differential probe: (100:1/1000:1) Bandwidth: 100MHz differential voltage: 1500Vpp			
UT-P32		Differential probe:(1000:1/100:1) Bandwidth: 50MHz, Input differential voltage: 3000Vpp			
UT-P33		Differential probe:(1000:1/100:1) Bandwidth:70/50MHz, differential voltage: 14KVpp			
UT-P35		High voltage Differential probe:1:50,130V(DC+peakAC); 1:500,1300V(DC+peakAC),Bandwidth:50MHz,Precision:2%	ROW		
UT-P36		High voltage Differential probe: 1/200:560(DC+peakAC) 1/2000:5600(DC+peakAC), Bandwidth:100MHz,Precision:2%			
UT-V23		High voltage probe:(100:1) Bandwidth: 100MHz,voltage: 2000Vpp	CE&UKCA	MSO3000HD;MSO7000X; MSO/UPO3000E;MSO3000X; MSO2000X;MSO/UPO2000; UPO2000E;UPO1000CS; UPO1000;	
UT-P40		Conversion ratio:50mV/A, 5mV/A,Current range : 0.4A-60A, Frequency: DC-100kHz,voltage: 600Vrms			
UT-P41		Conversion ratio:100mV/A, 10mV/A, Current range: 50mA-100A, Frequency: DC-100kHz, voltage: 600Vrms			
UT-P42		Conversion ratio:50mV/A, 5mV/A, Current range: 0.4A-200A, Frequency: DC-150kHz, voltage: 600Vrms			

Model	Picture	Information	Certification	Series
UT-P43		Current range :20A AC/DC, Frequency: DC-25MHz, Conversion ratio:100mV/A	ROW	MSO3000HD;MSO7000X; MSO/UPO3000E;MSO3000X; MSO2000X;MSO/UPO2000; UPO2000E;UPO1000CS; UPO1000;UTD2000CEX+; UTD2000CL/CL+;
UT-P44		Current range: 40A AC/DC, Frequency: DC-50MHz, Conversion ratio:50mV/A		
UT-M15		Logic analyzer probe:16CH		
UT-ISOT		Isolation transformer for Bode plot application (Hardware)		
UT-P4030D		30A/ DC-100MHz High frequency current probe Range:30A/5A,Freq range:DC-100MHz,Rise time:≤3.5ns		
UT-P4150		150A/ DC-12MHz High frequency current probe Range:150A/30A,Freq range:DC-12MHz,Rise time:≤29ns		
UT-P4500		500A/ DC-5MHz High frequency current probe Range:500A/75A,Freq range:DC-5MHz,Rise time:≤70ns		
UT-P4100A		100A/600kHz Low frequency current probe Range:100A/10A,Freq range:DC-600kHz,Rise time:≤583ns		
UT-P4100B		100A/2MHz Low frequency current probe Range:100A/10A,Freq range:DC-2MHz,Rise time:≤175ns		
UT-M13X		Oscilloscope Signal Protocol Demonstration Board		

Generators

Waveform Generators

Selection Guide

Series	Model	Channels	Sample rate	MAX Frequency															
				600 MHz	500 MHz	350 MHz	200 MHz	160 MHz	120 MHz	80 MHz	60 MHz	40 MHz	30 MHz	25 MHz	20 MHz				
UTG9000T	UTG9604T	4	2.5GSa/s	●															
	UTG9504T				●														
	UTG9354T					●													
UTG4000A	UTG4202A	2	500MSa/s				●												
	UTG4162A						●												
	UTG4122A								●										
	UTG4082A										●								
UTG2000X	UTG2122X	2	1.25GSa/s						●										
	UTG2082X								●										
	UTG2062X											●							
UTG2000A/B	UTG2122B	2	1.28GSa/s						●										
	UTG2082B								●										
	UTG2062B											●							
	UTG2025A		1.25MSa/s												●				
UTG1000X	UTG1042X	2	200MSa/s										●						
	UTG1022X																●		
	UTG1022X-PA																	●	
UTG900E	UTG962E	2	200MSa/s										●						
	UTG932E													●					

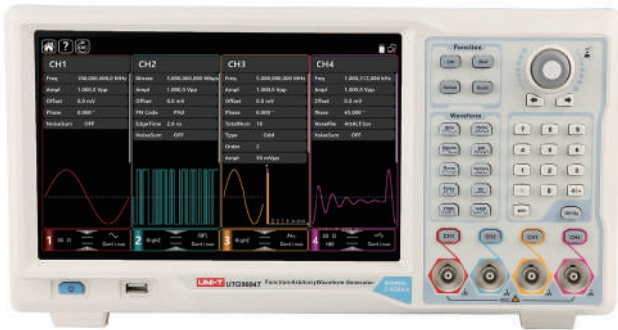
Waveform Generators

Accessories

Model	Picture	Information	Certification	Series
UT-L45		BNC-BNC line :1M, Suitable for all signal generators	ROHS	UTG9000T; UTG4000A; UTG2000X; UTG2000A/B; UTG1000X; UTG900E;

UTG9000T Series

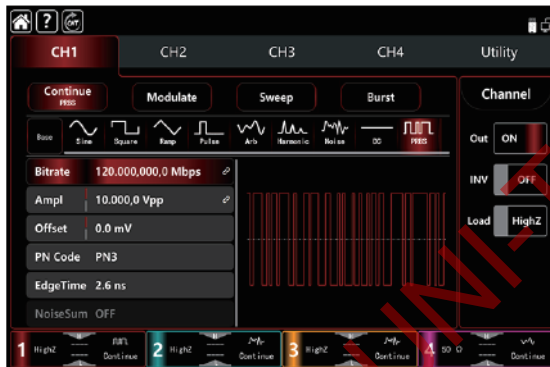
Waveform and Function Generators



The UTG9000T Series pulse/function/arbitrary waveform generators, employing Direct Digital Synthesizer (DDS) technology, produce precise and stable waveform outputs with a bandwidth of 600MHz. They feature a maximum Sample rate of 2.5GSa/s and a resolution as fine as 1μHz. These instruments deliver accurate, stable, pure, and low-distorted signals. With straightforward operation, technical superiority, and the ability to provide high-frequency square waves with rapid rising and falling edges, these multi-functional instruments cater to a variety of requirements.

- 4 channels output
- Output: 600MHz sine wave, full-band resolution: 1μHz
- 200MHz pulse waveform with adjustable rise and fall time
- Sample rate: 2.5GSa/s, vertical resolution: 16bits
- Arbitrary wave memory depth of 64Mpts, supports point-to-point output.
- Supports one-click SNR output.

- Frequency sweep modes: linear, logarithmic, list, stepping
- Modulation types: AM, PM, FM, DSBAM, ASK, PSK, BPSK, QPSK, FSK, 3FSK, 4FSK, QAM, QSK, PWM, SUM
- 10.1 inch capacitive touchscreen with 1280*800 resolution
- Digital protocol output: SPI, I2C, UART
- Standard interfaces: USB Host, USB Device, LAN



- Support for multiple signal outputs: PRBS



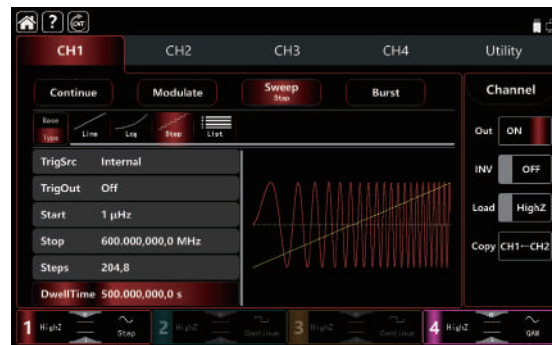
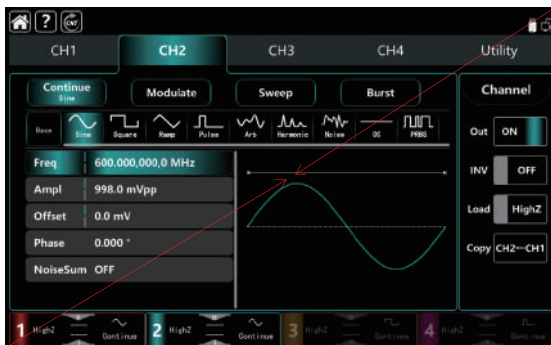
- Arbitrary wave memory depth of 64Mpts, supports point-to-point output.



- Digital protocol output: SPI, I2C, UART



- Addition of waveforms And Channels Merge



- 10.1 inch capacitive touchscreen 4 Channel, Sample rate: 2.5GSa/s, vertical resolution: 16bits

- Rich sweep features:Line,Log,Step,List

Key Specifications	UTG9354T	UTG9504T	UTG9604T	UTG9354T	UTG9504T	UTG9604T
Channel	CH1 & CH2 (Main)			CH3 & CH4 (Slave)		
Max. frequency	350MHz	500MHz	600MHz	160MHz	200MHz	200MHz
Sample rate	2.5GSa/s			625MSa/s		
Vertical resolution	14bits	14bits	16bits	16bits	16bits	16bits
Arbitrary wave length	8pts-64Mpts			8kpts		
Working mode	Continue, modulation, frequency sweep, burst, cymometer, digital protocol					
Continue	Sine, square, ramp, pulse, harmonic, noise, PRBS, DC, arbitrary waveform					
Modulation types	AM, PM, FM, DSBAM, ASK, PSK, BPSK, QPSK, FSK, 3FSK, 4FSK, QAM, OSK, PWM, SUM					
Frequency sweep types	Linear, logarithmic, list, stepping					
Burst types	N cycle, gating, infinite					
Digit types	SPI, I2C, UART					
Hardware cymometer	100mHz-800MHz, DC/AC coupling					
Frequency Characteristics						
Sine wave	1μHz-350MHz	1μHz-500MHz	1μHz-600MHz	1μHz-160MHz	1μHz-200MHz	1μHz-200MHz
Square wave	1μHz-120MHz	1μHz-160MHz	1μHz-200MHz	1μHz-50MHz	1μHz-60MHz	1μHz-60MHz
Pulse wave	1μHz-120MHz	1μHz-160MHz	1μHz-200MHz	1μHz-50MHz	1μHz-60MHz	1μHz-60MHz
Ramp wave	1μHz-20MHz	1μHz-30MHz	1μHz-30MHz	1μHz-8MHz	1μHz-10MHz	1μHz-10MHz
Noise	1mHz-350MHz	1mHz-500MHz	1mHz-600MHz	1mHz-160MHz	1mHz-200MHz	1mHz-200MHz
Arbitrary wave (DDS)	1μHz-80MHz	1μHz-100MHz	1μHz-100MHz	1μHz-50MHz	1μHz-60MHz	1μHz-60MHz
PRBS	1μbps-80Mbps	1μbps-120Mbps	1μbps-120Mbps	1μbps-40Mbps	1μbps-60Mbps	1μbps-60Mbps
Harmonic wave	1μHz-175MHz	1μHz-250MHz	1μHz-300MHz	1μHz-80MHz	1μHz-100MHz	1μHz-100MHz
Frequency resolution	1μHz					
Rise/fall time	1MHz, 1 Vpp, 50Ω load					
	< 2ns	< 2ns	< 1.5ns	< 6ns	< 5ns	< 5ns
Output Characteristics						

Key Specifications	UTG9354T	UTG9504T	UTG9604T	UTG9354T	UTG9504T	UTG9604T
Output amplitude(High Z)	≤40MHz		20Vpp	≤20MHz		20Vpp
	≤120MHz		10Vpp	≤80MHz		10Vpp
	≤160MHz		5Vpp	≤120MHz		5Vpp
	≤300MHz		4Vpp	≤200MHz		3Vpp
Output amplitude(High Z)	≤400MHz		2.5Vpp	-		-
	≤500MHz		1.5Vpp	-		-
	≤600MHz		1Vpp	-		-
Amplitude accuracy	(1kHz sine wave with 0V offset, >10mVpp)					
	± (1% of set amplitude+1mVpp)					
DC offset range	50 Ω: ± (5 VDC - Peak AC) HighZ: ± (10 VDC - peak AC)					
DC offset accuracy	±1% of offset set value ± 0.5% of amplitude set value ±2mV					
Standard configuration	USB Host, USB Device, LAN					
Output resistance	50Ω					

General Characteristics

Power	100 V to 240 VAC (fluctuate: ±10%), 50 Hz/60 Hz 100 V to 120 VAC (fluctuate: ±10%), 400 Hz
Display	10.1 inches TFT capacitive touchscreen with 1280*800 resolution
Product net weight	4.04kg
Product size (W×H×D)	370mm*115mm*185mm
Standard quantity per carton	1pc
Standard carton size	500mm*305mm*315mm
Standard carton gross weight	6.06kg

Ordering Information

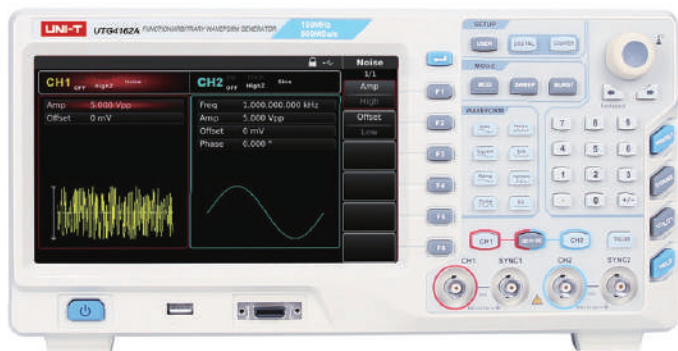
UTG9000T Series	UTG9604T:600MHz, 2.5GSa/s, 64Mpts, 4-Channel
	UTG9504T:500MHz, 2.5GSa/s, 64Mpts, 4-Channel
	UTG9354T:350MHz, 2.5GSa/s, 64Mpts, 4Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	BNC cables (1m):4pcs



UTG9000T Series

UTG4000A Series

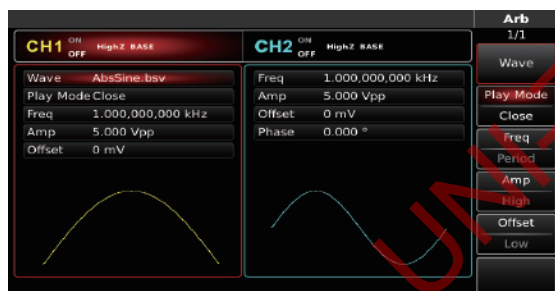
Waveform and Function Generators



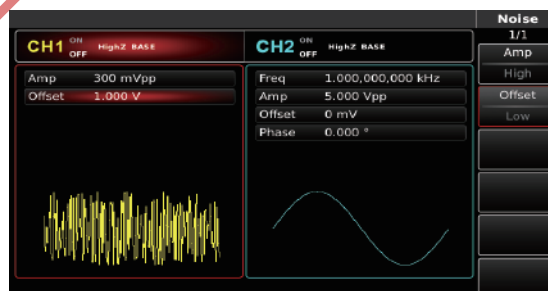
The UTG4000A Series waveform generators boast a multi-function design, making them well-suited for diverse application scenarios. With features such as Function Generation, Arbitrary Waveform Generation, Pulse Generation, Harmonic Generation, Analog/Digital Modulation source, and a frequency counter, the UTG4000A series is capable of handling a wide range of signal emulation applications—from near DC up to 80MHz or even 200MHz, depending on the model and function. Utilizing Direct Digital Synthesizer (DDS) technology, the UTG4000A series ensures the delivery of stable, precise, and low-distortion signals. The sleek, upright design is complemented by a high-resolution 8-inch display screen. Additionally, the user-friendly interface design and panel layout contribute to improved efficiency.

- 80MHz/120MHz/160MHz/200MHz sine waveform output, 1μHz full-band resolution
- 30MHz/40MHz/50MHz pulse waveform, adjustable rise/fall time
- 500MSa/s Sample rate, 16 bits vertical resolution
- Standard dual channels, supporting stand-alone or channel-coupling output mode
- 32Mpts arbitrary waveform depth, 7GB non-volatile arbitrary waveforms

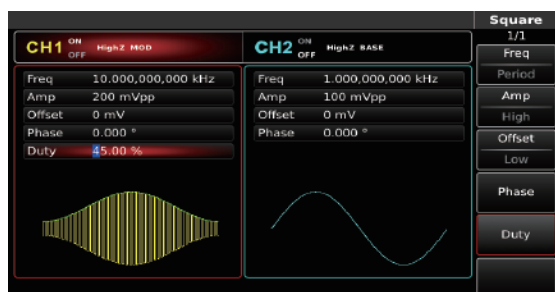
- Versatile modulation options: AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM
- Frequency cymometer range: 100mHz-800MHz
- 8 inch TFT LCD, WVGA (800×480)
- Standard Ports: USB Host, USB Device, LAN, 10MHz Input, 10MHz Output, Frequency Counter, FSK Trig, Modulation In



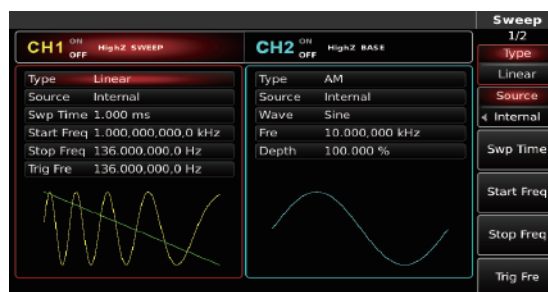
● Built-in arbitrary waveform available at any time



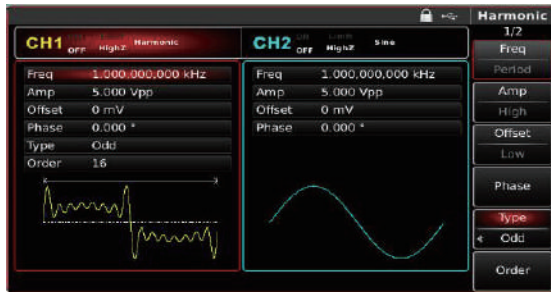
● Noise modes



● Rich modulation functions



● Linear and logarithmic sweep waveform



● Customize harmonic generation function



● Optional digital signal output interface: SPI, IIC, UART

Key Specifications	UTG4082A	UTG4122A	UTG4162A	UTG4202A
Max. frequency	80MHz	120MHz	160MHz	200MHz
Channels	2			
Sample rate	500MSa/s			
Waveforms	Sine, square, ramp, harmonic, pulse, noise, DC voltage, arbitrary			
Working modes	Continuous, modulation, sweep, burst			
Modulation types	AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OOK, PWM, SUM, QAM			
Sine	1μHz-80MHz	1μHz-120MHz	1μHz-160MHz	1μHz-200MHz
Square/Pulse	1μHz-30MHz	1μHz-40MHz	1μHz-50MHz	1μHz-60MHz
Ramp	1μHz-2MHz	1μHz-3MHz	1μHz-4MHz	1μHz-5MHz
Harmonic	1μHz-40MHz	1μHz-60MHz	1μHz-80MHz	1μHz-100MHz
Noise (-3dB)	80MHz	120MHz	160MHz	200MHz
Resolution	1μHz			
Arbitrary Waveform				
Frequency range	1μHz-20MHz	1μHz-30MHz	1μHz-40MHz	1μHz-50MHz
Memory depth	8pts-32Mpts	8pts-32Mpts	8pts-32Mpts	8pts-32Mpts
Vertical resolution	16bits			
Min rise/fall time (typical: 1Vpp)	< 7ns	< 6ns	< 5ns	< 5ns

General Characteristics	
Power	100V-240V AC, 50Hz/60Hz
Display	8 inches TFT LCD, WVGA (800 x 480)
Product net weight	3.5kg
Product size(WxHxD)	336mm x 164mm x 108mm
Standard quantity per carton	1pc
Standard carton size	405mm x 225mm x 265mm
Standard carton gross weight	4.8kg

Ordering Information

UTG4000A Series	UTG4202A:200MHz, 500MSa/s, 32Mpts, 2-Channel
	UTG4162A:160MHz, 500MSa/s, 32Mpts, 2-Channel
	UTG4122A:120MHz, 500MSa/s, 32Mpts, 2-Channel
	UTG4082A:80MHz, 500MSa/s, 32Mpts, 2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	BNC cables(1M):1pair
Optional Accessories	UT-U02:digital cable



UTG4000A Series

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UTG2000X Series NEW

Waveform and Function Generators



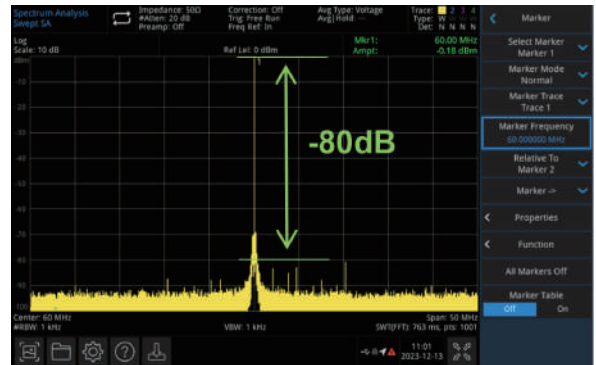
- Dual channel with the maximum frequency output 120 MHz, the maximum output amplitude 20 Vpp
- 625MSa/s sample rate and 16-bit vertical resolution
- 11 basic waveforms: Sine, Square, Pulse, Ramp, Arbitrary, Harmonic, Expression, PRBS, Noise, DC, Double Pulse.
- Multiple analog and digital modulation function: AM, PM, FM, DSB-AM, ASK, PSK, BPSK, QPSK, FSK, 3FSK, 4FSK, QAM, OSK, PWM, SUM
- Square wave with the maximum frequency 50 MHz, low jitter
- Wide dynamic and high-precision pulse wave with adjustable edge time, which can achieve fine edge time adjustment and has extremely high adjustment resolution and range
- Excellent performance with low harmonic distortion

The UTG2000X series uses direct digital synthesis technology to produce accurate and stable waveform output with a resolution as low as 1 μ Hz. It is an economical, high-performance, multi-functional function/arbitrary waveform generator. It can generate accurate, stable, pure and low-distortion output signals. With easy operation, superior technical indicators and user-friendly graphic display, it is a multi-purpose device that meets learning and testing needs and improves work efficiency.

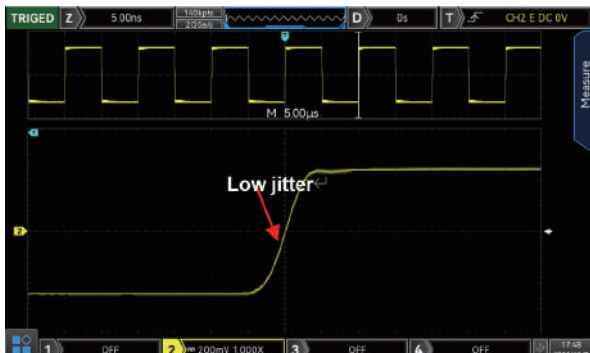
- Supports frequency sweep and burst output
- Low jitter waveform can be outputted point by point within the range of arbitrary waveform length from 8pts to 64Mpts
- Supports channel copying, following, and stacking settings
- Can generate any waveform through any waveform editor on the upper computer
- 7 bit hard frequency meter
- Built-in 200 arbitrary waves
- Standard USB Host, USB Device, and LAN interface
- Support SCPI programmable instrument standard commands
- 4.3 inches high resolution TFT LCD



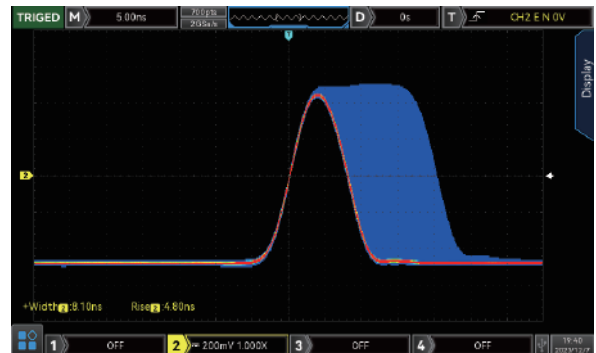
- 4.3-inch full-color display, touch-operable, making instrument control faster and more convenient



- Low distortion output, -80dBc spurious-free dynamic range



- Excellent digital sampling technology makes the output waveform jitter lower



- The new generation of wide dynamic and high-precision pulse wave with adjustable edge time has a minimum pulse width of 8ns, finely adjustable pulse width, and a minimum step of 100ps

Key Specifications	UTG2062X	UTG2082X	UTG2122X
Channel	2		
Max. frequency	60MHz	80MHz	120MHz
Sample rate	625MSa/s (1.25GSa/s, 2 x interpolation)		
Vertical resolution	16bits	16bits	16bits
Arbitrary wave length	64Mpts		
Working mode	Continuous, Modulation, Frequency sweep, Burst, Counter		
Continue	Sine, Square, Ramp, Pulse, Noise, DC, Arb, Harmonic, PRBS, Expression		
Modulation types	AM, FM, PM, DSB-AM, ASK, FSK, PSK, 3FSK, 4FSK, BPSK, QPSK, OSK, SUM, QAM, PWM		
Frequency sweep types	Lin, Log, Step		
Burst	N-cycle, Gated, Infinite		
Hardware frequency counter	100mHz-200MHz, 7 digits		
Frequency Characteristics			
Sine wave	1 μ Hz-60MHz	1 μ Hz-80MHz	1 μ Hz-120MHz
Square wave	1 μ Hz-30MHz	1 μ Hz-40MHz	1 μ Hz-50MHz
Pulse wave	1 μ Hz-30MHz	1 μ Hz-40MHz	1 μ Hz-50MHz
Ramp wave	1 μ Hz-3MHz	1 μ Hz-4MHz	1 μ Hz-5MHz
Arbitrary wave	1 μ Hz-30MHz	1 μ Hz-40MHz	1 μ Hz-50MHz
Harmonic	1 μ Hz-30MHz	1 μ Hz-40MHz	1 μ Hz-50MHz
Expression	1 μ Hz-15MHz	1 μ Hz-20MHz	1 μ Hz-25MHz
PRBS	1 μ bps-30Mbps	1 μ bps-40Mbps	1 μ bps-50Mbps
Gauss noise	1MHz-60MHz	1MHz-80MHz	1MHz-120MHz
Frequency resolution	1 μ Hz		
Rise/fall time	1 Vpp, 50 Ω load		
	<7ns (typical, 1 kHz)	<6ns (typical, 1 kHz)	<5ns (typical, 1 kHz)
Output Characteristics			
Output amplitude(50 Ω)	\leq 20MHz:1mVpp-10Vpp		
	\leq 60MHz:1mVpp-5Vpp		
	\leq 120MHz:1mVpp-2Vpp		
Amplitude accuracy	Typical value(1kHz, sine wave, 0V, deviation, > 10 mVpp)		
	\pm (1% of set value+1 mVpp)		
DC offset range	\pm 5V (50 Ω); \pm 10V (High Z)		
DC offset accuracy	Offset set value \pm 1% \pm amplitude set value 0.5% \pm 2mV		
Interface			
Standard configuration	USB Host, USB Device, LAN		
Output Impedance	50 Ω		

General Characteristics

Power	100-240 VAC (Fluctuations: $\pm 10\%$), 50 Hz/60Hz; 100-120 VAC (Fluctuations: $\pm 10\%$), 400 Hz
Display	4.3 inch TFT LCD WVGA(480x277),capacitive touch
Product size(WxHxD)	215mmx103mmx316mm
Product net weight	2.5kg
Standard quantity per carton	1pc

Ordering Information

UTG2000X Series	UTG2062X:60MHz, 1.25GSa/s, 64Mpts, 2-Channel
	UTG2082X:80MHz, 1.25GSa/s, 64Mpts, 2-Channel
	UTG2122X:120MHz, 1.25GSa/s, 64Mpts, 2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-L02A: BNC--red and black alligator clip cable x1
	UT-L45: BNC cables x1

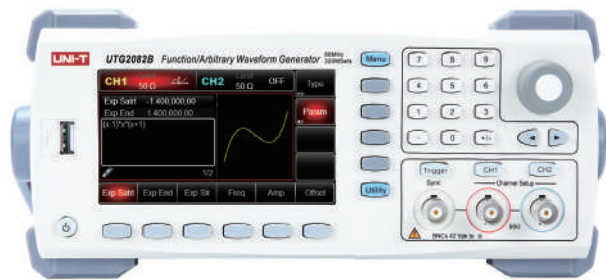
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UTG2000X Series

UTG2000A/B Series

Waveform and Function Generators



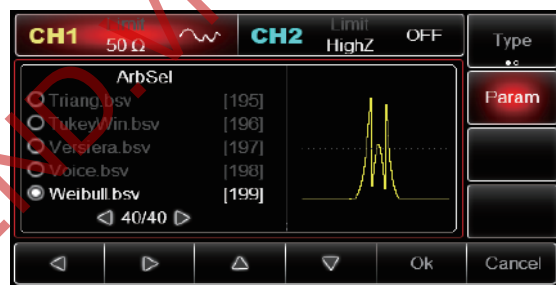
The UTG2000B Series waveform generators offer high precision, stability, purity, and low-distortion signals. They deliver high-frequency square waves with rapid rise and fall edges. Users can enhance their working efficiency by utilizing these multifunctional instruments, thanks to the intuitive operation interface and graphical display design.

- 60MHz/80MHz/120MHz sine waveform output, 1μHz full-band resolution
- 1.28GSa/s Sample rate, 16 bits vertical resolution
- Unique expression output function
- Standard dual channels, supporting stand-alone or channel-coupling output mode

- 16Mpts arbitrary waveform depth
- Versatile modulation options: AM, FM, PM, PWM, ASK, FSK, PSK, BPSK, QPSK, OSK, DSB-AM, SUM, QAM
- 4.3 inch TFT LCD, WVGA (800x480)
- Standard Ports: USB Host, USB Device, LAN



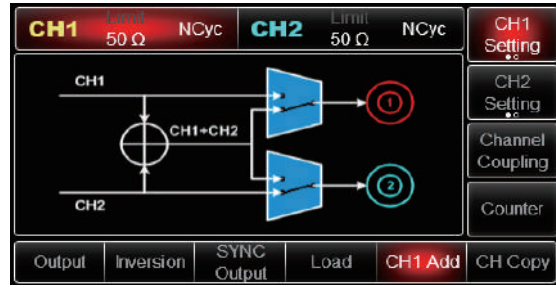
- 120MHz sine waveform output, double channels multiple waveforms selection



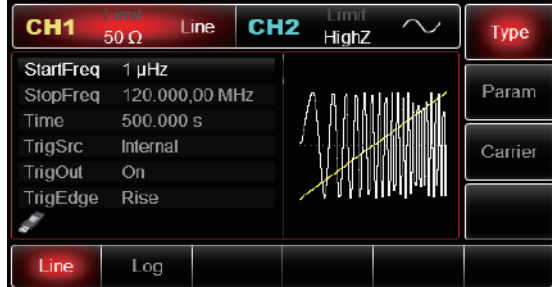
- Built-in up to 200 arbitrary waveforms



- Built-in 16 types harmonic generators



- Supporting stand-alone or channel-coupling output mode Channel merging and stacking



- Sweep function and burst mode



- Multiple analog and digital modulation functions

Key Specifications	UTG2025A	UTG2062B	UTG2082B	UTG2122B
Max. frequency	25MHz	60MHz	80MHz	120MHz
Channels	2			
Sample rate	125MSa/s	1.28GSa/s(4×Interpolation)		
Waveforms	Sine, square, ramp, pulse, noise, DC, arbitrary; UTG2000B only: harmonic			
Working modes	Continuous, modulation, sweep, burst			
Modulation types	AM, FM, PM, ASK, FSK, PSK, PWM	AM, FM, PM, ASK, FSK, PSK, PWM, BPSK, QPSK, OSK, DSB-AM, SUM, QAM		
Arbitrary Waveform				
Memory depth	8pts-8kpts	8pts-16Mpts		
Vertical resolution	14bits	16bits (symbol included)		
Frequency Characteristics				
Sine	1μHz-25MHz	1μHz-60MHz	1μHz-80MHz	1μHz-120MHz
Square	1μHz-5MHz	1μHz-25MHz	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, 10MHz clock source input/output, External analog modulation input			

General Characteristics	
Power	100V-240V AC, 50Hz/60Hz
Display	4.3 inches TFT LCD, WVGA (480 x 272)
Product net weight	3.2kg
Product size	265mm x 110mm x 320mm
Standard quantity per carton	2pcs
Standard carton size	380mm x 330mm x 320mm
Standard carton gross weight	8.5kg

Ordering Information

UTG2000A/B Series	UTG2122B:120MHz, 1.28GSa/s, 16Mpts, 2-Channel
	UTG2082B:80MHz, 1.28GSa/s, 16Mpts, 2-Channel
	UTG2062B:60MHz, 1.28GSa/s, 16Mpts, 2-Channel
	UTG2025A:25MHz, 125MSa/s, 8Kpts, 2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	BNC cables:1pcs,BNC to alligator clip line(1m):1pcs



UTG2000A Series

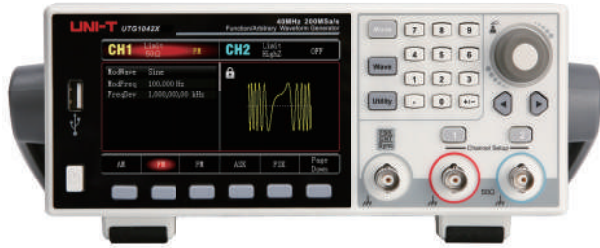


UTG2000B Series

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UTG1000X Series

Waveform and Function Generators



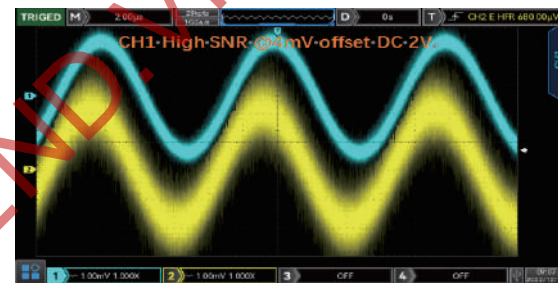
The UTG1000X utilizes direct digital synthesis technology, ensuring the generation of precise and stable waveforms with a resolution as fine as 1 μ Hz. This economical, high-performance, and multi-functional/arbitrary waveform generator produces accurate, stable, clean, and low-distortion output signals. It is designed for convenient operation, offering superior technical indicators and a user-friendly graphic display, making it a versatile tool that meets the needs of learning and testing while enhancing work efficiency.

