UNI-T

2025

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 (Sic-Tech Innovation Board) stock market in Feb. 2021 (code: 688628)

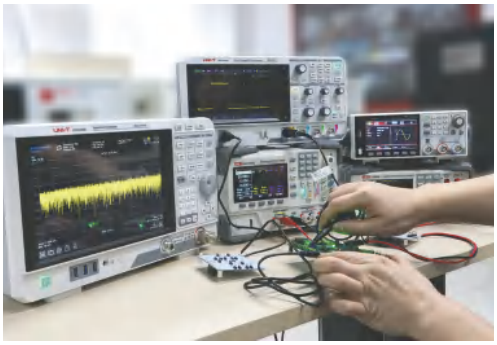
Driving Innovation Through R&D Excellence

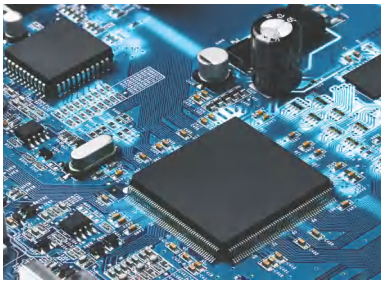
With three dedicated R&D centers in Dongguan, Chengdu, and Changzhou, and a team of over 200 experienced engineers, Uni-Trend Group is deeply committed to research and development. This focus ensures we maintain a competitive edge by delivering reliable, innovative, and cost-effective products.

Our proprietary manufacturing facility covers over 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 have 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 portfolios includes Signal Analyzers, Oscilloscopes, Power Supplies, Signal Generators, and Bench Meters.





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.

CONTENT

03 Spectrum/Signal Analyzers

04 Power Supplies and Sources

05 Bench Meters

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	500 Mpts	5 GSa/s	12 bit		•										
	MSO5054HD							•									
	MSO5034HD								•								
MSO3000HD	MSO3054HD	4+16Digit	500 Mpts	2.5 GSa/s	12 bit			•									
	MSO3034HD								•								
	MSO3024HD										•						

MSO5000HD Series NEW

Digital Oscilloscopes

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

- Analog channel bandwidth: 350 MHz/500 MHz/1 GHz
- Real-time sample rate 5 GSa/s
- 12 bit vertical resolution
- ERES (enhanced resolution) of up to 16 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.
- Enhanced FFT of up to 4M points
- Multi-Windows display
- Uninterrupted hardware real-time waveform recording and analysis of up to 400,000 frames
- 54 kinds of parameter measurements. Adds histogram and line graph display
- Multi-channel 7 bit hardware frequency meter
- DVM multi-channel RMS measurement: DC, AC RMS, and DC+ACRMS
- Protocol triggering and decoding options: 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)	5 GSa/s (single channel), 2.5 GSa/s (dual-channel), 2.5 GSa/s (four channel)		
Sample rate (digital)	1.25 GSa/s		
Memory depth	500 Mpts		
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 k Ω±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 parameters, simultaneously display of 27 kinds of parameter measurements		
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, 10 MHz reference clock IN/OUT		

General Characterisitics	
Power	100 V-240 VAC (fluctuate: ±10%), 50 Hz/60 Hz 100 V-120 VAC (fluctuate: ±10%), 400 Hz
Display	10.1 inch 1280x800 HD capacitive multi-touch screen
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, 12 bit, 4 analog channels, MSO)	
	MSO5054HD (500 MHz, 5 GSa/s, 12 bit, 4 analog channels, MSO)	
	MSO5034HD (350 MHz, 5 GSa/s, 12 bit, 4 analog channels, MSO)	
Standard Accessories	National standard cable x 1	
	USB 3.0 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	500 MHz Upgrade to 1 GHz Bandwidth
	MSO5000HD-BW3M5T5M	350 MHz Upgrade to 500 MHz Bandwidth
	MSO5000HD-BW3M5T1G	350 MHz Upgrade to 1 GHz Bandwidth
	MSO5000HD-BND	All Serial Bus Trigger and Decode Option (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 50 MHz Arbitrary Waveform Generator Option (Includes Bode Plot)
	MSO5000HD-PWR	Power Analysis Option
Optional accessories	Active single-ended probe (2 GHz; 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-4100A /UT-4100B	
	16-channel logic analyzer probe: UT-M15	
	Isolation transformer: UT-ISOT	

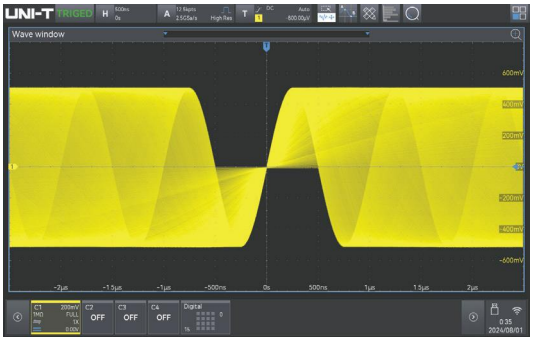
MSO5000HD Series

MSO3000HD Series NEW
Digital Oscilloscopes

MSO3000HD series high-resolution oscilloscope has a maximum bandwidth of 500 MHz, a maximum Sample rate of 2.5 GSa/s, is equipped with 4 analog channels and 16 digital channels, and with a 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.

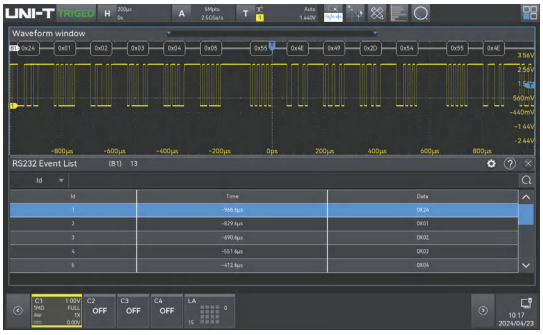
- Analog channel bandwidth: 200 MHz/350 MHz/500 MHz
- Real-time sample rate 2.5 GSa/s
- 12 bit vertical resolution
- ERES (enhanced resolution) of up to 16 bit vertical resolution
- 4 analog channels, 16 digital channels
- Memory depth of up to 500 Mpts
- Waveform capture rate is up to 500,000 wfms/s (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
- 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 Instrument Platform

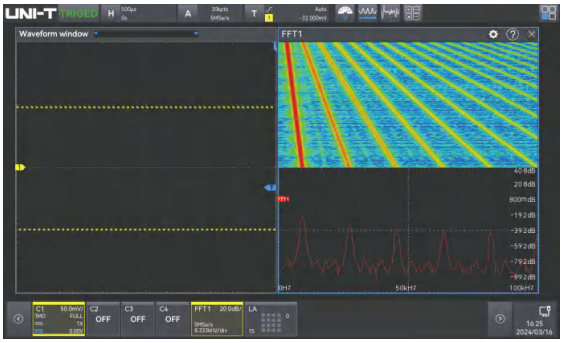


Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 500,000 wfms/s and 1,500,000 wfms/s in Sequence mode.

MSO3000HD series provides 54 kinds of measurement parameters. The parameter snapshot displays 27 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	200 MHz	350 MHz	500 MHz
Channels	4	4	4
Sample rate (analog)	2.5 GSa/s (interweave mode), 1.25 GSa/s (non-interweave mode)		
Sample rate (digital)	1.25 GSa/s		
Memory depth	500 Mpts		
Max. Waveform capture rate	≥500,000 wfms/s; ≥1,500,000 wfms/s (Sequence mode)		
Vertical resolution	12 bit (ERES 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 k Ω±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 (Incl with AWG Option), Limit Mask Testing		
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), Gen Out, HDMI,WIFI, 10 MHz reference clock IN/OUT		

General Characterisitics	
Power	100 V-240 VAC (fluctuate:±10%), 50 Hz/60 Hz,100 V-120 VAC (fluctuate:±10%), 400 Hz
Display	10.1 inch 1280x800 HD capacitive multi-touch screen
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	MSO3024HD(200 MHz,2.5 GSa/s, 4 analog channels)	
	MSO3034HD(350 MHz,2.5 GSa/s, 4 analog channels)	
	MSO3054HD(500 MHz,2.5 GSa/s, 4 analog channels)	
Standard Accessories	National standard cable x 1	
	USB 3.0 cable x 1	
	BNC-BNC direct-through line x 1	
	BNC-red and black alligator connecting wire x 1	
	Passive probe (200 MHz/350 MHz/500 MHz) x 4	
Options	MSO3000HD-BW2MT3M5	200 MHz Upgrade to 350 MHz Bandwidth
	MSO3000HD-BW2MT5M	200 MHz Upgrade to 500 MHz Bandwidth
	MSO3000HD-BW3M5T5M	350 MHz Upgrade to 500 MHz Bandwidth
	MSO3000HD-BND	All Serial Bus Trigger and Decode Option (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 (2 GHz; 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-4100A /UT-4100B
	16-channel logic analyzer probe: UT-M15
	Isolation transformer: UT-ISOT

MSO3000HD Series

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	1 Gpts	10 GSa/s	•											
	MSO7104X					•										
UPO7000L	UPO7204L	4	1 Gpts	10 GSa/s	•											
	UPO7104L					•										
MSO3000X	MSO3054X	4+16Digit	500 Mpts	5 GSa/s			•									
	MSO3034X							•								
MSO/UPO3000E	MSO/UPO3504E	4+16Digit/4	250 Mpts	2.5 GSa/s			•									
	MSO/UPO3502E	2+16Digit/2					•									
	MSO/UPO3352E							•								
	MSO/UPO3354E	4+16Digit/4						•								
	MSO3504E-S	4+16Digit					•									
	MSO3354E-S							•								
MSO2000X	MSO2304X	4+16Digit	100 Mpts	5 GSa/s					•							
	MSO2204X									•						
	MSO2104X											•				
MSO/UPO2000	MSO/UPO2204	4+16Digit/4	56 Mpts	2 GSa/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	56 Mpts	2 GSa/s						•						
	UPO1104											•				
	UPO1054														•	
UPO1000CS	UPO1202CS	2	56 Mpts	1 GSa/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	64 Kpts	1 GSa/s						•						
	UTD2102CEX+											•				
	UTD2052CEX+														•	
UTD2000CL+/CL	UTD2152CL	2	64 Kpts	500 MSa/s							•					
	UTD2102CL+											•				
	UTD2052CL+														•	
	UTD2072CL												•			

MSO7000X Series NEW

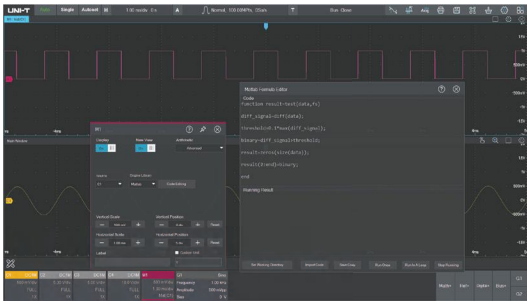
Digital Oscilloscopes

MSO7000X series mixed-signal oscilloscope offers bandwidths up to 2 GHz and a sample rate reaching 10 GSa/s. It features our exclusive UltraAcq® technology, boosting waveform capture rates to 800,000 wfms/s. The oscilloscope supports a range of advanced measurement and analysis tools, including up to 48 automatic parameter measurements, making it ideal for engineers. Running on the stable and scalable Win10 64-bit operating system, it includes a 15.6 inch HD capacitive touch screen with multi-window split-screen display and gesture controls. Suitable for industries like communications, aerospace, education, and more.

- Analog channel bandwidth: 1 GHz/2 GHz
- Maximum sample rate: 10 GSa/s
- Maximum memory depth: 1 Gpts
- Waveform capture rate: 800,000 wfms/s (UltraAcq®), 2,000,000 wfms/s (Sequence mode)
- 4 analog channels, 16 digital channels
- One machine with multiple functions: Digital oscilloscope, Logic analyzer, Spectrum analyzer, Function/arbitrary waveform generator, Digital voltmeter, Frequency counter, and Protocol analyzer

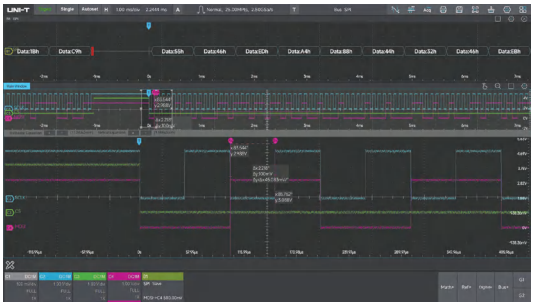
- Up to 48 kinds of parameter measurement, support histogram, tracking, and trend graph
- 11 kinds of serial protocol analysis
- Advanced measurement and analysis functions: Power analysis (optional), Jitter analysis & Eye diagram (optional), Mask and limit testing, Histogram, etc.
- Equipped with Win10 64-bit operating system
- 15.6 inch high-definition touch screen
- Embedded WebServer, providing 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.Provides a full range of analytical tools and assessment results



Up to 11 serial protocols analysis

Key Specifications	MSO7104X	MSO7204X
Bandwidth	1 GHz	2 GHz
Channels	4	
Sample rate (analog)	10 GSa/s(single channel), 5 GSa/s (dual channel), 2.5 GSa/s (full channel)	
Sample rate (digital)	1.25 GSa/s	
Memory depth	1 Gpts(single channel), 500 Mpts(dual channel), 250 Mpts(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	1 mΩ ± 1% (15±3 pF), 50 Ω ± 2%	
Input impedance (digital)	100k Ω±2%	
Vertical scale	1 mV/div-10 V/div (1 MΩ);1 mV/div-1 V/div (50 Ω)	
DC gain accuracy	50 Ω: ±1.5%(≤5 mV/div: ±2.0%)±1% of FS (≤5 mV/div: ±1.5% of FS) 1 mΩ: ±1.2%(≤5 mV/div: ±1.5%)±1% of FS (≤5 mV/div: ±1.2% of FS)	
Serial protocol analysis	Standard configuration: RS232/422/485/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, 60 MHz , 625 MSa/s	
Frequency counter	8 bit hardware frequency counter	
Digital voltmeter	4 digit,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 (10/100/1000 mb/s Base-T Ethernet; LXI Compliant), HDMI, Aux In (Trig In, AWG external trigger input), Aux Out (Trig Out, Pass/Fail, AWG trigger output), 10 MHz REF In\Out	

General Characterisitics	
Power	100 V-240 V 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)	445 mm × 302 mm × 200 mm
Standard quantity per carton	1pcs

Ordering Information	
MSO7000X Series	MSO7204X: 2 GHz, 10 GSa/s, 1 Gpts, 4CH digital oscilloscope
	MSO7104X: 1 GHz, 10 GSa/s, 1 Gpts, 4CH digital oscilloscope
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D30: USB 3.0 data cable
	UT-P07: Passive probe x 4 (1x, 10x switchable, 500 MHz)
	UT-L45: BNC-BNC straight-through cable ×2
	Front panel protective cover ×1
Options	MSO7000X-AWG: Dual-channel 60 MHz Arbitrary Wave Generator Option (includes Bode Plot)
	MSO7000X-LA: 16-channel Logic Analyzer Option
	MSO7000X-JITTER: Advanced Jitter and Eye Diagram Analysis Option
	MSO7000X-PWR: Advanced Power Analysis Option
	MSO7000X-CANFD: Automotive Serial Bus Triggering and Analysis Option (CAN FD)
	MSO7000X-FLEX: Automotive Serial Bus Trigger and Analysis Option (FlexRay)
	MSO7000X-SENT: Automotive Sensor Bus Trigger and Analysis Option (SENT)
	MSO7000X-AUDIO: Audio Serial Bus Triggering and Analysis Option (I2S, LJ, RJ, TDM)
	MSO7000X-AREO: Aerospace Serial Bus Triggering and Analysis Option (MIL-STD-1553, ARINC 429)
	MSO7000X-BND: Upgrade Suite Option (JITTER, PWR, CANFD, FLEX, SENT, AUDIO, AERO)
Optional accessories	Active single-ended probe (2 GHz; 10X): UT-PA2000
	Passive high-impedance probe (1X: 8MHz; 10X: 500 MHz): 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-4100A /UT-4100B
	16-channel logic analyzer probe:UT-M15
	Rack mount kit: MSO7000X-RM

MSO7000X Series

UPO7000L Series

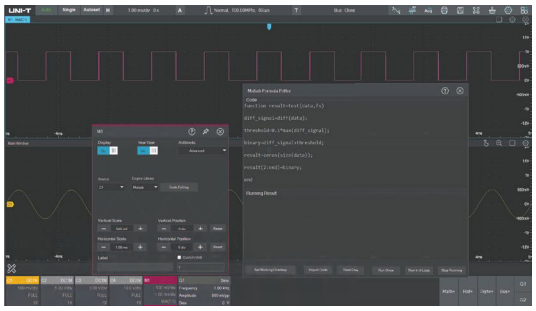
NEW

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.