- Dual-channel equivalent performance Maximum output frequency 40 MHz, maximum output amplitude 20 Vpp
- 200MSa/s Sample rate, 16-bit vertical resolution
- The maximum frequency of square wave is 10MHz, and low jitter
- Rich analog and digital modulation function:AM, FM, PM, FSK, ASK, PSK and PWM
- Standard USB Host, USB Device interface
- Support sweep frequency and pulse train output

- Built-in power amplifier module, the maximum output power is 4W (-PA model only)
- Arbitrary waveform can be generated by PC software
- 7-bit hardware frequency counter function has lower output noise and higher signal-to-noise ratio.
- Built-in 200 arbitrary waveforms
- 4.3 inch TFT LCD display



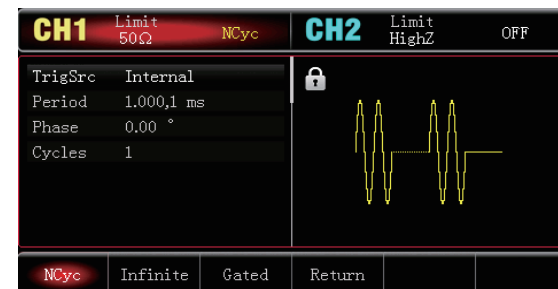
- Excellent digital sampling technology makes the output waveform jitter lower.



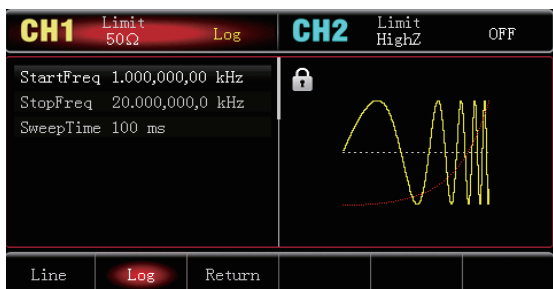
- Set small signal to superimpose large DC, UTG1000X has lower output noise and higher signal-to-noise ratio.



- Support AM, FM, PM, FSK, ASK, PSK and PWM multiple analog and digital modulation methods.



- Supports three pulse modes of "N cycle", "infinite" and "gated". "Internal" and "External" two modulation signal sources.



- Support "linear" and "logarithmic" two frequency sweep methods.



- High-precision frequency meter, which can measure the frequency range of 100mHz-200MHz.

Key Specifications	UTG1022X	UTG1022X-PA	UTG1042X
Channel	2		
Max. frequency	20MHz	20MHz	40MHz
Sample rate	200MSa/s		
Vertical resolution	16bits	16bits	16bits
Arbitrary wave length	4kpts		
Working mode	Continue, modulation, frequency sweep, Burst		
Continue	Sine, Square, Ramp, Pulse, Noise, DC, Arb		
Modulation types	AM, PM, FM, ASK, PSK, FSK, PWM		
Frequency sweep types	Linear, logarithmic		
Hardware frequency counter	100mHz-200MHz		
Frequency Characteristics			
Sine wave	1 μ Hz - 20MHz	1 μ Hz - 20MHz	1 μ Hz-40MHz
Square wave	1 μ Hz - 10MHz	1 μ Hz - 10MHz	1 μ Hz-20MHz
Pulse wave	1 μ Hz - 10MHz	1 μ Hz - 10MHz	1 μ Hz-20MHz
Ramp wave	1 μ Hz - 400kHz	1 μ Hz - 400kHz	1 μ Hz - 1MHz
Noise	40MHz bandwidth (-3dB)(typical value)	40MHz bandwidth (-3dB)(typical value)	40MHz bandwidth (-3dB)(typical value)
Frequency resolution	1 μ Hz		
Rise/fall time	1 Vpp, 50 Ω load		
	< 16ns	< 16ns	< 16ns
Output Characteristics			
Output amplitude(50 Ω)	\leq 20MHz		1mVpp-10Vpp
	\leq 40MHz		1mVpp-5Vpp
Amplitude accuracy	(1kHz sine wave with 0V offset, >10mVpp)		
	\pm (1% of set value+2 mVpp)		
DC offset range	\pm 5V (50 Ω); \pm 10V (High Z)		
DC offset accuracy	Offset set value \pm 1% \pm amplitude set value 2% \pm 2mV		
Interface			
Standard configuration	USB Host, USB Device, PowerOut (only -PA)		
Output resistance	50 Ω		

General Characteristics

Power	100-240 VAC(Fluctuations:+10%),50 Hz/60HZ;100-120 VAC (Fluctuations: +10%),400 Hz
Display	4.3 inch TFT LCD WVGA(480×277)
Product size(W×H×D)	215mm*103mm*316mm
Product net weight	2.2kg

Ordering Information

UTG1000X Series	UTG1042X:40MHz, 200MSa/s, 4kpts, 2-Channel
	UTG1022X:20MHz, 200MSa/s, 4kpts, 2-Channel
	UTG1022X-PA:20MHz, 200MSa/s, 4kpts, 2-Channel,Power Module
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	BNC cables:1pcs,BNC to alligator clip line:1pcs

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UTG1000X Series

UTG900E Series

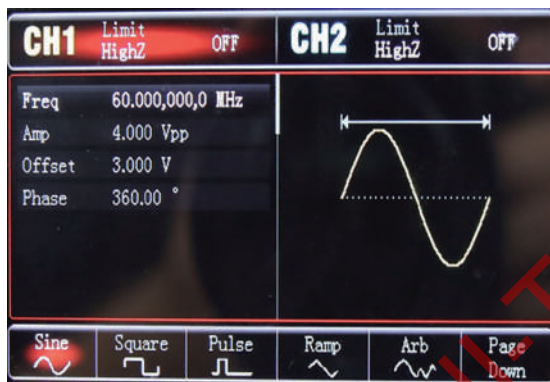
Waveform and Function Generators



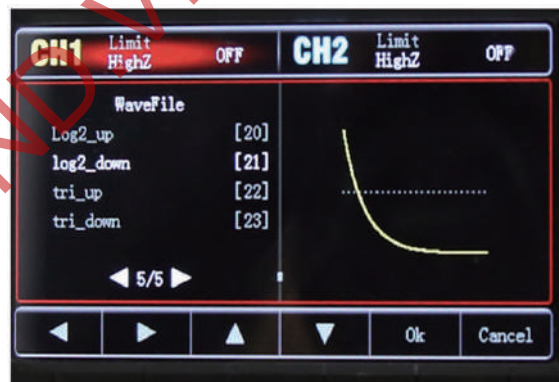
The UTG900E Series is an entry-level handheld arbitrary waveform generator that combines high performance with multifunctionality. Featuring a compact design, a 4.3-inch TFT LCD, and a user-friendly interface, this model is well-suited for a range of test scenarios, making your testing tasks more straightforward. Utilizing direct digital synthesis technology, it ensures accurate and stable waveform generation. With a remarkable full-band resolution of up to 1μHz, this generator offers precision in waveform creation.

- 30MHz/60MHz sine waveform output,1μHz full-band resolution
- 200MSa/s Sample rate, 14 bits vertical resolution,double channels
- Portable handheld mini signal generator
- High-accuracy, broad-band 7 bit frequency counter, range:100mHz-100MH

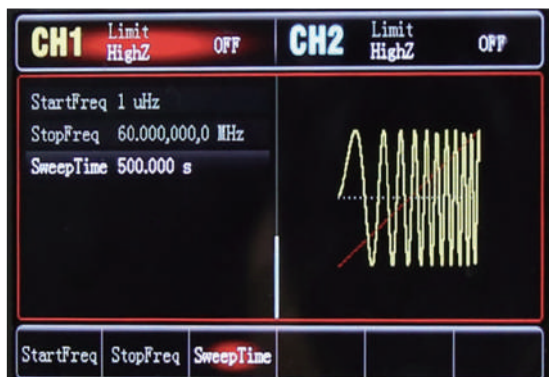
- Linear and logarithmic sweep functions
- 24 types of non-volatile waveform stores
- 4.3 inch high resolution color TFT display



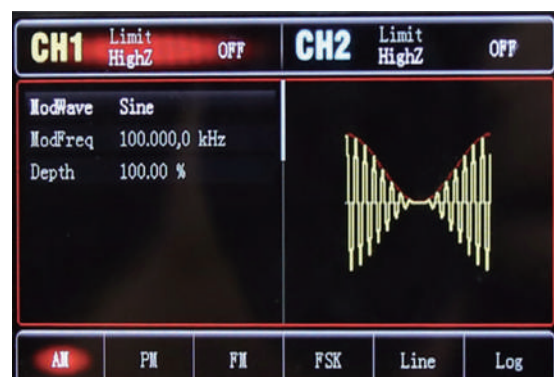
- Standard 2 Channels, multiple waveform signals Maximum output frequency 60MHz, dual channel,multiple waveform signals:sine wave, square, ramp,pulse, noise, DC, arbitrary waveform.



- Built-in 24 arbitrary waveforms 24 kinds of non-volatile digital arbitrary waveform storage.



- Sweep function
- Scan type: linear and logarithmic,test scan from low to high, and scan output from high to low.



- Modulation function
- Easy-to-use modulation types: AM, FM, PM, FSK

Key Specifications	UTG932E	UTG962E
Max. frequency	30MHz	60MHz
Channels	2	
Sample rate	200MSa/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	
Amplitude range	1mVpp-10Vpp (50Ω); 2mVpp-20Vpp (high Z)	
DC offset range (AC+DC)	±5V (50Ω); ±10V (high Z)	
Amplitude resolution	1mV	

General Characteristics		
Power	100-240VAC, 50Hz/60Hz	
Display	4.3 inches TFT LCD (480×272)	
Product net weight	0.33kg	
Product size	172mm x 90mm x 68mm	
Standard quantity per carton	4pcs	
Standard carton size	435mm x 360mm x 125mm	
Standard carton gross weight	3.8kg	

Ordering Information

UTG900E Series	UTG962E:60MHz, 200MSa/s, 2-Channel
	UTG932E:30MHz, 200MSa/s, 2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	BNC cable:1pcs,BNC-alligator clip cable(1m):1pcs
	Power adapter



UTG900E Series

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Spectrum/Signal Analyzers

Selection Guide

Series	Model	Frequency Range	Frequency Resolution	RBW	Phase Noise	DANL	Tracking Source
UTS5000A	UTS5026A	9kHz-26.5 GHz	0.001Hz	1Hz-3MHz(10% Steps), 4,5,6,8MHz	<-107 dBc/Hz (Typical value)@10kHz	< -163dBm	No
	UTS5013A	9kHz-13.6 GHz					
UTS3000A	UTS3084A	9 kHz-8.4 GHz	1 Hz	1Hz-10MHz(1-3-10 Step)	<-100 dBc/Hz (Typical value)@10kHz	<-165 dBm	yes
	UTS3060A	9 kHz-6GHz					
	UTS3036A	9 kHz-3.6 GHz					
UTS3000T+	UTS3084T+	9 kHz-8.4 GHz	1 Hz	1Hz-3 MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161 dBm	yes
	UTS3036T+	9 kHz-3.6 GHz		1Hz-1 MHz			
	UTS3032T+	9 kHz-3.2 GHz					
	UTS3015T+	9 kHz-1.5 GHz					
UTS3000B	UTS3084T	9kHz-8.4GHz	1 Hz	1Hz-3MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161 dBm	yes
	UTS3084B						No
	UTS3036B	9kHz-3.6GHz					Optional
	UTS3021B	9kHz-2.1GHz					
UTS1000B	UTS1032T	9 kHz-3.2GHz	1 Hz	1Hz-1MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161 dBm	Yes
	UTS1032B						No
	UTS1015T	9 kHz-1.5GHz					Yes
	UTS1015B						No

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Accessories

Model	Picture	Information	Certification	Series
UTS-CK01		Spectrum Utility Kit: include NSMAJ-NJ-0.7M DC-6G Cable x1, NJ-NJ-0.7M DC-6G Cable x1, SMA-N-KJ-T DC-6GHz Adapter x2, N-BNC-JK DC-4GHz Adapter x2, 2400MHz-2500MHz Antenna x2, 824-960MHz/1710-1990MHz x2	ROHS	UTS5000A;UTS3000A; UTS3000T+ ;UTS3000B; UTS1000B;
UTS-CK02		2.92J RF cable (UT-W03-40GHz)x1, 2.92-KKG double female adaptor (UT-C04-40GHz)x2,SMA-N-KJG adaptor (UT-C03-18GHz)x1, Kit pouch(UT-CK02)x1		UTS5000A
UTS-EMIO1		Frequency range: 30MHz - 3GHz; include 3 Pcs magnetic field near-field probes and 1 Pcs electric field near field probe; 1 Pcs N-SMA cable, 1 Pcs N-BNC		UTS5000A;UTS3000A; UTS3000T+;UTS3000B; UTS1000B;
BAG-B3		Soft carrying bag for UTS1000B and UTS3000B Series Spectrum Analyzers		UTS3000B;UTS1000B;
UT-W02-6GHz		N-SMA-JJ RF cable,DC-6GHz VSWR<1.25:1@6GHz IL<1.8dB@6GHz		UTS5000A;UTS3000A; UTS3000T+;UTS3000B; UTS1000B;
UT-W01-6GHz		N-N-JJ RF cable,DC-6GHz VSWR<1.25:1@6GHz IL<1.8dB@6GHz		UTS5000A;UTS3000A; UTS3000T+;UTS3000B; UTS1000B;
UT-W03-40GHz		2.92J-2.92J RF cable,DC-40GHz VSWR<1.25:1@40GHz IL<3.5dB@40GHz		UTS5000A
UT-C02-4GHz		N-BNC-JK adaptor,DC-4GHz VSWR<1.15:1@4GHz IL<0.2dB@4GHz		UTS5000A;UTS3000A; UTS3000T+;UTS3000B; UTS1000B;
UT-C01-6GHz		N-SMA-JK adaptor,DC-6GHz VSWR<1.15:1@6GHz IL<0.2dB@6GHz		UTS5000A;UTS3000A; UTS3000T+;UTS3000B; UTS1000B;
UTS-T01		Receiving antenna, working frequency 2400MHz-2500MHz, Gain<2dBi		UTS5000A;UTS3000A; UTS3000T+;UTS3000B; UTS1000B;
UTS-T02		Receiving antenna, working frequency 824MHz-960MHz, Gain<2dBi		UTS5000A; UTS3000B;UTS1000B; UTS3000A
UT-C04-40GHz		2.92-KKG adaptor,DC-40GHz VSWR<1.20:1@40GHz IL<0.3dB@40GHz		UTS5000A
UT-C03-18GHz		SMA-N-KJG adaptor,DC-18GHz VSWR<1.15:1@18GHz IL<0.3dB@18GHz		UTS5000A
UT-3009F		Female VNA Calibration Kit(9GHz)		UTS3000A
UT-3009M		Male VNA Calibration Kit(9GHz)		UTS3000A
UT-3009F/M		Female-Male VNA Calibration Kit(9GHz)		UTS3000A

Spectrum/Signal Analyzers

UTS5000A Series NEW

Signal Analyzers

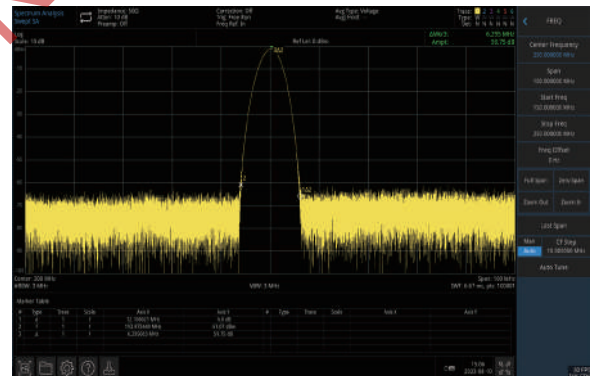


The UTS5000A series is a signal analyzer with a frequency range of 9 kHz to 26.5 GHz. It can be used as the main equipment required to build an automatic control system. It can also meet your needs in the test systems required for corporate R&D/factory production/education and scientific research, etc.

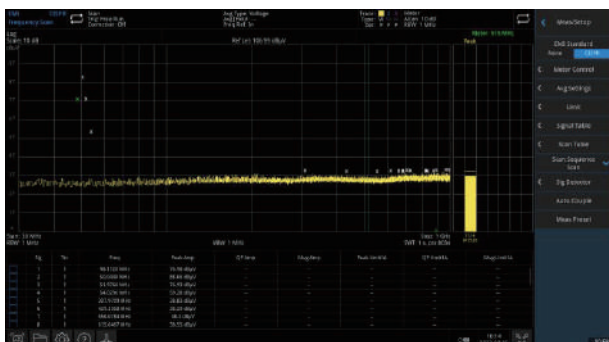
- Frequency range 9kHz to 26.5 GHz
- DANL: -163 dBm(typical value)
- Phase noise: <math><-107\text{ dBc/Hz}</math> (at 10 kHz offset, typical)
- Scan points up to 100001 points
- Minimum Resolution Bandwidth (RBW) 1 Hz
- Support advanced one-key measurement (option)
- EMI Analysis Function (optional)
- Support Analog Demodulation Analysis (optional)
- Support Digital Demodulation Analysis (optional)
- Support I/Q Analysis (optional)
- Configuration 15.6 inches 1920x1080 high-definition thin film transistor LCD display



- Excellent sensitivity to test weaker signals



- Excellent selectivity, Scan 100001 points



- EMI pre-compliance



- Removable dust mesh

Key Specifications	UTS5013A	UTS5026A
Frequency range	9kHz-13.6 GHz	9kHz-26.5 GHz
Frequency resolution	0.001Hz	
Sweep width range	0Hz,10Hz-13.6GHz	0Hz,10Hz-26.5GHz
Sweep accuracy	Swept: $\pm[0.25\% \times \text{span} + \text{horizontal resolution}]$	
	FFT: $\pm[0.10\% \times \text{span} + \text{horizontal resolution}]$	
Sweep time	Span = 0 Hz, 1 μ s to 6000 s; Span \geq 10 Hz, 1 ms to 4000 s	
Marker mode	Normal, Delta Δ , Fixed	
Marker function	Marker Noise, Band Power, Band Density, N dB, Counter	
RBW (-3 dB)	1 Hz-3MHz (10% step), 4, 5, 6, 8MHz	
Video bandwidth (VBW)	1 Hz-3MHz (10% step), 4, 5, 6, 8MHz	
Selectivity (-60 dB/-3 dB)	<4.1:1(Nominal) -60dB:-3dB	
Reference level	-170 dBm to +30 dBm, 0.01 dB Steps	
Preamplifier	+20 dBm nominal	
Input attenuator range	0 to 50 dB, 2 dB Steps	
Trace detectors	Normal, peak, sample, negative peak, log power average, RMS average, and voltage average	
Trace type	Clear/Write, Average, Max Hold, Min Hold	
Scale units	dBm, dBmV, dB μ V, V, W	
Sweep (trace) point range	11 to 100001	
Advanced Measurement	Power Suite Measurement, Nonlinear Measurement, Spectrum Monitoring	
Modulation Analysis	AM Measurement, FM Measurement	
Vector signal analysis	ASK(2 ASK); FSK: 2 FSK, 4 FSK, 8 FSK, 16 FSK; MSK(GMSK); PSK: BPSK, QPSK, OQPSK, 8PSK; DPSK: DBPSK, DQPSK, DBPSK, $\pi/4$ -DQPSK, $\pi/8$ -DBPSK; QAM: 16, 32, 64, 128, 256	
I/Q Analyzer analysis bandwidth	Standard: 9 kHz to 25 MHz; Option B40: 9 kHz to 40 MHz	
Real-time analysis bandwidth	25 MHz	
Interface	RF input, 10MHz reference IN, 10MHz reference OUT, External trigger input, HDMI, USB-Host, USB-Device, LAN	

General Characteristics	
Power	100-240V AC(\pm 10%), 50Hz/60Hz 100 to 120 VAC (Fluctuations \pm 10%) 400 Hz
Display	15.6" TFT LCD (1920x1080) touch
Product size(WxHxD)	445mmx311mmx195mm
Product net weight	11kg
Standard quantity per carton	1pc

Ordering Information

UTS5000A Series	UTS5026A: 26.5 GHz, 1Hz-8 MHz, -163 dBm
	UTS5013A: 13.6 GHz, 1Hz-8 MHz, -163 dBm
Standard Accessories	Power cord conforming to the standard of the destination country x1
	USB cable x1
Optional Accessories	UTS-CK01: UT-W02-6GHz x1, UT-W01-6GHz x1, UT-C02-4GHz x2, UT-C01-6GHz x2, UTS-T01 x2, UTS-T02 x2, Kit pouchx1
	UTS-CK02: UT-W03-40GHzx1,UT-C04-40GHzx2,UT-C03-18GHzx1, Kit pouchx1
	UTS-EMI01: Frequency range: 30MHz - 3GHz; include 3 Pcs magnetic field near-field probes and 1 Pcs electric field near field probe; 1 Pcs SMB-SMA cable, 1 Pcs N-SMA adaptor
	UT-W02-6GHz: N-SMA-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-W01-6GHz: N-N-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-W03-40GHz: 2.92J-2.92J RF cable,DC-40GHz VSWR≤1.25:1@40GHz IL≤3.5dB@40GHz
	UT-C02-4GHz: N-BNC-JK adaptor,DC-4GHz VSWR≤1.15:1@4GHz IL≤0.2dB@4GHz
	UT-C01-6GHz: N-SMA-JK adaptor,DC-6GHz VSWR≤1.15:1@6GHz IL≤0.2dB@6GHz
	UTS-T01: Receiving antenna,working frequency 2400MHz-2500MHz,Gain<2dBi
	UTS-T02: Receiving antenna,working frequency 824MHz-960MHz,Gain<2dBi
	UT-C04-40GHz: 2.92-KKG adaptor,DC-40GHz VSWR≤1.20:1@40GHz IL≤0.3dB@40GHz
	UT-C03-18GHz: SMA-N-KJG adaptor,DC-18GHz VSWR≤1.15:1@18GHz IL≤0.3dB@18GHz
	Options
UTS5000A-EMI: EMI measurement option	
UTS5000A-AMA: Analog demodulation measurement option	
UTS5001A-P26: UTS5026A Preamp, 26.5 GHz	
UTS5000A-VSA: Digital demodulation analysis option	
UTS5000A-IQ: I/Q Analysis	

UNI-TREND



UTS5000A Series

UTS3000A Series NEW

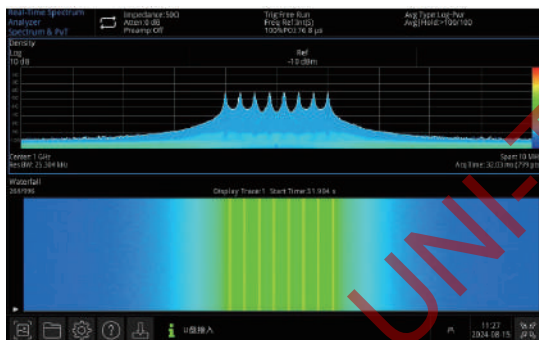
Signal Analyzers



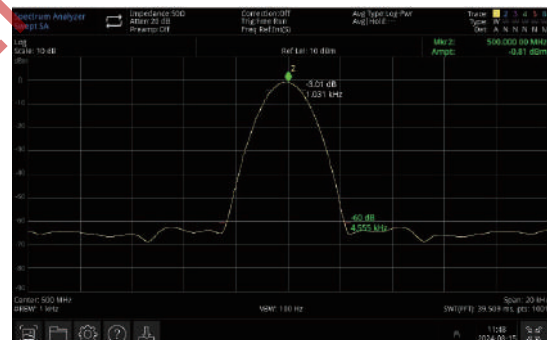
The UTS3000A series is a signal analyzer with a frequency range of 9 kHz to 8.4 GHz. It can be used as the main equipment required to build an automatic control system. It can also meet your needs in the test systems required for corporate R&D/factory production/education and scientific research, etc.

- Frequency range 9 kHz to 8.4 GHz
- DANL: -165 dBm (typical value)
- Phase noise: <-100 dBc/Hz (at 10 kHz offset, typical)
- Scan points up to 40001 points
- Minimum Resolution Bandwidth (RBW) 1 Hz
- Support advanced one-key measurement (option)
- EMI Analysis Function (optional)
- Support Analog Demodulation Analysis (optional)
- Support Digital Demodulation Analysis (optional)
- Support Real-time Spectrum Analysis
- Support IQ Analysis (optional)
- Support Vector Network Analysis
- 10.1 inch high-definition capacitive touch display

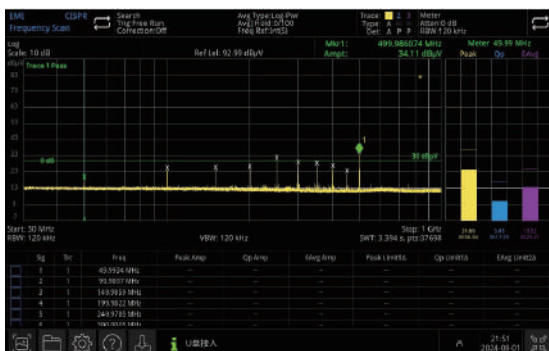
Spectrum/Signal Analyzers



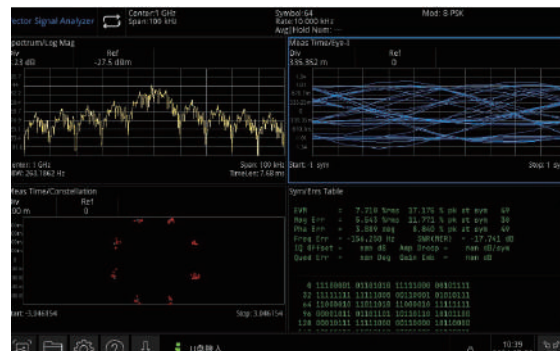
- Real-time spectrum mode, using density spectrograms for gapless spectrum display.



- Excellent selectivity.



- EMI pre-compliance



- Provide AM/FM/PM analog signal analysis; ASK/FSK/PSK/QAM/MSK/DPSK digital signal analysis and EVM calculation

Key Specifications	UTS3036A	UTS3060A	UTS3084A
Frequency range	9kHz-3.6 GHz	9kHz-6.0 GHz	9kHz- 8.4 GHz
Frequency resolution	1Hz	1Hz	1Hz
Sweep width range	0Hz,100Hz- 3.6GHz	0Hz,100Hz - 6.0GHz	0Hz,100Hz - 8.4GHz
Sweep accuracy	Swept: $\pm[0.25\% \times \text{span} + \text{span}/(\text{sweep point} - 1)]$		
	FFT: $\pm[0.10\% \times \text{span} + \text{span}/(\text{sweep point} - 1)]$		
Sweep time	Span = 0 Hz, 1 μ s to 4000 s; Span \neq 0 Hz, 1 ms to 4000 s		
Marker mode	Normal, Delta Δ , Fixed		
Marker function	Marker Noise, Band Power, Band Density, N dB, Counter		
RBW (-3 dB)	1 Hz - 10MHz (1-3-10 step)		
Video bandwidth (VBW)	1 Hz - 10MHz (1-3-10 step)		
Selectivity (-60 dB/-3 dB)	<4.8:1(Nominal) -60dB:-3dB		
Reference level	-100 dBm to +30 dBm, 1 dB Steps		
Preamplifier	+20 dBm nominal		
Input attenuator range	0 to 51 dB, 1 dB Steps		
Trace detectors	Sample, Peak, Negative, Normal, Average		
Trace type	Clear/Write, Average, Max Hold, Min Hold		
Scale units	dBm, dBmV, dB μ V, V, W		
Sweep (trace) point range	40001		
Tracking source	100 kHz - 3.6 GHz	100 kHz- 6 GHz	100 kHz- 6 GHz
Vector network analysis	S11, S21		
Advanced Measurement	Power Suite Measurement, Nonlinear Measurement, Spectrum Monitoring		
Modulation Analysis	AM Measurement, FM Measurement, PM Measurement		
Vector signal analysis	ASK: 2ASK, 4ASK, 8ASK, 16ASK FSK: 2FSK, 4FSK, 8FSK, 16FSK MSK: type1, type2 PSK: BPSK, QPSK, OQPSK, 8PSK, BPSK, QPSK, 8BPSK; DQPSK, D8PSK, $\pi/4$ -DQPSK, $\pi/8$ -D8PSK, OQPSK QAM: 16, 32, 64, 128, 256		
Real-time analysis bandwidth	10 MHz; 40 MHz		
Interface	RF input, TG Output, 10MHz reference IN, 10MHz reference OUT, External trigger input, HDMI, USB-Host, USB-Device, LAN, 3.5mm		

General Characteristics

Power	100-240V AC ($\pm 10\%$), 50Hz/60Hz 100 to 120 VAC (Fluctuations $\pm 10\%$) 400 Hz
Display	10.1" TFT LCD (1280x800) touch
Product size(WxHxD)	378mmx218mmx120mm
Product net weight	4.96 kg
Standard quantity per carton	1pc

Ordering Information

UTS3000A Series	UTS3084A: 8.4 GHz, 1Hz-10 MHz, -165 dBm,TG
	UTS3060A: 6 GHz, 1Hz-10 MHz, -165 dBm,TG
	UTS3036A: 3.6 GHz, 1Hz-10MHz, -165 dBm,TG
Standard Accessories	Power cord conforming to the standard of the destination country x1
	USB cable x1
Optional Accessories	UTS-CK01: UT-W02-6GHz x1, UT-W01-6GHz x1, UT-C02-4GHz x2, UT-C01-6GHz x2, UTS-T01 x2, UTS-T02 x2, Kit pouchx1
	UTS-EMI01: Frequency range: 30MHz - 3GHz; include 3 Pcs magnetic field near-field probes and 1 Pcs electric field near field probe; 1 Pcs SMB-SMA cable, 1 Pcs N-SMA adaptor
	UT-3009F/M:Feale-Male VNA Calibration Kit(9GHz)
	UT-W02-6GHz: N-SMA-JJ RF cable, DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-W01-6GHz: N-N-JJ RF cable, DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-C02-4GHz: N-BNC-JK adaptor, DC-4GHz VSWR≤1.15:1@4GHz IL≤0.2dB@4GHz
	UT-C01-6GHz: N-SMA-JK adaptor, DC-6GHz VSWR≤1.15:1@6GHz IL≤0.2dB@6GHz
	UTS-T01: Receiving antenna, working frequency 2400MHz-2500MHz, Gain<2dBi
	UTS-T02: Receiving antenna, working frequency 824MHz-960MHz, Gain<2dBi
Options	UTS3000A-EMI: EMI Measurement option for UTS3000Aseries
	UTS3000A-AMK: Advanced measurement kit for UTS3000A series
	UTS3000A-AMA: Analog demodulation measurement option for UTS3000A series
	UTS3000A-FDD-LTE: FDD-LTE demodulation analysis option for UTS3000A series
	UTS3000A-I/Q: I/Q Analyzer option for UTS3000A series
	UTS3000A-TDD-LTE: TDD-LTE demodulation analysis option for UTS3000A series
	UTS3000A-NR40: NR40 demodulation analysis option for UTS3000A series
	UTS3000A-B40: RTSA 40MHz analysis option for UTS3000A series
	UTS3000A-VSA: Digital demodulation analysis option for UTS3000A series

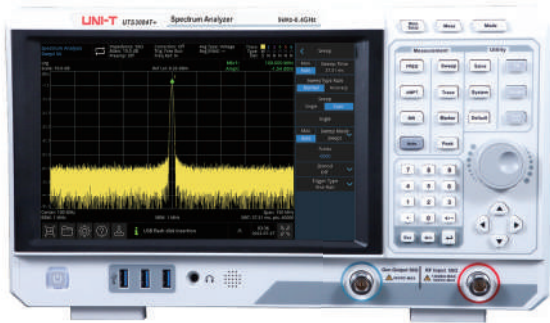
Spectrum/Signal Analyzers



UTS3000A Series

UTS3000T+ Series NEW

Spectrum/Signal Analyzers



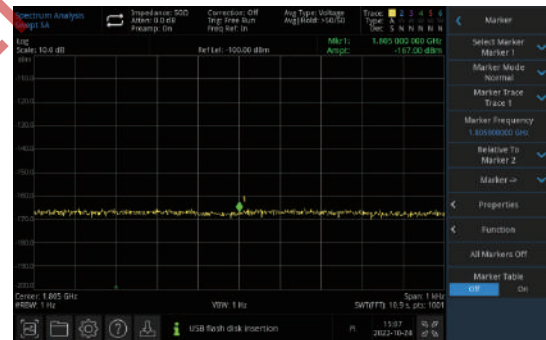
- Frequency measurement range: 9 kHz to 1.5GHz, 3.2 GHz, 3.6 GHz, 8.4 GHz
- Display average noise level can be as low as -161 dBm (typical value)
- Phase noise <-98 dBc/Hz (Offset 10 kHz, typical value)
- Full amplitude accuracy <0.7 dB
- Minimum resolution bandwidth (RBW) 1 Hz
- Advanced function one key measurement (optional)

The UTS3000T+ series are equipped with the tracking source function as standard. With proven all-digital technology and a resolution bandwidth of 1Hz to 3MHz, this series offers a wide range of analytical functions with 40,001 scanning points to better help you in your analysis work. The 10.1-inch touch screen of this spectrometer will bring you a better using experience. Compact and beautiful structural design, multiple ports, and support for common protocols provide convenience for automation and remote control. The UTS3000T+ series can be widely used in communications, semiconductors, computers, aerospace, defense, instrumentation, industrial electronics, consumer electronics, automotive electronics, field maintenance, R&D/education, and many other fields.

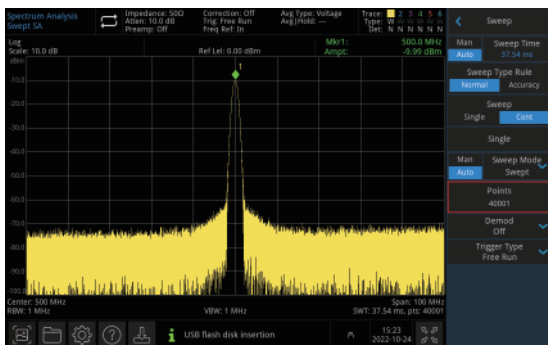
- EMI Pre-compliance analysis function (optional)
- Support analog demodulation analysis (optional)
- Support tracking source output function
- 10.1 inch 1280 x 800 HD capacitive touch screen



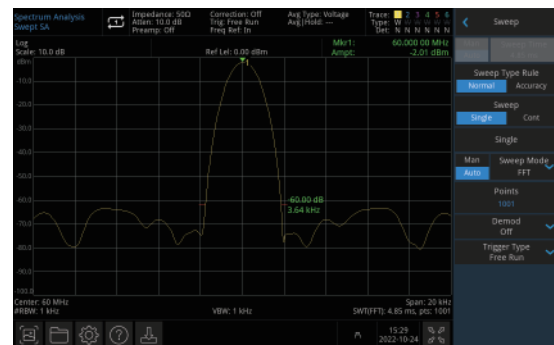
- Multi touch HD screen for quick operation



- Excellent sensitivity to test weaker signal



- 40,001 sweep points, providing higher frequency resolution

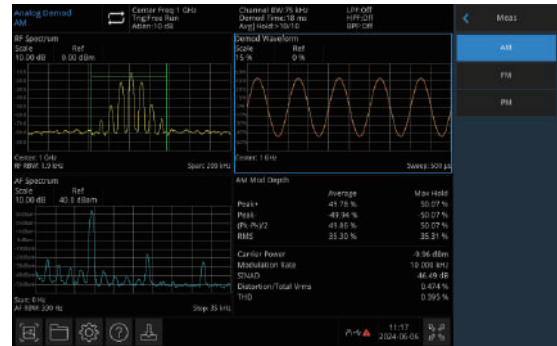


- Excellent selectivity

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● Optional EMI pre-compliance analysis function



● Provides demodulation analysis of AM, FM, PM analog signals

Key Specifications		UTS3015T+	UTS3032T+	UTS3036T+	UTS3084T+
Frequency range		9 kHz - 1.5 GHz	9 kHz-3.2 GHz	9 kHz-3.6 GHz	9 kHz-8.4 GHz
Frequency resolution		1Hz	1Hz	1Hz	1Hz
Sweep range		0Hz,100Hz- 1.5GHz	0Hz,100Hz - 3.2 GHz	0Hz,100Hz - 3.6GHz	0Hz,100Hz - 8.4GHz
Sweep accuracy		Swept $\pm[0.25\% \cdot \text{Span} + \text{Span}/(\text{Points}-1)]$ FFT $\pm[0.10\% \cdot \text{Span} + \text{Span}/(\text{Points}-1)]$			
Sweep time		1 ms to 4000 s (span \neq 0) 1 μ s to 4000 s (span = 0)			
Sweep mode		Swept, FFT			
Marker mode		Normal, Delta Δ , Fixed			
Marker function		Marker Noise, Band Power, Band Density, NdB, Counter			
RBW (-3 dB)		1 Hz-1 MHz, 1-3-10 steps		1 Hz-3 MHz, 1-3-10 steps	
Video bandwidth (VBW)		1 Hz-1 MHz, 1-3-10 steps		1 Hz-3 MHz, 1-3-10 steps	
Selectivity (-60 dB/-3 dB)		<4.8:1 (nominal)(-60dB:-3dB)		<4.8:1 (nominal)(-60dB:-3dB)	
Bandwidth accuracy (-3dB)		< 5% (nominal)		< 5% (nominal)	
Reference level		-100 dBm - +30 dBm, Steps 1 dB		-100 dBm - +30 dBm, Steps 1 dB	
Preamp		20 dB, Nominal	20 dB, Nominal	20 dB, Nominal	20 dB, Nominal
Input attenuator range		0-51 dB, 1 dB Steps	0-51 dB, 1 dB Steps	0-51 dB, 1 dB Steps	0-51 dB, 1 dB Steps
Maximum input DC voltage		50 V DC max	50 V DC max	50 V DC max	50 V DC max
Maximum continuous wave RF power		$\leq +33$ dBm 3 minute, Input attenuation >20 dB		$\leq +33$ dBm 3 minute, Input attenuation >20 dB	
Display log scale		1 dB to 200 dB	1 dB to 200 dB	1 dB to 200 dB	1 dB to 200 dB
Display linear scale		0 -Reference level	0 -Reference level	0 -Reference level	0 -Reference level
Scale units		dBm, dBmV, dBuV, V, W		dBm, dBmV, dBuV, V, W	
Sweep (trace) point range		10001		40001	
Number of traces		4		6	
Detection mode		Sample, Peak, Negative, Normal, Average		Sample, Peak, Negative, Normal, Average	
Trace Type		Clear/Write, Average, Max Hold, Min Hold		Clear/Write, Average, Max Hold, Min Hold	
Frequency re- sponse	Preamp Off	9 kHz to 3.2 GHz: ± 0.6 dB; ± 0.3 dB, Typical		9 kHz to 3.6 GHz: ± 0.6 dB; ± 0.3 dB, Typical 3.6 GHz to 8.4 GHz: ± 0.8 dB; ± 0.6 dB, Typical	
	Preamp On	100 kHz to 3.2 GHz: ± 1.0 dB ; ± 0.8 dB , Typical		100 kHz to 3.6 GHz: ± 1.0 dB ; ± 0.8 dB , Typical 3.6 GHz to 8.4 GHz: ± 1.2 dB ; ± 1.0 dB , Typical	

Key Specifications		UTS3015T+	UTS3032T+	UTS3036T+	UTS3084T+
Tracking generator	Frequency range	100kHz-1.5 GHz	10MHz-3.2 GHz	100kHz-3.6 GHz	100 kHz-6 GHz
	Output level range	-40 dBm-0 dBm		-40 dBm-0 dBm	
	Resolution	0.5 dB		0.5 dB	
	Flatness output	±3 dB		±3 dB	
Interface		RF input,Trace source output,10MHz reference input, 10MHz reference output,Ext Trigger,HDMI,USB host, USB device,LAN,Headphone Jack			

General Characteristics	
Power	100-240V AC, 50Hz/60Hz 100 to 120 VAC (Fluctuations±10%),400 Hz
Display	10.1" TFT LCD (1280x800) touch
Product size(W×H×D)	378 mm×218 mm×120 mm
Product net weight	4.55kg
Standard quantity per carton	1pc

Ordering Information	
UTS3000T+ Series	UTS3084T+: 8.4 GHz, 1Hz-3 MHz, -161 dBm,with built-in Tracking generator
	UTS3036T+: 3.6 GHz, 1Hz-3 MHz, -161 dBm,with built-in Tracking generator
	UTS3032T+: 3.2 GHz, 1Hz-1 MHz, -161 dBm,with built-in Tracking generator
	UTS3015T+: 1.5 GHz, 1Hz-1 MHz, -161 dBm,with built-in Tracking generator
Standard Accessories	Power cord conforming to the standard of the destination country ×1
	USB cable ×1
Optional Accessories	UT-CK01: accessories kit
	UT-W02-6GHz:N-SMA-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-W01-6GHz:N-N-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-C02-4GHz:N-BNC-JK adaptor,DC-4GHz VSWR≤1.15:1@4GHz IL≤0.2dB@4GHz
	UT-C01-6GHz:N-SMA-JK adaptor,DC-6GHz VSWR≤1.15:1@6GHz IL≤0.2dB@6GHz
	UTS-T01:Receiving antenna,working frequency 2400MHz-2500MHz,Gain<2dBi
	UTS-T02:Receiving antenna,working frequency 824MHz-960MHz,Gain<2dBi
	UTS-EMI01: Near-field probes kit
	BAG-B3:Soft carrying bag for UTS1000B and UTS3000B Series Spectrum Analyzers

Ordering Information

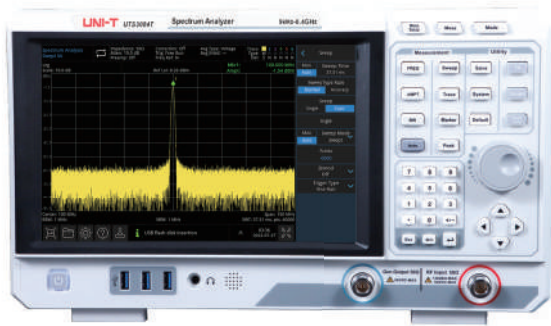
Options	UTS3000-AMK: Advanced measurement kit (For UTS3084T+, UTS3036T+)
	UTS3000-EMI: EMI measurement option (For UTS3084T+, UTS3036T+)
	UTS3000-AMA: Analog demodulation measurement option (For UTS3084T+, UTS3036T+)
	UTS1000-AMK: Advanced measurement kit (For UTS3032T+, UTS3015T+)
	UTS1000-EMI: EMI measurement option (For UTS3032T+, UTS3015T+)
	UTS1000-AMA: Analog demodulation measurement option (For UTS3032T+, UTS3015T+)



UTS3000T+ Series

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UTS3000B Series Spectrum/Signal Analyzers



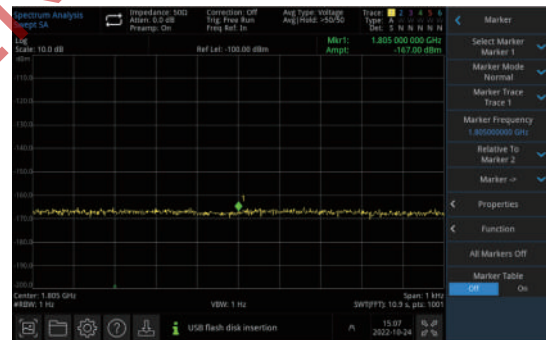
- Frequency measurement range: 9 kHz-2.1 GHz, 9 kHz-3.6 GHz, 9 kHz-8.4 GHz
- Display average noise level can be as low as -161 dBm/Hz (typical value)
- Phase noise < -98 dBc/Hz (Offset 10 kHz, typical value)
- Full amplitude accuracy < 0.7 dB
- Up to 40001 scanning points
- Minimum resolution bandwidth (RBW) 1 Hz

The UTS3000B series spectrum analyzer can measure frequencies up to 8.4GHz. It is a spectrum analyzer with wide frequency band coverage and superior performance. The series adopts mature all digital IF technology. It provides a variety of analysis functions, and up to 40001 scanning points, providing better help for your frequency domain analysis. This series of spectrum adopts a 10.1 inch large touch screen, which will bring you a better use experience. The UTS3000B series can be applied to functional/terminal/quality inspection tests in the electronics manufacturing industry, as well as wireless communication measurement, RF microwave courses, electromagnetic compatibility pre-scan, semiconductor measurement and many other application scenarios.

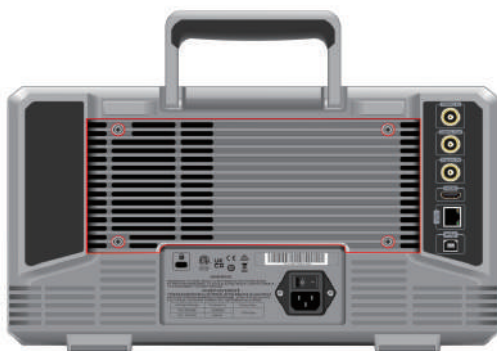
- Advanced function one key measurement (optional)
- EMI Pre-compliance analysis function (optional)
- Support analog demodulation analysis (optional)
- Support digital demodulation analysis (optional)
- Support tracking source output function (optional)
- 10.1 inch 1280 x 800 HD capacitive touch screen
- Provide USB/LAN interface, support SCPI protocol



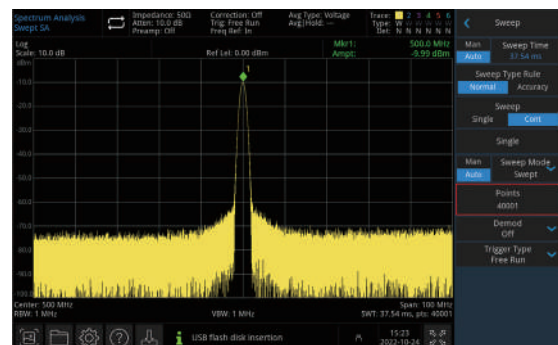
- Multi touch HD screen for quick operation



- Excellent sensitivity to test weaker signals



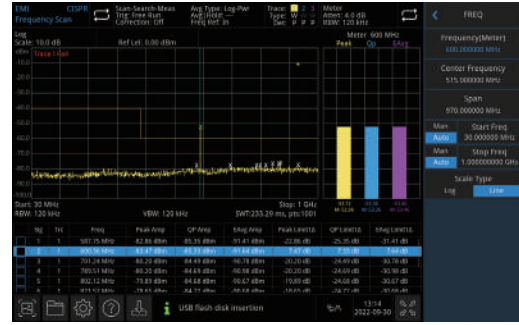
- Removable dust mesh



- Scan 40001 points



● Excellent selectivity



● EMI pre-compliance

Key Specifications	UTS3021B	UTS3036B	UTS3084B	UTS3084T
Frequency range	9 kHz-2.1 GHz	9 kHz-3.6 GHz	9 kHz-8.4 GHz	9 kHz-8.4 GHz
Frequency resolution	1Hz	1Hz	1Hz	1Hz
Sweep width range	0Hz,100Hz-2.1GHz	0Hz,100Hz-3.6GHz	0Hz,100Hz-8.4GHz	0Hz,100Hz-8.4GHz
Sweep accuracy	Swept $\pm[0.25\% \cdot \text{Span} + \text{Span} / (\text{Points} - 1)]$ FFT $\pm[0.10\% \cdot \text{Span} + \text{Span} / (\text{Points} - 1)]$			
Sweep time	1 ms to 4000 s (span \neq 0) 1 μ s to 4000 s (span = 0)			
Sweep mode	Swept, FFT			
Marker mode	Normal, Delta Δ , Fixed			
Marker function	Marker Noise, Band Power, Band Density, NdB, Counter			
RBW (-3 dB)	1 Hz-3 MHz, 1-3-10 steps			
Video bandwidth (VBW)	1 Hz-3 MHz, 1-3-10 steps			
Selectivity (-60 dB/-3 dB)	<4.8:1 (nominal) (-60dB/-3dB)			
Bandwidth accuracy (-3dB)	< 5% (nominal)			
Reference level	-100 dBm - +30 dBm, Steps 1 dB	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB
Preamp	20 dB, Nominal, 9 kHz to 2.1 GHz (3.6 GHz, 8.4 GHz)	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB
Input attenuator range	0-51 dB, 1 dB Steps	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB
Maximum input DC voltage	50 V DC max			
Maximum continuous wave RF power	\leq +33 dBm 3 minute, Input attenuation >20 dB			
Display log scale	1 dB to 200 dB			

Key Specifications		UTS3021B	UTS3036B	UTS3084B	UTS3084T
Display linear scale		0 -Reference level			
Scale units		dBm,dBmV,dBuV,V,W			
Sweep (trace) point range		40001			
Number of traces		6			
Detection mode		Sample,Peak,Negative,Normal,Average			
Trace Type		Clear/Write,Average,Max Hold,Min Hold			
Frequency response	Preamp Off	9 kHz to 3.6 GHz:±0.6 dB;±0.3 dB,Typical 3.6 GHz to 8.4 GHz:±0.8 dB;±0.6 dB,Typical			
	Preamp On	100 kHz to 3.6 GHz:±1.0 dB ; ±0.8 dB ,Typical 3.6 GHz to 8.4 GHz:±1.2 dB ; ±1.0 dB ,Typical			
RBW switching uncertainty		Relative to 10 kHz RBW logarithmic resolution ± 0.2 dB, linear resolution ± 0.01,Nominal			
Input attenuation switching uncertainty		±0.5 dB(20 -30 ° C,fc=50 MHz, Preamp Off, Relative to 20 dB attenuation, Input attenuation 1-51 dB)			
Absolute amplitude accuracy	Preamplifier off	±0.4 dB,Input signal level -20dBm (20° C -30° C,fc=50 MHz,RBW=1 kHz,VBW=1 kHz,peak detector,attenuation input 20 dB)			
	Preamplifier on	±0.5 dB,Input signal level -40dBm (20° C -30° C,fc=50 MHz,RBW=1 kHz,VBW=1 kHz,peak detector,attenuation input 20 dB)			
Total absolute amplitude accuracy		±(0.4 dB+frequency response)(20° C -30° C,fc>100 kHz,Input signal level -50 dBm-0 dBm,RBW=1 kHz,VBW=1 kHz,Peak detection,Input attenuation 20dB,Preamplifier off,95% Confidence)			
Input voltage standing wave ratio(VSWR)		<1.8 dB,(nominal)			
Tracking source	Frequency range	100 kHz-2.1 GHz(Optional)	100 kHz-3.6 GHz(Optional)	no	100 kHz-6 GHz
	Output level range	-40 dBm-0 dBm			
	Resolution	0.5 dB			
	Flatness output	±3 dB			
Interface		Trace source output,10MHz reference input, 10MHz reference output,Ext Trigger,HDMI,USB host,USB device,LAN			

General Characteristics

Power	100-240V AC, 50Hz/60Hz
Display	10.1" TFT LCD (1280x800) touch
Product size(W×H×D)	378 mm×218 mm×120 mm
Product net weight	4.55kg
Standard quantity per carton	1pc

Ordering Information

UTS3000B Series	UTS3084T: 8.4 GHz, 1Hz-3 MHz, -161 dBm/Hz,with built-in Tracking generator
	UTS3084B: 8.4 GHz, 1Hz-3 MHz, -161 dBm/Hz
	UTS3036B: 3.6 GHz, 1Hz-3 MHz, -161 dBm/Hz
	UTS3021B: 2.1 GHz, 1Hz-3 MHz, -161 dBm/Hz
Standard Accessories	Power cord conforming to the standard of the destination country x1
	USB cable x1
Optional Accessories	UT-CK01: accessories kit
	UTS-EMI01: Near-field probes kit
Optional	UTS3000-AMK: Advanced measurement kit
	UTS3000-EMI: EMI measurement option
	UTS3000-AMA: Analog demodulation measurement option
	UTS3000-TG: Tracking generator options

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UTS3000B Series

UTS1000B Series Spectrum/Signal Analyzers



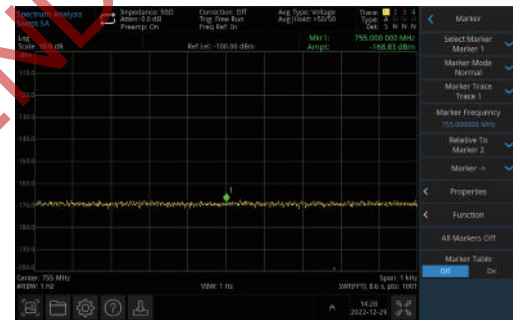
- Frequency range:9kHz-3.2GHz
- Resolution bandwidth:1Hz-1MHz
- Tracking source:100kHz-3.2GHz
- DANL:-161dBm
- Phase noise:<-98dBc/Hz(1GHz,typ.)

The UTS1000B series spectrum analyzer can measure frequencies up to 3.2GHz. It is a spectrum analyzer with wide frequency band coverage and superior performance. The series adopts mature all digital IF technology. It provides a variety of analysis functions, and up to 10001 scanning points , providing better help for your frequency domain analysis. This series of spectrum adopts a 10.1 inch large touch screen, which will bring you a better use experience. The UTS1000B series is ideal for communication, semiconductor, computer, instrumentation, industrial electronics, consumer electronics, automotive electronics, field maintenance, R & D / education and other fields.

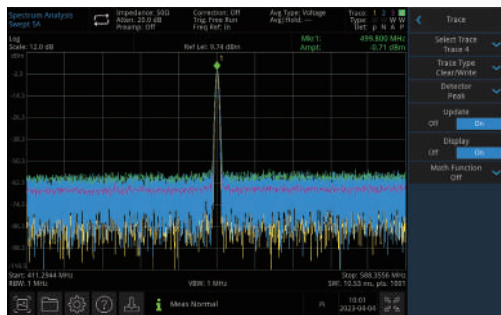
- Number of scanning points displayed:10001
- Analysis functions: EMI analysis, advanced measurement, analog demodulation analysis, digital demodulation analysis
- Display: 10.1" TFT LCD (1280x800) touch screen
- Interface:HDMI,USB host,USB device,LAN,3.5mm audio



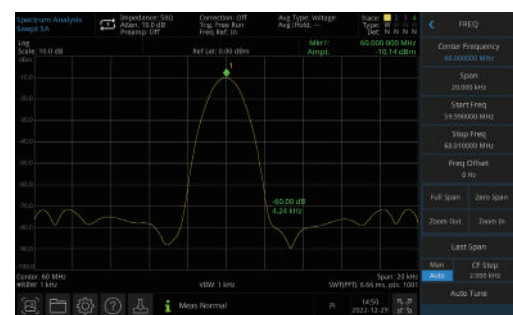
- 4 traces



- DANL <-161dBm



- Rich detector functions



- Excellent selectivity

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Key Specifications		UTS1015B	UTS1015T	UTS1032B	UTS1032T
Frequency range		9 kHz-1.5 GHz	9 kHz-1.5 GHz	9 kHz-3.2 GHz	9 kHz-3.2 GHz
Frequency resolution		1Hz	1Hz	1Hz	1Hz
Sweep width range		0Hz,100Hz-1.5GHz	0Hz,100Hz-1.5GHz	0 Hz,100 Hz-3.2GHz	0 Hz,100 Hz-3.2GHz
Sweep time		1 ms to 4000 s(span ≠ 0) 1 μs to 4000 s(span= 0)			
Sweep mode		Swept(1 kHz - 1 MHz),FFT(1 Hz - 30 kHz)			
Marker mode		Normal, Delta Δ, Fixed			
Marker function		Marker Noise,Band Power,Band Density,NdB,Counter			
RBW (-3 dB)		1 Hz-1 MHz,1-3-10 steps			
Video bandwidth (VBW)		1 Hz-1 MHz,1-3-10 steps			
Selectivity (-60 dB/-3 dB)		<4.8:1 (nominal)(-60dB:-3dB)			
Bandwidth accuracy (-3dB)		< 5% (nominal)			
Reference level		-100 dBm - +30 dBm,Steps 1 dB			
Preamp		20 dB,nominal value,9 kHz-1.5 GHz(3.2G)			
Input attenuator range		0-51dB,1 dB steps			
Maximum input DC voltage		50 V DC max			
Maximum continuous wave RF power		≤±33 dBm,3 minute,Input attenuation >20 dB			
Display log scale		1 dB-200 dB			
Display linear scale		0 -Reference level			
Scale units		dBm,dBmV,dBμV,V,W			
Sweep (trace) point range		10001			
Number of traces		4			
Detection mode		Sample,Peak,Negative,Normal,Average			
Trace Type		Clear/Write,Average,Max Hold,Min Hold			
Frequency response	Preamplifier off	±0.6 dB; ±0.3 dB,Typical (20°C -30°C,30%-70% relative humidity,Input attenuation 20 dB,be relative to50MHz)			
	Preamplifier on	±1.0 dB; ±0.8 dB,Typical (20°C -30°C,30%-70% relative humidity,Input attenuation 20 dB,be relative to50MHz)			
RBW switching uncertainty		Relative to 10 kHz RBW logarithmic resolution ± 0.2 dB, linear resolution ± 0.01,Nominal			
Input attenuation switching uncertainty		±0.5 dB(20°C -30°C,fc=50 MHz,Preamp Off, Relative to 20 dB attenuation, Input attenuation 1-51 dB)			
Total absolute amplitude accuracy		±(0.4 dB+ Frequency response) (20-30 °C, Fc>100 kHz, Input signal level-50 dBm-0 dBm, RBW=1kHz, VBW=1 kHz, Peak detectors, Input attenuation 20 dB, Preamp Off, 95% confidence)			
Input voltage standing wave ratio(VSWR)		≤1.8,(Nominal)	≤1.8,(Nominal)	≤1.8,(Nominal)	≤1.8,(Nominal)

Key Specifications		UTS1015B	UTS1015T	UTS1032B	UTS1032T
Tracking source	Frequency range	/	100 kHz-1.5GHz	/	10MHz-3.2 GHz
	Output level range	/	-40 dBm-0 dBm	/	-40 dBm-0 dBm
	Resolution	/	0.5 dB	/	0.5 dB
	Flatness output	/	±3 dB	/	±3 dB
Interface	Trace source output,10MHz reference input, 10MHz reference output,Ext Trigger,HDMI,USB host,USB device,LAN,3.5mm				
Interface	Trace source output,10MHz reference input, 10MHz reference output,Ext Trigger,HDMI,USB host,USB device,LAN,3.5mm				

General Characteristics	
Power	100-240V AC, 50Hz/60Hz
Display	10.1" TFT LCD (1280x800) touch
Product size(W×H×D)	368 mm×218 mm×120 mm
Product net weight	4.5kg
Standard quantity per carton	1pc

Ordering Information	
UTS1000B Series	UTS1032T:3.2GHz,TG,1Hz-1 MHz, -161 dBm, with tracking generator
	UTS1032B:3.2GHz, 1Hz-1 MHz, -161 dBm
	UTS1015T:1.5GHz,TG,1Hz-1 MHz, -161 dBm, with tracking generator
	UTS1015B:1.5GHz, 1Hz-1 MHz, -161 dBm
Standard Accessories	Power cord conforming to the standard of the destination country
	USB cable x1
Optional Accessories	UT-CK01: accessories kit
	UT-W02-6GHz:N-SMA-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-W01-6GHz:N-N-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-C02-4GHz:N-BNC-JK adaptor,DC-4GHz VSWR≤1.15:1@4GHz IL≤0.2dB@4GHz
	UT-C01-6GHz:N-SMA-JK adaptor,DC-6GHz VSWR≤1.15:1@6GHz IL≤0.2dB@6GHz
	UTS-T01:Receiving antenna,working frequency 2400MHz-2500MHz,Gain<2dBi
	UTS-T02:Receiving antenna,working frequency 824MHz-960MHz,Gain<2dBi
	UTS-EMI01: Near-field probes kit
	BAG-B3:Soft carrying bag for UTS1000B and UTS3000B Series Spectrum Analyzers
Options	UTS1000-AMK: Advanced measurement kit
	UTS1000-EMI: EMI measurement option
	UTS1000-AMA: Analog demodulation measurement option

Ordering Information

Options	UTS1000-AMK: Advanced measurement kit
	UTS1000-EMI: EMI measurement option
	UTS1000-AMA: Analog demodulation measurement option



UTS1000B Series

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Power Supplies and Sources

DC Power Supplies

Selection Guide

Series	Model	Channel	Output Voltage	Output Current	Max Power	Resolution	Name
UDP4000S	UDP4303S	4	0-32V(CH1,CH2), 0-15V(CH3),0-6V(CH4)	0-3A(CH1,CH2,CH3) 0-10A(CH4)	297W	1mV/1µA	Programmable Linear DC Power Supply
UDP3000S	UDP3305S	4	0-30V(CH1,CH2) 0-6V(CH3)5V(CH4)	0-5A(CH1,CH2) 0-3A(CH3)2A(CH4)	328W	1mV1mA	
	UDP3305S-E					10mV1mA	
UDP3000	UDP3305C	4	0-30V(CH1,CH2) 1.8V/2.5V/3.3V/5V(CH3) 5V(CH4)	0-5A(CH1,CH2) 0-3A(CH3) 2A(CH4)	325W	10mV1mA	
	UDP3303C					0-3A(CH1,CH2) 0-3A(CH3) 2A(CH4)	
	UDP3303A						
UDP1000	UDP 1306C	2	0-32V(CH1);5V(CH2)	0-6A(CH1);2A(CH2)	202W	10mV1mA	
UDP6900	UDP6953B	1	0-150V	0-10A	600W	1mV(<100V) 10mV(>100V) 0.1mA	
	UDP6952B			0-25A		0.1mV(<10V) 0.1mA(<10A) 1mV(>10V) 1mA(>10A)	
	UDP6942B		0-60V	0-15A	360W		
	UDP6933B		0-150V	0-5A	200W	1mV(<100V) 10mV(≥100V) 0.1mA	
	UDP6932B		0-60V	0-10A			
	UDP6922B		0-60V	0-5A	100W		
UDP6720	UDP6724	1	0-80V	0-40A	1500W	10mV/10mA	
	UDP6723			0-20A	850W		
	UDP6722			0-20A	400W		
UDP6700	UDP6731	1	0-80V	0-15A	360W	10mV1mA	
	UDP6730			0-30A			
	UDP6721		0-60V	0-8A	180W		
	UDP6720		0-60V	0-5A	100W		
UTP3000-II	UTP3305- II	3	0-30V(CH1,CH2) 5V(CH3)	0-5A(CH1,CH2) 3A(CH3)	315W	10mV1mA	
	UTP3303- II			0-3A(CH1,CH2) 3A(CH3)	195W		
UTP3300TFL- II	UTP3315TFL- II	1	0-30V	0-5A	160W	10mV1mA	
	UTP3313TFL- II			0-3A	96W		
UTP1000	UTP1310	1	0-32V	0-10A	320W	10mV1mA	
	UTP1306			0-6A	192W		

Accessories

Model	Picture	Information	Certification	DC Power Supplies Series
UT-L0615-00		Double O type terminal 60A/1.5m power supply/electronic load test wire,Length: 1.5m, Wire diameter: 6.8mm,Max current: 60A, Terminal: O type-O type,Color: red and black	ROW	UDP4000S;UDP3000S; UDP6900;UDP6720; UDP6700;
UT-L0110-BU		Fold insert-U type terminal 10A/1m power supply/electronic load test wire,Length: 1m, Wire diameter: 3.6mm,Max current: 10A, Terminal: Fold insert-U type, Color: red and black		UDP4000S;UDP3000S; UDP6900;UDP6720; UDP6700;
UT-L0312-UU		Double U-type terminal 30A/1.2m power supply/electronic load test wire Length: 1.2m,Wire diameter: 5.4mm, Max current: 30A,Terminal: double U-type, Color: red and black		UDP4000S;UDP3000S; UDP6900;UDP6720; UDP6700;
UT-L0320-UU		Double U-type terminal 30A/2m power supply/electronic load test wire Length: 2m,Wire diameter: 5.4mm, Max current: 30A,Terminal: double U-type, Color: red and black		UDP4000S;UDP3000S; UDP6900;UDP6720; UDP6700;
UT-L0110-BB		Double Fold insert 10A/1m power supply/electronic load test wire, Length: 1m,Wire diameter: 3.6mm, Max current: 10A,Terminal: Fold insert- Fold insert,Color: red and black		UDP4000S;UDP3000S; UDP6900;UDP6720; UDP6700;
UTE-L16C		1m/16A alligator clip test wire, Wire diameter: 3.6mm,Length:1m, Rated voltage:220V,Rated current: 16A,Color: red and black		UDP4000S;UDP3000S; UDP6900;UDP6720; UDP6700;

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UDP4303S Series NEW

Programmable Linear Power Supplies



- 4-channel isolation
- 4.3-inch true color LCD
- One-touch series and parallel output
- Waveform measurement and display
- 8 kSa/s high speed sampling
- Fast transient response time: <math>< 50 \mu\text{s}</math>
- 2-wire or 4-wire remote sense

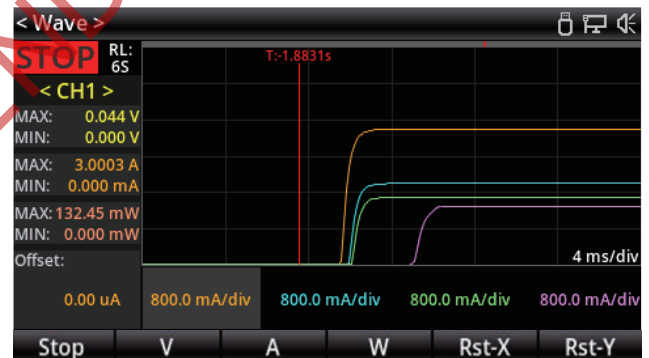
UDP4303S programmable linear DC power supply features two 32V/3A outputs, one 15V/3A output, and one 6V/10A output. It offers extremely low load regulation and low ripple noise output, with each channel isolated from the others. All four channels support remote sensing (4-wire) function. Channels 1 and 2 support internal series and parallel connections, making the device suitable for a wide range of applications.