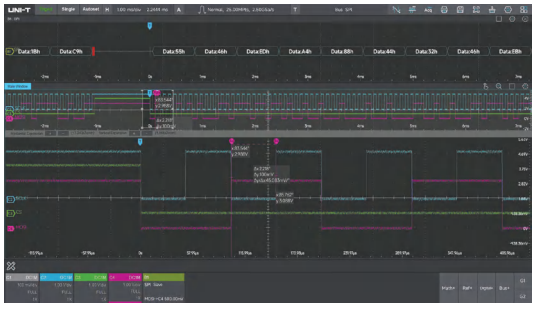
- Analog channel bandwidth: 1GHz/2 GHz
- Maximum sample rate: 10 GSa/s
- Maximum memory depth: 1 Gpts
- Waveform capture rate: 800,000 wfms/s (UltraAcq®), 2,000,000 wfms/s (Sequence mode)
- 4 analog channels
- One machine with multiple functions: Digital oscilloscope, Spectrum analyzer, Function/arbitrary waveform generator, Digital voltmeter, Frequency counter, and Protocol analyzer
- Up to 48 kinds of parameter measurement, support histogram, tracking, trend graph
- 11 kinds of serial protocol analysis
- 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



Supports MATLAB embedded programming. Operational results are rendered directly to the oscilloscope window

Power Measurement & Analysis. Provides a full range of analytical tools and assessment results



Up to 11 serial protocols analysis

Key Specifications	UPO7104L	UPO7204L
Bandwidth	1 GHz	2 GHz
Channels	4	4
Sample Rate	10 GSa/s (single channel), 5 GSa/s (dual channel), 2.5 GSa/s (full channel)	
Memory depth	1 Gpts (single channel), 500 Mpts (dual channel), 250 Mpts (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	1 mΩ ± 1% (15±3 pF), 50 Ω ± 2%	
Vertical scale	1 mV/div-10 V/div (1 MΩ); 1 mV/div-1 V/div (50 Ω)	
DC gain accuracy	50 Ω: ±1.5% (≤5 mV/div: ±2.0%)±1% of FS (≤5 mV/div:±1.5% of FS) 1 mΩ: ±1.2% (≤5 mV/div: ±1.5%)±1% of FS (≤5 mV/Div: ±1.2% of FS)	
Serial protocol analysis	Standard configuration: RS232/422/485/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, 60 MHz , 625 MSa/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 ×1, LAN (10/100/1000 mb/s)×2, HDMI, Aux Out (Trig Out, Pass/Fail, AWG trigger output), 10 MHz REF In\Out,Audio interface	

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

Ordering Information	
UPO7000L Series	UPO7204L: 2 GHz, 10 GSa/s, 1 Gpts, 4CH digital oscilloscope
	UPO7104L: 1 GHz, 10 GSa/s, 1 Gpts, 4CH digital oscilloscope
Standard Accessories	Power cord conforming to the standard of the destination country
	USB 2.0 data cable
	UT-P07: Passive probe x 4 (1x, 10x switchable, 500 MHz)
	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-AREO: 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 (2 GHz; 10X): UT-PA2000
	Passive high-impedance probe (1X: 8MHz; 10X: 500 MHz): 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-4100A/UT-4100B
	Rack mount kit: UPO7000L-RM

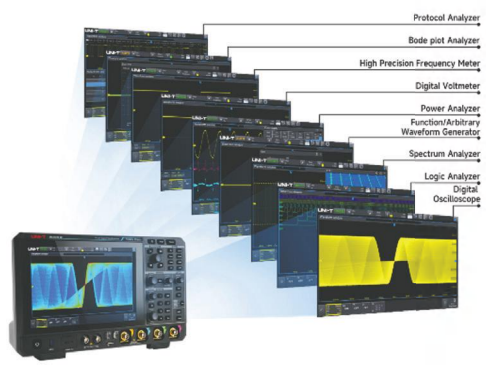
UPO7000L Series

MSO3000X Series NEW

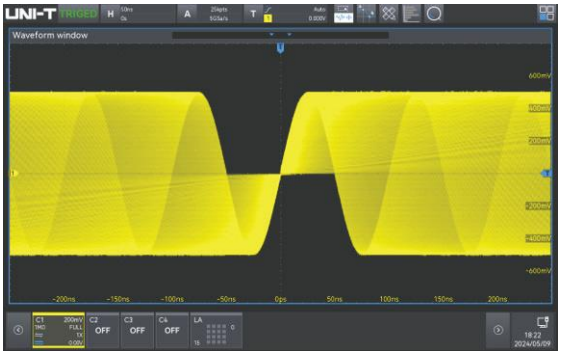
Digital Oscilloscopes

The MSO3000X series mixed-signal oscilloscope features a maximum bandwidth of 500 MHz, a sample rate up to 5 GSa/s, and is equipped with 4 analog channels and 16 digital channels, along with a memory depth of up to 500 Mpts. With its Ultra Phosphor 3.0 technology, it achieves waveform capture rates up to 2,000,000 wfms/s and uses an innovative digital trigger system offering high sensitivity and low jitter. This oscilloscope supports advanced triggers, serial bus triggering and decoding, as well as spectrum analysis, power analysis, histograms, waveform recording, enhanced resolution (ERES), and hardware-accelerated template testing. Its 10.1 inch capacitive touch screen with multi-gesture support, combined with one-touch keys on the front panel, enhances operation efficiency and improves user experience.

- Analog channel bandwidth: 350 MHz/500 MHz
- Maximum sample rate: 5 GSa/s
- Maximum memory depth: 500 Mpts
- Waveform capture rate: 800,000 wfms/s, 2,000,000 wfms/s (Sequence mode)
- 4 analog channels, 16 digital channels
- 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 Phosphor 3.0 display technology
- 10.1 inch 1280x800 HD capacitive touch
- Supports SCPI programmable instrument standard commands
- Embedded WebServer

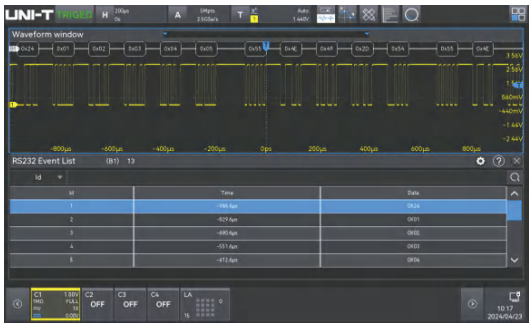


9-in-1 Comprehensive Test Platform



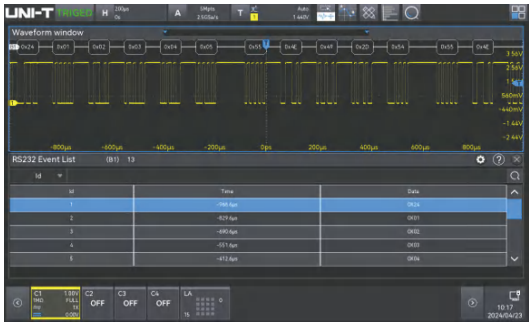
Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 800,000 wfms/s and 2,000,000 wfms/s in Sequence mode

MSO3000X series provides 54 kinds of measurement parameters. The parameter snapshot displays 27 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	350 MHz	500 MHz
Channels	4	4
Sample rate (analog)	5 GSa/s (interweave mode), 2.5 GSa/s (non-interweave mode)	
Sample rate (digital)	1.25 GSa/s	
Memory depth	500 Mpts	
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 k Ω±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 Options: 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	4 digit, DC/AC RMS/DC+AC RMS	
Advanced analysis function	Power Analysis (Optional), BODE Plot (Included with AWG Option), Limit Mask Testing	
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), Gen Out, HDMI,WIFI, 10 MHz reference clock IN/OUT	

General Characterisitics	
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

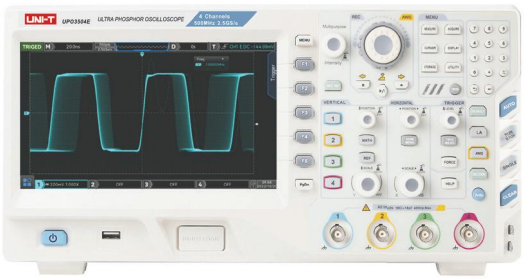
Ordering Information	
MSO3000X Series	MSO3054X: 500 MHz, 5 GSa/s, 500 Mpts, 4 CH digital oscilloscope
	MSO3054X: 350 MHz, 5 GSa/s, 500 Mpts, 4 CH digital oscilloscope
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D30: USB 3.0 data cable
	UT-P07A/UT-P08A: Passive probe x 4 (1x, 10x switchable, 500 MHz/350 MHz)
	UT-L45: BNC-BNC straight-through cable ×1
	UT-L02: BNC-red and black alligator connecting wire x 1
Options	MSO3000X-BW3M5T5M: 350 MHz Upgrade to 500 MHz Bandwidth
	MSO3000X-AWG: Dual-Channel 50 MHz Arbitrary Waveform Generator Option (includes Bode Plot)
	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	Active single-ended probe (2 GHz; 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-4100A/UT-4100B
	16-channel logic analyzer probe: UT-M15
	Isolation transformer: UT-ISOT

CE

MSO3000X Series

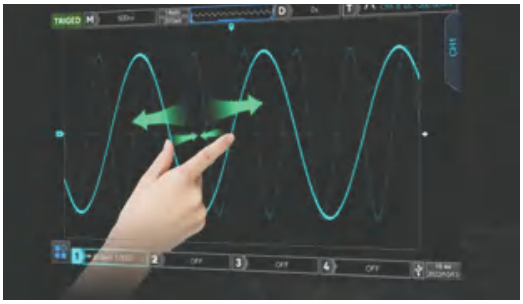
MSO/UPO3000E Series

Digital Oscilloscopes

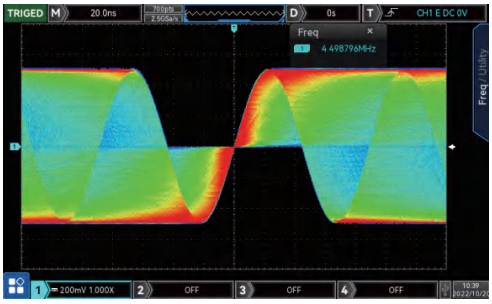


The MSO/UPO3000E series digital phosphor oscilloscope is a multifunctional and high-performance oscilloscope based on UNI-T's original Ultra Phosphor 2.0 technology. It realizes the combination of ease of use, excellent technical indicators and many functional features. It can help users complete the 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.

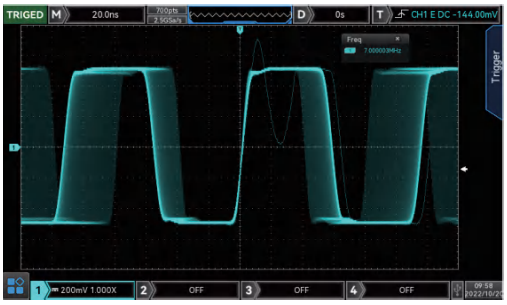
- Analog channel bandwidth: 350 MHz, 500 MHz
- Real time Sample rate of analog channel 2.5 GSa/s,Real time Sample rate of digital channel 1.25 GSa/s (only MSO)
- Input impedance: 1 mΩ,50 Ω
- Max. memory depth: 250 Mpts
- Waveform capture rate up to 1,000,000 wfms/s
- Built in 50 MHz dual channel function/arbitrary 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 (+, -, ×, ÷, 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
- 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 800×480 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



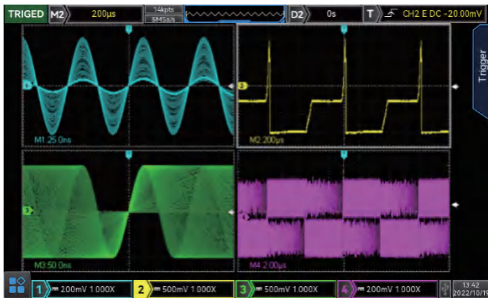
Easy-to-use interactive experience



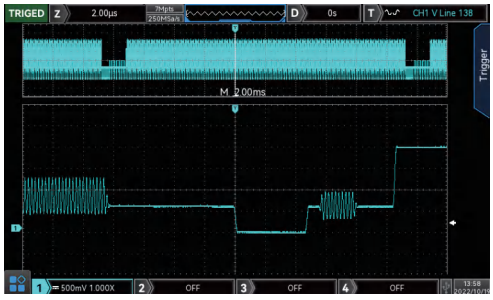
256-level grayscale display



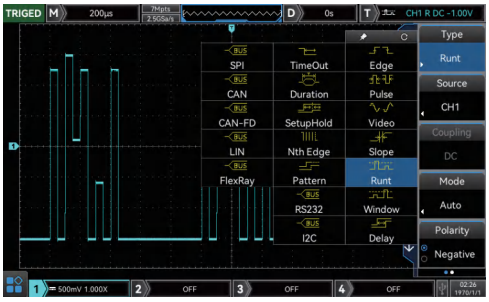
Ultra high capture rate 1,000,000 wfms/s in Fast Acquire mode