- List and delayer support up to 512 outputs with minimum programming time of 1 ms
- Command processing time <math>< 10 \text{ ms}</math>
- Supports auto range test for large and small currents
- Web control and host computer control
- Multi-protection: OVP/OCP/OTP/sense protection, fast over-current
- protection time can be set (0ms-1000ms adjustable).

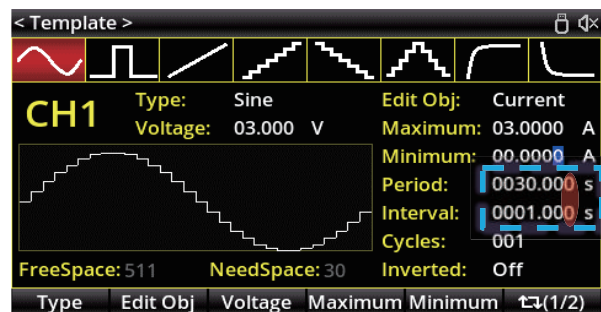
Power Supplies and Sources



- Current resolution up to 1 μA , small current mode supported on all four channels.



- 8kSa/s current Sample rate. Four-channel current high-speed sampling. Accurately captures and displays transient changes.



- Programming time resolution up to 1ms, more refined output for diverse arbitrary waveforms. 100 times the resolution of previous generation power supplies.

LIST:CH1	Running	No.	Volt(V)	Curr(A)	Time(s)
0000.319 s					
		002	3.000	1.8119	1.000
		003	3.000	2.1101	1.000
		004	3.000	2.3817	1.000
		005	3.000	2.6147	1.000
		006	3.000	2.7990	1.000
		007	3.000	2.9266	1.000
		008	3.000	2.9918	1.000

- List, Delayer, Monitor, Trigger, Recorder. Help you automate tests, monitor and protect intelligently, and record the data you care about.



● Independent, series and Parallel operation can be easily realized through the menu. Strong performance even when connected in series and parallel.



● Four-channel full isolation. Isolation without crosstalk, comfort and safety.

Key Specifications		UDP4303S
Output voltage		CH1&CH2:0-32V;CH3:0-15V;CH4:0-6V
Output current		CH1&CH2:0-3A;CH3:0-3A;CH4:0-10A
Output power		297W
Load regulation	CV	≤0.01%+2mV
	CC	≤0.01%+250UA
Line regulation	CV	≤0.01%+2mV
	CC	≤0.01%+250UA
Resolution	Voltage	1 mV
	Current	0.1mA (1uA in small current mode)
Programming accuracy	Voltage	CH1-CH3:±(0.03%+8mV)/CH4:±(0.04%+4mV)
	Current	CH1-CH3:±(0.15%+5mA)/CH4:±(0.15%+10mA)
Readback accuracy	Voltage	CH1-CH3:±(0.03%+8mV)/CH4:±(0.08%+3mV)
	Current	CH1-CH3:±(0.15%+5mA)/CH4:±(0.15%+10mA)
Ripple and noise	Voltage	<350μVrms /2mVpp(20Hz-20MHz)
	Current	≤2mArms
Programming time resolution		1ms
Current Sample rate		8ksa/s
Standard interfaces		USB Host,USB Device,LAN,RS232,Digital IO

General Characteristics

Power	AC 100V/120V/220V/230V 10% 50/60Hz
Display	4.3inch LCD
Product net weight	10.5kg
Product size (W×H×D)	225mm × 159.6mm × 445mm
Standard quantity per carton	1pcs
Standard carton size	590mm×345mm×295mm

Ordering Information

UDP4000S Series	UDP4303S:Programmable Linear DC Power Supply (4-Channel, 297W)
Standard Accessories	Power cord conforming to the standard of the destination country
	USB interface cable



UDP4303S Series

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UDP3000/S Series

Programmable Linear Power Supplies



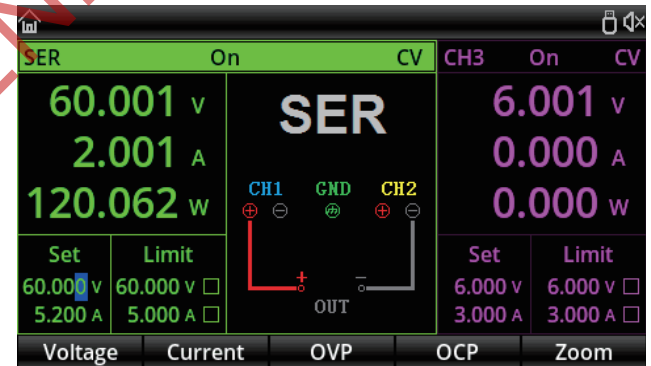
- Maximum power up to 328W
- Four channel independent output:
CH1/CH2: 0-30V/5A, CH3: 0-6V/3A, CH4: 5V/2A
- Multiple protection: OCP/OVP/OTP
- Excellent load regulation and line regulation
- Ultra low output ripple and noise
- Support one key serial and parallel output function
- The 4.3-inch TFT display can display three channels and multiple parameters at the same time
- List / delayer function to control voltage and current output as required
- External trigger function to realize industrial automation control

UDP3000S series is a high-performance programmable linear DC power supply. It has a clear LCD user interface, excellent performance indicators, a variety of analysis functions and communication interfaces. It can meet the diversified test needs of users. It aims to provide cost-effective DC programmable power supply equipment for teaching, scientific research, industry and other fields.

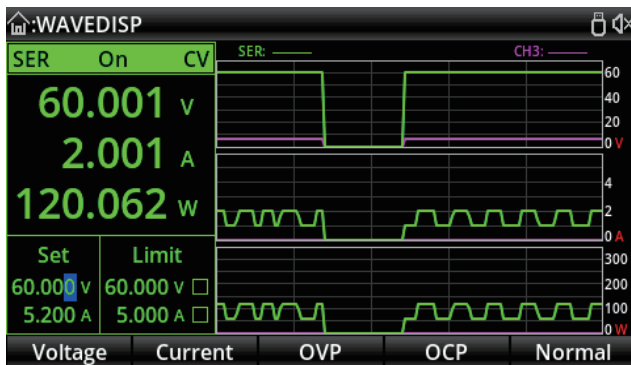
- Provide USB host, USB device, LAN, RS232, digital IO and other interfaces
- With waveform display function, real-time and dynamic display of output voltage / current / power waveform
- Intelligent speed control of fan can effectively reduce fan noise during operation
- Support 10 groups of file storage and transfer out, and support USB FLASH read and write
- High precision display of five-digit voltage / four-digit current, with resolutions of 10mV / 1mA and 1mV / 1mA
- Keyboard lock function to prevent misoperation
- Support SCPI remote command control



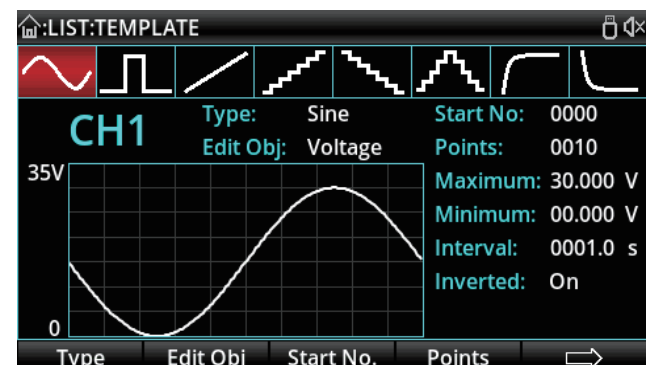
- 4.3 inch TFT LCD provides a human-computer interaction interface with rich functions and simple operation.



- One key series parallel connection provides you with a wider working range of power supply.



- With waveform display function, it can intuitively display the change trend of voltage, current and power.



- Unique list and delayer functions provide convenience for automatic test.

Key Specifications		UDP3303A	UDP3303C	UDP3305C	UDP3305S-E	UDP3305S
Output voltage		0-30V(CH1/CH2);1.8V/2.5V/3.3V/5V(CH3); 5V			0-30V(CH1/CH2);0-6V(CH3);5V(CH4)	
Output current		0-3A(CH1/CH2);3A(CH3) ;2A(CH4)		0-5A(CH1/CH2); 3A(CH3) ;2A(CH4)	0-5A(CH1/CH2);0-3A(CH3);2A(CH4)	
Output power		205W		325W	328W	
Load regulation	CV	≤0.01%+3mV(≤3A);≤0.02%+5mV(>3A)			≤0.01%+2mV	
	CC	≤0.2%+3mA			≤0.01%+250μA	
Line regulation	CV	≤0.01%+3mV	≤0.01%+3mV		≤0.01%+2mV	
	CC	≤0.2%+3mA	≤0.2%+3mA		≤0.01%+250μA	
Resolution	Voltage	10mV			10mV	1mV
	Current	1mA			1mA	1mA
Programming accuracy	Voltage	≤0.1%+30mV	≤0.1%+30mV	±(0.1% of reading+30mV)	±(0.3%+20mV)	±(0.03%+10mV)
	Current	<0.5%+2mA	≤0.5%+2mA	±(0.3% of reading+5mA)	±(0.2%+5mA)	±(0.2%+5mA)
Readback accuracy	Voltage	≤0.1%+30mV	≤0.1%+30mV		±(0.1%+20mV)	±(0.03%+10mV)
	Current	≤0.5%+2mA	≤0.5%+2mA		±(0.15%+5mA)	±(0.15%+5mA)
Ripple and noise	Voltage	≤ 1mVrms	≤ 1mVrms		< 350μVrms/2mVpp(5Hz-1MHz)	
	Current	≤ 3mA _{rms}	≤ 3mA _{rms}		≤2mA _{rms}	
Temperature coefficient		≤ 300ppm			Voltage: 0.01%+5mV; Current: 0.01%+2mA	
Parallel load regulation		≤0.01%+3mV(≤3A); ≤0.02%+5mV(>3A)	≤0.01%+3mV(≤3A); ≤0.02%+5mV(>3A)	≤0.01%+3mV	≤0.01%+2mV	≤0.01%+2mV
Parallel line regulation		≤0.01%+3mV	≤0.01%+3mV		≤0.01%+2mV	≤0.01%+2mV
Series load regulation		≤300mV				
Series line regulation		≤0.01%+5mV			≤0.01%+3mV	
Standard interfaces		USB Host (5V/2A, charging port only), Digital I/O	USB Host (5V/2A, charging port only), USB Device, RS-232,Digital I/O		USB Host (5V/2A, charging port only),USB Host USB Device, LAN,RS-232,Digital IO	

General Characteristics		
Power	UDP3303A/UDP3303C:AC110V/120V/220V/230V ±10%, 50Hz/60Hz UDP3305C/UDP3305S-E/UDP3305S:AC100V/120V/220V/230V±10%, 50Hz/60Hz	AC 100V/120V/220V/230V±10%, 50Hz/60Hz
Display	EBTN LCD	
Product net weight	8.5kg	10kg
Product size (W×H×D)	240mm×168mm×355mm	
Standard quantity per carton	1pcs	
Standard carton size	455mm x 365mm x 300mm	
Standard carton gross weight	UDP3000S:10.5kg,UDP3000:11.4kg	

Ordering Information

UDP3000/S Series	UDP3305S: Programmable Linear DC Power Supply (4-Channel, 30V, 5A)
	UDP3305S-E: Programmable Linear DC Power Supply (4-Channel, 30V, 5A)
	UDP3305C: Programmable Linear DC Power Supply (3-Channel, 30V, 5A)
	UDP3303C: Programmable Linear DC Power Supply (3-Channel, 30V, 3A)
	UDP3303A: Non-Programmable Linear DC Power Supply (3-Channel, 30V, 3A)
Standard Accessories	Power cord conforming to the standard of the destination country
	USB interface cable (programmable models only)
Optional Accessories	Alligator clip test line: 1 pair



UDP3000S Series



UDP3000 Series

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UDP1000 Series

Programmable Linear Power Supplies



UDP1306C is a single-channel programmable linear DC power supply, a basic power product designed by users of a smaller size and high reliability power supply. It has low ripple noise, fast transient response, excellent power supply and load regulation and other characteristics. Powerful output function and complete protection function.

- High precision 4-digit display
- Over voltage/current/temperature protection
- Output voltage/current setting viewable
- Shutdown memory/keyboard lock
- Intelligent cooling fan
- USB charging interface
- USB device communication, RS232 program-controlled communication interface
- Remote control (Output ON/OFF)
- 5 sets of setup storage: M1-M5



- Single output 32V/6A and USB charging interface 5V/2A

- 5 sets of setup storage: M1-M5



- Over voltage/current/temperature protection

- With RS232 and USB communication interface function

Key Specifications		UDP1306C
Output voltage		CH1:0-32A, CH2:5V
Output current		CH1: 0-6A;CH2: 2A
Output power		202W
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
Line regulation	Voltage	<0.01%+3mV
	Current	<0.1%+3mA
Program- ming accuracy (25° C±5° C)	Voltage	<0.5%+20mV
	Current	<0.5%+10mA
Ripple and noise (20Hz-20MHz)	Voltage	≤2mVrms
	Current	≤3mArms
Temperature coefficient		Current/Voltage: ≤300ppm/° C
Voltage rising/falling time delay		≤100ms (10% rated load)
Standard interfaces		USB (5V/2A), USB Device, RS-232

General Characteristics	
Power	AC 100V/120V/220V/230V±10%, 50Hz/60Hz
Display	EBTN LCD
Product net weight	7.5kg
Product size (W×H×D)	136mm x 194mm x 327mm
Standard quantity per carton	1pcs
Standard carton size	505mm x 270mm x 335mm
Standard carton gross weight	9.6kg

Ordering Information

UDP1000 Series	UDP1306C:Programmable Linear DC Power Supply (1-Channel, 32V, 6A)
Standard Accessories	International standard power cord
	USB interface cable
	Alligator clip test line
Optional Accessories	RS232 Communication line

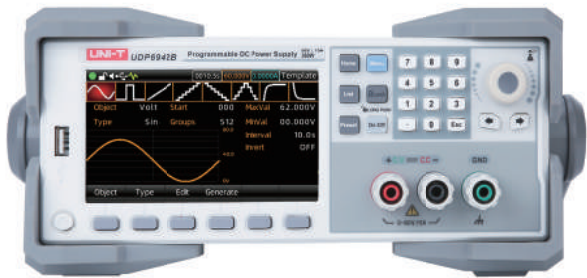


UDP1000 Series

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UDP6900 Series NEW

Programmable Switching Power Supplies



The UDP6900 series are single-channel programmable DC power supplies. This series of power supplies can realize combined output of various voltages and currents under fixed power. A single power supply can meet the test of high-voltage low-current and high-current low-voltage two DUTs, which greatly saves your cost and space. UDP6900 series is equipped with standard RS232, LAN, USB and analog interfaces, supports SCPI protocol, and is convenient for remote control, industrial PLC control and building an intelligent test platform. Widely used in DC-DC power modules, battery charging and sensors and other testing fields.

- 4.3 TFT true color LCD
- High accuracy and high resolution
- List and delayer
- Can set timing output, time 0.1-99999.9 s
- Intelligent fan control
- Remote compensation function
- Front and rear panel dual outputs
- RS232, RS485, USB, LAN multiple communication interfaces.
- Support SCPI protocol and Modbus RTU dual protocol

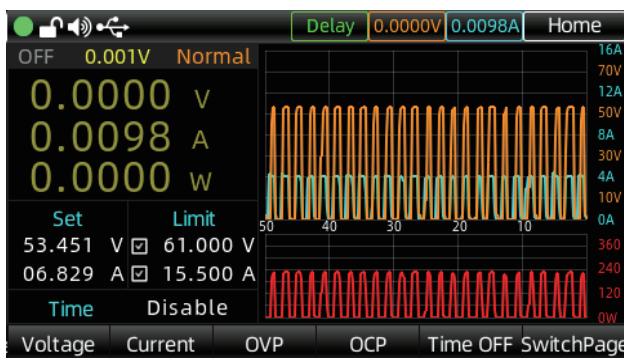
- External Analog Control vs. External Digital Control
- Built-in 4.5-digit digital voltmeter for convenient external measurement
- Multiple protections: over-temperature, over-power protection, over-voltage and over-current protection values can be set
- Support 18x8 group preset saving and recall
- High power factor, small harmonic interference to the power grid
- Waveform display output trend
- LAN interface supports web remote control



● 4.3inch TFT LCD display, display more content

No	Voltage	Current	keepT
24	39.999	02.903	0.1
25	40.362	02.929	0.1
26	40.724	02.956	0.1
27	41.084	02.982	0.1
28	41.443	03.008	0.1
29	41.801	03.034	0.1
30	42.156	03.060	0.1
31	42.511	03.085	0.1

● List function provides 512 steps of automated test steps



● Waveform display can visually show the change trend of voltage, current and power

No	Voltage	Current	OVP(V)	OCP(A)	TimeOff(s)
0	12.000	03.000	13.000✓	00.000✗	00100.0✓
1	24.000	01.000	00.000✗	00.800✓	00000.0✗
2	05.000	02.000	05.500✓	02.500✓	00000.0✗
3	03.300	02.000	00.000✗	00.000✗	00010.0✓
4	01.800	00.500	00.000✗	00.000✗	00000.0✗
5	00.900	01.000	00.000✗	01.200✓	00000.0✗
6	36.000	05.000	00.000✗	00.000✗	00000.0✗
7	48.000	06.000	50.000✓	07.000✓	00200.0✓

● Commonly used settings can use the preset function to improve test efficiency

Key Specifications		UDP6922B	UDP632B	UDP6942B	UDP6933B	UDP6952B	UDP6953B
Output voltage		0-60V	0-60V	0-60V	0-150V	0-60V	0-150V
Output current		0-5A	0-10A	0-15A	0-5A	0-25A	0-10A
Output power		100W	200W	360W	200W	600W	600W
Load regulation	CV	≤0.01%+3mV	≤0.01%+10mV	≤0.01%+30mV	≤0.01%+20mV	≤0.01%+30mV	≤0.01%+25mV
	CC	≤0.05%+2mA	≤0.05%+4mA	≤0.05%+6mA	≤0.01%+6mA	≤0.1%+10mA	≤0.05%+10mA
Line regulation	CV	≤0.01%+3mV	≤0.01%+10mV	≤0.01%+30mV	≤0.01%+20mV	≤0.01%+30mV	≤0.01%+25mV
	CC	≤0.05%+2mA	≤0.05%+4mA	≤0.05%+6mA	≤0.01%+6mA	≤0.1%+10mA	≤0.05%+10mA
Resolution	Voltage	0.1mV(<10V) 1mV(>10V)	0.1mV(<10V) 1mV(>10V)	0.1mV(<10V) 1mV(>10V)	1mV(<100V) 10mV(≥100V)	0.1mV(<10V) 1mV(>10V)	1mV(<100V) 10mV(>100V)
	Current	0.1mA	0.1mA	0.1mA(<10A) 1mA(>10A)	0.1mA	0.1mA(<10A) 1mA(>10A)	0.1mA
Programming accuracy	Voltage	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+5mV	≤0.04%+30mV	≤0.03%+5mV	≤0.03%+20mV
	Current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+15mA	≤0.1%+10mA	≤0.1%+25mA	≤0.1%+25mA
Readback accuracy	Voltage	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+5mV	≤0.04%+30mV	≤0.03%+5mV	≤0.03%+20mV
	Current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+15mA	≤0.1%+10mA	≤0.1%+25mA	≤0.1%+25mA
Ripple and noise	Voltage	≤5mVp-p	≤8mVp-p	≤15mVp-p	≤30mVp-p	≤20mVp-p	≤50mVp-p
	Current	≤5mA _{rms}	≤6mA _{rms}	≤8mA _{rms}	≤6mA _{rms}	≤15mA _{rms}	≤15mA _{rms}
Standard interfaces		RS232,RS485,Remote compensation,External analog,LAN,USB Device		RS232,RS485,Remote compensation,External analog,LAN,USB Device		RS232,RS485,Remote compensation,External analog,LAN,USB Device	

General Characteristics			
Power	AC 100V-240V,47Hz-63Hz	AC 100V-240V,47Hz-63Hz	AC 100V-240V,47Hz-63Hz
Display	4.3-inch TFT LCD	4.3-inch TFT LCD	4.3-inch TFT LCD
Product net weight	4.0kg	4.0kg	4.5kg
Product size (W×H×D)	215mm×88mm×373.7mm	215mm×88mm×373.7mm	215mm×88mm×373.7mm
Standard quantity per carton	1pcs	1pcs	1pcs

Ordering Information

UDP6900 Series	UDP6922B: Programmable Switching DC Power Supply (1-Channel, 60V, 5A, 100W)
	UDP6932B: Programmable Switching DC Power Supply (1-Channel, 60V, 10A, 200W)
	UDP6942B: Programmable Switching DC Power Supply (1-Channel, 60V,15A, 360W)
	UDP6933B: Programmable Switching DC Power Supply (1-Channel, 150V, 5A, 200W)
	UDP6952B: Programmable Switching DC Power Supply (1-Channel, 60V, 25A,600W)
	UDP6953B: Programmable Switching DC Power Supply (1-Channel, 150V, 10A, 600W)
Standard Accessories	Power cord conforming to the standard of the destination country 1
	USB data cable 1



UDP6900 Series

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UDP6720 Series NEW

Programmable Switching Power Supplies



UDP6720 series are programmable wide range DC switching power supplies. This series of power supply is characterized by wide output range, high precision and powerful function, etc.. The maximum output power can be up to 1500 W. With 4.3-inch LCD display, the parameters are intuitive and the operation is fast. It can be used in automatic test system, product development and debugging, production measurement, laboratory, teaching experiment, phone and household appliance maintenance and other fields.

- Wide range output
- Four-digit voltage/current high-precision display,
- Resolution: 10mV/10mA
- Multiple protections: OVP/OCP/OTP
- Overvoltage/overcurrent protection value can be set
- Remote compensation function
- 4.3" TFT true color LCD
- Save and recall 100 sets of settings
- RS232/RS485/LAN/USB
- SCPI/MODBUS-RTU protocol
- 200 sets of List/Delayer
- Waveform display
- U disk recording and upgrading

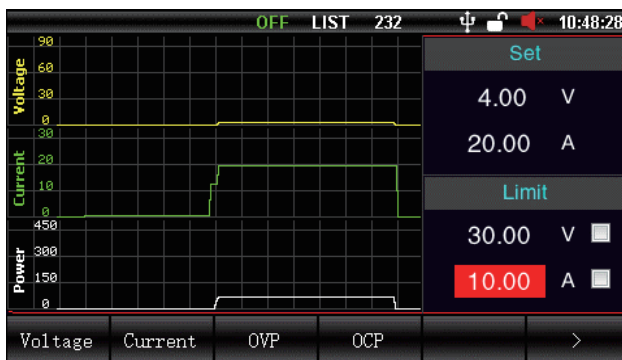
Power Supplies and Sources

SETUP	LIST	DELA	No.	Volt/V	Curr/A	Time/s
FileNum	File:1		0	6.00	1.00	1.0
Start	000		1	4.00	1.00	1.0
Group	008		2	6.00	1.00	1.0
Repeat	0001		3	10.00	1.00	1.0
Finish	Stop		4	3.30	1.00	1.0
Enable	On		5	10.00	20.00	5.0
			6	6.00	20.00	1.0
			7	4.00	20.00	1.0
			8	3.30	1.00	1.0
			9	1.00	1.00	1.0

● The list mode provides a sequence output of up to 200 steps to suit various output needs.

SETUP	LIST	DELA	No.	On/Off	Time/s
FileNum	File:0		0	On	0.1
Start	000		1	Off	3.0
Group	009		2	On	1.0
Repeat	0001		3	Off	3.0
Finish	Stop		4	On	1.0
Enable	On		5	Off	3.0
			6	On	1.0
			7	Off	3.0
			8	On	1.0
			9	Off	3.0

● The delayer mode provides a sequence output of up to 200 steps to realize automatic multiple power-on/off operations.



● Intuitive voltage, current, power waveform display



● 4.3 inch true color LCD display

Key Specifications		UDP6722	UDP6723	UDP6724
Output voltage		0-80V	0-80V	0-80V
Output current		0-20A	0-40A	0-40A
Output power		400W	850W	1500W
Load regulation	CV	<0.01%+10mV	<0.03% +70mV	<0.03% +70mV
	CC	<0.1%+5mA	<0.1%+10mA	<0.1%+10mA
Line regulation	CV	<0.01%+2.5mV	<0.01%+10mV	<0.01%+10mV
	CC	<0.1%+2.5mA	<0.1%+10mA	<0.1%+10mA
Resolution	Voltage	10mV	10mV	10mV
	Current	10mA	10mA	10mA
Programming accuracy	Voltage	<0.01%+20mV	<0.03%+20mV	<0.03%+20mV
	Current	<0.1%+10mA	<0.1%+40mA	<0.1%+40mA
Readback accuracy	Voltage	<0.01%+20mV	<0.03%+20mV	<0.03%+20mV
	Current	<0.1%+20mA	<0.1%+40mA	<0.1%+40mA
Ripple and noise	Voltage	<50mVrms	<100mVpp	<100mVpp
	Current	<15mArms	<50mArms	<50mArms
Temperature coefficient	Voltage	0.02%/° C+10mV	0.02%/° C+10mV	0.02%/° C+10mV
	Current	0.03%/° C+10mA	0.03%/° C+20mA	0.03%/° C+20mA
Communication Protocol		SCPI, MODBUS	SCPI, MODBUS	SCPI, MODBUS
Standard interfaces		RS232, RS485, USB Host, USB Device, LAN		

General Characteristics			
Power	AC:220(±10%)V, 50Hz/60Hz	AC:220(±10%)V, 50Hz/60Hz	
Display	4.3-inch TFT LCD	4.3-inch TFT LCD	4.3-inch TFT LCD
Product net weight	4.65kg	5.9kg	5.9kg
Product size (W×H×D)	214mm×88mm×393mm	215mm×88mm×475mm	215mm×88mm×475mm
Standard quantity per carton	1pcs	1pcs	1pcs

Ordering Information

UDP6720 Series	UDP6722:Programmable Switching DC Power Supply (1-Channel, 80V,20A,400W)
	UDP6723:Programmable Switching DC Power Supply (1-Channel, 80V,40A,850W)
	UDP6724:Programmable Switching DC Power Supply (1-Channel, 80V,40,1500W)
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 communication cable
	USB communication cable



UDP6720 Series

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UDP6700 Series

Programmable Switching Power Supplies



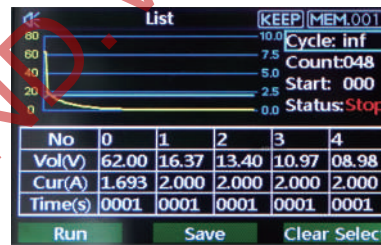
UDP6720 /UDP6721 switching DC power supply has a wide range of voltage and current utilization, leading the same type of power supply. The power ratio reaches 3.0. One machine can replace multiple small power supplies to reduce your repeated investment. It is equipped with RS232 communication interface as standard and supports SCPI protocol to facilitate remote control. It has the functions of list and delayer. The remote compensation module can avoid the inaccurate test caused by the voltage drop on the load line. LCD display brings better experience to measurement and debugging.

- Fully digital control
- Full scale high resolution:10 mV/1mA
- Low ripple and noise
- Software correction function
- Minimum overall dimension
- 2.8inch LCD display
- Remote compensation
- Support RS232 communication

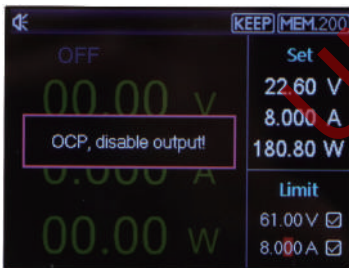
- Fan intelligent regulation
- Constant voltage and constant current output
- High reliability: overvoltage / overcurrent / overtemperature protection function
- List & delayer function
- The output is controlled by a switch
- High quality and high cost performance
- Multiple groups of output voltage / current can be preset: 3 × 200 groups



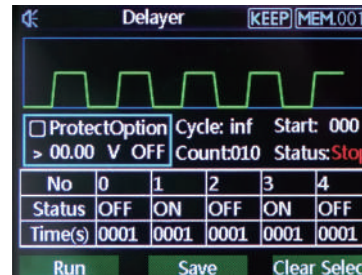
- 2.8inch LCD provides more interactive content and displays more real-time information.



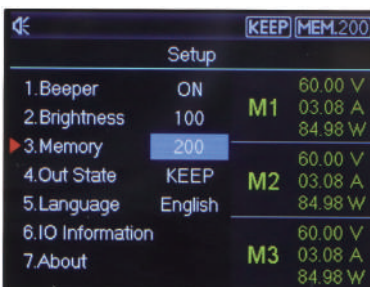
- The list function can preset the power output curve to facilitate the automatic test.



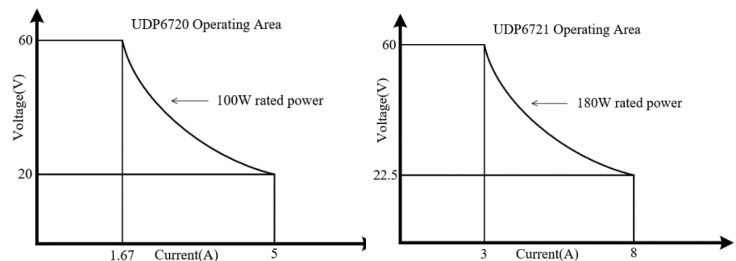
- Provide OVP / OCP / OTP protection function. The protection values of current and voltage can be set.



- Delayer function, set the delay output of the power supply. It can help you with on-off test or related test.



- 3 × 200 sets of setting values can be saved. It can better adapt to diversified and rapid automation applications.



- With high power ratio and wide range output, you can save the purchase of multiple small power supplies.

Key Specifications		UDP6720	UDP6721	UDP6730	UDP6731
Output voltage		0-60V	0-60V	0-40V	0-80V
Output current		0-5A	0-8A	0-30A	0-15A
Output power		100W	180W	360W	360W
Load regulation	CV	< 0.01%+3mV	< 0.01%+5mV	<0.03%+30mV	<0.03%+30mV
	CC	< 0.01%+3mA	< 0.01%+5mA	<0.03%+30mA	<0.03%+15mA
Line regulation	CV	< 0.01%+3mV	< 0.01%+5mV	<0.03%+15mV	<0.03%+30mV
	CC	< 0.1%+3mA	< 0.1%+5mA	<0.1%+15mA	<0.1%+10mA
Resolution	Voltage	10mV	10mV	10mV	10mV
	Current	1mA	1mA	1mA	1mA
Programming accuracy	Voltage	< 0.05%+10mV	< 0.05%+10mV	<0.1%+30mV	<0.1%+10mV
	Current	< 0.2%+2mA	< 0.3%+5mA	<0.3%+2mA	<0.3%+10mA
Readback accuracy	Voltage	< 0.05%+10mV	< 0.05%+10mV	<0.1%+10mV	<0.1%+10mV
	Current	< 0.2%+2mA	< 0.3%+5mA	<0.3%+30mA	<0.3%+10mA
Ripple and noise	Voltage	< 2.0mVrms	< 5.0mVrms	<12mVrms	<12mVrms
	Current	< 5.0mA rms	< 8.0mA rms	<72mA rms	<27mA rms
Temperature coefficient	Voltage	≤100ppm/° C	≤100ppm/° C	≤300ppm/° C	≤300ppm/° C
	Current	≤200ppm/° C	≤200ppm/° C	≤300ppm/° C	≤300ppm/° C
Standard interfaces		RS232,Remote compensation	RS232,Remote compensation	RS232,Remote compensation	RS232,Remote compensation

General Characteristics	
Power	AC:110(±10%)V/220(±10%)V, 50Hz/60Hz
Display	2.8-inch LCD,4-digit display
Product net weight	2.5kg
Product size (W×H×D)	87mm x 174mm x 255mm
Standard quantity per carton	1pcs

Ordering Information	
UDP6700 Series	UDP6720:Programmable Switching DC Power Supply (1-Channel, 60V, 5A)
	UDP6721:Programmable Switching DC Power Supply (1-Channel, 60V, 8A)
	UDP6730:Programmable Switching DC Power Supply (1-Channel, 40V,30A)
	UDP6731:Programmable Switching DC Power Supply (1-Channel, 80V, 15A)
Standard Accessories	Power cord conforming to the standard of the destination country
Optional Accessories	Alligator clip test line:1pair



UDP6700 Series

UTP3300-II Series

Non-Programmable Linear Power Supplies

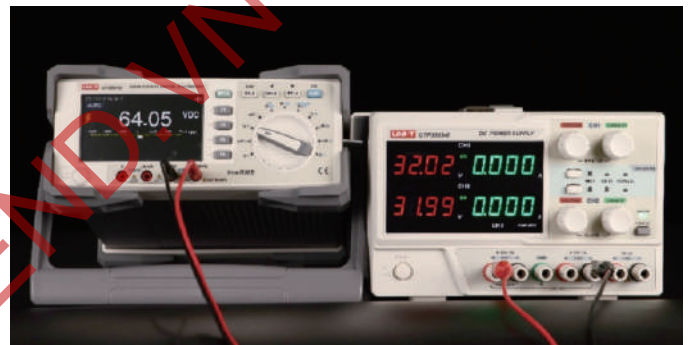


UTP3300 /3300-II Series are three-channel linear DC power supplies of adjustable dual channel and fixed single-channel output, featuring tracking, constant voltage/current, series/parallel output, temperature controlled cooling fan, and over voltage/current protection.