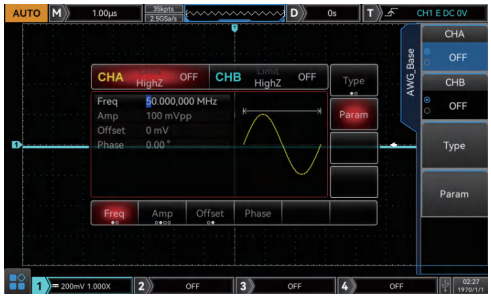
Channel split screen function Multi-Scopes 2.0



Max. memory depth 250 Mpts



Rich trigger function



AWG Function Arbitrary Waveform Generator (-S models)

Embedded with Web Server

Key Specifications	MSO3352E UPO3352E	MSO3354E UPO3354E	MSO3354E-S	MSO3502E UPO3502E	MSO3504E UPO3504E	MSO3504E-S
Bandwidth	350 MHz			500 MHz		
Channels	2+ 16digital/2	4+ 16digital/4	4+ 16digital, 2CH AWG	2+ 16digital/2	4+ 16digital/4	4+ 16digital, 2CH AWG
Sample rate (analog)	2.5 GSa/s (Single channel), 1.25 GSa/s (all channels)					
Sample rate (digital)	1.25 GSa/s					
Max. memory depth	250 Mpts					
Waveform capture rate	200,000 wfms/s; 1,000,000 wfms/s (Fast Acquire)					
Time base scale (s/div)	1ns/div-1000s/div (Display current Sample rate and memory depth)					
Input impedance	(± 2%@1 mΩ,±1.5%@50 Ω)‖(18 pF± 3 pF)					
Input impedance (digital)	(101 k Ω±1%)‖(9 pF ± 1 pF)					
Vertical scale (V/div)	1 mV/div-10 V/div (1 MΩ); 1 mV/div-1 V/div (50 Ω)					
DC gain accuracy	<5 mV:±3%, ≥5 mV:±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, 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; 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 Characterisitics	
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)	370 mm × 185 mm × 115 mm
Standard quantity per carton	1pcs
Standard carton size	475 mm x 215 mm x 300 mm
Standard carton gross weight	5.2kg

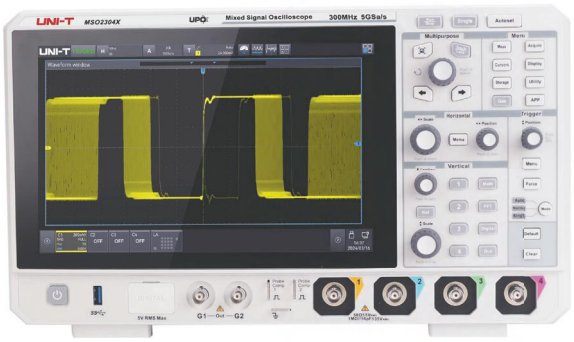
Ordering Information	
Model MSO3000E Series	MSO3504E-S: 500 MHz, 2.5 GSa/s, 250 Mpts, 4+16CH MSO, 2CH 50 MHz AWG
	MSO3504E: 500 MHz, 2.5 GSa/s, 250 Mpts, 4+16CH MSO
	MSO3502E: 500 MHz, 2.5 GSa/s, 250 Mpts, 2+16CH MSO
	MSO3354E-S: 350 MHz, 2.5 GSa/s, 250 Mpts, 4+16CH MSO, 2CH 50 MHz AWG
	MSO3354E: 350 MHz, 2.5 GSa/s, 250 Mpts, 4+16CH MSO
	MSO3352E: 350 MHz, 2.5 GSa/s, 250 Mpts, 2+16CH MSO
Model UPO3000E Series	UPO3504E: 500 MHz, 2.5 GSa/s, 250 Mpts, 4CH
	UPO3502E: 500 MHz, 2.5 GSa/s, 250 Mpts, 2CH
	UPO3354E: 350 MHz, 2.5 GSa/s, 250 Mpts, 4CH
	UPO3352E: 350 MHz, 2.5 GSa/s, 250 Mpts, 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 (1x, 10x switchable, 500 MHz) (MSO/UPO3502E,MSO/UPO3504E)
	UT-P08A: Passive probe x 2/4 (1x, 10x switchable, 350 MHz) (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) (Only MSO-S)
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

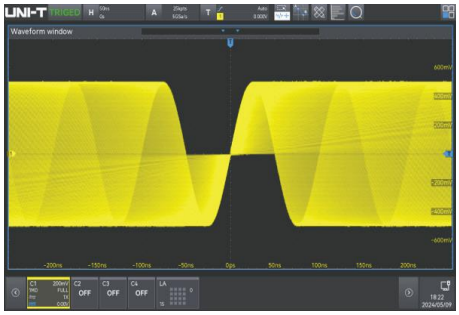
Digital Oscilloscopes



The MSO2000X series mixed-signal oscilloscope offers a maximum bandwidth of 300 MHz, a sample rate up to 5 GSa/s, and comes with 4 analog channels and 16 digital channels, along with a memory depth of up to 100 Mpts. Featuring Ultra Phosphor 3.0 technology, it delivers waveform capture rates of up to 2,000,000 wfms/s and includes an innovative digital trigger system with high sensitivity and low jitter. The oscilloscope supports advanced triggers, serial bus triggering and decoding, as well as spectrum analysis, power analysis, histograms, waveform recording, enhanced resolution (ERES), and hardware-accelerated template testing. Its 10.1 inch capacitive touch screen with multi-gesture functionality, combined with one-touch keys on the front panel, boosts operational efficiency and enhances the user experience.

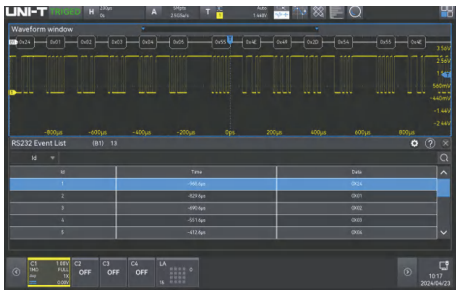
- Analog channel bandwidth: 100 MHz/200 MHz/300MHz
- Maximum sample rate: 5 GSa/s
- Maximum memory depth: 100 Mpts
- Waveform capture rate: 500,000 wfms/s, 2,000,000 wfms/s (Sequence mode)
- 4 analog channels, 16 digital channels
- 9-in-1: Digital oscilloscope, Logic analyzer, Function/arbitrary waveform generator, Spectrum analyzer, Digital voltmeter, Frequency counter, protocol analyzer, Bode plot analyzer, and Power analyzer
- Parameter measurement statistics add Histogram and Trend chart
- 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

9-in-1 Comprehensive Test Platform

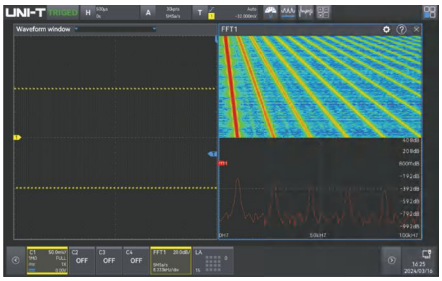


Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 500,000 wfms/s and 2,000,000 wfms/s in Sequence mode.

MSO2000X series provides 54 kinds of measurement parameters. The parameter snapshot displays 27 kinds of test items for a single channel measurement



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	100 MHz	200 MHz	300 MHz
Channels	4	4	4
Sample rate (analog)	5 GSa/s (interweave mode), 2.5 GSa/s (non-interweave mode)		
Sample rate (digital)	1.25 GSa/s		
Memory depth	100 Mpts 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 k Ω±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: RS232/422/485/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	4 digit, DC/AC RMS/DC+AC RMS		
Advanced analysis function	Power Analysis (Optional), BODE Plot (included with AWG Option), Limit Mask Testing		
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), Gen Out, HDMI,10 MHz reference clock IN/OUT		

General Characterisitics	
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	MSO2104X: 100 MHz, 5 GSa/s, 100 Mpts, 4 CH digital oscilloscope
	MSO2204X: 200 MHz, 5 GSa/s, 100 Mpts, 4 CH digital oscilloscope
	MSO2304X: 300 MHz, 5 GSa/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 ×1
	UT-L02: BNC-red and black alligator connecting wire x 1
Options	MSO2000X-BW1MT3M: 100 MHz Upgrade to 300 MHz Bandwidth
	MSO2000X-BW2MT3M: 200 MHz Upgrade to 300 MHz Bandwidth
	MSO2000X-BW1MT2M: 100 MHz Upgrade to 200 MHz 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-4100A /UT-4100B
	16-channel logic analyzer probe: UT-M15
	Isolation transformer: UT-ISOT

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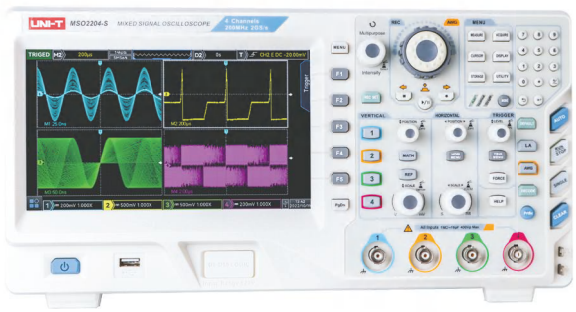
MSO2000X Series

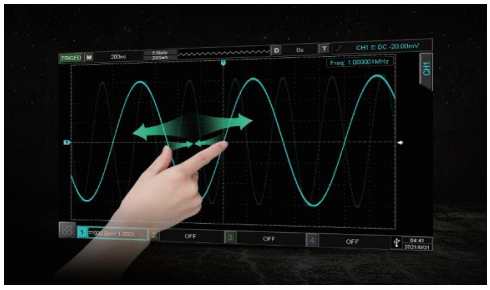
MSO/UPO2000 Series

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.

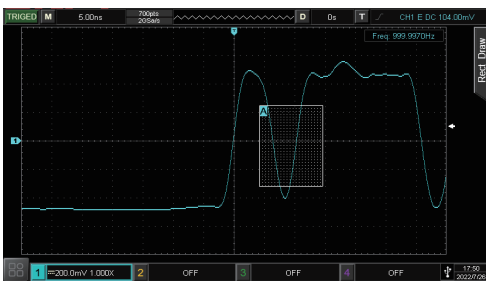
- Analog channel bandwidth: 200 MHz, 100 MHz
- Real time Sample rate of analog channel 2 GSa/s
- Memory depth of each channel: 56 Mpts
- Waveform capture rate up to 1,000,000 wfms/s
- Built in 50 MHz dual channel function / arbitrary waveform generator (only MSO-S)
- Support real-time loading of oscilloscope screen data to AWG arbitrary wave output
- Support Bode Plot loop test and analysis function (only MSO-S)
- 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 800×480 capacitive touch



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

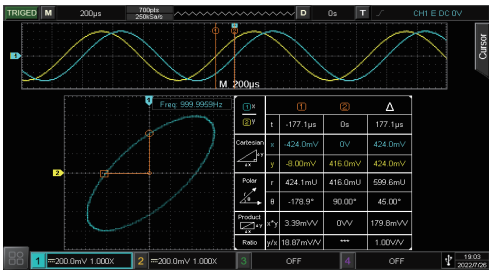
Using innovative digital signal parallel processing technology, it can reach an ultra-high capture rate of 200,000 wfms/s in normal sampling and 1,000,000 wfms/s in FastAcq mode.

The full-memory hardware decoding under the deep storage of 56 Mpts, 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 UPO2102	MSO2104-S MSO2104 UPO2104	MSO2202-S MSO2202 UPO2202	MSO2204-S MSO2204 UPO2204
Bandwidth	100 MHz		200 MHz	
Channels	2+16 digital/2	4+16 digital/4	2+16 digital/2	4+ 16 digital/4
Sample rate (analog)	2 GSa/s			
Sample rate (digital)	1 GSa/s (only MSO)			
Max. memory depth	56 Mpts per CH			
Waveform capture rate	200,000 wfms/s; 1,000,000 wfms/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	(1 mΩ±2%) II (16pF±3pF)			
Input impedance (digital)	(101k Ω±1%) II (9pF±1pF)			
Vertical scale (V/div)	500uV/div-20 V/div (1 MΩ)			
DC gain accuracy	<5 mV:±3%,≥5 mV:±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			
Auto measurements	Analog channel: 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; 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 Characterisitics	
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)	370 mm x 185 mm x 115 mm
Standard quantity per carton	1pcs
Standard carton size	470 mm x 215 mm x 300 mm
Standard carton gross weight	5.2kg

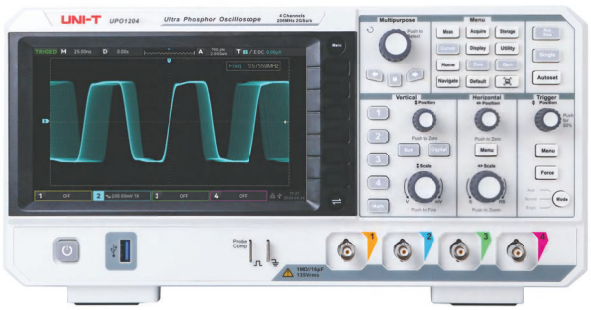
Ordering Information	
MSO2000 Series	MSO2204-S: 200 MHz, 2 GSa/s, 56 Mpts, 4+16CH MSO, 2CH 50 MHz AWG
	MSO2204: 200 MHz, 2 GSa/s, 56 Mpts, 4+16CH MSO
	MSO2202-S: 200 MHz, 2 GSa/s, 56 Mpts, 2+16CH MSO, 2CH 50 MHz AWG
	MSO2202: 200 MHz, 2 GSa/s, 56 Mpts, 2+16CH MSO
	MSO2104-S: 100 MHz, 2 GSa/s, 56 Mpts, 4+16CH MSO, 2CH 50 MHz AWG
	MSO2104: 100 MHz, 2 GSa/s, 56 Mpts, 4+16CH MSO
	MSO2102-S: 100 MHz, 2 GSa/s, 56 Mpts, 2+16CH MSO, 2CH 50 MHz AWG
	MSO2102: 100 MHz, 2 GSa/s, 56 Mpts, 2+16CH MSO
UPO2000 Series	UPO2204: 200 MHz, 2 GSa/s, 56 Mpts, 4CH
	UPO2202: 200 MHz, 2 GSa/s, 56 Mpts, 2CH
	UPO2104: 100 MHz, 2 GSa/s, 56 Mpts, 4CH
	UPO2102: 100 MHz, 2 GSa/s, 56 Mpts, 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 (1x, 10x switchable, 200 MHz) (MSO/UPO2202,MSO/UPO2204,MSO2202/4-S)
	UT-P04:Passive probe x 2/4 (1x, 10x switchable, 100 MHz) (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 Option (MSO/UPO2000-EMBD& MSO/UPO2000-AUTO)
	MSO/UPO2000-EMBD: Serial Bus Trigger and Decode Option (includes RS232, UART, I2C, SPI)
	MSO/UPO2000-AUTO: Automotive Serial Bus Trigger and Decode Option (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), for MSO-S models only
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/UPO2000 Series

UPO1000 Series

Digital Oscilloscopes



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 50 MHz/100 MHz/200 MHz, and the real-time Sample rate is as high as 2 GSa/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.

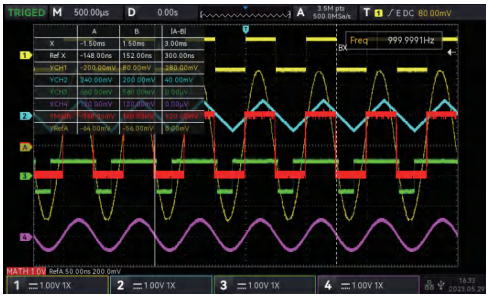
- Analog channel bandwidth: 200 MHz, 100 MHz,50 MHz
- Number of analog channels: 4
- Maximum Sample rate: 2 GSa/s
- Vertical scale: 500μV/div-20 V/div
- Low noise floor: <100μVrms
- Memory depth 56 Mpts/CH
- Waveform capture rate up to 500,000 wfms/s
- Hardware real-time waveform recording 120,000 frames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

- 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 56 Mpts. At the same time, the whole and details of the waveform are considered

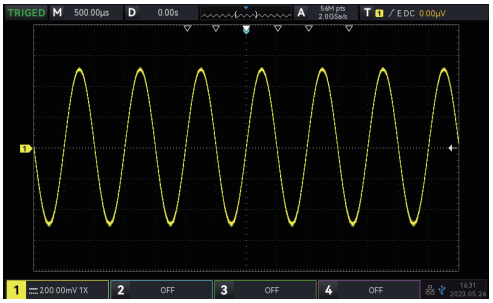
Innovative hardware decoding enables real-time decoding

1M sampling points 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	2 GSa/s		
Max. memory depth	56 Mpts (Per channel)		
Waveform capture rate	150,000 wfms/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	(1 mΩ± 2%) || (16 pF± 3pF)		
Vertical scale (V/div)	500 μV/div-20 V/div (1 mΩ)		
DC gain accuracy	<10 mV: ±4.0% full scale; ≥10 mV: ±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, 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		
FFT points	1 Mpts		
Frequency counter	7 bit hardware frequency meter		
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out/Pass/Fail)		

General Characterisitics	
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)	306 mm × 138mm × 107mm
Standard quantity per carton	1pcs
Standard carton size	470 mm × 215 mm × 300 mm
Standard carton gross weight	4 kg

Ordering Information	
UPO1000 Series	UPO1054: 50 MHz, 2 GSa/s, 56 Mpts, 4CH
	UPO1104: 100 MHz, 2 GSa/s, 56 Mpts, 4CH
	UPO1204: 200 MHz, 2 GSa/s, 56 Mpts, 4CH
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14: USB interface cable
	UT-P03: Passive probe x 4 (1x, 10x switchable, 60 MHz) (UPO1054)
	UT-P04: Passive probe x 4 (1x, 10x switchable, 100 MHz) (UPO1104)
	UT-P05: Passive probe x 4 (1x, 10x switchable, 200 MHz) (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

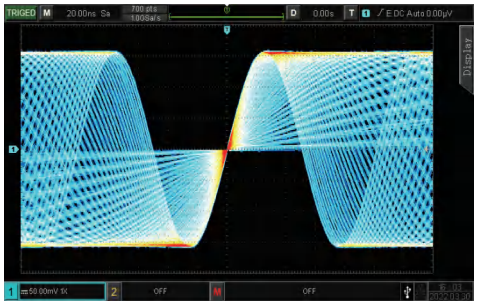
UPO1000 Series

UPO1000CS Series

Digital Oscilloscopes

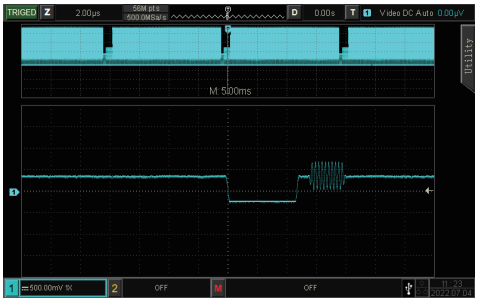
The UPO1000CS Series offers unprecedented value in customer applications with its innovative technology, industry leading specifications, powerful trigger functions and analysis capabilities.The Series is available in100 and 200 MHz bandwidths and 2 analog channels.It adopts UNI-T UPO visualization technology, 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.

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

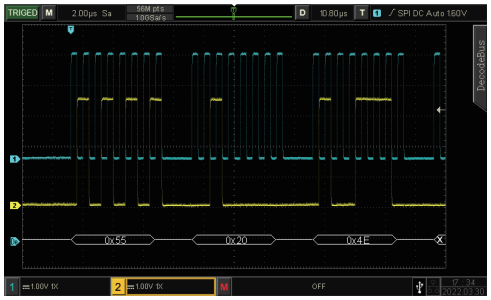


Using the original Ultra Phosphor display technology, it is easy to display the details of the waveform information

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

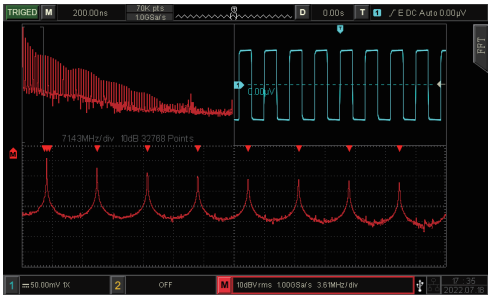


Standard 56 Mpts per channel. Take into account the overall and details of the waveform



Innovative hardware decoding enables real-time decoding. The decoding time under the deep storage 56 Mpts 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	1 GSa/s (Per channel)	
Max. memory depth	56 Mpts (Per channel)	
Waveform capture rate	150,000 wfms/s; 500,000 wfms/s (Fast Acquire mode)	
Time base scale (s/div)	2ns/div-1000s/div	1ns/div-1000s/div
Input impedance	(1 mΩ± 2%)‖(16 pF± 3pF)	
Vertical scale (V/div)	1 mV/div-20 V/div (1 mΩ)	
DC gain accuracy	<10 mV: ±4.0% full scale; ≥10 mV: ±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)	

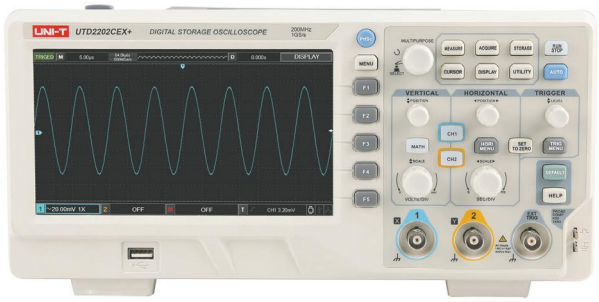
General Characterisitics	
Power	100 V-240 V AC, 50Hz/60Hz
Display	7 inch TFT LCD, WVGA (800×480)
Product net weight	3.0 kg
Product size (W×H×D)	306 mm × 138mm × 107mm
Standard quantity per carton	1pcs
Standard carton size	410 mm × 225 mm × 270 mm
Standard carton gross weight	4 kg

Ordering Information	
UPO1000CS Series	UPO1102CS: 100 MHz, 1 GSa/s, 56 Mpts, 2CH
	UPO1202CS: 200 MHz, 1 GSa/s, 56 Mpts, 2CH
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14: USB interface cable
	UT-P04: Passive probe x 2 (1x, 10x switchable, 100 MHz) (UPO1102CS)
	UT-P05: Passive probe x 2 (1x, 10x switchable, 200 MHz) (UPO1202CS)
Options	UPO1000CS-AUTO: Automotive Serial Bus Trigger and Decode option (CAN, LIN)
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

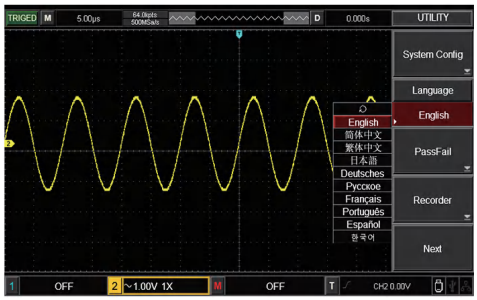
UTD2000CEX+ Series

Digital Oscilloscopes

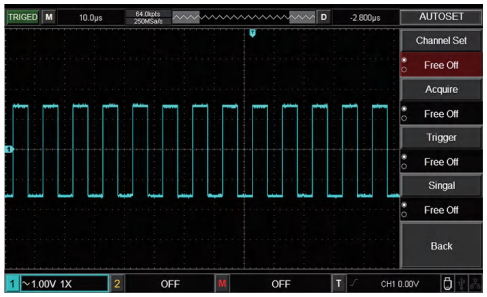


The UTD2000CEX+ Series digital storage oscilloscope serves as an entry-level bench solution, addressing the fundamental requirements of basic measurements. Its straightforward and intuitive front panel is designed for easy operation. The UTD2000CEX+ Series offers bandwidth options of 50 MHz, 100 MHz, and 200 MHz, a real-time Sample rate of 1 GSa/s, dual channels, and a memory depth of 64 Kpts. 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.

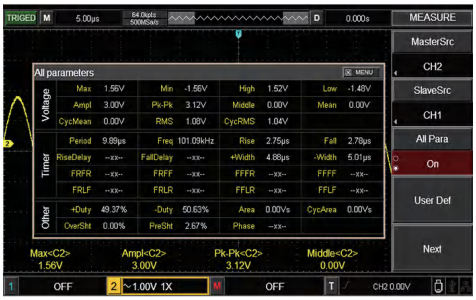
- 50/100/200 MHz bandwidth
- 2 channels, low noise floor, wide vertical range:1 mV/div-20 V/div
- Memory depth: 64 Kpts
- System software upgrade via USB drive
- 7 inch TFT LCD
- Supports plug-and-play USB storage device
- Communication with and remote control of computer through the USB device



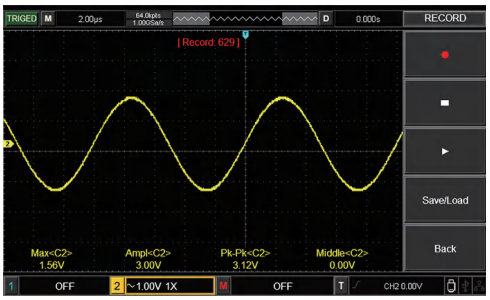
Multilingualism to meet the needs of users in more countries



8div×16div Wider display range



Automatic Measurement of waveform parameter



Waveform recording functions

Key Specifications	UTD2052CEX	UTD2102CEX+	UTD2202CEX+
Bandwidth	50 MHz	100 MHz	200 MHz
Channels	2		
Sample rate	1 GSa/s		
Memory depth	64 Kpts		
Waveform capture rate	5,000 wfms/s		
Rise time	<7ns	<3.5ns	<1.8ns
Vertical scale (V/div)	1 mV/div-20 V/div		
Vertical resolution	8 bit		
Time base scale (s/div)	2 ns/div-50 s/div		
Deviation from scope	±8 div (away from screen center)		
Input impedance	1 mΩ±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, C ycRMS, Period, Freq, Rise, Fall, RiseDelay, FallDelay, +Width, -Width, FRR, FRF, FFR , FFF, LRF, LRR, LFR, LFF, +Duty, -Duty, Area, CycArea, OverSht, PreSht, Phase, 34 paramet ers in total		
Displayed measurements	Display 5 measurements at the same time		
Frequency counter	6 bit		
Interface	USB Host, USB Device, Pass/Fail		

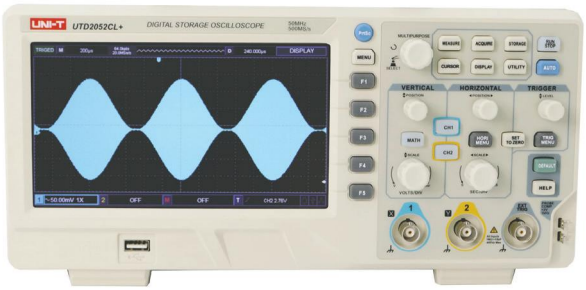
General Characterisitics	
Power	100-240 VAC, 45-440Hz
Display	7 inch TFT LCD, 800×480
Product color	White and grey
Product net weight	2.5kg
Product size (W×H×D)	306 mm × 138mm × 124 mm
Standard quantity per carton	2pcs
Standard carton size	450 mm x 420 mm x 280 mm
Standard carton gross weight	7.5kg

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

UTD2000CEX+ Series

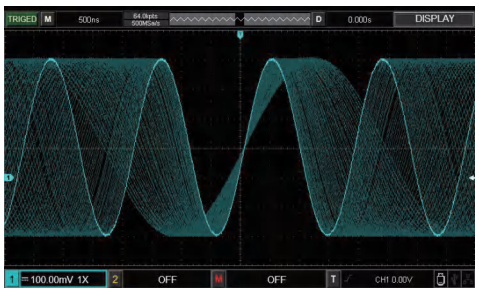
UTD2000CL/CL+ Series

Digital Oscilloscopes

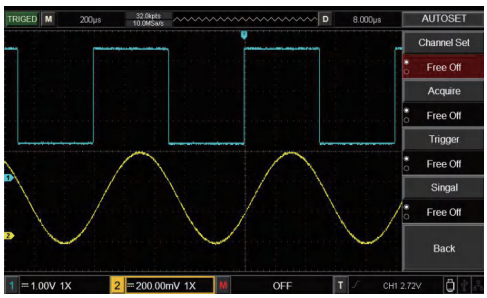


The UTD2000CL/CL+ Series stands out as a popular choice for entry-level digital oscilloscopes, designed to fulfill mainstream testing needs. With a classic front panel design and a clear user interface, this model is well-suited for your daily testing tasks.