- 3-channel linear DC power supplies feature
- High-precision four-digit voltage and current display, 10mV/1mA(UTP3300-II Series)
- Low ripple/noise
- Constant voltage/current, OVP, OCP, OTP, reverse polarity protection
- Parallel/series output function
- Output on/off control
- Intelligent temperature control fan (only for UTP3300-II Series)



● Parallel mode



● Series mode

Power Supplies and Sources

Key Specifications		UTP3303-II	UTP3305-II
Output voltage		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)
Output power		207W	335W
Load regulation	CV	<0.01%+3mV	
	CC	≤0.2%+3mA	
Ripple and noise	CV	≤1mVrms	
	CC	≤3mArms	
Output regulate resolution	CV	10mV (typical)	
	CC	1mA (typical)	
Tracking bias	CV	±(0.1% of reading+30mV)	
	CC	±(0.3% of reading+5mA)	±(0.3% of reading+10mA)
Display mode		4-bit voltage and current dual display	

General Characteristics

Power	Input voltage: 115V AC/230V AC; Frequency: 47Hz-63Hz	
Display	4 windows,LED	
Product net weight	9.2kg	10.5kg
Product size (W×H×D)	319mm×146mm×226mm	
Standard quantity per carton	1pcs	
Standard carton size	465mm×345mm×280mm	
Standard carton gross weight	9.7kg	11.1kg

Ordering Information

UTP3000 Series	UTP3305-II:Non-Programmable Linear DC Power Supply (3-Channel, 32V, 5A, 10mV, 1mA)	
	UTP3303-II:Non-Programmable Linear DC Power Supply (3-Channel, 32V, 3A, 10mV, 1mA)	
Standard Accessories	Power cord conforming to the standard of the destination country	
	Test output line	

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UTP3300-II Series

UTP3300TFL-II Series

Non-Programmable Linear Power Supplies



UTP3000TFL-II series single-channel linear DC power supplies are economical benchtop tools for DIY electronics hobbyists, electronics manufacturing and testing, and other applications.

- Light weight and concise interface
- 1-channel linear DC power supplies feature
- High-precision 4-digit voltage and current display, 10mV/1mA
- Low ripple/noise
- Auto conversion of constant voltage and current with current limit protection

Key Specifications		UTP3313TFL-II	UTP3315TFL-II
Output voltage		0-30V	0-30V
Output current		0-3A	0-5A
Output power		90W	150W
Load regulation	CV	$\leq 0.01\% + 3\text{mV}$	$\leq 0.01\% + 5\text{mV}$
	CC	$\leq 0.1\% + 5\text{mA}$	$\leq 0.1\% + 10\text{mA}$
Programming accuracy (25° C \pm 5° C)	Voltage	$< 0.5\% + 20\text{mV}$	$< 0.5\% + 20\text{mV}$
	Current	$< 0.5\% + 5\text{mA}$	$< 0.5\% + 10\text{mA}$
Ripple and noise		$\leq 1\text{mVrms}$	$\leq 2\text{mVrms}$
Output regulate resolution	CV	10mV (typical)	
	CC	1mA (typical)	
Reliability		MTBF(e): $\geq 2000\text{hrs}$	

General Characteristics	
Power	Input voltage: 110V/220V \pm 5% AC, Frequency: 50Hz/60Hz
Display	4 digits LED
Product net weight	3kg
Product size (WxHxD)	105mm x 165mm x 249mm
Standard quantity per carton	4pcs
Standard carton size	330mm x 285mm x 460mm
Standard carton gross weight	14kg

Ordering Information

UTP3300TFL-II Series	UTP3315TFL-II:Linear DC Power Supply (1-Channel, 30V, 5A, 10mV, 1mA)
	UTP3313TFL-II:Linear DC Power Supply (1-Channel, 30V, 3A, 10mV, 1mA)
Standard Accessories	International standard power cord
	Alligator clip test line



UTP3300TFL-II Series

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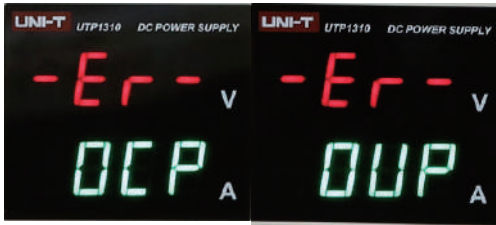
UTP1000 Series

Programmable Switching Power Supplies

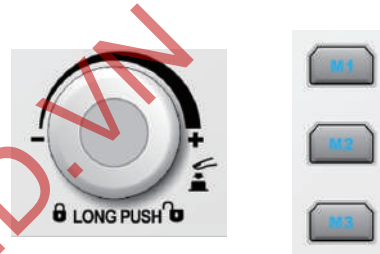


UTP1300 series power supply is an economical switch-type DC regulated power supply with single output. It has a pure output, excellent performance indicators, and can meet diverse testing needs. Used in product debugging and maintenance, quality control and testing, production automation testing, teaching experiments, etc.

- Single output
- Output: 32V, 6A/10A
- Resolution: 10mV/1mA
- Over voltage/current protection
- 3 groups of one-key recall of stored datas
- Over current/voltage protection value settable
- Independent output switch



- Overvoltage and overcurrent protection



- 3 groups of one-key recall of stored values and Key lock

Key Specifications		UTP1306	UTP1310
Output voltage		0-32V	0-32V
Output current		0-6A	0-10A
Output power		192W	320W
Load regulation	CV	≤0.1%+5mV	
	CC	≤0.2%+3mA	
Power regulation	CV	≤0.01%+5mV	
	CC	≤0.2%+3mA	
Output regulate resolution	CV	10mV (typical)	
	CC	1mA (typical)	
MTBF(e):		≥2000hrs	
Programming accuracy (25° C±5° C)	Voltage	≤0.1%+1digit	
	Current	≤0.2%+3mA	
Ripple and noise (20Hz-20MHz)	Voltage	≤10mVrms	
	Current	≤5mArms	

General Characteristics

Power	Input voltage: 110V AC/220V AC, 50Hz-60Hz	
Display	4 digits LED	
Product net weight	2kg	2.5kg
Product size (W×H×D)	80mm x 150mm x 230mm	
Standard quantity per carton	6pcs	
Standard carton size	455mm x 295mm x 450mm	
Standard carton gross weight	12.3kg	16.2kg

Ordering Information

UTP1000 Series	UTP1310:Switching DC Power Supply (1-Channel, 32V,10A)
	UTP1306:Switching DC Power Supply (1-Channel, 32V, 6A)
Standard Accessories	International standard power cord
	Alligator clip test line



UTP1000 Series

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DC Electronic Loads

Selection Guide

Series	Model	Total Power	Voltage	Current	Highest Frequency	Current Stope	Resolution		
UTL8500X+	UTL8513B+	600W	500V	60A	50kHz	0.0006A/μs-6A/μS	1mV 0.1mA		
	UTL8513A+		150V	120A		0.0006A/μs-12A/μS			
	UTL8512B+	400W	500V	30A		0.0006A/μS-3A/μS	0.1mV 0.01mA		
	UTL8512A+		150V						
	UTL8511B+	200W	500V	15A					
	UTL8511A+		150V	30A					
UTL8500+	UTL8512+	300W	150V	30A	50kHz			0.0006A/μS-3A/μS	0.1mV 0.01mA
	UTL8511+	150W							
UTL8200+	UTL8212+	200W×2CH	150V	40A	5kHz	0.08A/mS-0.4A/μS	1mV 1mA		
	UTL8211+	400W		20A		0.04A/mS-0.2A/μS			

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UTL8500X+ Series NEW

Programmable DC Electronic Loads



UTL8500X+ series DC electronic load is a new generation of intelligent large-screen and cost-effective electronic load. Up to 500KHz synchronous sampling, high-performance DSP processing. The fast, efficient and intuitive LIST programmable automatic test mode meets most R&D and testing needs.

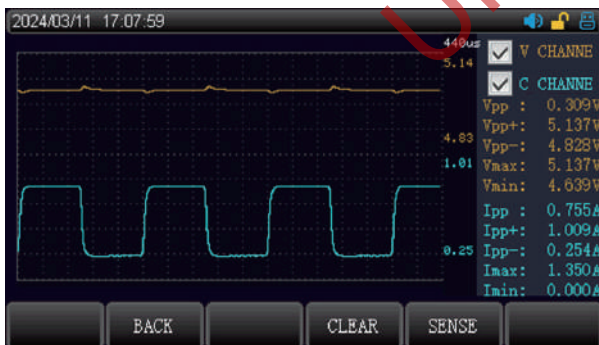
Power Supplies and Sources



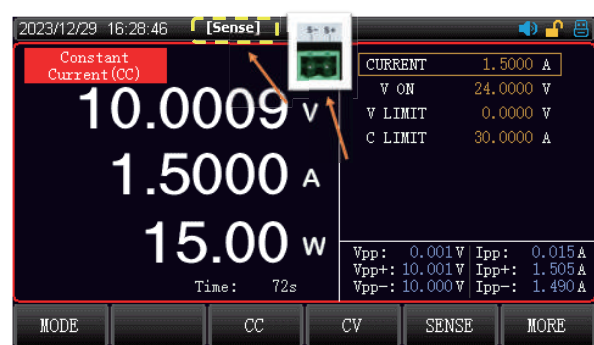
- 15 test modes are available to arrange your tests freely

LIST NAME	No.	MODE	VALUE	TIMING	EXAMI	LOWER LIMIT	UPPER LIMIT
	1	CC	0.100	500	Curr	0.095	0.105
	2	CC	0.500	500	Curr	0.495	0.505
CONTINUOUS	3	CP	60.000	1000	POWER	59.000	60.000
STEP	4	CR	100.000	1000	Curr	0.110	0.130
10	5	CC	1.000	1000	Volt	11.000	12.000
REPEAT	6	SHORT	6.000	1000	Curr	5.900	6.100
1	7	OPEN	0.000	500	Volt	11.000	12.000
V ON	8	CV	8.000	500	Volt	7.900	8.100
0.00V							

- Freely edit test items in List mode to help you implement automated measurement



- Ripple measurement & waveform display for better power testing



- Remote compensation solves the problem of inaccurate display in long-distance tests

Key Specifications		UTL8511A+		UTL8511B+		UTL8512A+		UTL8512B+		UTL8513A+		UTL8513B+	
Input ratings 0-40C°	Input voltage	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V
	Input current	0-3A	0-30A	0-1.5A	0-15A	0-3A	0-30A	0-3A	0-30A	0-12A	0-120A	0-6A	0-60A
	Input power	200W		200W		400W		400W		600W		600W	
	Min. operating voltage	1.4±0.1V at 30A		2.8V±0.2V at 15A		1.4±0.1V at 30A		2.8V±0.2V at 30A		1.4V±0.1V at 120A		2.8V±0.2V at 60A	
CV mode	Range	0.1-15V	0.1-150V	0.1-50V	0.1-500V	0.1-15V	0.1-150V	0.1-50V	0.1-500V	0.1-15V	0.1-150V	0.1-50V	0.1-500V
	Resolution	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	1mV	10mV	1mV	10mV
	Accuracy	±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)	
CC mode	Range	0-3A	0-30A	0-1.5A	0-15A	0-3A	0-30A	0-3A	0-30A	0-12A	0-120A	0-6A	0-60A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)	
CR mode	Range	0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ	
	Resolution	16bit		16bit		16bit		16bit		16bit		16bit	
	Accuracy	(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%	
CP mode	Range	200W		200W		400W		400W		600W		600W	
	Resolution	10mW		10mW		10mW		10mW		10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)	
Dynamic mode (CCmode)	T1&T2	10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS	
	Accuracy	1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm	
	Rise/fall slope	0.0006A/μs-3A/μs		0.0006A/μs-3A/μs		0.0006A/μs-3A/μs		0.0006A/μs-3A/μs		0.0006A/μs-12A/μs		0.0006A/μs-6A/μs	
	Min rise time	10us		10us		10us		10us		10us		10us	
Readback voltage	Range	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V
	Resolution	0.01mV	0.1mV	0.01mV	0.1mV	0.01mV	0.1mV	0.01mV	0.1mV	0.1mV	1mV	0.1mV	1mV
	Accuracy	±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)	
Readback current	Range	0-3A	0-30A	0-1.5A	0-15A	0-3A	0-30A	0-3A	0-30A	0-12A	0-120A	0-6A	0-60A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)	
Readback power	Range	200W		200W		400W		400W		600W		600W	
	Resolution	10mW		10mW		10mW		10mW		10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)	

Key Specifications		UTL8511A+		UTL8511B+		UTL8512A+		UTL8512B+		UTL8513A+		UTL8513B+	
Over-power protection		≥202W delayed protection, ≥220W immediate protection		≥202W delayed protection, ≥220W immediate protection		≥404W delayed protection, ≥440W immediate protection		≥404W delayed protection, ≥440W immediate protection		≥606W delayed protection, ≥660W immediate protection		≥606W delayed protection, ≥660W immediate protection	
Over-current protection		≥30.3A delay protection, ≥33A immediate protection		≥15.2A delay protection, ≥16.5A immediate protection		≥30.3A delay protection, ≥33A immediate protection		≥30.3A delay protection, ≥33A immediate protection		≥121.2A delay protection, ≥132A immediate protection		≥60.6A delay protection, ≥66A immediate protection	
Over-voltage protection		≥152V delay protection, ≥165V immediate protection		≥505V delay protection, ≥550V immediate protection		≥152V delay protection, ≥165V immediate protection		≥505V delay protection, ≥550V immediate protection		≥152V delay protection, ≥165V immediate protection		≥505V delay protection, ≥550V immediate protection	
Over-temperature protection		≥85°C		≥85°C		≥85°C		≥85°C		≥85°C		≥85°C	
Short circuit	Current (CC)	≤3A	≤30A	≤1.5A	≤15A	≤3A	≤30A	≤3A	≤30A	≤12A	≤120A	≤6A	≤60A
	Voltage (CV)	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
	Resistance (CR)	60mΩ	60mΩ	200mΩ	200mΩ	50mΩ	50mΩ	120mΩ	120mΩ	35mΩ	35mΩ	105mΩ	105mΩ
Ripple display		yes		yes		yes		yes		yes		yes	
Test mode		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes		15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes	
Input terminal resistance		300KΩ		1MΩ		300KΩ		1MΩ		300kΩ		1MΩ	
Interface&protocol		RS232 interface and SCPI protocol		RS232 interface and SCPI protocol		RS232 interface and SCPI protocol		RS232 interface and SCPI protocol		RS232 interface and SCPI protocol		RS232 interface and SCPI protocol	

General Characteristics		
Power	110V/220V, 50/60Hz	
Display	4.3 inch LCD	
Product size (WxHxD)	215mm x 88mm x 372mm	
Product net weight	3.73kg	4.49kg
Standard quantity per carton	1pcs	
Standard carton size	515mmX365mmX220mm	
	650mmX365mmX220mm	

Ordering Information	
UTL8500X+ Series	UTL8511A+:Programmable DC Electronic Load (150V, 30A, 200W)
	UTL8511B+:Programmable DC Electronic Load (500V, 15A, 200W)
	UTL8512A+:Programmable DC Electronic Load (150V, 30A, 400W)
	UTL8512B+:Programmable DC Electronic Load (500V, 30A, 400W)
	UTL8513A+:Programmable DC Electronic Load (150V, 120A, 600W)
	UTL8513B+:Programmable DC Electronic Load (500V, 60A, 600W)
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 data cable
	2P connecting terminal
	5P connecting terminal
	Fuse

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UTL8500X+ Series

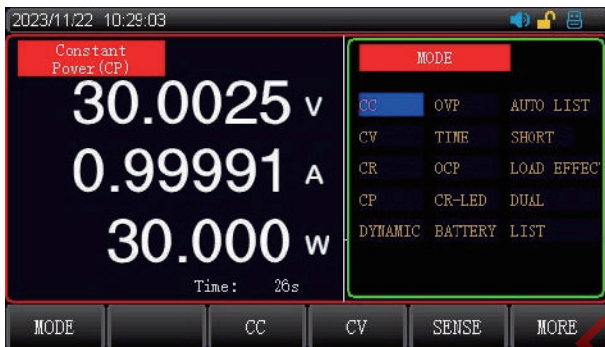
UTL8500+ Series NEW

Programmable DC Electronic Loads



UTL8500+ series DC electronic load is a new generation of intelligent large-screen and cost-effective electronic load. Up to 500KHz synchronous sampling, high-performance DSP processing. The fast, efficient and intuitive LIST programmable automatic test mode meets most R&D and testing needs.

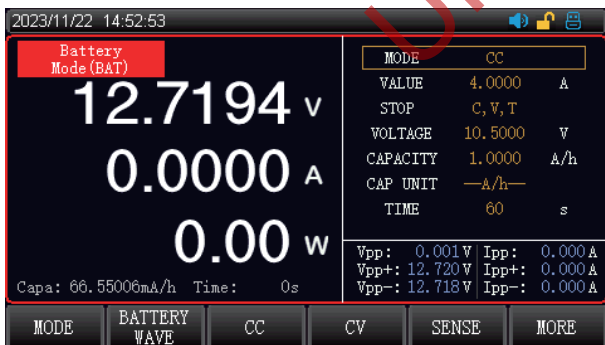
Power Supplies and Sources



- 15 test modes are available to arrange your tests freely



- Freely edit test items in List mode to help you implement automated measurement



- Various parameters of the battery mode are adjustable, and the battery discharge curve is provided. Help you complete battery testing excellently



- 4.3inch LCD display, clear parameter and status display

Key Specifications		UTL8511+		UTL8512+	
Input ratings 0-40° C	Input voltage	0-15V	0-150V	0-15V	0-150V
	Input current	0-3A	0-30A	0-3A	0-30A
	Input power	150W		300W	
	Min. operating voltage	1.4V±0.1V at 30V			
CV mode	Range	0.1-15V	0.1-150V	0.1-15V	0.1-150V
	Resolution	0.1mV	1mV	0.1mV	1mV
	Accuracy	±(0.03%+0.05%FS)		±(0.03%+0.05%FS)	
CC mode	Range	0-3A	0-30A	0-3A	0-30A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA
	Accuracy	±(0.03+0.05%FS)		±(0.03+0.05%FS)	
CR mode	Range	0.05Ω-10kΩ		0.05Ω-10kΩ	
	Resolution	16bit		16bit	
	Accuracy	(0.1+0.01R)%		(0.1+0.01R)%	
CP mode	Range	150W		300W	
	Resolution	10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.1%FS)	
Dynamic mode (CC mode)	T1&T2	10μS-50S/Res:1μS		10μS-50S/Res:1μS	
	Accuracy	1μS/1mS±100ppm		1μS/1mS±100ppm	
	Rise/fall slope	0.0006A/μS-3A/μS		0.0006A/μS-3A/μS	
	Min rise time	10us		10us	
Readback voltage	Range	0-15V	0-150V	0-15V	0-150V
	Resolution	0.01mV	0.1mV	0.01mV	0.1mV
	Accuracy	±(0.02%+0.03%FS)		±(0.02%+0.03%FS)	
Readback current	Range	0-3A	0-30A	0-3A	0-30A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA
	Accuracy	±(0.03%+0.05%FS)		±(0.03%+0.05%FS)	
Readback power	Range	150W		300W	
	Resolution	10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.1%FS)	
Over-power protection	≥152W delayed protection, ≥165W immediate protection		≥303W delayed protection, ≥330W immediate protection		
Over-current protection	≥30.3A delay protection, ≥33A immediate protection		≥30.3A delay protection, ≥33A immediate protection		
Over-voltage protection	≥152V delay protection, ≥165V immediate protection		≥152V delay protection, ≥165V immediate protection		
Over-temperature protection	≥85° C		≥85° C		
Short circuit	Current (CC)	≤3A	≤30A	≤3A	≤30A
	Voltage (CV)	0V	0V	0V	0V
	Resistance (CR)	60mΩ	60mΩ	50mΩ	50mΩ

Key Specifications	UTL8511+	UTL8512+
Ripple display	yes	yes
Waveform record	no	no
Test mode	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list
Input terminal resistance	300KΩ	300KΩ
Interface&protocol	RS232 interface and SCPI protocol	RS232 interface and SCPI protocol

General Characteristics		
Power	110V/220V, 50/60Hz	
Display	4.3 inch LCD	
Product size (W×H×D)	215mm x 88mm x 372mm	
Product net weight	3.73kg	4.49kg
Standard quantity per carton	1pcs	
Standard carton size	515mmX365mmX220mm	

Ordering Information	
UTL8500+ Series	UTL8511+: Programmable DC Electronic Load (150V, 30A,150W)
	UTL8512+: Programmable DC Electronic Load (150V, 30A,300W)
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 data cable
	2P connecting terminal
	5P connecting terminal
	Fuse



UTL8500+ Series

UTL8200+ Series

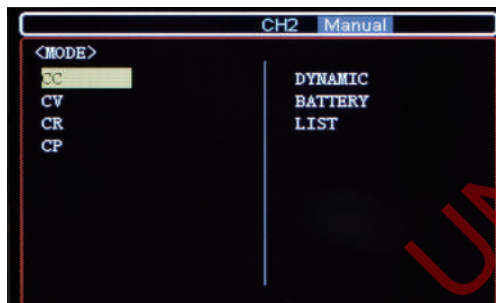
Programmable DC Electronic Loads



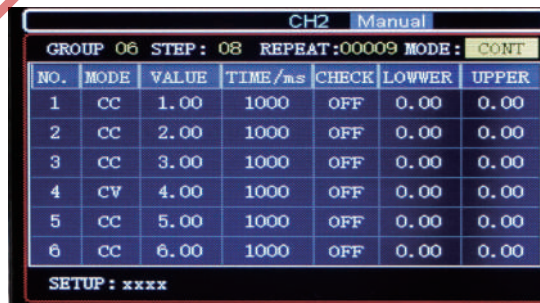
UTL8200+ series electronic load is equipped with a 2.8-inch LCD display, which is easy to operate and stylish in appearance. Its test resolution is up to 1mV/1mA. Equipped with rich test functions and modes for you to choose. The equipment is equipped with RS232 communication module, which can flexibly meet various on-site test conditions, and is convenient for seamless connection with automated production lines and automatic test systems (ATS). The electronic load operates stably and has a wide range of applications, adapting to various testing requirements.

- UTL8211+:150V /40A, 400W
- UTL8212+:150V/2x150V/20A,2x200W
- CC/CV/CR/CP four basic modes
- Up to 1mV/1mA resolution
- Up to 4.8MHz voltage and current Sample rate
- Multi-mode battery discharge test
- List mode, support automatic test
- Independent short circuit test function

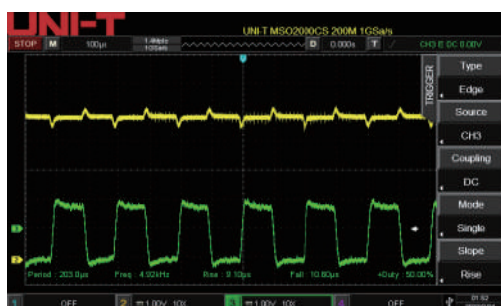
- Various protections such as overvoltage, low voltage, overcurrent, overpower, overheating, and anti-reverse connection
- RS232 communication interface, support SCPI protocol
- Supporting host computer software to realize remote operation and monitoring
- Power off memory function
- Intelligent temperature control fan



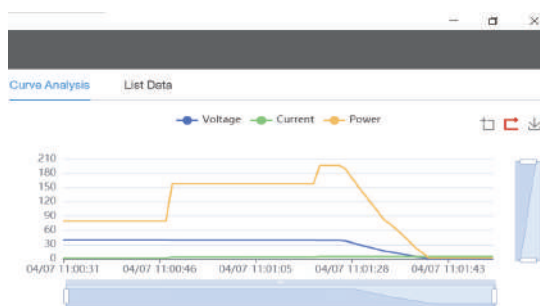
- 7 test modes to help you complete the test work better



- List mode to help you automate



- Dynamic load is up to 5kHz



- The upper computer is equipped as standard to realize remote control and data acquisition.

Key Specifications		UTL8211+	UTL8212+
Number of channel		1	2
Input ratings 0-40° C	Voltage	0-150V	0-150V
	Current	0-4A, 0-40A	0-2A, 0-20A
	Power	400W	2×200W
CV mode	Range	0-150V	
	Accuracy	±(0.05%+0.1% FS)	
CC mode	Range	0-4A, 0-40A	0-2A, 0-20A
	Accuracy	±(0.1% + 0.1%FS)	
CR mode	Range	0.05Ω-7.5KΩ	
	Accuracy	±(0.3%Vin/Rset+0.2%F.S)	
CP mode	Range	400W	200W
	Accuracy	0.1% + 0.5%FS	
Dynamic mode	T1&T2	100μS-50S/Res:100μS	
	Accuracy	5 μS±100 ppm	
	Slope	0.08A/mS-0.4A/μS	0.04A/mS-0.2A/μS
Readback voltage	Range	0-18V, 0-150V	
	Accuracy	± (0.1% + 0.1%FS)	
Readback current	Range	0-4A, 0-40A	0-2A, 0-20A
	Accuracy	± (0.1% + 0.1%FS)	
Readback power	Range	400W	200W
	Accuracy	± (0.1% + 0.5%FS)	
Over-power protection		Delay protection, immediate protection	
Over-current protection		Delay protection, immediate protection	
Over-voltage protection		Delay protection, immediate protection	
Over-temperature protection		≥85° C	
Resolution		1mV/1mA	
Basic mode		CC/CV/CR/CP	
Test mode		Dynamic mode, list mode, battery test	
Protections		Protections of over-voltage/under-voltage/over-current/over-power/over-temperature/anti-reverse connection	
System setup		Language: Chinese/English, key tone setting	
Interface & protocol		RS232,RS485(optional) and SCPI protocol	
PC software		√	

General Characteristics

Power	110V±10%/220V±10% Frequency 50/60Hz
Display	2.8 inches LCD
Product net weight	3.42kg
Product size (W×H×D)	88mm x 174.6mm x 230mm
Standard quantity per carton	2pcs
Standard carton size	360mm x 170mm x 280mm375X350X290
Standard carton gross weight	9kg

Ordering Information

UT8200+ Series	UTL8212+:DC electronic load (2-Channel, 20A, 200W)
	UTL8211+:DC electronic load (1-Channel, 40A, 400W)
Standard Accessories	International standard power cord
	RS232C communication line
	Spare fuses



UTL8200+ Series

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AC Power Sources

Selection Guide

Series	Model	Capacity	Number of phases	Voltage Range	Frequency Range	Current Range	Resolution
UAP500/1000A	UAP1000A	1000VA	1Φ2W	0-300VAC	45-250Hz	8.4A	0.01V 0.01Hz 0.001A
	UAP500A	500VA				4.2A	

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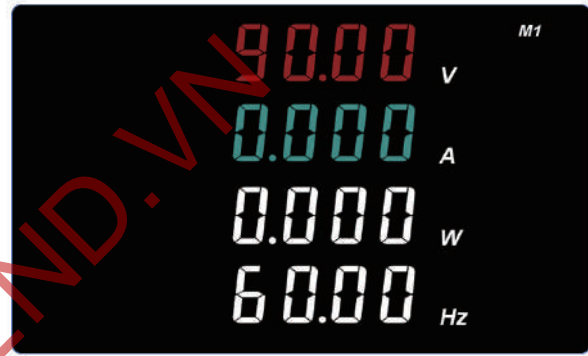
UAP500/1000A Series Programmable AC Power Source



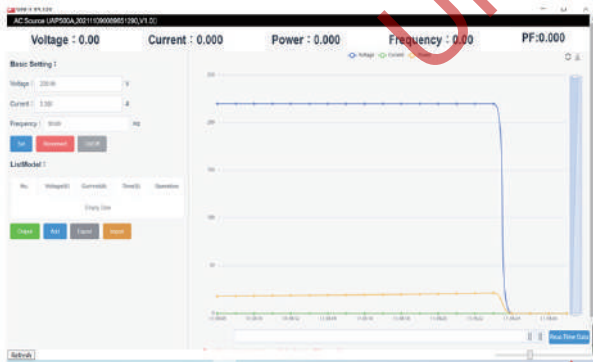
UAP500 / 1000A series programmable AC variable frequency power supply is equipped with digital display screen, with wide measurement range and resolution of 10mV / 1mA. UAP500 / 1000A series has the characteristics of desk type and system type. It can be combined with other instruments at will and integrated into a test system with special functions to meet the measurement requirements in different occasions. The program can be edited through the panel keyboard, which brings great convenience to users. It is a replacement product of ordinary programmable power supply, with high cost performance advantages.



● Four windows display



● 9 groups of presets



● Remote control



● Numeric keys

Key Specifications		UAP500A	UAP1000A
Capacity		500VA	1KVA
Generation mode		SPWM(Sinusoidal pulse width modulation)	
Input	Phase number	1 ϕ 2W	
	Voltage	220V \pm 10%	
	Frequency	47Hz - 63Hz	
Output	Phase number	1 ϕ 2W	
	Voltage	0-150VAC / 0-300VAC AUTO	
	Frequency	45-250Hz(0.01Step)	
Maximum current	L=120V	4.2A	8.4A
	H=240V	2.1A	4.2A
load Stability		0.1%	
Waveform distortion T.H.D		3% (low grade 120V, high grade 240V, with pure resistive load)	
Frequency stability		0.01%	
Resolution	Voltage	0.01V	
	Frequency	0.01Hz	
	Current	0.001A	
Measurement accuracy	Voltage	\pm 0.5%FS+5dgt	
	Current	\pm 0.5%FS+5dgt	
	Frequency	\pm 0.01%FS+5dgt	
	Power	\pm 0.5%FS+5dgt	
Setting accuracy	Voltage	\pm 1%FS	
	Frequency	\pm 0.1%FS	
Display		Voltage Vrms,Current Arms,Frequency Fre,Power Wattage,Power factor PF	
Storage Memory		M1-M9(V_F_A)	
Current limiting setting		0-Max Current(maximum current: maximum capacity / 240V, i.e. P / 240))	
Output protection		Over Current, Over Temp, Over Load,Short Circuit	
Communication interface		RS232C	

General Characteristics		
Power	AC 220V±10% ,47Hz-63Hz	
Display	VA code breaking screen	
Product net weight	17.5kg	20.7kg
Product size	430mm×132mm×483mm	
Standard quantity per carton	1pcs	

Ordering Information		
UAP500A/1000A Programmable AC Power	UAP500A:500VA,10mV/1mA,1φ2W	
	UAP1000A:1000VA,10mV/1mA,1φ2W	
Standard Accessories	Power cord conforming to the standard of the destination country	
	RS232 interface cable	

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UAP500/1000A Series

Bench Meters

Digital Multimeters

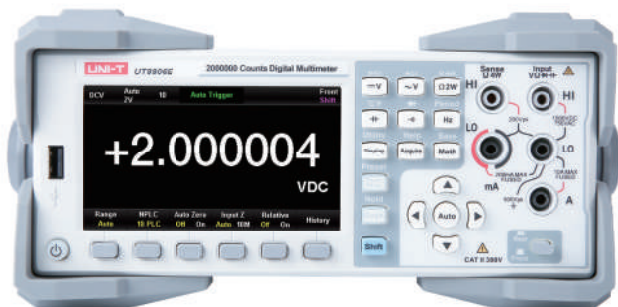
Selection Guide

Series	Model	Display Accuracy	DCV Annual Accuracy	Fastest TestRateU
UT8000E	UT8806E	6 ½	0.0035%	10k rdgs/s
	UT8805E	5½	0.01%	5k rdgs/s
	UT8804E	4%	0.025%	3 rdgs/s
	UT8803E	3%	0.3%	
	UT8802E	4 ½	0.1%	
UT800	UT804	4 ¾	±(0.025%+5digital)	2-3 rdgs/s
	UT803	3 %	±(0.3%+2digital)	
	UT802	4 ½	±(0.1%+3digital)	
	UT801	3 ½	±(0.5%+2digital)	

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UT8806E NEW

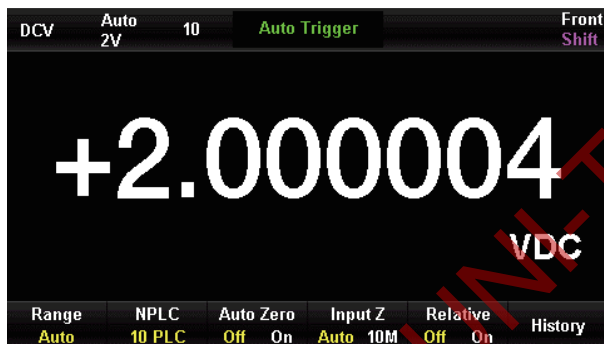
6½ Digital Multimeter



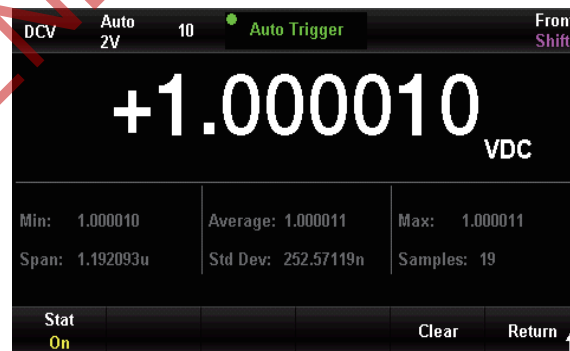
UT8806E is a 6½ digit dual display digital multimeter. It has outstanding read rate and accuracy. It is a product designed to meet customers' multi-functional, high-precision, and automatic measurement requirements.