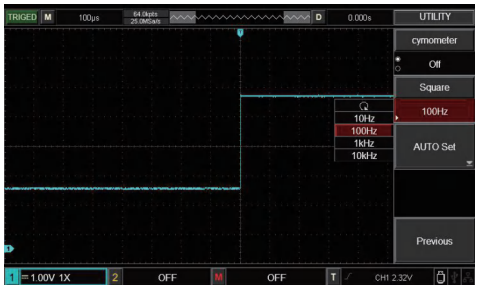
- 50 MHz/70 MHz/100 MHz/150 MHz bandwidth
- 2 channels
- Low noise floor
- wide vertical range:1 mV/div-20 V/div
- Memory depth: 64 Kpts
- System software upgrade via USB drive
- 7 inch TFT LCD
- Supports plug-and-play USB storage device, communication with and remote control of computer through the USB device



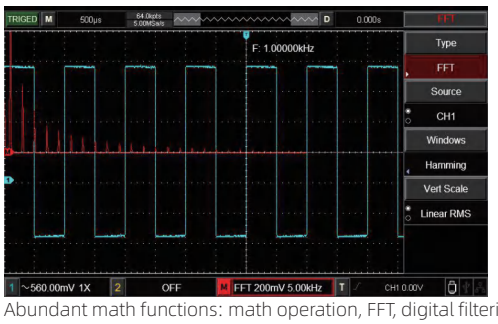
Wider display range 8div×16div



New autoset function, easy to handle complex test scenarios

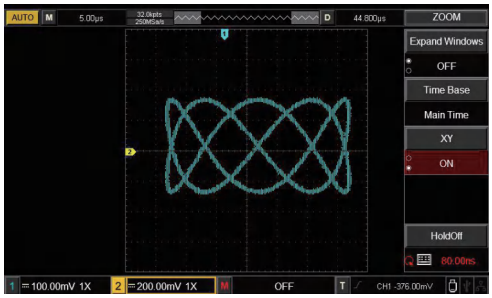


Multiple frequency output standard square wave optional



Abundant math functions: math operation, FFT, digital filtering

Automatic measurement of waveform parameters



Lissajous figure phase measurement

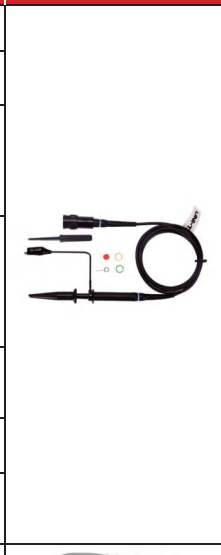
Key Specifications	UTD2052CL+	UTD2102CL+	UTD2072CL	UTD2152CL
Channels	2			
Bandwidth	50 MHz	100 MHz	70 MHz	150 MHz
Sample rate	500 MSa/S			
Memory depth	64 Kpts			
Waveform capture rate	5,000 wfms/s			
Rise time	<7ns	<3.5ns	<5ns	<2.4ns
Vertical scale (V/div)	1 mV/div-20 V/div			
Time base scale (s/div)	2ns/div-50s/div		2ns/div-50s/div	
Timing accuracy	≤± (50+2 × service life) 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, A×B, A/B, FFT			
Auto measurements	Max, Min, High, Low, Ampl, Pk-Pk, Middle, Mean, CycMean, RMS, CycRMS, Period, Freq, Rise, Fall, RiseDelay, FallDelay, +Width, -Width, +Duty, -Duty, FRR, FRF, FFR , FFF, LRF, LRR, LFR, LFF, Area, CycArea, OverSht, PreSht, Phase, 34 paramet ers 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 Characterisitics	
Power	100-240 V AC, 45-440Hz
Display	7 inches TFT LCD, 800×480
Product color	White and grey
Product net weight	2.5kg
Product size (W×H×D)	336 mm × 164 mm × 108mm
Standard quantity per carton	2pcs
Standard carton size	450 mm x 420 mm x 280 mm
Standard carton gross weight	6.7kg

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

UTD2000CL/CL+ Series

Accessories

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

Model	Picture	Information	Certification	Series
UT-P43		Current range: 20 A AC/DC, Frequency: DC-25 MHz, Conversion ratio: 100 mV/A	ROW	MSO7000X; MSO5000HD; MSO3000HD; MSO/UPO3000E; MSO3000X; MSO2000X; MSO/UPO2000; UPO2000E; UP01000CS; UPO1000; UTD2000CEX+; UTD2000CL/CL+
UT-P44		Current range: 40 A AC/DC, Frequency: DC-50 MHz, Conversion ratio: 50 mV/A		
UT-M15		Logic analyzer probe: 16CH		MSO7000X; MSO5000HD; MSO3000HD; MSO/UPO3000E; MSO3000X; MSO2000X; MSO/UPO2000
UT-ISOT		Isolation transfomer for Bode Plot application (Hardware)		
UT-P4100 A		100 A/600 kHz Low frequency current probe Range: 100 A/10 A, Freq range: DC-600 kHz, Rise time: ≤583ns		MSO7000X; MSO3000HD; MSO3000X; MSO2000X; MSO/UPO3000E; MSO/UPO2000; UPO1000CS; UPO1000; UPO1002
UT-P4100B		100 A/2 MHz Low frequency current probe Range: 100 A/10 A, Freq range: DC-2 mHz, Rise time: ≤175ns		
UT-M13X		Oscilloscope Signal Protocol Demonstration Board		

Generators

Waveform Generators

Selection Guide

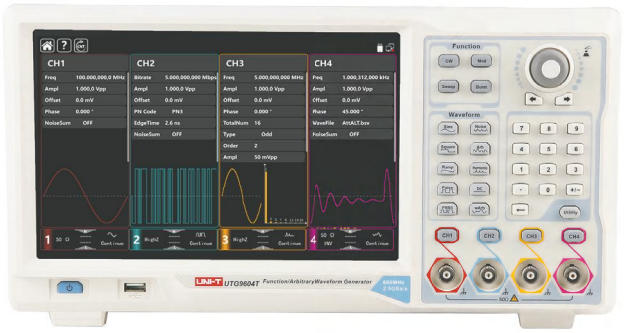
Series	Model	Channels	Sample rate	MAX Frequency											
				600 MHz	500 MHz	350 MHz	200 MHz	160 MHz	120 MHz	80 MHz	60 MHz	40 MHz	30 MHz	25 MHz	20 MHz
UTG9000T	UTG9604T	4	2.5 GSa/s	●											
	UTG9504T				●										
	UTG9354T					●									
UTG4000A	UTG4202A	2	500 MSa/s				●								
	UTG4162A							●							
	UTG4122A								●						
	UTG4082A									●					
UTG2000X	UTG2122X	2	1.25 GSa/s						●						
	UTG2082X									●					
	UTG2062X										●				
UTG2000A/B	UTG2122B	2	1.28 GSa/s						●						
	UTG2082B									●					
	UTG2062B										●				
	UTG2025A		125 MSa/s											●	
UTG1000X	UTG1042X	2	200 MSa/s									●			
	UTG1022X														●
	UTG1022X-PA														●
UTG900E	UTG962E	2	200 MSa/s								●				
	UTG932E												●		

Accessories

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

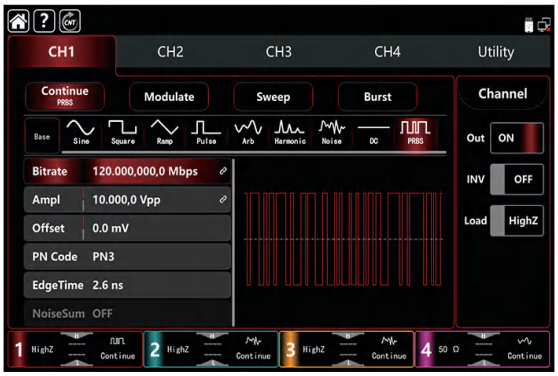
UTG9000T Series

Waveform and Function Generators

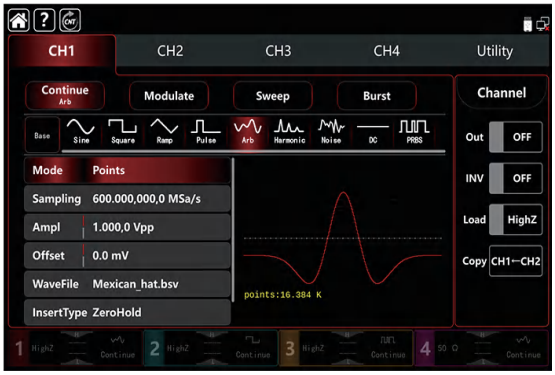


The UTG9000T Series pulse/function/arbitrary waveform generators utilize Direct Digital Synthesizer (DDS) technology to produce precise and stable waveforms with a bandwidth of up to 600 MHz. They offer a maximum sample rate of 2.5 GSa/s and an ultra-fine resolution of 1 μHz. These instruments deliver accurate, stable, pure, and low-distortion signals. Designed for ease of use, they combine technical excellence with the ability to generate high-frequency square waves featuring fast rise and fall times, making them versatile tools for a wide range of applications.

- 4 channels output
- Output: 350 MHz/500MHz/600 MHz sine wave, full-band resolution: 1 μHz
- 200 MHz maximum pulse waveform with adjustable rise and fall time
- Sample rate: 2.5 GSa/s, Vertical resolution: 16 bit
- Arbitrary wave memory depth of 64 Mpts, 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, OSK, PWM, SUM
- 10.1 inch capacitive touchscreen with 1280*800 resolution
- Digital protocol output: SPI, I2C, UART
- Standard interfaces: USB Host, USB Device, LAN

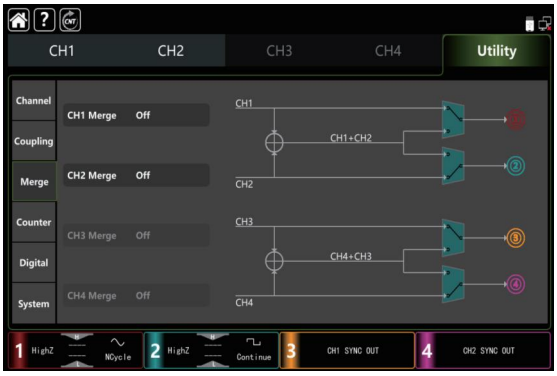


Support for multiple signal outputs: sine, square, ramp, pulse, harmonic, noise, PRBS, DC, arbitrary waveform

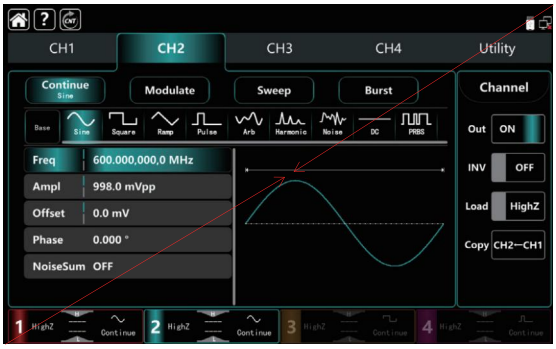


Arbitrary wave memory depth of 64 Mpts, supports point-to-point output.

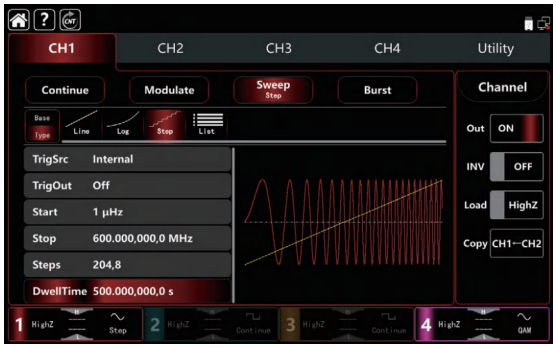
Digital protocol output: SPI, I2C, UART



Addition of Waveforms And Channels Merge



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



Rich sweep features: Line, Log, Step, List

Key Specifications	UTG9354T	UTG9504T	UTG9604T	UTG9354T	UTG9504T	UTG9604T
Channel	CH1 & CH2			CH3 & CH4		
Max. frequency	350 MHz	500 MHz	600 MHz	160 MHz	200 MHz	200 MHz
Sample rate	2.5 GSa/s			625 MSa/s		
Vertical resolution	14 bit	14 bit	16 bit	16 bit	16 bit	16 bit
Arbitrary wave length	8 pts-64 Mpts			8 kpts		
Working mode	Continue, modulation, frequency sweep, burst, frequency counter (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 frequency counter	100 mHz-800 MHz, DC/AC coupling					
Frequency Characteristics						
Sine wave	1 µHz-350 MHz	1 µHz-500 MHz	1 µHz-600 MHz	1 µHz-160 MHz	1 µHz-200 MHz	1 µHz-200 MHz
Square wave	1 µHz-120 MHz	1 µHz-160 MHz	1 µHz-200 MHz	1 µHz-50 MHz	1 µHz-60 MHz	1 µHz-60 MHz
Pulse wave	1 µHz-120 MHz	1 µHz-160 MHz	1 µHz-200 MHz	1 µHz-50 MHz	1 µHz-60 MHz	1 µHz-60 MHz
Ramp wave	1 µHz-20 MHz	1 µHz-30 MHz	1 µHz-30 MHz	1 µHz-8MHz	1 µHz-10 MHz	1 µHz-10 MHz
Noise	1 mHz-350 MHz	1 mHz-500 MHz	1 mHz-600 MHz	1 mHz-160 MHz	1 mHz-200 MHz	1 mHz-200 MHz
Arbitrary wave (DDS)	1 µHz-80 MHz	1 µHz-100 MHz	1 µHz-100 MHz	1 µHz-50 MHz	1 µHz-60 MHz	1 µHz-60 MHz
PRBS	1 µbps-80 Mbps	1 µbps-120 Mbps	1 µbps-120 Mbps	1 µbps-40 Mbps	1 µbps-60 Mbps	1 µbps-60 Mbps
Harmonic wave	1 µHz-175 MHz	1 µHz-250 MHz	1 µHz-300 MHz	1 µHz-80 MHz	1 µHz-100 MHz	1 µHz-100 MHz
Frequency resolution	1 µHz					
Rise/fall time	1 MHz, 1 Vpp, 50 Ω load					
	<2ns	<2ns	<1.5ns	<6ns	<5ns	<5ns

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

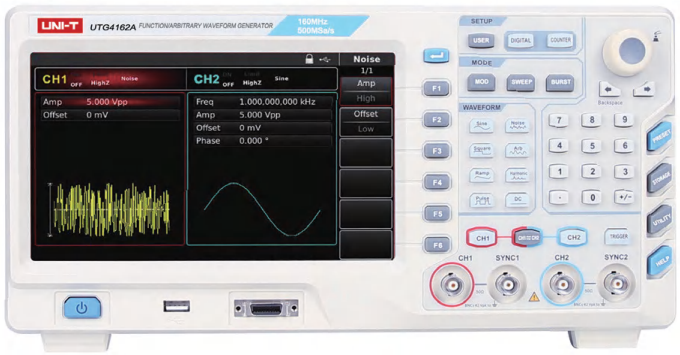
General Characterisitics	
Power	100 V to 240 VAC (fluctuate: ±10%), 50 Hz/60 Hz 100 V to 120 VAC (fluctuate: ±10%), 400 Hz
Display	10.1 inches TFT capacitive touchscreen with 1280*800 resolution
Product net weight	4.04kg
Product size (W×H×D)	370 mm*115 mm*185 mm
Standard quantity per carton	1pc
Standard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

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

UTG9000T Series

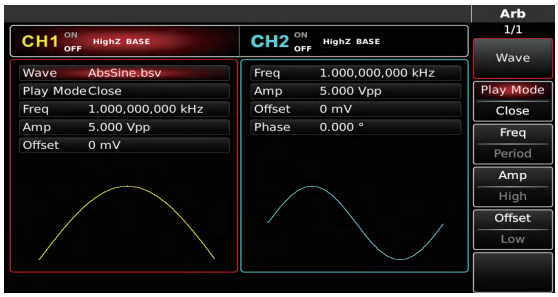
UTG4000A Series

Waveform and Function Generators

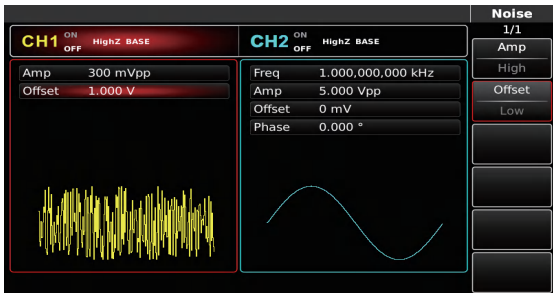


The UTG4000A Series waveform generators boast a multi-function design, making them well-suited for diverse application scenarios. With features such as Function Generation, Arbitrary Waveform Generation, Pulse Generation, Harmonic Generation, Analog/ Digital Modulation source, and a frequency counter, the UTG4000A Series is capable of handling a wide range of signal emulation applications–from near DC up to 80 MHz or even 200 MHz, depending on the model and function. Utilizing Direct Digital Synthesizer (DDS) technology, the UTG4000 A 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.