- 4.3" TFT-LCD, display resolution 480×272
- 6½ digit reading
- Measurement speed up to 10,000 rdgs/s
- True RMS AC voltage and current measurement
- 32Gb Nand Flash, mass storage instrument setting files and data files
- Built-in thermocouple cold junction compensation

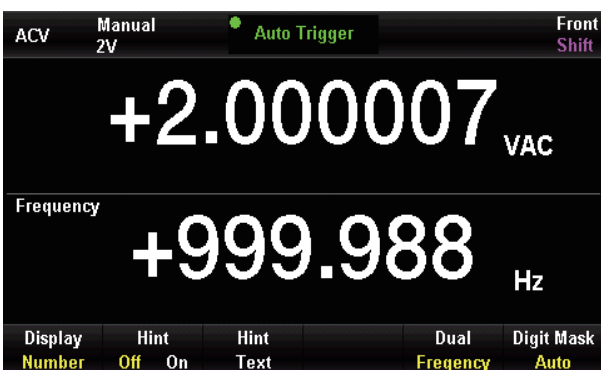
- Support standard SCPI remote control commands, PC software, compatible with the latest mainstream multimeter command set
- Support dual display, built-in help system, easy to obtain information
- Configuration interface: USB Host, USB Device, LAN, RS-232C, GPIB
- Measurement data and settings can be imported or exported through VXI-11, USBTMC, U disk, so that users can modify, view and backup conveniently



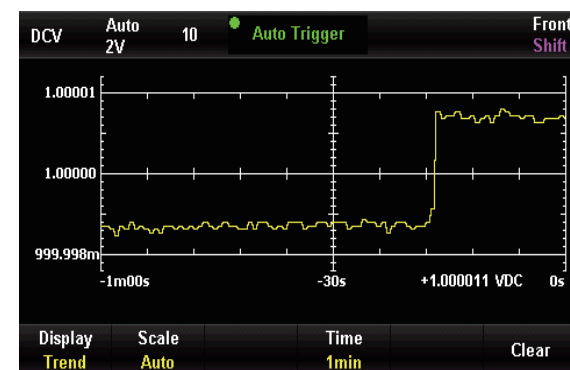
- 1999999 count, 4.3 inch TFT LCD display



- Various mathematic operations



- Support the display of main and auxiliary parameters on the same screen. AC true RMS



- UT8806E supports multiple display modes. Users can observe measurement data through numbers, bar graphs, trend graphs and histograms.

Bench Meters

Key Specifications	UT8806E	
	Range	Accuracy (1 year)
DC voltage (V)	200mV/2V/20V/200V/1000V	±(0.0035%+0.0006%)
AC voltage (V)	200mV/2V/20V/200V/750V	±(0.06%+0.03%)
DC current (A)	2μA/20μA/200μA/2mA/20mA/200mA/2A/10A	±(0.05%+0.002%)
AC current (A)	200μA/2mA/20mA/200mA/2A/10A	±(0.1%+0.04%)
Resistance (Ω)	20Ω/200Ω/2kΩ/20kΩ/200kΩ/2MΩ/10MΩ/100MΩ/1GΩ	±(0.01%+0.001%)
Capacitance (F)	2nF/20nF/200nF/2μF/20μF/200μF/2mF/20mF/100mF	±(1%+0.1%)
Frequency (Hz)	3Hz-1MHz	±0.007%
Temperature (°C)	-270°C-1760°C	Probe accuracy +0.16
Display count	1999999	
DCV Accuracy	0.0035%	
Sample rate	10k rdgs/s	
Auto range	√	
True RMS	√	
Data storage	10k data record; 32GB NAND Flash total storage	
Frequency response (Hz)	300kHz	
Diode/triode test	√	
Continuity buzzer	√	
Data hold	√	
Mathematical operations	Pass/Fail, Relative, minimum/maximum/average, standard deviation, dBm, dB, histogram, trend chart and bar chart	
Input resistance	≥10GB or 10MΩ	
Standard interface	USB Host, USB Device, LAN, RS-232C, GPIB(optional)	

General Characteristics	
Power	AC 90V-110V,45-440Hz; AC 110V-132V,45-440Hz; AC 200V-240V,45-66Hz; AC 216V-264V,45-66Hz
Display	4.3 inches TFT LCD
Product net weight	4.4kg
Product size (W×H×D)	256mm×113.2mm×378.2mm
Standard quantity per carton	1pcs
Standard carton size	510mm×195mm×340mm
Standard carton gross weight	5.5kg

Ordering Information

UT8000E Series	UT8806E:Benchtop Digital Multimeter (1999999, Auto)
Standard Accessories	International standard power cord
	USB interface cable
	Test leads
	RS-232C interface cable
	Simple test lead with alligator

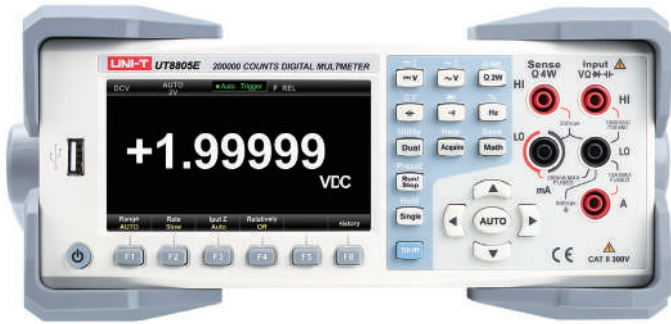


UT8806E

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UT8805E

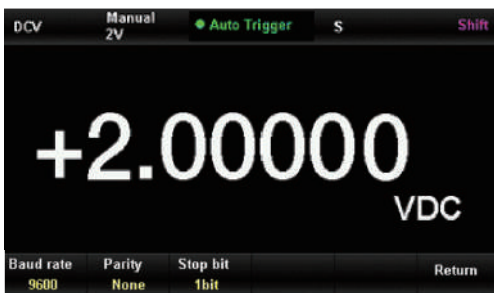
5½ Digital Multimeter



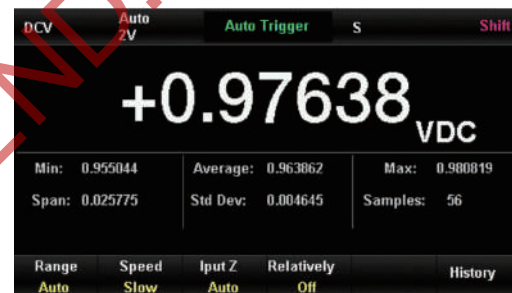
UT8805E is an auto-ranging, true RMS desktop digital multimeter with 199999 counts, up to 5K rdgs/s, 300kHz frequency response, and a 4.3-inch TFT LCD. Pass/Fail, maximum value/minimum value/average value/relative value measurement, etc., 10K reading history data record, 1GB Nand Flash total capacity. It is a superior electrical measuring instrument. It is suitable for measurement in electronics, communications, manufacturing, petroleum, national defense, electric power, chemical and other industries. It is an indispensable experimental tool for various colleges and universities.

- 200000 count resolution
- Measuring speed: 2.5/10/5k reading per second
- AC true RMS measurement.
- 2-line and 4-line resistance measurement
- Continuity and diode test
- Temperature measurement with built-in thermocouple cold junction compensation
- Various mathematic operations: maximum, minimum, average value, standard deviation, pass/fail,dBm, dB, relative measurement, histogram, trend chart, bar chart

- USB drive store data and configuration
- Supports interface of USB, RS-232C and LAN, USB-TMC, IEEE 488.2 standard, VXI11 and SCPI language
- History data record and storage
- 1GB NAND FLASH storage, mass storage system and test data
- PC control software of upper computer



- 199999 count, 4.3 inch TFT LCD display



- Various mathematic operations: maximum, minimum, average value, standard deviation, pass/fail,dBm, dB, relative measurement, histogram, trend chart, bar chart

Bench Meters



- Support the display of main and auxiliary parameters on the same screen. AC true RMS



- 3 kinds of display formats are supported by UT8805E. User can check the measured data by number, bar chart, trend chart, and histogram.

Key Specifications	UT8805E	
	Range	Accuracy (1 year)
DC voltage (V)	200mV/2V/20V/200V/1000V	±(0.01%+0.003%)
AC voltage (V)	200mV/2V/20V/200V/750V	±(0.2%+0.05%)
DC current (A)	200μA/2mA/20mA/200mA/2A/10A	±(0.055%+0.005%)
AC current (A)	2mA/20mA/200mA/2A/10A	±(0.5%+0.1%)
Resistance (Ω)	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/10MΩ/100MΩ	±(0.02%+0.003%)
Capacitance (F)	2nF/20nF/200nF/2μF/20μF/200μF/2mF	±(1%+0.5%)
Frequency (Hz)	20Hz-1MHz	±(0.01%+0.003%)
Temperature (°C)	-270°C-1760°C (thermocouple and thermal resistance sensor supported)	±0.5°C
Display count	199999	
DCV Accuracy	0.010%	
Sample rate	5k rdgs/s	
Auto range	√	
True RMS	√	
Data storage	10k data record; 1GB Nand Flash total storage	
Frequency response (Hz)	100kHz	
Diode/triode test	√	
Continuity buzzer	√	
Data hold	√	
Mathematical operations	Pass/Fail, relative value, minimum/maximum/average, standard deviation, dBm, dB, Hold, histogram, trend chart and bar chart	
Input resistance	≥10GB or 10MΩ	
Standard interface	USB Host, USB Device, LAN, RS-232	

General Characteristics	
Power	AC 100V-120V, 45Hz-440Hz; AC 200V-240V, 45Hz-66Hz
Display	4.3 inches TFT LCD
Product net weight	4.4kg
Product size (W×H×D)	239mm×100mm×344mm
Standard quantity per carton	2pcs
Standard carton size	380mm x 330mm x 320mm
Standard carton gross weight	10.5kg

Ordering Information

UT8000E Series	UT8805E: Benchtop Digital Multimeter (199999, Auto)
Standard Accessories	International standard power cord
	USB interface cable
	Test leads
	RS-232C interface cable
	Simple test lead with alligator

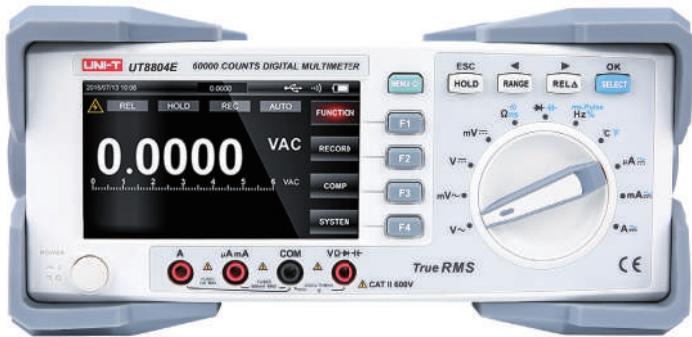


UT8805E

UNI-TREND.VN

UT8804E

4½ Digital Multimeter



UT8804E is an automatic range of 59999 counts, a true RMS desktop digital multimeter, 100kHz frequency response, and a 4.3-inch TFT LCD. VFC low-pass filtering function, reduce the interference of high-frequency signals on the measurement results, NCV non-contact voltage sensing, maximum/minimum/average/relative value measurement, 20000 sets of output storage, making it a more superior electrician gauge

- Reading resolution:4%,maximum reading 59999
- Measuring rate:2 reading/s
- DC voltage range:60mV-1000V
- DC current range:600µA-10A
- AC voltage range:60mV-1000V(True-RMS)
- AC current range:600µA-10A(True-RMS)
- Resistance range:600Ω-60MΩ
- Capacitance range:6nF-60mF
- Conductivity range:60ns

- Frequency measurement range:60Hz-60MHz
- Duty cycle measurement range:10%-90%
- Mathematical operation:maximum, minimum, average, peak, comparative measurement, trend chart
- Interface:USB device,it can be connected to the upper computer control software
- Frequency response:100kHz
- Data record:20000 groups
- LPF low pass filter function



● UT8804E digital multimeter can display 4% digits (59999). It can provide you high-precision and accurate result display. Its simulation bar makes the display of measurement results more intuitive. 4.3 inch full-color display, giving you a better visual experience.



● function. For the index range required by batch device test, UT8804E will help you automatically identify unqualified devices and give an alarm.



● The UT8804E digital multimeter has the function of maximum and minimum value statistics.At the same time, it has the function of reference value, and the calculation results relative to the reference value can be obtained.



● UT8804E digital multimeter has recording function. Historical data records can be presented in statistics and trend charts.



- Additional secondary parameters can be added to make the measurement more specific, while displaying the main parameters.

Key Specifications	UT8804E	
	Range	Accuracy (90 days)
DC voltage (V)	1000V	±(0.025%+5)
AC voltage (V)	1000V (45Hz-100kHz)	±(0.3%+30)
DC current (A)	10A	±(0.08%+10)
AC current (A)	10A (45Hz-10kHz)	±(0.6%+20)
Resistance (Ω)	60MΩ	±(0.05%+2)
Capacitance (F)	60mF	±(2%+5)
Conductance (nS)	60nS	±(2%+10)
Frequency (Hz)	60MHz	±(0.01%+5)
Duty cycle (%)	10%-90% (10Hz-2kHz)	±(1.2%+30)
Temperature (°C/°F)	-40° C-1000° C	±(1%+30)
	-40 °F -1832 °F	±(1.5%+50)
Display count	59999	
DCV Accuracy	0.30%	
Sampling speed	2-3rdgs/s	
Range	Auto, manual	
True RMS	√	
Date display	√	
Frequency response (Hz)	100kHz	
Diode/transistor test	√	
Data storage	20000	
On-off beep	√	
Data hold	√	
Standard interface	USB Device	

General Characteristics	
Power	100V/120V/220V/240V ±10%, 47Hz-63Hz
Display	4.3 inches TFT LCD
Product net weight	3.7kg
Product size (W×H×D)	239mm x 109m x 344m
Standard quantity per carton	2pcs
Standard carton size	380mm x 330mm x 320mm
Standard carton gross weight	9.5kg

Ordering Information	
UT8000E Series	UT8804E: Benchtop Digital Multimeter (59999, Auto)
Standard Accessories	International standard power cord
	USB interface cable
	Test leads
	Simple test lead with alligator
	K-type temperature probe

UNI-TREND



UT8804E

Bench Meters

UT8803E

3% Digital Multimeter



UT8803E is a 6000 count 3% digital, automatic range, portable desktop, AC powered digital multimeter. Large screen large character display with backlight, more clear and easy to read. With full function test, full range overload protection and unique appearance design, it has become an electrical test instrument with better performance. This instrument can be used to measure : AC / DC voltage, AC / DC current, resistance, frequency, capacitance, inductance, triode HFE, diode (LED), thyristor (SCR) and circuit on-off. Meet the measurement needs of users with multi-function, high precision and automation.

- Reading resolution:3%,maximum reading 5999
- Measuring rate:2-3 reading/s
- DC voltage range:600mV-1000V
- DC current range:600μA-10A
- AC voltage range:600mV-750V(True-RMS)
- AC current range:600μA-10A (True-RMS)
- Resistance range:600Ω-60MΩ
- Capacitance range:6nF-6mF
- Inductance range:600μH-100H

- Frequency measurement range:600Hz-20MHz
- Duty cycle measurement range:5%-95%
- Mathematical operation:maximum, minimum, relative value, analog bar
- Interface:USB device,it can be connected to the upper computer control software
- Frequency response:100KHz
- It can measure triode and thyristor



- Reading resolution 3%,maximum reading 5999



- D / Q parameters of capacitance and inductance can be measured



- Multiple measurement items optional



- Extreme value operation and reference value operation function, with analog bar

UNI-TREND.VN

Key Specifications	UT8803E	
	Range	Accuracy (90 days)
DC voltage (V)	1000V	±(0.3% +2)
AC voltage (V)	750V	±(0.6% +5)
DC current (A)	10A	±(0.8% +3)
AC current (A)	10A	±(1% +5)
Capacitance (F)	6mF	±(1.5% +5)
Resistance (Ω)	60MΩ	±(0.8%+5)
Inductance (H)	100H	±(2% +5)
Temperature (°C/°F)	-40° C-1000° C	±(1% +5)
Frequency (Hz)	600Hz-20MHz	±(0.1% +10)
Duty cycle (%)	5%-95%	Only for reference
Display count	5999	
DCV Accuracy	0.30%	
Sampling speed	2-3 rdgs/s	
Frequency response (Hz)	100kHz	
Range	Manual,Auto	
Input impedance for DCV	10MΩ	
True RMS	√	
Diode/triode	√	
SCR test	√	
Continuity buzzer/data hold	√	
LCD backlight	√	
Interface	USB Device	

General Characteristics	
Power	100V/120V/220V/240V ±10%, 47Hz-63Hz
Display	EBTN LCD
Product net weight	3.09kg
Product size	265mm x 110mm x 320mm
Standard quantity per carton	2pcs
Standard carton measurement	380mm x 330mm x 320mm
Standard carton gross weight	9kg

Ordering Information

UT8000E Series	UT8803E:Benchtop Digital Multimeter(Display:5999,0.3%,Range:Manual)
Standard Accessories	International standard power cord
	USB interface cable
	Test leads
	simple test lead with alligator
	temperature probe



UT8803E

UNI-TREND.VN

UT8802E

4½ Digital Multimeter



UT8802E is a manual range, benchtop digital multimeter that features 19999 display counts, large screen with back light, full scale over load protection and a unique design. This instrument can be used to Measure AC and DC voltage, AC and DC current, resistance, frequency, capacitance, transistor, hFE, diode (LED), SCR, continuity, etc.

- Reading resolution: 4½, maximum reading 19999
- Measuring rate: 3 reading/s
- DC voltage range: 200mV-1000V
- DC current range: 200µA-20A
- AC voltage range: 2V-750V
- AC current range: 2mA-20A
- Resistance range: 200Ω-200MΩ
- Capacitance range: 20nF-100mF

- Frequency measurement range: 200Hz-10MHz
- Duty cycle measurement range: 5%-99%
- Mathematical operation: maximum, minimum, relative value
- Interface: USB device, it can be connected to the upper computer control software
- Frequency response: 1KHz
- It can measure diode, triode and thyristor



- Can display 4 ½ bit (19999), which can provide you with high-precision and accurate result display



- With diode measurement function



- With the help of UT-S03A, the measurement of triode and thyristor can be realized



- functions of extreme value operation and reference value operation

Key Specifications	UT8802E	
	Range	Accuracy (90 days)
DC voltage (V)	200mV/2V/20V/200V/1000V	±(0.1% +3)
AC voltage (V)	2V/20V/200V/750V	±(0.5% +20)
DC current (A)	200μA/2mA/20mA/200mA/20A	±(0.5% +20)
AC current (A)	2mA/20mA/200mA/20A	±(0.8% +40)
Capacitance (F)	20nF/200nF/2μF/20μF/200μF/2mF/20mF/100mF	±(1.5% +10)
Resistance (Ω)	200Ω/2kΩ/20kΩ/200kΩ/200kΩ/2MΩ/200MΩ	±(0.5% +10)
Frequency (Hz)	200Hz-10MHz	±(1% +5)
Duty cycle (%)	5%-99%	±(1.5% +2)
Display count	19999	
DCV Accuracy	0.001	
Sampling speed	2-3 rdgs/s	
Frequency response (Hz)	1kHz	
Range	Manual	
Input impedance for DCV	10MΩ	
Diode/triode	√	
SCR test	√	
Continuity buzzer/data hold	√	
LCD backlight	√	
Interface	USB Device	

General Characteristics	
Power	100V/120V/220V/240V ±10%, 47Hz-63Hz
Display	EBTN LCD
Product net weight	3.09kg
Product size	265mm x 110mm x 320mm
Standard quantity per carton	2pcs
Standard carton measurement	380mm x 330mm x 320mm
Standard carton gross weight	9kg

Ordering Information

UT8000E Series	UT8802E:Benchtop Digital Multimeter(Display:19999,0.1%,Range:Manual)
Standard Accessories	International standard power cord
	USB interface cable
	Test leads
	simple test lead with alligator



UT8802E

UNI-TREND.VN

UT800 Series

Digital Multimeters



The UT800 Series true RMS value digital multimeter can be selected from 3½ digits to 5½. Lightweight and economical, with manual and automatic range, AC and DC power supply, high reliability, high precision and multiple test functions. It has a large screen with backlight, super large character display, full function, All-round overload protection and unique appearance design, and equipped with a tool box, make it a more superior electronic and electrical testing instrument. It is suitable for measurement in electronics, communications, manufacturing, petroleum, electric power, chemical and other industries. It is an indispensable experimental tool for college experiments.

- 39999-count auto range/TRMS
- 256 x 64 pixels dot-matrix LCD
- High accuracy up to $\pm(0.015\%+3)$ for DC voltage
- Analog bar display(UT804)
- Data storage and readback function
- Overload protection
- Provide DC and AC two power supply methods
- RS-232 and USB interfaces

Key Specifications	UT801	UT802	UT803	UT804
Display count	1999	19999	5999	39999
DCV Accuracy	$\pm(0.5\%+2)$	$\pm(0.1\%+3)$	$\pm(0.3\%+2)$	$\pm(0.025\%+5)$
Sampling speed	2-3 rdgs/s	2-3 rdgs/s	2-3 rdgs/s	2-3rdgs/s
DC voltage (V)	200mV/2V/ 20V/200V/1000V	200mV/2V/ 20V/200V/1000V	1000V	1000V
AC voltage (V)	2V/20V/200V/750V	2V/20V/200V/750V	1000V	1000V
DC current (A)	200μA/2mA/ 20mA/200mA/10A	200μA/2mA/ 20mA/200mA/10A	10A	10A
AC current (A)	2mA/20mA/200mA/10A	2mA/20mA/200mA/10A	10A	10A
Capacitance (F)	20nF/2μF/200μF	20nF/2μF/200μF	6mF	2mF
Resistance (Ω)	200Ω/2kΩ/20kΩ/ 200kΩ/2MΩ/20MΩ	200Ω/2kΩ/20kΩ/ 200kΩ/2MΩ/200MΩ	60MΩ	40MΩ
Temperature (°C/°F)	-40° C-1000° C	-40° C-1000° C	-40° C-1000° C	-270°C-1760°C
Frequency (Hz)	2kHz/200kHz	2kHz/200kHz	60Hz-60MHz	40Hz-400MHz
Frequency response (Hz)	400Hz	400Hz	100kHz	100kHz
Range	Manual	Manual	Auto	Auto
Diode/Continuity	√	√	√	√
SCR/Transistor hFE	√	√	√	--
Hold	√	√	√	√
LCD backlight	√	√	√	Double LCD backlight
Auto power off	--	--	√	√
Low battery indication	√	√	√	√
True RMS	--	--	√	√
AC+DC measurement	--	--	√	√
Data storage	--	--	--	9999
Analog bar graph	--	--	--	81
Input protection	√	√	√	√
Interface	--	--	USB,RS-232	USB,RS-232

General Characteristics			
Power	AC 220V/50Hz or 1.5V batteries (R14) x 6;		
Display	EBTN LCD 128mm x 28mm		
Product net weight	1.65kg	2.4kg	2.2kg
Product size	300mm x 245mm x 105mm	310mm x 240mm x 105mm	
Standard quantity per carton	4pcs		
Standard carton measurement	680mm x 365mm x 320mm		
Standard carton gross weight	8.6kg	8.3kg	11.2kg

Ordering Information	
UT800 Series	UT804: Benchtop Digital Multimeter(Display:40000,0.025%,Range:Auto)
	UT803: Benchtop Digital Multimeter(Display:6000,0.3%,Range:Auto)
	UT802: Benchtop Digital Multimeter(Display:20000,0.1%,Range:Manual)
	UT801: Benchtop Digital Multimeter(Display:2000,0.5%,Range:Manual)
Standard Accessories	International standard power cord
	USB interface cable(803/804)
	RS232interface cable(803/804)
	Test leads
	simple test lead with alligator
	temperature probe (UT801/2/3/4)

UNI-TREND



UT800 Series







Bench Meters

LCR Meters

Selection Guide

Series	Model	Highest Frequency	Basic Accuracy	Display Count	Measurement Rate	DCR	Display
UTR2830	UTR2833E	300kHz	0.05%	999999	80 /s	yes	4.3" TFT LCD
	UTR2832E	200kHz					
	UTR2830E	100kHz					
UTR2810+	UTR2810E+	10kHz	0.10%	999999	23 /s	no	2.8" TFT LCD
	UTR2811E+						
UT622	UT622E	100kHz	0.10%	99999	20 /s	yes	2.8" TFT LCD
	UT622C					no	
	UT622A	10kHz					

Accessories

Model	Picture	Information	Certification	Series
UTR-L100k-H		Four-terminal Kelvin test line, frequency:100KHz	ROW	UT622
UTR-L100kS-H		SMD Kelvin Test Pliers, frequency:100KHz		UT622
UTR-L10kE		UTR-L10kE: Kelvin test cable with crocodile clip		UTR2810
UTR-L1ME		Kelvin test cable with crocodile clip		UTR2830;UTR2810+
UTR-S10kE		UTR-S10kE: 4-wire test box		UTR2810
UTR-S100kE		4-wire test box for UTR2810+ Series, UTR2830E Series		UTR2830;UTR2810+

UTR2830 Series

Benchtop LCR Meters



UTR2830 series is a new generation of low-cost, high-performance compact LCR digital bridge. Concentrate the essence of large LCR tester, compact and small. 0.05% basic accuracy and good test stability. Equipped with a 4.3-inch LCD display and a newly upgraded interface system. Beautiful and generous, easy to operate. The instrument provides rich interfaces. Various test systems can be easily formed to meet the various needs of inspection, production and scientific research.

- 4.3-inch TFT-LCD display and simple panel operation
- Test frequency 20Hz-300kHz
- Basic accuracy 0.05%
- Test speed 12.5ms/time

- Internal resistance 30Ω, 50Ω, 100Ω optional
- 10-level sorting, counting, PASS/FAIL display
- Soft power switch
- Rich interfaces, supporting SCPI protocol



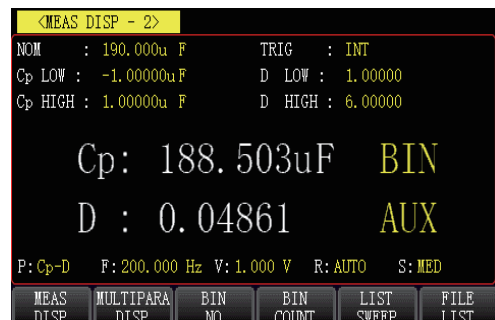
- 4.3-inch full-color LCD display, clear measurement parameters and data



- Multi-parameter display, multiple parameter measurement results can be seen at the same time



- List scan for automatic measurement at multiple frequencies and voltages



- 10-level comparator can group the tested products into batches

Key Specifications		UTR2830E	UTR2832E	UTR2833E
Test frequency	Frequency range	20Hz-100kHz	20Hz-200kHz	20Hz-300kHz
	Minimum resolution	100mHz		
	Accuracy	±0.02%		
AC level	Voltage range	10mVrms-2Vrms		
	Accuracy	±10%×Set value+2mV		
Internal resistance of AC source	ISO ON	100Ω		
	ISO OFF	30Ω / 50Ω / 100Ω Optional		
Measurement parameters		L,C,R, Z ,D,Q, Y ,G,X,θd,θr,RDC,Vm,Im, Δ %		
Display range		R, X, Z :0.00001Ω - 99.9999MΩ; G, B, Y :0.00001μS - 99.9999S; L:0.00001μH - 99.9999kH; C:0.00001pF - 9.99999F; D:0.00001 - 9.99999; Q:0.00001 - 99999.9; θd:-179.999° - 179.999°; θr:-3.14159 - 3.14159; DCR:0.00001Ω - 999.999MΩ; Δ%:-999.999% - 999.999%		
Test speed (mS / time)		Fast: 12.5ms; Medium speed: 83 ms; Slow speed: 167 ms		
Test side configuration		5		
Clearing mode		Open circuit, short circuit, load		
List Scan		201 points, scanning parameters: test frequency, AC voltage, AC current, DC BIAS voltage, DC BIAS current		
Equivalent mode		Series, parallel		
Range mode		Auto, hold		
Trigger mode		Internal, manual, external, bus		
Average times		1-255 times		
Math operation		Direct reading, Δ ABS, Δ %		
Delayed		Trigger delay, step delay: 0 - 60.000s, 1ms step		
Comparator		10 bins sorting, BIN1-BIN9, NG, AUX, bin counting function, PASS, FALL front panel LED display		
Storage		Internal: 100 sets of instrument built-in test setting files, 201 test results,USB memory: configuration files, GIF images, CSV data files		
Interface		RS232,HANDLER,USB HOST,USB DEVICE,LAN		

General Characteristics	
Power	AC 110V/220V 43-63Hz
Display	4.3" TFT LCD 480×272
Product size (W×H×D)	215mm×88mm×350mm
Product net weight	4.65kg
Standard quantity per carton	1pcs

Ordering Information

UTR2830 Series LCR Meters	UTR2830E: Benchtop LCR Meters (100kHz, 0.05%)
	UTR2832E: Benchtop LCR Meters (200kHz, 0.05%)
	UTR2833E: Benchtop LCR Meters (300kHz, 0.05%)
Standard Accessories	Power cable
	Four-wire test clamp
	Four-terminal Kelvin test line
	Short circuit board
	USB data cable
	RS232 data cable



UT2830 Series

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UTR2810+ Series

Benchtop LCR Meters



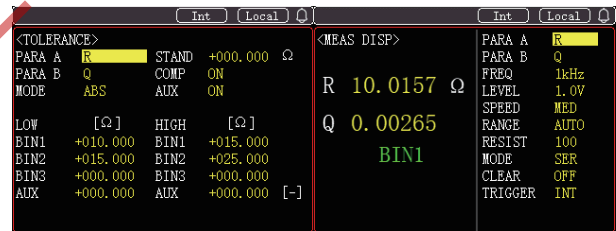
UTR2810+ series LCR digital bridge is a new generation of low frequency components measuring instrument launched by UNI-T. Small size, light weight, beautiful appearance, simple operation, ultra-high cost performance and good test stability. It can meet the needs of production line quality assurance, incoming inspection and automatic production.

- Test frequency: 100 / 120 / 1K / 10kHz
- Basic accuracy 0.1%
- Test level: 0.1/0.3/1Vrms
- Measurement parameters: C,L,Z,R,X,G,B,Y,Q,D,θ
- 30 Ω and 100 Ω output impedance

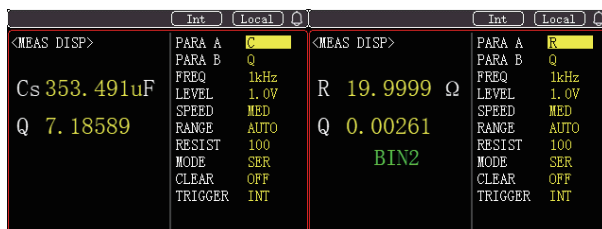
- Comparator: four gear, BIN1/BIN2/BIN3/NG
- Fast test speed (30ms/time)
- 2.8-inch TFT LCD display, all measurement results and parameters are clear at a glance
- RS232 communication, following the standard SCPI communication protocol



- 2.8inch TFT LCD, full-color display more content. Supports full-screen display for clearer measurement results



- The comparator function can realize 4-gear sorting



- The basic test accuracy is 0.1%, which can test a variety of electronic components



- Support remote control. PC can set, view and analyze data

Key Specifications		UTR2810E+	UTR2811E+
Test frequency	Frequency range	100Hz,120Hz,1kHz,10kHz	
	Minimum resolution	Four digit display	
	Accuracy	0.02%	
AC level	Voltage range	0.1V,0.3V,1V	
	Accuracy	±10%×Set value	
Internal resistance of AC source	Resistance	30Ω / 100Ω Optional	
	Output impedance accuracy	±5%	
Measurement parameters		Cs-Rs, Cs-D, Cp-Rp, Cp-D, Lp-Rp, Lp-Q, Ls-Rs, Ls-Q, Rs-Q, Rp-Q, R-X, Z-θr, Z-θd, Z-D, Z-Q, Auto LCZ	
Display range		R, X, Z :0.00001Ω - 99.9999MΩ; G, B, Y :0.01nS - 999.999S; L:0.00001uH - 9999.99H; C:0.00001pF - 9999.99mF; D:0.00001 - 9.99999; Q:0.00001 - 99999.9; θd: -179.999° - 179.999°; θr: -3.14159 - 3.14159;	
Test speed (mS / time)		Fast: 43ms;Medium speed: 185ms;Slow speed: 350ms	
Test end configuration		Open circuit, short circuit, load	
Equivalent mode		Series, parallel	
Range mode		Auto, hold	
Trigger mode		Internal, manual, external(only UTR2810E+), bus UTR2810E+	
Mathematical operation		Direct reading, Δ ABS, Δ %	
Comparator		4-gear sorting, BIN1-BIN3, NG, AUX	
Interface		RS232 HANDLER	--

General Characteristics	
Power	AC 110V/220V 50/60Hz
Display	2.8" TFT LCD 240×320
Product size (W×H×D)	174 mm× 88 mm× 267 mm
Product net weight	2.15kg
Standard quantity per carton	1pcs
Standard carton size	375mm×270mm×200mm

Ordering Information

UTR2810+ Series Benchtop LCR Meters	UTR2810E+:Benchtop LCR Meters (10kHz, 0.1%)
	UTR2811E+:Benchtop LCR Meters (10kHz, 0.1%)
Standard Accessories	UTR-001:Short circuit board (UTR2810E+)
	UTR-L10kE:Kelvin test cable with crocodile clip
	UTR-S100KE:4-wire test box (UTR2810E+)
	RS232 Communication cable (UTR2810E+)



UTR2810+ Series

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UT622 Series

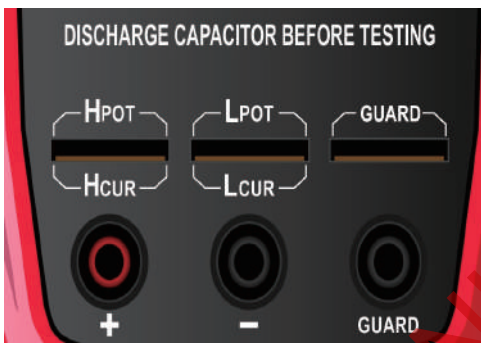
Benchtop LCR Meters



UT622 Series Handheld LCR meters feature powerful functions, high accuracy, fast speed, and long standby time. With a clear and intuitive 2.8-inch TFT LCD display, large-capacity rechargeable battery, and up to 100kHz test frequency, the meters can be used for longstanding accurate and convenient measurement in any occasion. They are suitable for the measurement and screening of inductance, capacitance, and resistance in laboratories, production lines, maintenance points, etc.

- Up to 100kHz test frequency
- Up to 0.1% measurement accuracy
- High-brightness white backlight
- Max reading of primary parameters: 99999 counts; D/Q resolution: 0.0001
- Ultra-low power consumption and long battery life (8 hours)
- Maximum test speed: 20 times/s (UT622E)

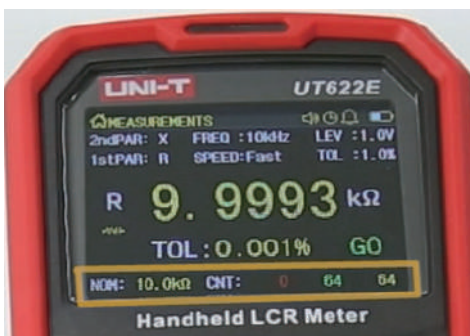
- Constant 100Ω output impedance
- Tolerance range: 1%-20%
- Open/short circuit clear function
- Data hold and recording mode
- Standard Mini-USB interface, SCPI command set



- 3-terminal and 5-terminal test ports



- L/C/R/Z main parameter component test



- Tolerance mode used for component sorting



- Recording mode used for statistics

Key Specifications	UT622A	UT622C	UT622E
Test frequency	100Hz, 120Hz, 1kHz, 10kHz	100Hz, 120Hz, 1kHz, 10kHz, 100kHz	100Hz, 120Hz, 1kHz, 10kHz, 100kHz
Test signal level	0.1Vrms, 0.3Vrms, 1Vrms		
Output impedance	100Ω		
Measurement parameters	Primary: L/C/R/Z Secondary: D/Q/θ/ESR		Primary: L/C/R/Z/DCR Secondary: D/Q/θ/ESR
Auto LCR	√		
Test terminals	Three-terminal test jacks, five-terminal test sockets		
Test rate	Fast (20 times/s), medium (5 times/s), or slow (2 times/s)		
DCR test rate	--	--	Fast (20 times/s), medium (5 times/s), or slow (2 times/s)
Ranging mode	Auto/hold		
Tolerance range	1%-20%		
Testing circuit mode	Series/parallel mode		
Clearing correction	Open/short circuit		
Communication interface	Mini-USB		
LED alarm for tolerance	(pass: green; fail: red)		
Display range			
Display count	99999		
Minimum resolution	0.0001		
Maximum accuracy	0.1%		
L	0.001μH-9999.9H		
C	0.001pF-99.999mF		
Z/R	0.0001Ω-99.999MΩ		
ESR	0.01mΩ-999.99Ω		
D	0.0001-9.9999		
Q	0.0001-99999		
θ	-179.9°-179.9°		
DCR	--		0.01mΩ-999.99kΩ

General Characteristics	
Power	3.7V 1800mAh lithium polymer battery
Display	2.8 inches TFT LCD 320×240
Product size (W×H×D)	90mm×190mm×44mm
Product net weight	305g
Standard quantity per carton	5pcs
Standard carton size	335mm×245mm×245mm
Standard carton gross weight	3.9kg

Ordering Information	
UT622 Series	UT622E:Handheld LCR Meters (100kHz, 0.1%, DCR)
	UT622C:Handheld LCR Meters (100kHz, 0.1%)
	UT622A:Handheld LCR Meters (10kHz, 0.1%)
Standard Accessories	UTR-001:Short circuit board
	UTR-002:Alligator clip test leads with rubber plugs (UT622A)
	UTR-L100k-H:Four-terminal Kelvin test leads (UT622C/E)
	USB interface cable
	5V 1A power adapter
Optional Accessories	UTR-L100kS-H:SMD Kelvin test tweezers
	UTR-L100k-H:Four-terminal Kelvin test leads
	UTR-002:Alligator clip test leads with rubber plugs

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UT622 Series






Bench Meters

Battery Testers

Selection Guide

Series	Model	Voltage Range	Resistance Range	Accuracy	On-line Measurement	Display
UT3560	UT3563	0.00001V-400.000V	0.0001mΩ-3.2000kΩ	V:0.01%R:0.5%	No	4.3inch TFT LCD
	UT3562	0.00001V-100.000V				
UT3550	UT3550	0.0001V-100.00V	0.001mΩ-30.00Ω	V:0.05%R:0.5%	Yes	3.5inch TFT LCD

Accessories

Model	Picture	Information	Certification	Series
UT-L80		Crown probe test lines (Four terminal connection type)	ROW	UT3560
UT-L81		Kalvin Clips Test Wire (four-terminal wiring type)		UT3560;UT3550
UT-L82		Kelvin test lead (four-terminal wiring type)		UT3560
UT-L87		Kelvin test lead (four-terminal wiring type)		UT3560;UT3550
UT-L86		Crown probe test lines (Four terminal connection type)		UT3560;UT3550

UT3560 Series

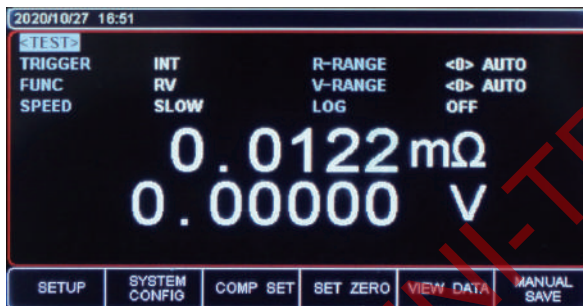
Battery Tester



The UT3560 Series Battery Testers contain 2 models: UT3562 and UT3563, which are used to detect the battery internal resistance, include battery module test, battery R&D measurement, high-voltage battery set test, and high-speed assembly line tests of lithium battery, lead-acid battery and button battery.

- 31,000-count AC resistance reading, 606,000-count DC voltage reading
- Resistance: 0.0001mΩ-3.2kΩ
- Voltage: 0.00001V-400.000V DC
- Manual range, automatic range switching function
- 0.5% resistance accuracy, 0.01% high precision voltage accuracy

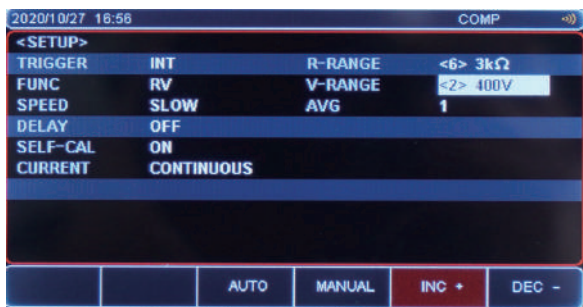
- Handler, RS-232, USB Device interfaces, SCPI and Modbus protocol
- With recording and statistics functions, up to 10,000 sets of data can be calculated
- 4.3 inch large screen LCD display



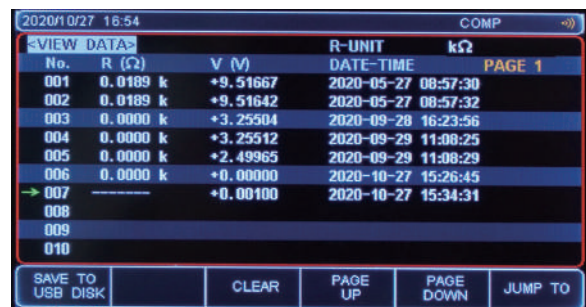
- 5 Resistance readings, 6 voltage readings, high precision and high resolution accuracy



- Can set the impedance and voltage upper and lower limit comparison function



- Manual range, automatic range switching function



- The instrument has record and statistical file management functions

Key Specifications	UT3562	UT3563
Voltage range	6V/60V/100V	6V/60V/100V/400V
Resolution	Resistance: 0.1μΩ, Voltage: 10μV	
Speed	Slow/Medium/Rapid/High-speed	
Resistance range	3mΩ/30mΩ/300mΩ/3Ω/30Ω/300Ω/3kΩ	
Temperature coefficient	Voltage: (±0.001%rdg.±0.3dgt)/°C; Resistance: (±0.05%rdg.±0.5dgt)/°C	
Basic accuracy	Resistance: 0.5%, Voltage: 0.01%	
Range mode	Auto and manual (resistance and voltage)	
Calibration	Short-circuit full range zeroing	
Sorting function	2 types of sorting result output: PASS/FAIL	
Beeper	OFF, PASS, FAIL	
Comparing method	Absolute tolerance, percentage tolerance, direct-reading comparison	
Button functions	Lock -keyboard lock, Print Sc -screenshot	
System setup	Language: Chinese/English, key tone setting	
Storage	FAT storage function (supports USB disk storage, mobile hard disk drive is not supported)	
Interfaces & protocols	Handler interface, RS-232 and USB communication interface, SCPI and Modbus protocol	
PC software		

General Characteristics	
Power	AC 100-240V,50/60Hz
Display	4.3 inch LCD
Product size (W×H×D)	340mm x 214mm x 89mm
Product net weight	2.6kg
Standard quantity per carton	2pcs
Standard carton size	420mm x 360mm x 405mm
Standard carton gross weight	8.6kg

Ordering Information

UT3560 Series	UT3563: Battery Testers (400V, 3.2k Ω)
	UT3562: Battery Testers (100V, 3.2k Ω)
Standard Accessories	International standard power cord
	UT-L82: Kelvin test lead x1
	UT-L80: Crowd test lead x1
Optional Accessories	UT-L81: alligator clip test lead



UT3560 Series

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UT3550 Series

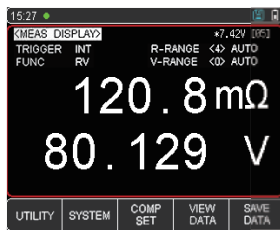
Battery Tester



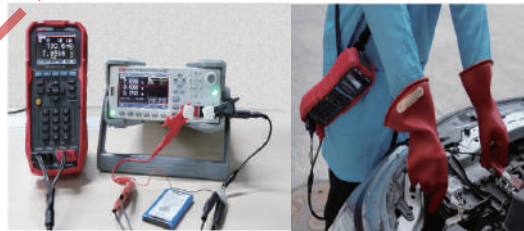
The UT3550 is a hand-held battery tester with automatic real-time detection. The portable handheld design allows flexible test scenarios. It is a measuring instrument with high accuracy and high resolution. Equipped with USB type C interface for remote control and data acquisition and analysis. Support SCP protocol. It is mainly used in the quality inspection of various batteries. UPS can be directly measured online with high accuracy.

- High-accuracy: Resistance 0.5%/Voltage 0.05%
- Internal resistance measurement range: 0.001mΩ - 30.00Ω
- Voltage measurement range: 0.0001V - 100.00V
- Resolution: 0.001mΩ (resistance), 0.1mV (voltage)
- Comparison mode: SE0, PER, ABS
- The new AC internal resistance test method, measures almost all types of batteries
- 3.5 inch LCD main display

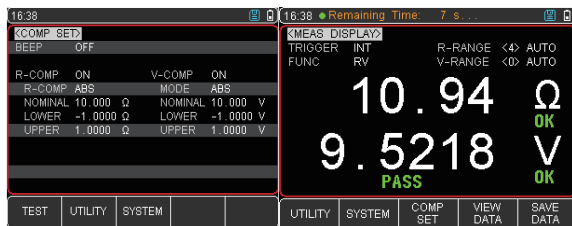
- 0.96 inch auxiliary display screen
- UPS can be measured directly online
- USB data storage and screenshot saving function
- Lithium battery power supply (2000mAh)
- Provide type C interface to realize remote control
- Support SCP protocol
- Protection grade IP65



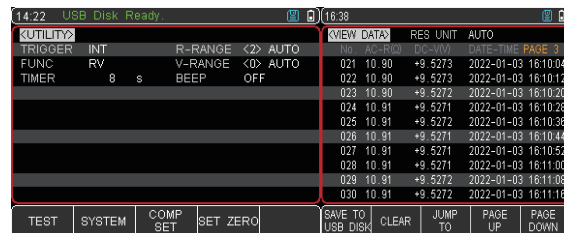
- 3.5 inch LCD, full-color display more content, 0.96 inch auxiliary screen provides convenience for outdoor operation.



- Support online testing, fixed and mobile scenario testing.



- Three comparison modes: direct reading value, percentage and absolute value. Help you with quick battery screening.



- Set the interval time to automatically record the measurement data. Up to 500 sets of data can be saved. Exportable CSV format documents to USB flash disk to facilitate data analysis.

Key Specifications	UT3550
Voltage range	10V,100V
Voltage resolution	100μV,1mV
Voltage accuracy	±0.05%rdg ±5dgt
Resistance range	3mΩ,30mΩ,300mΩ,3Ω,30Ω
Resistance resolution	1μΩ,10μΩ,100μΩ,1mΩ,10mΩ
Resistance accuracy	±0.5%rdg ±5dgt
Range Mode	Auto and Manual(resistance and voltage)
Calibration	Short circuit full range to zeroed
Testing Speed	1/s(manual range)
Filter function	low limit and conform.Sorting result has two output situations: PASS and FAIL.
Beeper	OFF, OK, NG
Comparison Mode	Absolute deviation(ABS), Relative deviation(PER),Directreading(SEQ)
Other Function	Lock keypad, U disk storage, keypad tone, Chines/English language, screenshot
Test Terminal	Four-terminal test method
Trigger	Internal, manual and remote trigger
Storage	Internal 500 groups, exportable CSV files
Interface	Type-c interface (communication)/USB DEVICE (storage)/charge interface
Upper-computer Software	SCPI

General Characteristics	
Power	AC 100-240V, 50/60Hz
Display	3.5 inch LCD display +0.96 inch OLED on the top
Product size (W×H×D)	114.5mm×251.9mm×85.3mm
Product net weight	0.84kg
Standard quantity per carton	2pcs
Standard carton size	285mm× 240mm × 325mm
Standard carton gross weight	2.1kg

Ordering Information

UT3550 Series	UT3550:Battery Testers (100V, 30Ω)
Standard Accessories	Power adapter
	Soft carrying pouch 1pc
	Shoulder belt 1pc
	USB communication cable-Type-C 1pc
	Magnetic strap 1pc
	UT3550 kelvin clips wire 1pc
Optional Accessories	UT3550 crown pen test line



UT3550 Series

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Micro Ohm Meters

Selection Guide

Series	Model	Display Count	Resistance Range	Accuracy	Measurement Rate	Display
UT3510+	UT3516+	4½	1μΩ-2MΩ	0.05%	100/s	4.3" TFT LCD
	UT3513+		1μΩ-20kΩ			

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UT3510+ Series

Battery Tester



The UT3510+ series of benchtop Micro Ohm Meter includes the UT3513+ and UT3516+ models. 4.3-inch LCD display. With high precision, high resolution and high speed measurement characteristics, with the highest accuracy of 0.05%, the minimum resolution of 1 $\mu\Omega$. UT3513+ and UT3516+ standard RS-232C, RS485, LAN port and HANDLER communication interface, support for SCPI and MODBUS RTU protocols, and can be with the computer, PLC or WINCE device communication, and efficiently complete the remote control and data acquisition functions.

- 4.3-inch TFT LCD display
- 0.05% accuracy
- Minimum resolution 1 $\mu\Omega$, 4 1/2 digit data display
- UT3513+ Measuring range: 1 $\mu\Omega$ - 20k Ω
- UT3516+ Measuring range: 1 $\mu\Omega$ - 2M Ω
- Combination of R,LPR,T multiple test functions
- Low voltage (LRP) test mode

- Temperature compensation function (TC)
- Temperature conversion function (Δt)
- With U drive data storage and screenshot saving function
- Comparator sorting and beeping functions
- Support data saving and data viewing
- Maximum test speed 10ms/time
- Built-in temperature compensation interface



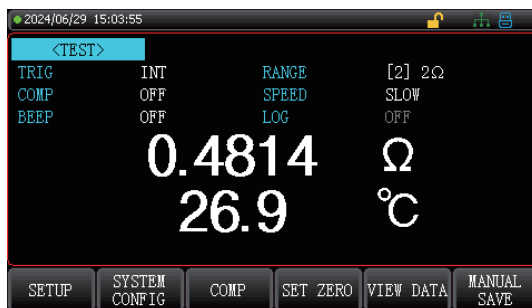
- R/R-T/T/LPR/LPR-T five modes can be selected, LPR is a low-voltage test mode, can effectively protect the DUT



- 6 bins comparator



- Logging: Up to 10000 groups of data can be recorded; Statistics: up to 10,000 sets of data, process capability index calculation possible



- Temperature correction and conversion

Key Specifications	UT3513+	UT3516+
Resistance range	1μ - 20 kΩ	1μ - 2 MΩ
Resolution	1μΩ/10μΩ/100μΩ/1mΩ/10mΩ/100mΩ/1Ω/10Ω/100Ω	
Test current	1A/1A/100mA/10mA/1mA/1mA/100μA/10μA/1μA	
Open-circuit Voltage on Test End	"<1V/<1V/<1V/<2.7V/<2.7V/<2.7V/<2.7V/<2.7V/<2.7V LPR mode:<40mV"	
Test mode	R,T,R-T,LPR,LPR-T	
Basic accuracy	0.05%	0.05%
Reading resolution	4½	
Range mode	Auto/manual/nominal	
Test speed	High speed 10 ms/time, fast speed 17 ms/time, medium speed 56 ms/time, slow speed 334 ms/time	
Calibration	Short-circuit full range zeroing	
Comparator	6-BIN sorting	6-BIN sorting
Statistics and logging	10000	10000
Bias voltage compensation	Yes	Yes
Temperature compensation	Yes	Yes
Temperature conversion	Yes	Yes
Communication interface	RS232,RS485,HANDLER,LAN	RS232,RS485,HANDLER,LAN

General Characteristics	
Power	AC 100-240V, 50/60Hz
Display	4.3 inches LCD
Product size (W×H×D)	215mm x 88mm x 348.5mm
Product net weight	2.5kg
Standard quantity per carton	1pcs
Standard carton size	515mm x 365mm x 220mm
Standard carton gross weight	8.5kg

Ordering Information

UT3510+ Series	UT3516+:Micro Ohm Meter (2M Ω , accuracy: 0.05%)
	UT3513+:Micro Ohm Meter (20k Ω , accuracy: 0.05%)
Standard Accessories	International standard power cord
	RS232 dual-female communication cable
	Kelvin test cable
	PT1000 temperature sensor test cable (only UT3516+)



UT3510+ Series



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Power Meters

Selection Guide

Series	Model	Voltage Range	Current Range	Frequency Range	Accuracy	Measurement mode	Harmonic Analysis
UTE300	UTE310H	75mV-1000V	5mA-50A	DC,0.1Hz-300kHz	$\pm(0.1\% \text{reading} + 0.05\% \text{range})$	DC TRMS MN	yes
	UTE310	75mV-600V	25uA-20A		$\pm(0.1\% \text{reading} + 0.05\% \text{range})$		
UTE9800+	UTE9802+	3.0V-600V	0.5mA-20.0A	DC,40Hz-400Hz	$\pm(0.4\% \text{ reading} 0.1\% \text{range} + 1 \text{digit})$	AC DC AC+DC(T-RMS)	No
	UTE9806+	0.5V-600V	0.05mA-10.0A	40Hz-400Hz		AC	
	UTE9811+	3.0V-600V	5mA-20.0A	40Hz-70Hz			Yes

Accessories

Model	Picture	Information	Certification	Series
UTE-L10A		10A AC plug to banana head power connecting wire, 16A Connecting wire with alligator clip	ROW	UTE9800+
UTE-L16A		16A AC plug to banana head power connecting wire, 16A Connecting wire with alligator clip		UTE9800+

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UTE300 Series NEW

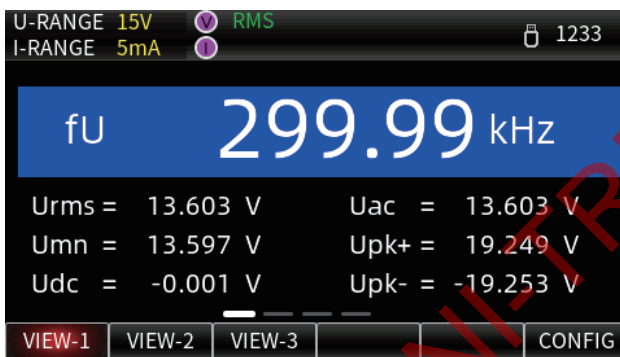
Power Meter



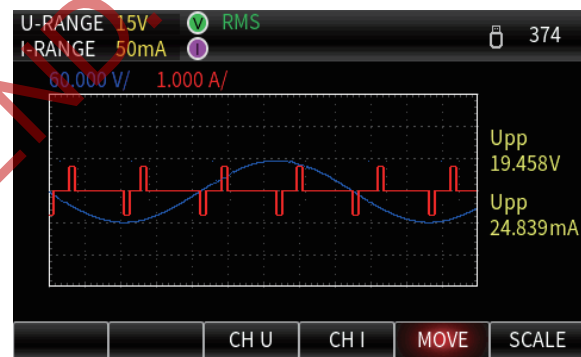
The UTE300 series are high accuracy, high performance digital power meters. The 4.3-inch full-color display, rich interfaces, and waveform display function make it a better user experience. High precision and high resolution bring you more accurate measurement results. The current and voltage measurement range of 25uA-50A / 75mV-1000 V and the measurement bandwidth of 300kHz can meet the needs of a wide range of applications such as production, testing and R&D.

- 4.3" TFT-LCD display resolution 480*272
- Measuring range of voltage and current RMS: 25uA-50A / 75mV-1000V
- Voltage and current highest resolution: 1mV/0.1uA
- Basic accuracy of voltage, current and power: 0.1%
- Highest power resolution: 0.001mW
- Abundant communication interfaces: USB, RS-232 or GPIB (optional), LAN

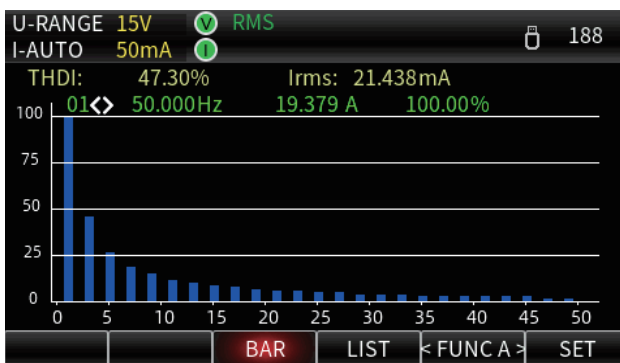
- Measurement bandwidth: 0.1Hz-300kHz
- Sample rate: 1MHz
- Can support both Modbus and SCPI communication protocols
- Voltage and current waveform display, harmonic graph display, D/A output for measurement recording, comparator function, current sensor input, USB data storage



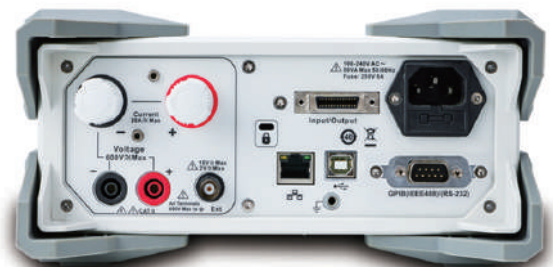
- 4.3" TFT color screen, multi-parameter display on one screen
- 300kHz analog bandwidth to capture higher frequency signals



- 1MHz Sample rate, more accurate transient signal measurement



- 50th harmonic Support IEC61000-4-7 standard



- Rich interfaces

Key Specifications		UTE310	UTE310H
Bandwidth		DC,0.1Hz-300kHz	DC,0.1Hz-300kHz
Sample rate		1MHz	1MHz
Voltage	Range	CF=3,15V/30V/60V/150V/300V/600V CF=6 or 6A, 7.5V/15V/30V/75V/150V/300V	CF=3,15V/30V/60V/150V/300V/600V/1000V CF=6 or 6A, 7.5V/15V/30V/75V/150V/300V/500V
	Resolution	0.001V/0.01V	0.001V/0.01V/0.1V
Current	Range	CF=3, 5mA/10mA/20mA/50mA/100mA/200mA/500mA /1A/2A/5A/10A/20A CF=6 or 6A, 2.5mA/5mA/10mA/25mA/50mA/100mA/250mA/0.5A/1A/2.5A/5A/10A	CF=3, 1A/2A/5A/10A/20A/50A CF=6 or 6A, 0.5A/1A/2.5A/5A/10A/25A
	Resolution	0.0001mA/0.001mA/ 0.01mA/0.1mA/1mA	0.1mA/1mA
Sensor channel Ext1 & Ext2	Range	CF=3, 50mV/100mV/200mV/500mV/1V/2V/5V/10V CF=6 or 6A, 25mV/50mV/100mV/250mV/500mV/1V/2.5V/5V	CF=3, 50mV/100mV/200mV/500mV/1V/2V/5V/10V CF=6 or 6A, 25mV/50mV/100mV/250mV/500mV/1V/2.5V/5V
	Resolution	1uV/10uV/100uV/1mV	1uV/10uV/100uV/1mV
Power	Range	75mW-12000W	75mW-50000W
	Resolution	0.001mW	0.001mW
Frequency	Range	Different data refresh rates, different frequency ranges 0.1 S: 20Hz≥f≤300kHz 0.25 S: 10Hz≥f≤300kHz 0.5 S: 5.0Hz≥f≤300kHz 1 S: 2.0Hz≥f≤300kHz 2 S: 1.0Hz≥f≤300kHz 5 S: 0.5Hz≥f≤300kHz 10 S: 0.2Hz≥f≤300kHz 20 S: 0.1Hz≥f≤300kHz Auto: 0.1Hz≥f≤300kHz	Different data refresh rates, different frequency ranges 0.1 S: 20Hz≥f≤300kHz 0.25 S: 10Hz≥f≤300kHz 0.5 S: 5.0Hz≥f≤300kHz 1 S: 2.0Hz≥f≤300kHz 2 S: 1.0Hz≥f≤300kHz 5 S: 0.5Hz≥f≤300kHz 10 S: 0.2Hz≥f≤300kHz 20 S: 0.1Hz≥f≤300kHz Auto: 0.1Hz≥f≤300kHz
		Waveform display	U and I
Line filter		yes	yes
Frequency filter		yes	yes
Harmonic measurement		1-50 times, IEC61000-4-7	1-50 times, IEC61000-4-7
Integral function		Average active power integration, current integration	Average active power integration, current integration
Math operation		yes	yes
DA output and control		yes	yes
Interface		RS-232/GPIB (optional),LAN,USB	RS-232/GPIB (optional),LAN,USB
Support protocol		Support SCPI ,Modbus	Support SCPI ,Modbus

General Characteristics	
Power	100V-240VAC, 50/60Hz
Display	4.3inch TFT-LCD (480×272)
Product net weight	2.7kg
Product size	254.2mm×113.2mm×403.08mm
Standard quantity per carton	1pcs
Standard carton size	510mm×195mm×340mm
Standard carton cross weight	4.3kg

Ordering Information

UTE300 Series	UTE310:600V,20A,300kHz,Digital Power Meter
	UTE310H:1000V,50A,300kHz,Digital Power Meter
Standard Accessories	Power cord conforming to the standard of the destination country
	Double banana head test line 1 pair
	Fork-type pre-insulated cold-pressed terminals 1 pair



UTE310 Series

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UTE9800+ Series

Power Meter



UTE9800+ Series is an economical portable intelligent electric parameter measuring instrument. Multifunctional measuring instrument integrating voltage, current, power, power factor and frequency. High cost performance, widely used in production, measure, quality and scientific research and other fields.