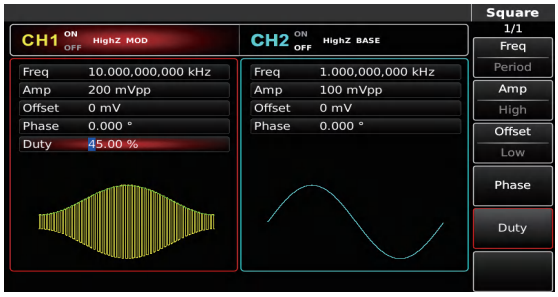
- 80 MHz/120 MHz/160 MHz/200 MHz sine waveform output, 1 μHz full-band resolution
- 30 MHz/40 MHz/50 MHz pulse/square waveform, adjustable rise/fall time
- 500 MSa/s Sample rate, 16 bit vertical resolution
- Standard dual channels, supporting stand-alone or channel-coupling output mode
- 32 Mpts arbitrary waveform depth, 7GB non-volatile arbitrary waveforms
- Versatile modulation options: AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM
- Frequency counter cymometer range: 100 MHz-800 MHz
- 8 inch TFT LCD, WVGA (800×480)
- Standard Ports: USB Host, USB Device, LAN, 10 MHz Input, 10 MHz Output, Frequency Counter, FSK Trig, Modulation In



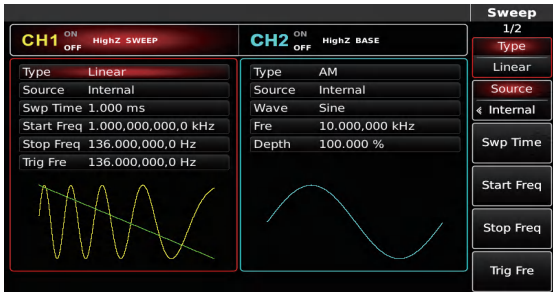
Built-in arbitrary waveform available at any time



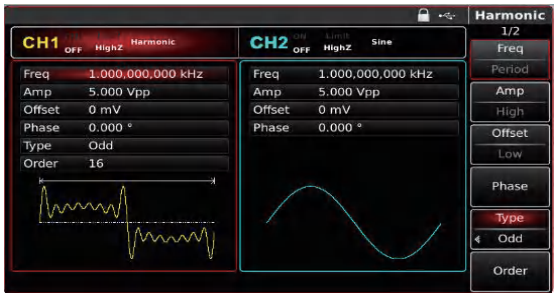
Noise modes



Rich modulation functions



Linear and logarithmic sweep waveform



Customizable harmonic generation function

Optional digital signal output interface: SPI, IIC, UART

Key Specifications	UTG4082 A	UTG4122 A	UTG4162 A	UTG4202 A
Max. frequency	80 MHz	120 MHz	160 MHz	200 MHz
Channels	2			
Sample rate	500 MSa/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, OSK, PWM, SUM, QAM			
Hardware frequency counter	100 mHz-800 MHz, 7 digits			
Sine	1 μHz-80 MHz	1 μHz-120 MHz	1 μHz-160 MHz	1 μHz-200 MHz
Square/Pulse	1 μHz-30 MHz	1 μHz-40 MHz	1 μHz-50 MHz	1 μHz-60 MHz
Ramp	1 μHz-2 MHz	1 μHz-3 MHz	1 μHz-4 MHz	1 μHz-5 MHz
Harmonic	1 μHz-40 MHz	1 μHz-60 MHz	1 μHz-80 MHz	1 μHz-100 MHz
Noise (-3 dB)	80 MHz	120 MHz	160 MHz	200 MHz
Resolution	1 μHz			
Arbitrary Waveform				
Frequency range	1 μHz-20 MHz	1 μHz-30 MHz	1 μHz-40 MHz	1 μHz-50 MHz
Memory depth	8 pts-32 Mpts	8 pts-32 Mpts	8 pts-32 Mpts	8 pts-32 Mpts
Vertical resolution	16 bit			
Min rise/fall time (typical: 1 Vpp)	<7ns	<6ns	<5ns	<5ns

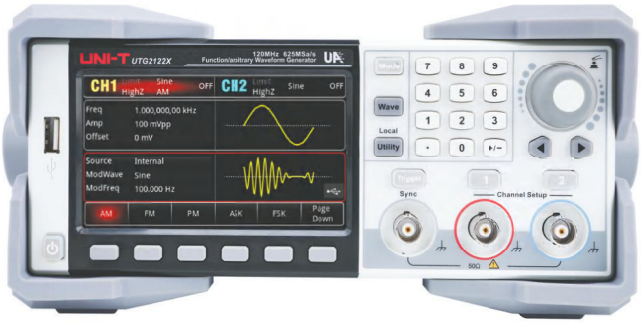
General Characterisitics	
Power	100 V-240 V AC, 50Hz/60Hz
Display	8 inch TFT LCD, WVGA (800 x 480)
Product net weight	3.5kg
Product size(W×H×D)	336 mm x 164 mm x 108mm
Standard quantity per carton	1pc
Standard carton size	405 mm x 225 mm x 265 mmv
Standard carton gross weight	4.8kg

Ordering Information	
UTG4000 A Series	UTG4082A: 80 MHz, 500 MSa/s, 32 Mpts, 2CH
	UTG4122A: 120 MHz, 500 MSa/s, 32 Mpts, 2CH
	UTG4162A: 160 MHz, 500 MSa/s, 32 Mpts, 2CH
	UTG4202A: 200 MHz, 500 MSa/s, 32 Mpts, 2CH
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14: USB interface cable
	BNC cables (1 m): 1pair
Optional Accessories	UT-U02: digital cable

UTG4000A Series

UTG2000X Series NEW

Waveform and Function Generators



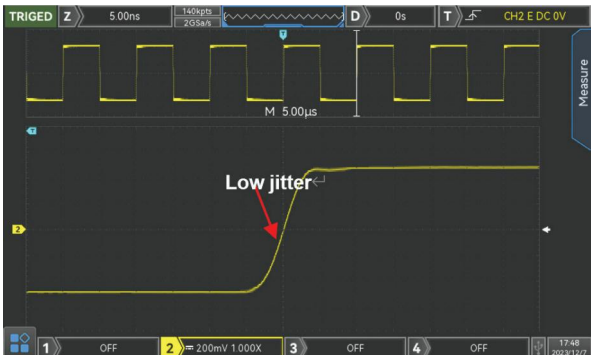
The UTG2000X series uses direct digital synthesis technology to produce accurate and stable waveform output with a resolution as low as 1 μHz. It is an economical, high-performance, multi-functional function/arbitrary waveform generator. It can generate accurate, stable, pure and low-distortion output 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.

- Dual channel with the maximum frequency output 120 MHz, the maximum output amplitude 20 Vpp
- 625 MSa/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

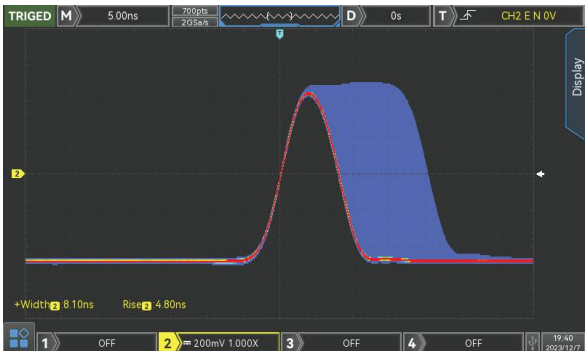
- Supports frequency sweep and burst output
- Low jitter waveform can be outputted point by point within the range of arbitrary waveform length from 8 pts to 64 Mpts
- Supports channel copying, following, and stacking settings
- Arbitrary waveform can be generated by PC software
- 7 bit hardware frequency meter
- Built-in 200 arbitrary waves
- Standard USB Host, USB Device, and LAN interface
- Support SCPI programmable instrument standard commands
- 4.3 inch high resolution touch-screen TFT LCD

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

Low distortion output, -80 dBc 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	60 MHz	80 MHz	120 MHz
Sample rate	625 MSa/s (1.25 GSa/s, 2 x interpolation)		
Vertical resolution	16 bit	16 bit	16 bit
Arbitrary wave length	64 Mpts		
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	100 mHz-200 MHz, 7 digits		
Frequency Characteristics			
Sine wave	1 μHz-60 MHz	1 μHz-80 MHz	1 μHz-120 MHz
Square wave	1 μHz-30 MHz	1 μHz-40 MHz	1 μHz-50 MHz
Pulse wave	1 μHz-30 MHz	1 μHz-40 MHz	1 μHz-50 MHz
Ramp wave	1 μHz-3 MHz	1 μHz-4 MHz	1 μHz-5 MHz
Arbitrary wave	1 μHz-30 MHz	1 μHz-40 MHz	1 μHz-50 MHz
Harmonic	1 μHz-30 MHz	1 μHz-40 MHz	1 μHz-50 MHz
Expression	1 μHz-15 MHz	1 μHz-20 MHz	1 μHz-25 MHz
PRBS	1 μbps-30 Mbps	1 μbps-40 Mbps	1 μbps-50 Mbps
Gauss noise	1 mHz-60 MHz	1 mHz-80 MHz	1 mHz-120 MHz
Frequency resolution	1 μHz		
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)	≤20 MHz: 1 mVpp-10 Vpp		
	≤60 MHz: 1 mVpp-5 Vpp		
	≤120 MHz: 1 mVpp-2 Vpp		
Amplitude accuracy	Typical value (1kHz, sine wave, 0 V, deviation >10 mVpp)		
	± (1% of set value+1 mVpp)		
DC offset range	±5 V (50 Ω); ±10 V (High Z)		
DC offset accuracy	Offset set value ±1% ± amplitude set value 0.5%±2 mV		
Interface			
Standard configuration	USB Host, USB Device, LAN		
Output Impedance	50 Ω		

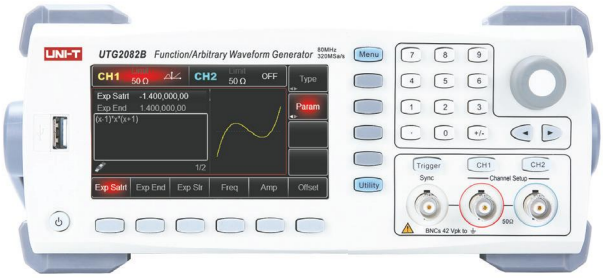
General Characterisitics	
Power	100-240 VAC (Fluctuations: ±10%), 50 Hz/60Hz; 100-120 VAC (Fluctuations: ±10%), 400 Hz
Display	4.3 inch TFT LCD WVGA (480×277),capacitive touch
Product size(W×H×D)	215 mm × 103mm × 316 mm
Product net weight	2.5kg
Standard quantity per carton	1pc

Ordering Information	
UTG2000X Series	UTG2062X: 60 MHz, 1.25 GSa/s, 64 Mpts, 2CH
	UTG2082X: 80 MHz, 1.25 GSa/s, 64 Mpts, 2CH
	UTG2122X: 120 MHz, 1.25 GSa/s, 64 Mpts, 2CH
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

UTG2000X Series

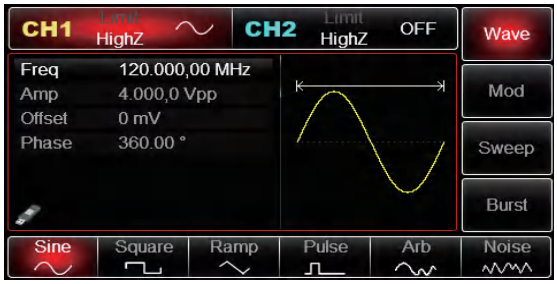
UTG2000A/B Series

Waveform and Function Generators

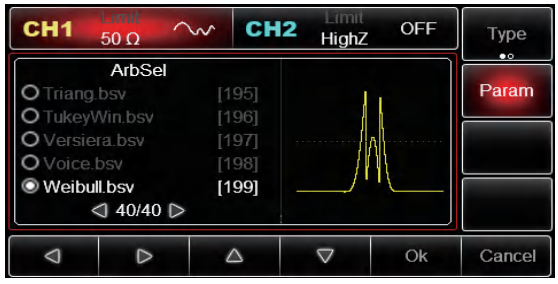


The UTG2000B Series waveform generators offer high precision, stability, purity, and low-distortion signals. They deliver high-frequency square waves with rapid rise and fall edges. Users can enhance their working efficiency by utilizing these multifunctional instruments, thanks to the intuitive operation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

- 60 MHz/80 MHz/120 MHz sine waveform output, 1 μHz full-band resolution
- 1.28GSa/s Sample rate, 16 bit vertical resolution
- Unique expression output function
- Standard dual channels, supporting stand-alone or channel-coupling output mode
- 16 Mpts 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 (800×480)
- Standard Ports: USB Host, USB Device, LAN

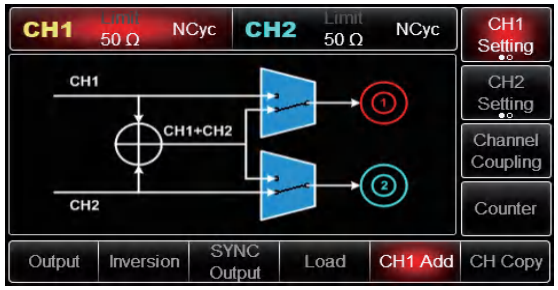


120 MHz sine waveform output, double channels multiple waveforms selection

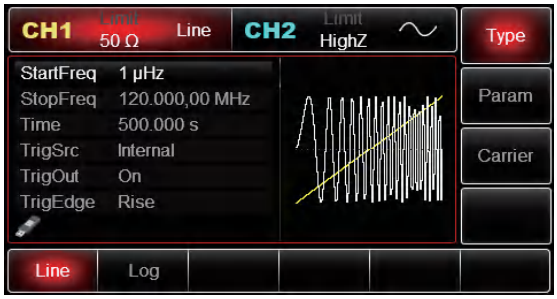


Built-in up to 200 arbitrary waveforms

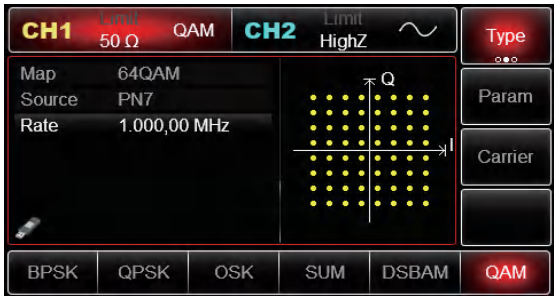
Built-in 16 types harmonic generators



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	UTG2025 A	UTG2062B	UTG2082B	UTG2122B
Max. frequency	25 MHz	60 MHz	80 MHz	120 MHz
Channels	2			
Sample rate	125 MSa/s	1.28 GSa/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	8 pts-8 kpts	8 pts-16 Mpts		
Vertical resolution	14 bit	16 bit (symbol included)		
Frequency Characteristics				
Sine	1 μHz-25 MHz	1 μHz-60 MHz	1 μHz-80 MHz	1 μHz-120 MHz
Square	1 μHz-5 MHz	1 μHz-25 MHz	1 μHz-25 MHz	1 μHz-30 MHz
Pulse	1 μHz-5 MHz	1 μHz-20 MHz	1 μHz-25 MHz	1 μHz-30 MHz
Ramp	1 μHz-400 kHz	1 μHz-3 MHz	1 μHz-4 MHz	1 μHz-5 MHz
Harmonic		1 μHz-30 MHz	1 μHz-40 MHz	1 μHz-60 MHz
Arbitrary	1 μHz-5 MHz	1 μHz-15 MHz	1 μHz-20 MHz	1 μHz-25 MHz
Noise	25 MHz (-3 dB)	60 MHz (-3 dB)	80 MHz (-3 dB)	120 MHz (-3 dB)
Resolution	1 μHz			
Accuracy	±0.5ppm 25°C			
	First year aging rate: 1ppm			
	Temperature coefficient: ±0.5ppm/°C			
Temperature Coeifficient	<2ppm/°C			
Interfaces	USB Host, USB Device, 10 MHz clock source input/output, External analog modulation input			

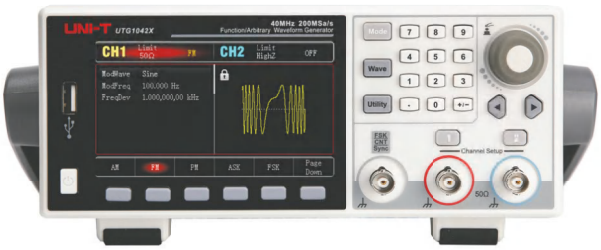
General Characterisitics	
Power	100 V-240 V AC, 50Hz/60Hz
Display	4.3 inches TFT LCD, WVGA (480 x 272)
Product net weight	3.2kg
Product size	265 mm x 110 mm x 320 mm
Standard quantity per carton	2pcs
Standard carton size	380 mm x 330 mm x 320 mm
Standard carton gross weight	8.5kg

Ordering Information	
UTG2000 A/B Series	UTG2025A: 25 MHz, 125 MSa/s, 8 Kpts, 2CH
	UTG2062B: 60 MHz, 1.28 GSa/s, 16 Mpts, 2CH
	UTG2082B: 80 MHz, 1.28 GSa/s, 16 Mpts, 2CH
	UTG2122B: 120 MHz, 1.28 GSa/s, 16 Mpts, 2CH
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 (1 m): 1pcs

UTG2000B Series

UTG1000X Series

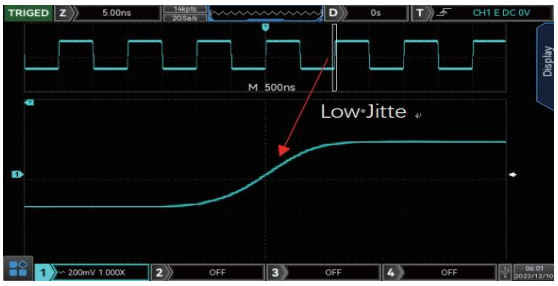
Waveform and Function Generators



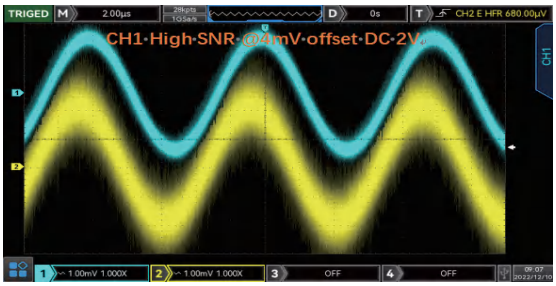
The UTG1000X utilizes direct digital synthesis technology, ensuring the generation of precise and stable waveforms with a resolution as fine as 1 μHz. This economical, high-performance, and multi-functional/arbitrary waveform generator produces accurate, stable, clean, and low-distortion output signals. 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
- 200 MSa/s Sample rate, 16 bit vertical resolution
- The maximum frequency of square wave is 10 MHz, 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

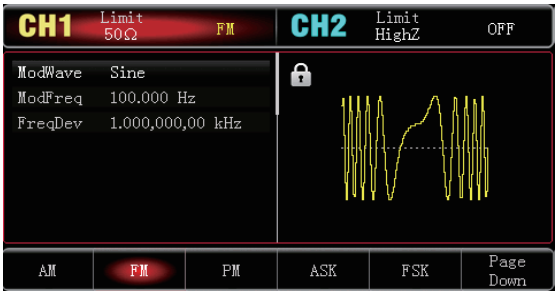
- Built-in power amplifier module, the maximum output power is 4 W (-PA model only)
- Arbitrary waveform can be generated by PC software
- 7-bit hardware frequency counter function has lower output noise and higher signal-to-noise ratio.
- Built-in 200 arbitrary waveforms
- 4.3 inch TFT LCD display



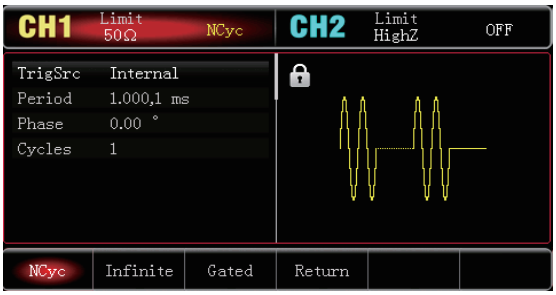
Excellent digital sampling technology makes the output waveform jitter lower



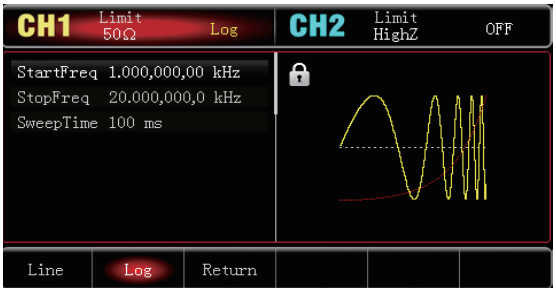
Set small signal to superimpose large DC, UTG1000X has lower output noise and higher signal-to-noise ratio



Offers AM, FM, PM, FSK, ASK, PSK, and PWM multiple analog and digital modulation methods



Supports three pulse modes: N cycle, infinite, and gated. Two modulation signal sources: Internal and External



Standard features include linear and logarithmic frequency sweep methods

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

Key Specifications	UTG1022X	UTG1022X-PA	UTG1042X
Channel	2		
Max. frequency	20 MHz	20 MHz	40 MHz
Sample rate	200 MSa/s		
Vertical resolution	16 bit	16 bit	16 bit
Arbitrary wave length	4 kpts		
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	100 mHz-200 MHz		
Frequency Characteristics			
Sine wave	1 μHz - 20 MHz	1 μHz - 20 MHz	1 μHz-40 MHz
Square wave	1 μHz - 10 MHz	1 μHz - 10 MHz	1 μHz-20 MHz
Pulse wave	1 μHz - 10 MHz	1 μHz - 10 MHz	1 μHz-20 MHz
Ramp wave	1 μHz - 400 kHz	1 μHz - 400 kHz	1 μHz - 1 mHz
Noise	40 MHz bandwidth (- 3 dB) (typical value)	40 MHz bandwidth (- 3 dB) (typical value)	40 MHz bandwidth (- 3 dB) (typical value)
Frequency resolution	1 μHz		
Rise/fall time	1 Vpp, 50 Ω load		
	<16 ns		
Output Characteristics			
Output amplitude(50 Ω)	≤20 MHz		1 mVpp-10 Vpp
	≤40 MHz		1 mVpp-5 Vpp
Amplitude accuracy	(1kHz sine wave with 0 V offset, >10 mVpp)		
	± (1% of set value+2 mVpp)		
DC offset range	±5 V (50 Ω); ±10 V (High Z)		
DC offset accuracy	Offset set value ±1% ± amplitude set value 2% ±2 mV		
Interface			
Standard configuration	USB Host,USB Device,PowerOut (only-PA)		
Output resistance	50 Ω		

General Characterisitics	
Power	100-240 VAC (Fuctuations:+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)	215 mm*103mm*316 mm
Product net weight	2.2kg

Ordering Information	
UTG1000X Series	UTG1022X: 20 MHz, 200 MSa/s, 4kpts, 2CH
	UTG1022X-PA: 20 MHz, 200 MSa/s, 4kpts, 2CH,Power Module
	UTG1042X: 40 MHz, 200 MSa/s, 4kpts, 2CH
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

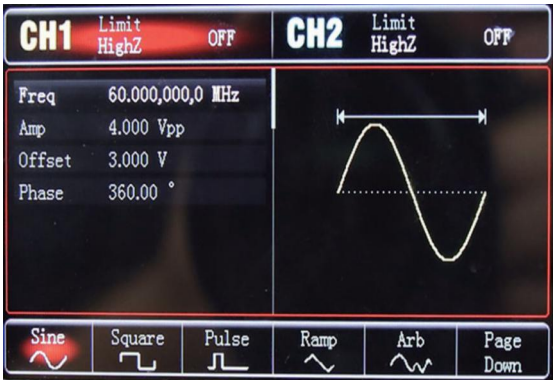
UTG1000X Series

UTG900E Series

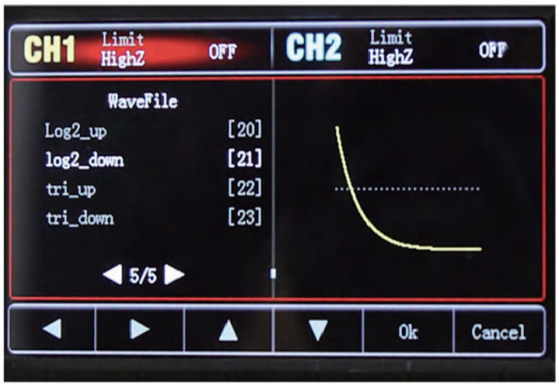
Waveform and Function Generators

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 1 μHz, this generator offers precision in waveform creation.

- 30 MHz/60 MHz sine waveform output, 1 μHz full-band resolution
- 200 mSa/s Sample rate, 14 bits vertical resolution,double channels
- Portable handheld mini signal generator
- High-accuracy, 7 bit frequency counter, range: 100 mHz-100 MHz
- Linear and logarithmic sweep functions
- 24 types of non-volatile waveform stores
- 4.3 inch high resolution color TFT display



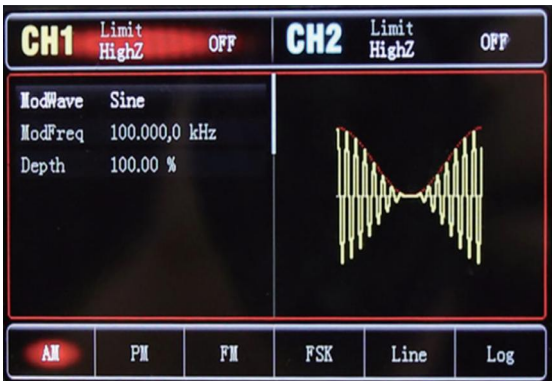
Standard 2 Channels, multiple waveform signals Maximum output frequency 60 MHz, dual channel,multiple waveform signals: sine wave, square, ramp, pulse, noise, DC, arbitrary waveform



Built-in 24 arbitrary waveforms. 24 kinds of non-volatile digital arbitrary waveform covers many applications

Sweep function

Scan type: linear and logarithmic, test scans 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	30 MHz	60 MHz
Channels	2	
Sample rate	200 MSa/s	
Vertical resolution	14 bit	
Waveforms	Sine, square, pulse, ramp, noise, DC, arbitrary	
Sweep modes	Logarithmic, linear	
Frequency Characteristics		
Sine	1 μHz-30 MHz	1 μHz-60 MHz
Square	1 μHz-15 MHz	1 μHz-20 MHz
Ramp	1 μHz-400 kHz	1 μHz-400 kHz
Pulse	1 μHz-15 MHz	1 μHz-20 MHz
Arbitrary	1 μHz-10 MHz	1 μHz-10 MHz
Resolution	1 μHz	
Accuracy	Within 90 days ± 50ppm	
	Within 1 year ± 100ppm	
	18°C-28°C	
Output Characteristics		
Impedance	50 Ω	
Amplitude range	1 mVpp-10 Vpp (50 Ω); 2 mVpp-20 Vpp (high Z)	
DC offset range (AC+DC)	±5 V (50 Ω); ±10 V (high Z)	
Amplitude resolution	1 mV	