- Four windows simultaneously display.
- Adjustable data refresh rate to improve test efficiency
- Accuracy of voltage, current and power: $\pm (0.4\% \text{ reading} + 0.1 \text{ range} + 1 \text{ digit})$
- UTE9811+ maximum harmonic analysis 50 times
- UTE9802+ true RMS measurement
- Support average function, the reading is more stable
- RS-232/RS-485 serial communication interface, which can communicate with computer or PLC
- Support both SCPI and Modbus communication protocols
- The upper and lower limit alarm parameters of current and power can be set freely. It has audible and visual alarm indication, and can set delay alarm



- Four windows simultaneously display voltage, current, power, power factor / frequency, voltage wave crest ratio and current wave crest ratio. 5-digit high-precision display



- UTE9811+ adopts phase locked loop (PLL) synchronization method, and the maximum harmonic analysis is 50 times



- UTE9802+ true RMS measurement. Can measure AC,DC,AC+DC



- The upper and lower limit alarm parameters of current and power can be set freely. It has audible and visual alarm indication, and can set delay alarm

Key Specifications		UTE9802+	UTE9811+	UTE9806+
Measurements		V,A,W,PF/HZ	V,A,W,PF/HZ/THD/CF	V,A,P,VA,PF,HZ, Vpeak,Apeak
Measurement method		AC DC AC+DC(T-RMS)	AC	AC
Voltage	Range	3.0V-600V (75V/150V/300V/600V)	3.0V-600V	0.5V-600V(60V/600V)
	Accuracy	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)
	Resolution	0.01V/0.1V	0.01V/0.1V	0.01V/0.1V
Current	Range	0.5mA-20.0A (500mA/2A/8A/20A)	5.0mA-20.0A	0.05mA-10.0A (0.05A/0.1A/10A)
Current	Accuracy	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)
Current resolution	Resolution	0.0001A /0.001A	0.001A	0.01mA /0.1mA/1mA
Power	Range	1W-12kW	1W-12kW	1W-6kW
Power accuracy	Accuracy	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)
Power Resolution	Resolution	0.001W/0.01W/0.1W/1W	0.01W/0.1W/1W	0.001W/0.01W/0.1W/1W
Power factor	Range	-1.000-1.000	-1.000-1.000	-1.000-1.000
	Accuracy	± (0.004+0.001 * reading+1 digit)	± (0.004+0.001 * reading+1 digit)	± 0.01
Frequency	Range	DC, 40Hz-400Hz	40Hz-70Hz	40Hz-400Hz
Frequency accuracy	Accuracy	±(0.1%reading+1digit)	±(0.1%reading+1digit)	±0.1%reading
Harmonic analysis	Times	-	1-50times	-
Harmonic accuracy	Accuracy	-	± (0.3 %range + 5%reading+1 digit)	-
Range switching		Auto / manual	Auto	Auto / manual
Preheating time		>30min	>30min	>30min
Peak current		Maximum display 24A	Maximum display 24A	Maximum display 12A
Maximum input allowed for connection		Voltage700V,Current 24A	Voltage700V,Current 24A	Voltage700V,Current 14A
Instantaneous allowable maximum input		1000V,40A(1min)	1000V,40A(1min)	1000V,20A(1min)
Input impedance		Voltage: > 5 MΩ, current: < 0.02 Ω	Voltage: > 2 MΩ, current: < 0.02 Ω	Voltage: > 5 MΩ, current: < 0.02 Ω
Upper and lower limit function		Four settings for upper and lower limits of power and current:		
		P Hi (Power high),		
		P Lo(Power low),		
		A Hi(Current high),		
		A Lo(Current low)		
Interface		RS232,RS485		
		4800,9600,19200,38400,57600,115200	1200,2400,4800,9600,19200,38400,57600,115200 optional	
Support protocol		Support SCPI ,Modbus		
Display hold		Yes		
loudspeaker mute		Yes		
Key lock		Yes		

General Characteristics	
Power	AC 100V-240V ,50/60Hz
Display	VA Broken code screen, 5 digits, four windows
Product net weight	3.2kg
Product size	214mm×88mm×340mm
Standard quantity per carton	2pcs
Standard carton size	410mm×330m×410mm
Standard carton cross weight	7kg

Ordering Information	
UTE9800+ Series	UTE9802+:600V, 20A, 40Hz-400Hz,T-RMS
	UTE9811+:600V, 20A, 40Hz-70Hz,Harmonic analysis
	UTE9806+:600V, 10A, 40Hz-400Hz,AC
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 interface cable
Optional Accessories	UTE-L10A: 10A AC three-pin plug to banana head connection cable×1, 16A alligator clip connection cable×1, Power adapter×1
	UTE-L16A: 16A AC three-pin plug to banana head connection cable×1, 16A alligator clip connection cable×1, Power adapter×1

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UTE9800+ Series

Safety Testers

Hipot Testers

Selection Guide

Series	Model	Channel	Voltage Range		Current Range		Resistance Range	Accuracy
			AC	DC	AC	DC		
UT5320R-SxA	UT5320R-S8A	8	0.050kV-5.000kV	0.050 kV-6.000kV	0.001mA-20mA	0.1uA-10.00mA	0.1MΩ-10GΩ	V:±(1.0%reading+5V); A:±(2.0%reading+5digits)
	UT5320R-S4A	4						
UT5300+	UT5320R+	1	0.050kV-5.000kV	0.050 kV-6.000kV	0.001mA-20mA	0.1uA-10.00mA	0.1MΩ-10GΩ	V:±(1.0%reading+5V); A:±(2.0%reading+5digits)
	UT5310R+				0.001mA-10mA	0.1uA-5.00mA	0.2MΩ- 10GΩ	
	UT5310D+					-	-	
	UT5310A+			-	-	-		

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UT5320R-SxA Series

Hipot Testers



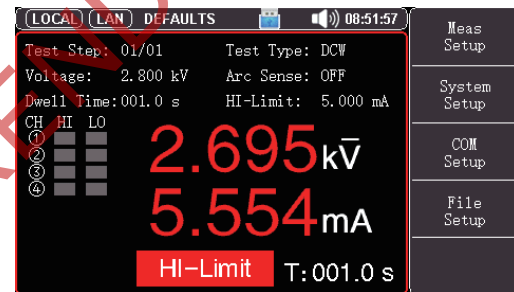
- 4.3 inch TFT true color LCD
- 4/8 channels, multiple outputs
- Support AC/DC withstand voltage test, IR insulation test, contact test
- Fully isolated and floating output
- AC withstand voltage (ACW): 5kV/20mA
- DC withstand voltage (DCW): 6kV/10mA
- Insulation resistance (IR): 2.5kV/10GΩ (optional to 5kV)
- Rise up time/slope down time/test time/compensation return to zero, multiple functions can be set flexibly

UT5320R-SxA series is an instrument that integrates multiple testing functions of electrical strength (AC/DC withstand voltage) and insulation resistance. It can be widely used in the safety performance inspection of household appliances, transformers, electrical equipment and components.

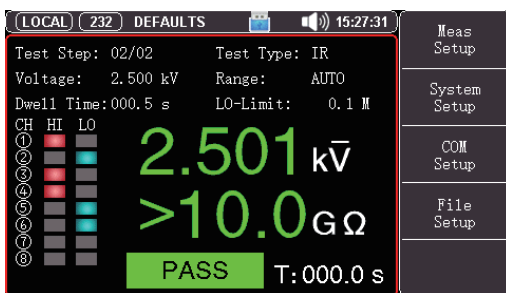
- Intelligent judgment: over-upper limit/over-lower limit/arc/over-charging lower limit (sound and light indication)
- Overvoltage/short circuit protection/rapid discharge/earth failure multiple protection
- Anti-electric wall technology detects the circuit at any time to prevent electric shock and ensure personnel safety
- Overvoltage, overcurrent protection, current base reset function
- Can store 100 test files, each file can store 20 test steps, test modes can be combined arbitrarily
- Comply with standard SCPI and Modbus communication protocols
- Equipped with Handler (PLC) interface, RS-232C and LAN interface

STEPS	Test Type	Dwell Time	VOLT	DATA	JUDGE
01	ACW	000.5 s	0.049 kV	0.005 mA	PASS
02	ACW	000.5 s	0.050 kV	0.005 mA	PASS
03	DCW	005.0 s	6.001 kV	0.1 uA	PASS
04	IR	005.0 s	2.500 kV	>10.0 GΩ	PASS
05					
06					
07					
08					
09					
10					

- Multiple test modes



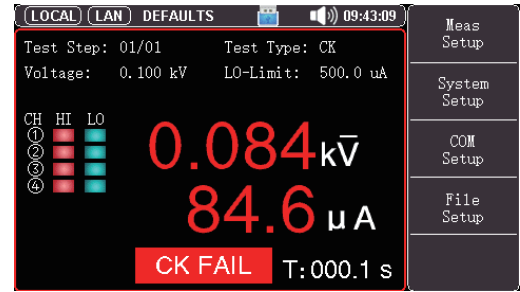
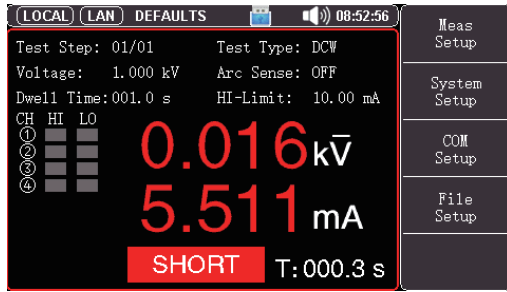
- Intelligent judgment: Provide a good prompt for the measurement work, and broadcast the results immediately.



- Insulation resistance test voltage is 2.5kV as standard, 5.0kV is optional, suitable for more test occasions.



- Equipped with Handler (PLC), RS485 (option), RS-232C and LAN interface. Support SCPI and Modbus RTU dual protocols.



● Multiple protection functions provide you with a safer test environment

● Unique hardware contact test, fast and reliable

Key Specifications		UT5320R-S4A	UT5320R-S8A
Channel		4	8
Withstand voltage			
Output voltage(AC)	Voltage range	0.050kV-5.000kV	0.050kV-5.000kV
	Voltage wave-form	Sine wave	Sine wave
	Distortion degree	< 3%	< 3%
	Operating Frequency	50/60Hz	50/60Hz
	Frequency accuracy	±1%	±1%
	Output power	100VA(5.000kV 20mA)	100VA(5.000kV 20mA)
	Voltage regulation	±(1.0%+50V)(Rated power)	±(1.0%+50V)(Rated power)
Output voltage(DC)	Voltage range	0.050 kV-6.000kV	0.050 kV-6.000kV
	Signal source frequency	600Hz	600Hz
	Output power	60VA(6.000kV 10mA)	60VA(6.000kV 10mA)
	Voltage regulation	±(1.0%+100V) (Rated power)	±(1.0%+100V) (Rated power)
Voltage resolution		1V	1V
Voltage output accuracy	Voltage output accuracy	±(1.0%Set value+5V) (No load)	±(1.0%Set value+5V) (No load)
Voltage test accuracy	Voltage test accuracy	±(1.0%Reading+5V)	±(1.0%Reading+5V)
Insulation resistance			
Maximum output current		10mA	10mA
Maximum output power		25VA(2500V/10mA)	25VA(2500V/10mA)
Output instantaneous short-circuit current		>20mA(Set output voltage>500V)	>20mA(Set output voltage>500V)
Load regulation		≤1% (Rated power)	≤1% (Rated power)
Ripple(1kV)		≤3% (1kV,No load)	≤3% (1kV,No load)
Discharge function		Automatic discharge after test	Automatic discharge after test
Resistance measurement range		0.1MΩ- 10GΩ	0.1MΩ- 10GΩ

Key Specifications		UT5320R-S4A	UT5320R-S8A
Resistance display range (1000V)		10mA 0.1 MΩ-0.5MΩ 2mA 0.5 MΩ-5 MΩ 200uA 5MΩ-50MΩ 20uA 50 MΩ-500MΩ 2uA 500MΩ-10GΩ	10mA 0.1 MΩ-0.5MΩ 2mA 0.5 MΩ-5 MΩ 200uA 5MΩ-50MΩ 20uA 50 MΩ-500MΩ 2uA 500MΩ-10GΩ
Accuracy of resistance measurement		≥500V 1MΩ- 1GΩ ±(5%Reading+5digits) 1GΩ- 10GΩ ±(10%Reading+5digits) < 500V 0.1MΩ-1GΩ ±(10%Reading+5digits) 1GΩ- 10GΩ For reference only, no accuracy requirements	≥500V 1MΩ- 1GΩ ±(5%Reading+5digits) 1GΩ- 10GΩ ±(10%Reading+5digits) < 500V 0.1MΩ-1GΩ ±(10%Reading+5digits) 1GΩ- 10GΩ For reference only, no accuracy requirements
Current measurement accuracy		±(1.5%reading+5digits) (after clearing)	±(1.5%reading+5digits) (after clearing)
ARC Detector			
Measuring range	AC	Off, level 1 - 9	
	DC	Off, level 1 - 9	
Comparator			
Discrimination mode		Window comparison mode Current lower limit ON: pass when I lower limit < Ix < I upper limit; When Ix ≤ I lower limit or Ix ≥ I upper limit, fail. (I lower limit < I upper limit) Current lower limit OFF: when Ix < I upper limit, pass; When Ix ≥ I upper limit, fail. The discrimination method of insulation resistance is the same as above	
Current upper limit setting	AC	0.001mA - 20mA	0.001mA - 20mA
	DC	0.1uA - 10mA	0.1uA - 10mA
Current lower limit setting (LOWER OFF)	AC	0.001mA - 20mA	0.001mA - 20mA
	DC	0.1uA -10mA	0.1uA -10mA
Resistance upper limit setting		OFF, 0.1MΩ - 10GΩ	OFF, 0.1MΩ - 10GΩ
Resistance lower limit setting		0.1MΩ- 10GΩ	0.1MΩ- 10GΩ
Discriminant output		PASS/FAIL LCD and LED display respectively and sound alarm	
Interface & protocol		USB host,HANDLER,RS232C,Optional RS485,LAN. SCPI and Modbus RTU protocol	
Upper computer software		Yes	

General Characteristics		
Power	AC 110V/220V±10% 50-60Hz	
Display mode	4.3-inch LCD screen	
Product size(W×H×D)	280mm×88mm×428mm	280mm×88mm×428mm
Product net weight	16.27kg	16.87kg
Standard quantity per carton	1pcs	1pcs
Standard carton size	440mm×240mm×595mm	440mm×240mm×595mm
Standard carton gross weight	20.12kg	20.72kg

Ordering Information

UT5320R-SxA Series	UT5320R-S8A: 8CH, AC / DC / IR programmable insulation withstand voltage tester (20mA)
	UT5320R-S4A: 4CH, AC / DC / IR programmable insulation withstand voltage tester (20mA)
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 communication cable
	Red black test clip 1 pair
	High voltage rod test line (small type & no switch)
	Double-ended high-voltage test line (with clipse) 1 pair
	Double-ended high-voltage test line 8pcs/4pcs



UT5320R-SxA Series

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UT5300+ Series

Hipot Testers



UT5310+ series can not only carry out AC withstand voltage test, DC withstand voltage test and insulation resistance test independently, but also carry out multi item test through the project setting of the test scheme. At the same time, UT5310+ series is equipped with HANDLER for industrial control, RS-232C for connecting computer and USB for data backup, so that the instrument can adapt to the automatic test system with high security and reliability.

- 4.3-inch TFT LCD, WVGA(800×480)
- Four test modes:AC/DC/IR/OS
- Withstand voltage test: AC 5kV/10mA, DC 6kV/5mA
- Measurement accuracy:3%±2digits
- ARC detection function
- Comparator judgment function

- Support storage of up to 10000 test items
- USB host interface, supporting storage and screenshot
- Provide PLC interface, standard RS-232C interface and support SCPI protocol
- Provide upper computer software to support remote control

STEPS	Test Type	Dwell Time	VOLT	DATA	JUDGE
01	ACW	000.5 s	0.049 kV	0.005 mA	PASS
02	ACW	000.5 s	0.050 kV	0.005 mA	PASS
03	DCW	005.0 s	6.001 kV	0.1 uA	PASS
04	IR	005.0 s	2.500 kV	>10.0 GΩ	PASS
05					
06					
07					
08					
09					
10					

NO.	File Name	Save Time	LOAD
94			
95			
96			
97			
98			
99			
100	DEFAULTS	CREATED BY SYSTEM	YES

- Multiple test modes

- Programmable 100 groups of test files, each group can contain 20 steps of test operations.

Meas Setup

Test Step: 01/01 Test Type: ACW

Voltage: 5.000 kV Arc Sense: OFF

Dwell Time: 005.0 s HI-Limit: 1.000 mA

5.002 kV

0.006 mA

PASS T:000.0 s

System Setup

COM Setup

File Setup

Meas Setup

Test Step: 04/04 Test Type: IR

Voltage: 2.500 kV Range: AUTO

Dwell Time: 005.0 s LO-Limit: 500.1 M

2.500 kV

>10.0 GΩ

PASS T:000.0 s

System Setup

COM Setup

File Setup

- Intelligent judgment:
Provide a good prompt for the measurement work, and broadcast the results immediately.

- IR measurement
Insulation resistance test voltage is 2.5kV as standard, 5.0kV is optional, suitable for more test occasions.

Key Specifications		UT5310A+	UT5310D+	UT5310R+	UT5320R+
Channel		1	1	1	1
Withstand voltage					
Output voltage(AC)	Voltage range	0.050kV-5.000kV	0.050kV-5.000kV	0.050kV-5.000kV	0.050kV-5.000kV
	Voltage wave-form	Sine wave	Sine wave	Sine wave	Sine wave
	Distortion degree	< 3%	< 3%	< 3%	< 3%
	Operating Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Frequency accuracy	±1%	±1%	±1%	±1%
	Output power	50VA (5.000kV 10mA)	50VA (5.000kV 10mA)	50VA (5.000kV 10mA)	100VA (5.000kV 20mA)
	Voltage regulation	±(1.0%+50V) (Rated power)	±(1.0%+50V) (Rated power)	±(1.0%+50V) (Rated power)	±(1.0%+50V) (Rated power)
Output voltage(DC)	Voltage range	-	0.050 kV-6.000kV	0.050 kV-6.000kV	0.050 kV-6.000kV
	Signal source frequency	-	600Hz	600Hz	600Hz
	Output power	-	30VA (6.000kV 5mA)	30VA (6.000kV 5mA)	60VA (6.000kV 10mA)
	Voltage regulation	-	±(1.0% +100V) (Rated power)	±(1.0% +100V) (Rated power)	±(1.0% +100V) (Rated power)
Voltage resolution		1V	1V	1V	1V
Voltage output accuracy	Voltage output accuracy	±(1.0%Set value+5V)(No load)	±(1.0%Set value+5V)(No load)	±(1.0%Set value+5V)(No load)	±(1.0%Set value+5V)(No load)
Voltage test accuracy	Voltage test accuracy	±(1.0%Reading+5V)	±(1.0%Reading+5V)	±(1.0%Reading+5V)	±(1.0%Reading+5V)
Insulation resistance					
Maximum output current		-	-	5mA	10mA
Maximum output power		-	-	12.5VA(2500V/5mA)	25VA(2500V/10mA)
Output instantaneous short-circuit current		-	-	>10mA(Set output voltage>500V)	>20mA(Set output voltage>500V)
Load regulation		-	-	≤1% (Rated power)	≤1% (Rated power)
Ripple(1kV)		-	-	≤3% (1kV,No load)	≤3% (1kV,No load)
Discharge function		-	-	Automatic discharge after test	Automatic discharge after test
Resistance measurement range		-	-	0.2MΩ- 10GΩ	0.1MΩ- 10GΩ
Resistance display range (1000V)		-	-	5mA 0.2 MΩ-1 MΩ 1mA 1 MΩ-10 MΩ 100uA 10 MΩ-100 MΩ 10uA 100 MΩ-1GΩ 1uA 1GΩ-10GΩ	10mA 0.1 MΩ-0.5MΩ 2mA 0.5 MΩ-5 MΩ 200uA 5MΩ-50MΩ 20uA 50 MΩ-500MΩ 2uA 500MΩ-10GΩ
Accuracy of resistance measurement		-	-	≥500V 1MΩ- 1GΩ: ±5%±5 digits, 1GΩ-10GΩ : ±10%±5digits; < 500V 0.2MΩ-1GΩ: ±10%±5 digits	≥500V 1MΩ- 1GΩ ±(5%Reading+5digits) 1GΩ- 10GΩ ±(10%Reading+5digits) < 500V 0.1MΩ- 1GΩ ±(10% Reading+5digits) 1GΩ- 10GΩ For reference only, no accuracy requirements

Key Specifications		UT5310A+	UT5310D+	UT5310R+	UT5320R+
Current measurement accuracy		-	-	±(1.5%reading+5digits) (after clearing)	±(1.5%reading+5digits) (after clearing)
ARC Detector					
Measuring range	AC	Off, level 1 - 9			
	DC	Off, level 1 - 9			
Comparator					
Discrimination mode		Window comparison mode Current lower limit ON: pass when I lower limit < Ix < I upper limit; When Ix ≤ I lower limit or Ix ≥ I upper limit, fail. (I lower limit < I upper limit) Current lower limit OFF: when Ix < I upper limit, pass; When Ix ≥ I upper limit, fail. The discrimination method of insulation resistance is the same as above			
Current upper limit setting	AC	0.001mA - 10mA	0.001mA - 10mA	0.001mA - 10mA	0.001mA - 20mA
	DC	0.1uA - 5mA	0.1uA - 5mA	0.1uA - 5mA	0.1uA - 10mA
Current lower limit setting (LOWER OFF)	AC	0.001mA - 10mA	0.001mA - 10mA	0.001mA - 10mA	0.001mA - 20mA
	DC	0.1uA - 5mA	0.1uA - 5mA	0.1uA - 5mA	0.1uA - 10mA
Resistance upper limit setting		OFF,0.1MΩ - 10GΩ	OFF,0.1MΩ - 10GΩ	OFF,0.1MΩ - 10GΩ	OFF, 0.1MΩ - 10GΩ
Resistance lower limit setting		0.1MΩ- 10GΩ	0.1MΩ- 10GΩ	0.1MΩ- 10GΩ	0.1MΩ- 10GΩ
Discriminant output		PASS/FAIL LCD and LED display respectively and sound alarm			
Interface & protocol		USB host,HANDLER,RS232C,Optional RS485. SCPI and Modbus RTU protocol		USB host,HANDLER,RS232C,Optional RS485,LAN. SCPI and Modbus RTU protocol	
Upper computer software		Yes			

General Characteristics					
Power		AC 110V/220V±10% 50-60Hz			
Display mode		4.3-inch LCD screen			
Product size(W×H×D)		280mm×88mm×428mm	280mm×88mm×428mm	280mm×88mm×428mm	280mm×88mm×428mm
Product net weight		10.7kg	10.7kg	10.7kg	12.9kg
Standard quantity per carton		1pcs	1pcs	1pcs	1pcs
Standard carton size		440mm×240mm×595mm	440mm×240mm×595mm	440mm×240mm×595mm	440mm×240mm×595mm
Standard carton gross weight		13.8kg	13.8kg	13.8kg	16.0kg

Ordering Information

UT5300+ Series	UT5320R+: 1CH, AC / DC / IR programmable insulation withstand voltage tester (20mA)
	UT5310R+: 1CH, AC / DC / IR programmable insulation withstand voltage tester (10mA)
	UT5310D+: 1CH, AC / DC programmable withstand voltage tester (10mA)
	UT5310A+: 1CH, AC programmable withstand voltage tester (10mA)
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 communication cable
	Red black test clip 1 pair
	High voltage rod test line (small type & no switch)



UT5300+ Series

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Insulation Resistance Testers

Selection Guide

Series	Model	Measurement parameters	Voltage Range	Measurement range	Measurement rate	Display	Connectivity
UT5583	UT5583	Insulation Resistance and Leakage Current	1V-1000V (DC)	10kΩ-10TΩ	33/s	4.3" TFT LCD	RS232C,USB HOST, HANDLER,FOOT, LAN,RS485

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UT5583 Series NEW

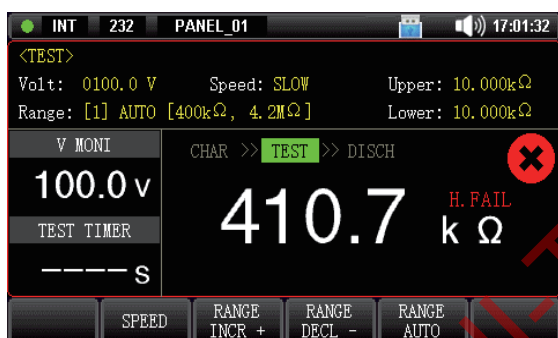
Insulation Resistance Tester



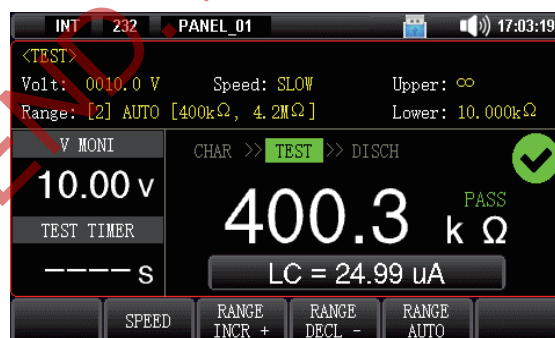
UT5583 Insulation Resistance Tester is a miniature desktop instrument with high performance and real-time detection. The instrument adopts a 4.3-inch true-color LCD display, a full digital keyboard, and a real-time operating system to make the display clearer and the operation more convenient. It can be used to measure the insulation resistance and leakage current of various electronic components, equipment, dielectric materials and wires and cables.

- 4.3 inch TFT-LCD display
- Real-time monitoring of output voltage
- Dual display of insulation resistance and leakage current
- Charging time, testing time and discharging time are adjustable
- Calibration function, full range open circuit reset
- Contact check function for capacitive materials
- Select digit display function (5 digits/4 digits)

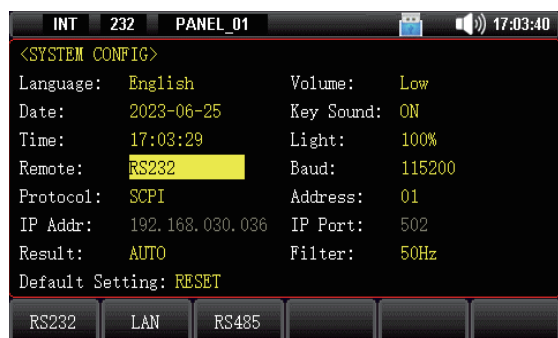
- Comparator function to realize qualified and unqualified sorting
- Sorting judgment sound setting function
- Quick discharge function
- U disk data recording
- Can store 100 test files, support U disk file access
- Rich interface, support SCPI and MODBUS two protocols



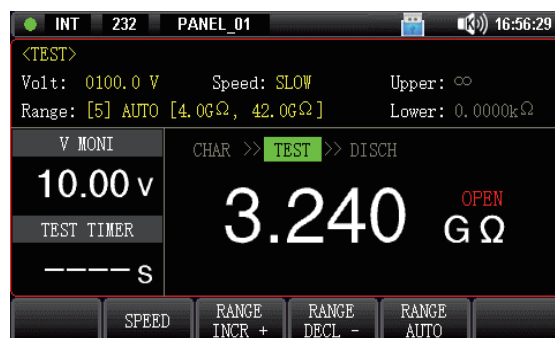
- Insulation resistance, leakage current double measurement and double display



- Contact check, OPEN alarm when the test loop is open



- Comparator sorting function



- Support multiple communication interfaces, two communication protocols

Key Specifications	UT5583	
Measurement parameters	Insulation resistance, leakage current	
Output voltage	program control 1V-1000V(DC): ≥10V,step 1V <10V,step 0.1V	
Voltage accuracy	≥10V, 1%±1V <10V, 10%±0.1V	
Measurement range	Resistance:10kΩ-10TΩ Current:100pA-250uA	
Measurement accuracy	1V≤voltage<10V	5% (<1M);1% (1M-100M); 5% (100M-10G);10%(>10G)
	10V≤voltage≤1000V	5%(<1M);1% (1M-1G);3% (1G-10G); 5%(10G-100G);10%(100G-1T);15%(>1T);
Test speed	Fast: 30ms/time, medium speed: 100ms/time, slow speed: 500ms/time	
Range mode	Auto, Locked, Nominal (select best range based on comparator setting)	
Max. charge current	25mA±5mA	
Show result	Voltage, current, resistance, sorting results, sound and light alarm	
Trigger mode	Internal, manual, external, bus	
Charge time	0-999s	
Test time	0-999s	
Discharge time	0-999s	
Comparator function	1 set of records, judging UFAIL, pass (PASS), and LFAIL	
Calibration function	Full range open circuit reset	
Interface	RS232C,USB HOST,LAN,RS485;HANDLER ,FOOT	

General Characteristics	
Power	AC 110V/220V 47-63Hz
Display mode	4.3-inch LCD screen
Product size(W×H×D)	215mm×88mm×382.3mm
Product net weight	3.32kg
Standard quantity per carton	1pcs
Standard carton size	515mm×365mm×220mm
Standard carton gross weight	4.5kg

Ordering Information

UT5583	1V-1000V,25mA,10kΩ-10TΩ Insulation Resistance Tester
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 Communication line
	Test line (red, green and black each 1)
	Spare fuse



UT5583 Series

UNI-TREND.VN

Multi-channel Temperature Loggers

Selection Guide

Series	Model	Channel	Temperature Range	Resolution	Scanning Speed	Display	Connectivity
UT3200+	UT3248+	48	-200-1800°C	0.01°C	2/s	4.3inch TFT LCD	RS-232,LAN
	UT3240+	40					
	UT3232+	32					
	UT3224+	24					
	UT3216+	16					
	UT3208+	8					

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UT3200+ Series

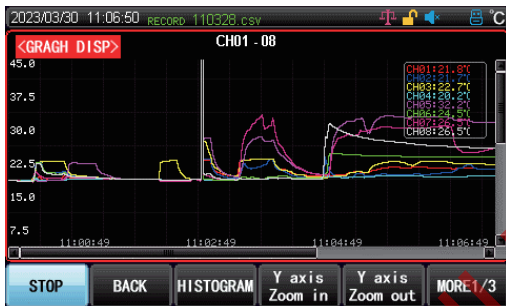
Multi-channel Temperature Loggers



UT3200+ series multi-channel temperature tester has 6 models of 8, 16, 24, 32, 40, 48 channels. 4.3-inch LCD color screen display, beautiful interface. Multiple channels of temperature data can be collected at the same time. The response speed is fast and the data is stable. It is suitable for multi-point temperature monitoring by manufacturers and quality inspection departments in industries such as home appliances, motors, electric heating appliances, thermostats, transformers, ovens, thermal protectors, power supplies, lighting, electric power, and LEDs.

- 4.3 inch LCD true color display
- Main parameter 6-digit display
- Supports K/N/E/J/T/R/S/B type thermocouples.
- Test range: -200° C-1800° C
- Temperature test resolution to 0.01 ° C
- Two scan speeds: fast, slow
- Automatic detection of broken thermocouples
- Intuitive data display, column chart and graph display mode

- Cold junction compensation
- Standard USB Host interface, 8G U disk, support U disk storage
- File management, the current settings will not be lost when power off
- Standard K-type thermocouple, 2m, can measure the temperature range of 0-200° C
- Temperature upper and lower limit overrun alarm, overrun reading color change
- Standard RS-232C, LAN interface, support SCPI and Modbus protocol



- Graph, histogram, and number display modes provide a better representation of temperature trends



- Comparator function. Color differentiation and alarm tone prompt



- Standard data acquisition software for data acquisition and analysis on the PC



- Configure RS232 and LAN ports, support SCPI and MODBUS dual protocols

Key Specifications	UT3208+	UT3216+	UT3224+	UT3232+	UT3240+	UT3248+
Display mode	Direct numerical reading, curve chart, histogram					
Type	Thermocouple: J,K,T,E,S,N,B,R					
Measuring range	-200.0° C-1800.0° C (the range will change with different thermocouple model)					
Resolution	0.01° C					
Number of channel	8	16	24	32	40	48
Scanning speed	Fast, slow					
Sorting function	Build-in data sorting, can set upper/lower temperature limit alarm for each channel					
Alarm function	Upper/lower temperature limit alarm					
User calibration	User calibration of each channel is allowed					
Button functions	Lock -- keyboard lock, Print Sc -- screenshot					
System setup	Language: Chinese/English, key tone setting					
Storage	FAT: user can create the file with the suffixal [.csv] and save the data of each channel into USB (not support mobile hard disk)					
Interface & protocol	RS232 and LAN communication interface, SCPI protocol					
Upper computer software	√					
Sensor Model	Test temperature range			accuracy(° C)		
T-type Thermocouple	-150° C - 0° C			±1.0° C		
	0° C - 400° C			±0.8° C	±0.8° C	±0.8° C
K-type Thermocouple	-100° C - 0° C			±1.2° C	±1.2° C	±1.2° C
	0° C - 1350° C			±0.8° C	±0.8° C	±0.8° C
J-type Thermocouple	-100° C - 0° C			±1.0° C	±1.0° C	±1.0° C
	0° C - 1200° C			±0.7° C	±0.7° C	±0.7° C
N-type Thermocouple	-100° C - 0° C			±1.5° C	±1.5° C	±1.5° C
	0° C - 1300° C			±0.9° C	±0.9° C	±0.9° C
E-type Thermocouple	-100° C - 0° C			±0.9° C	±0.9° C	±0.9° C
	0° C - 850° C			±0.7° C	±0.7° C	±0.7° C
S-type Thermocouple	-100° C - 0° C			±4.5° C	±4.5° C	±4.5° C
	100° C - 300° C			±3.0° C	±3.0° C	±3.0° C
	300° C - 1750° C			±2.2° C	±2.2° C	±2.2° C
R-type Thermocouple	0° C-100° C			±4.5° C	±4.5° C	±4.5° C
	100° C - 300° C			±3.0° C	±3.0° C	±3.0° C
	300° C - 1750° C			±2.2° C	±2.2° C	±2.2° C
B-type Thermocouple	600° C -800° C			±5.5° C	±5.5° C	±5.5° C
	800° C -1000° C			±3.8° C	±3.8° C	±3.8° C
	1000° C -1800° C			±2.5° C	±2.5° C	±2.5° C

General Characteristics

Power	AC 100-240V 50/60Hz
Display mode	4.3-inch LCD screen
Product size(W×H×D)	214mm×88.2mm×330.3mm
Product net weight	3.4kg
Standard quantity per carton	1pcs
Standard carton size	500X365mmX220MM
Standard carton gross weight	5kg

Ordering Information

UT3200+ Series	UT3248+: Multi-channel Temperature Logger(48 channels)
	UT3240+: Multi-channel Temperature Logger(40 channels)
	UT3232+: Multi-channel Temperature Logger(32 channels)
	UT3224+: Multi-channel Temperature Logger(24 channels)
	UT3216+: Multi-channel Temperature Logger(16 channels)
	UT3208+: Multi-channel Temperature Logger(8 channels)
Standard Accessories	Power cord conforming to the standard of the destination country
	USB interface cable x1
	8G U-disk x1
	8-channel Temperature Test Module: UT3208+/16+/24+/32+/40+/48+ is respectively equipped with 1/2/3/4/5/6 group.
	RS232 Communication line



UT3200+ Series



Headquarter

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