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

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

UTG900E Series

Spectrum/Signal Analyzers

Selection Guide

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

Accessories

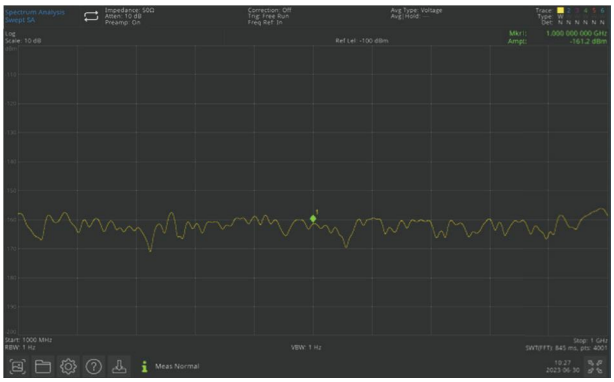
Model	Picture	Information	Certification	Series
UTS-CK01		Spectrum Utility Kit: include NSMAJ-NJ-0.7M DC-6G Cable x1, NJ-NJ-0.7M DC-6G Cable x1, SMA-N-KJ-T DC-6 GHz Adapter x2, N-BNC-JK DC-4 GHz Adapter x2, 2400 MHz-2500 MHz Antenna x2, 824-960 MHz/1710-1990 MHz x2		UTS5000A; UTS3000A; UTS3000T+ ; UTS3000B; UTS1000B
UTS-CK02		2.92J RF cable (UT-W03-40 GHz)×1, 2.92-KKG double female adaptor (UT-C04-40 GHz)×2,SMA-N-KJG adaptor (UT-C03-18 GHz)×1, Kit pouch(UT-CK02)×1		UTS5000A
UTS-EMI01		Frequency range: 30 MHz - 3 GHz; 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/T+ Series Spectrum Analyzers		UTS3000T+; UTS3000B; UTS1000B
UT-W02-6GHz		N-SMA-JJ RF cable,DC-6 GHz VSWR≤1.25:1@6 GHz IL≤1.8 dB@6 GHz		UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B
UT-W01-6GHz		N-N-JJ RF cable,DC-6 GHz VSWR≤1.25:1@6 GHz IL≤1.8 dB@6 GHz		UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B
UT-W03-40GHz		2.92J-2.92J RF cable,DC-40 GHz VSWR≤1.25:1@40 GHz IL≤3.5 dB@40 GHz		UTS5000A
UT-C02-4GHz		N-BNC-JK adaptor,DC-4 GHz VSWR≤1.15:1@4 GHz IL≤0.2 dB@4 GHz	ROHS	UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B
UT-C01-6GHz		N-SMA-JK adaptor,DC-6 GHz VSWR≤1.15:1@6 GHz IL≤0.2 dB@6 GHz		UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B
UTS-T01		Receiving antenna, working frequency 2400 MHz-2500 MHz, Gain<2 dBi		UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B
UTS-T02		Receiving antenna, working frequency 824 MHz-960 MHz, Gain<2 dBi		UTS5000A; UTS3000B; UTS1000B; UTS3000A
UT-C04-40GHz		2.92-KKG adaptor,DC-40 GHz VSWR≤1.20:1@40 GHz IL≤0.3 dB@40 GHz		UTS5000A
UT-C03-18GHz		SMA-N-KJG adaptor,DC-18 GHz VSWR≤1.15:1@18 GHz IL≤0.3 dB@18 GHz		UTS5000A
UT-3009F		Female VNA Calibration Kit (9 GHz)		UTS3000A
UT-3009M		Male VNA Calibration Kit (9 GHz)		UTS3000A
UT-3009F/M		Female-Male VNA Calibration Kit (9 GHz)		UTS3000A

UTS5000A Series NEW

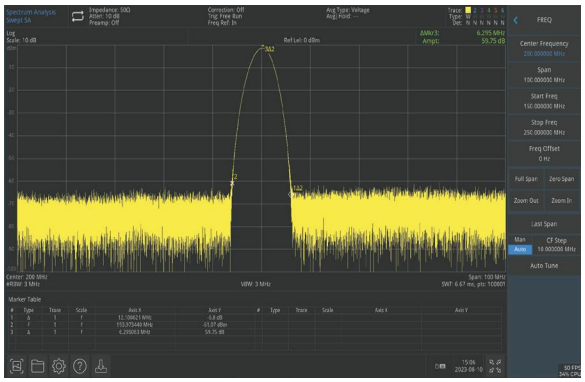
Signal Analyzers

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. Upgrade your bench and gain a robust instrument meticulously crafted to fulfill the demanding requirements of electrical engineers, RF professionals, and educators specializing in electrical and RF engineering.

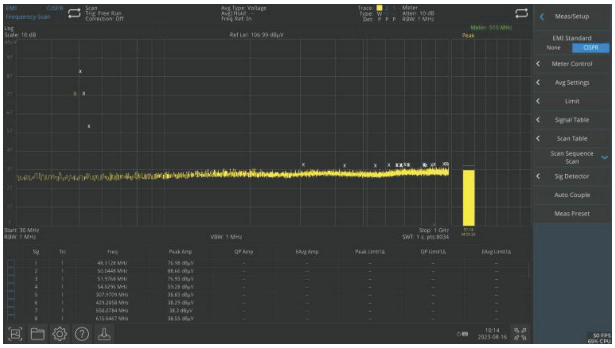
- Frequency range 9 kHz to 13.6 GHz/26.5 GHz
- DANL: -163 dBm (typical)
- Phase noise: <-107 dBc/Hz (at 10 kHz offset, typical)
- Scan points up to 100,001 points
- Minimum Resolution Bandwidth (RBW): 1 Hz
- Advanced one-key measurement of Channel Power, Occcupied Bandwidth, TOI, and more (optional)
- 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 TFT multi-touch LCD display



Excellent sensitivity to test weaker signals



Excellent selectivity. Scan 100,001 points



EMI pre-compliance

Removable dust mesh

Key Specifications	UTS5013A	UTS5026A
Frequency range	9 kHz-13.6 GHz	9 kHz-26.5 GHz
Frequency resolution	0.001 Hz	
Sweep width range	0Hz, 10Hz-13.6 GHz	0Hz, 10Hz-26.5 GHz
Sweep accuracy	Swept: ±[0.25%×span+horizontal resolution]	
	FFT: ±[0.10%×span+horizontal resolution]	
Sweep time	Span = 0 Hz, 1 μs to 6000 s; Span ≥ 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-3 MHz (10% step), 4, 5, 6, 8 MHz	
Video bandwidth (VBW)	1 Hz-3 MHz (10% step), 4, 5, 6, 8 MHz	
Selectivity (-60 dB/-3 dB)	<4.1:1 (Nominal) -60 dB:-3 dB	
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, dBμV, V, W	
Sweep (trace) point range	11 to 100,001	
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, D8PSK, π/4 -DQPSK, π/8 -D8PSK; 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, 10 MHz reference IN, 10 MHz reference OUT, External trigger input, HDMI, USB-Host, USB-Device, LAN	

General Characterisitics	
Power	100-240 V AC (±10%), 50 Hz/60 Hz 100 to 120 VAC (Fluctuations ±10%), 400 Hz
Display	15.6 inch TFT Touch LCD (1920x1080)
Product size(W×H×D)	445 mm × 311 mm × 195 mm
Product net weight	11kg
Standard quantity per carton	1pc

Ordering Information	
UTS5000A Series	UTS5013A: 13.6 GHz, 1 Hz-8 MHz, -163 dBm
	UTS5026A: 26.5 GHz, 1 Hz-8 MHz, -163 dBm
Standard Accessories	Power cord conforming to the standard of the destination country ×1
	USB cable ×1
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 pouch×1
	UTS-CK02: UT-W03-40 GHz×1, UT-C04-40 GHz×2, UT-C03-18 GHz×1, Kit pouch×1
	UTS-EMI01: Frequency range: 30 MHz - 3 GHz; 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-6 GHz VSWR≤1.25:1@6 GHz IL≤1.8 dB@6 GHz
	UT-W01-6GHz: N-N-JJ RF cable, DC-6 GHz VSWR≤1.25:1@6 GHz IL≤1.8 dB@6 GHz
	UT-W03-40GHz: 2.92J-2.92J RF cable, DC-40 GHz VSWR≤1.25:1@40 GHz IL≤3.5 dB@40 GHz
	UT-C02-4GHz: N-BNC-JK adaptor, DC-4 GHz VSWR≤1.15:1@4 GHz IL≤0.2 dB@4 GHz
	UT-C01-6GHz: N-SMA-JK adaptor, DC-6 GHz VSWR≤1.15:1@6 GHz IL≤0.2 dB@6 GHz
	UTS-T01: Receiving antenna, working frequency 2400 MHz-2500 MHz,Gain<2 dBi
	UTS-T02: Receiving antenna, working frequency 824 MHz-960 MHz,Gain<2 dBi
	UT-C04-40GHz: 2.92-KKG adaptor, DC-40 GHz VSWR≤1.20:1@40 GHz IL≤0.3 dB@40 GHz
	UT-C03-18GHz: SMA-N-KJG adaptor, DC-18 GHz VSWR≤1.15:1@18 GHz IL≤0.3 dB@18 GHz
Options	UTS5000A-AMK: Advanced Measurement kit Option
	UTS5000A-EMI: EMI Measurement Option
	UTS5000A-AMA: Analog Demodulation Measurement Option
	UTS5000A-P26: UTS5026 A Preamplifier, 26.5 GHz Option
	UTS5000A-VSA: Digital Demodulation Analysis Option
	UTS5000A-IQ: I/Q Analysis Option

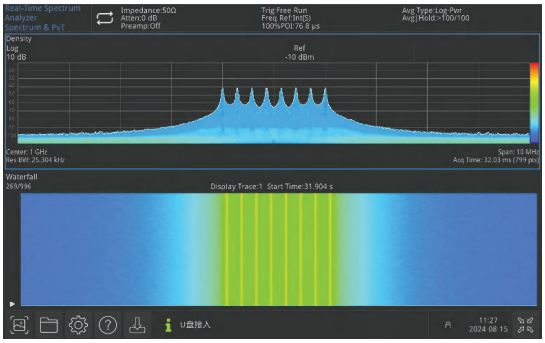
UTS5000A Series

UTS3000A Series NEW

Signal Analyzers

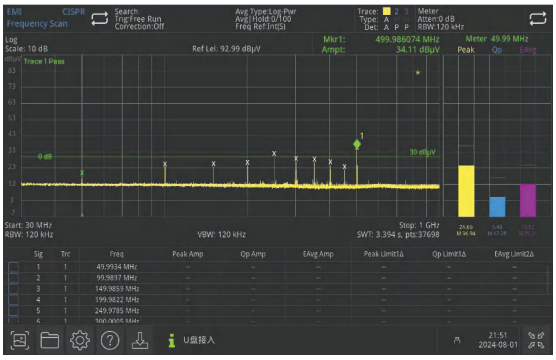
The UTS3000A Series is a signal analyzer with a frequency range of 9 kHz to 8.4 GHz. It can be used as the main equipment required to build an automatic control system. It can also meet your needs in the test systems required for corporate R&D/factory production/education and scientific research, etc.

- Frequency range 9 kHz to 3.6 GHz/6.0 GHz/8.4 GHz
- DANL: -165 dBm (typical value)
- Phase noise: <-100 dBc/Hz (at 10 kHz offset, typical)
- Scan points up to 40,001 points
- Minimum Resolution Bandwidth (RBW) 1 Hz
- Vector Network Analysis
- Advanced one-key measurement of Channel Power, Occcupied Bandwidth, TOI, and more (optional)
- EMI Analysis Function (optional)
- Analog Demodulation Analysis (optional)
- Digital Demodulation Analysis (optional)
- Real-time Spectrum Analysis (optional)
- I/Q Analysis (optional)
- 10.1 inch high-definition capacitive touch display

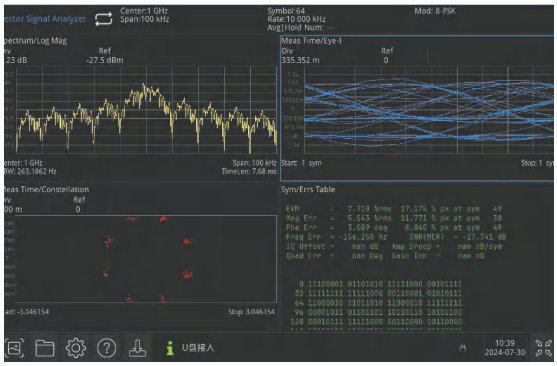


Real-time spectrum mode, using density spectrograms for gapless spectrum display

Excellent selectivity



EMI pre-compliance



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

Key Specifications	UTS3036 A	UTS3060 A	UTS3084 A
Frequency range	9 kHz-3.6 GHz	9 kHz-6.0 GHz	9 kHz- 8.4 GHz
Frequency resolution	1 Hz	1 Hz	1 Hz
Sweep width range	0Hz, 100Hz- 3.6 GHz	0Hz, 100Hz - 6.0 GHz	0Hz, 100Hz - 8.4 GHz
Sweep accuracy	Swept: ±[0.25%×span+span/(sweep point -1)]		
	FFT: ±[0.10%×span+span/(sweep point -1)]		
Sweep time	Span = 0 Hz, 1 μs to 4000 s; Span ≠ 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 - 10 MHz (1-3-10 step)		
Video bandwidth (VBW)	1 Hz - 10 MHz (1-3-10 step)		
Selectivity (-60 dB/-3 dB)	<4.8:1 (Nominal) -60 dB: -3 dB		
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, dBμV, V, W		
Sweep (trace) point range	40,001		
Tracking source	100 kHz-3.6 GHz	100 kHz-6 GHz	100 kHz-8.4 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: 2 ASK, 4 ASK, 8 ASK, 16 ASK FSK: 2FSK, 4FSK, 8FSK, 16FSK MSK: type1, type2 PSK: BPSK, QPSK, OQPSK, 8PSK, BPSK, QPSK, 8BPSK; DQPSK, D8PSK, π/4 -DQPSK, π/8 -D8PSK, OQPSK QAM: 16, 32, 64, 128, 256		
Real-time analysis bandwidth	10 MHz; 40 MHz		
Interface	RF input, TG Output, 10 MHz reference IN, 10 MHz reference OUT, External trigger input, HDMI, USB-Host, USB-Device, LAN, 3.5 mm audio		

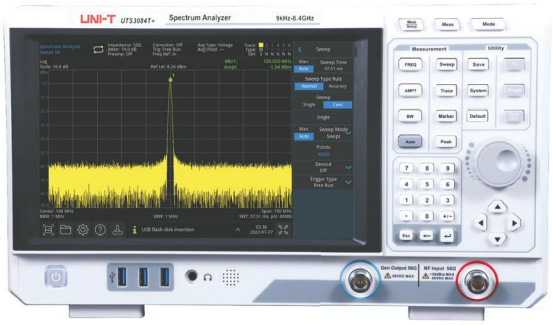
General Characterisitics	
Power	100-240 V AC(±10%), 50Hz/60Hz 100 to 120 VAC (Fluctuations±10%), 400 Hz
Display	10.1 inch multi-touch TFT LCD (1280x800)
Product size(W×H×D)	378mm × 218mm × 120 mm
Product net weight	4.96 kg
Standard quantity per carton	1pc

Ordering Information	
UTS3000A Series	UTS3036A: 3.6 GHz, 1 Hz-10 MHz, -165 dBm, TG
	UTS3060A: 6.0 GHz, 1 Hz-10 MHz, -165 dBm, TG
	UTS3084A: 8.4 GHz, 1 Hz-10 MHz, -165 dBm, TG
Standard Accessories	Power cord conforming to the standard of the destination country ×1
	USB cable ×1
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 pouch×1
	UTS-EMI01: Frequency range: 30 MHz - 3 GHz; 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: Female-Male VNA Calibration Kit (9 GHz)
	UT-W02-6GHz: N-SMA-JJ RF cable, DC-6 GHz VSWR≤1.25:1@6 GHz IL≤1.8 dB@6 GHz
	UT-W01-6GHz: N-N-JJ RF cable, DC-6 GHz VSWR≤1.25:1@6 GHz IL≤1.8 dB@6 GHz
	UT-C02-4GHz: N-BNC-JK adaptor, DC-4 GHz VSWR≤1.15:1@4 GHz IL≤0.2 dB@4 GHz
	UT-C01-6GHz: N-SMA-JK adaptor, DC-6 GHz VSWR≤1.15:1@6 GHz IL≤0.2 dB@6 GHz
	UTS-T01: Receiving antenna, working frequency 2400 MHz-2500 MHz, Gain<2 dBi
	UTS-T02: Receiving antenna, working frequency 824 MHz-960 MHz, Gain<2 dBi
Options	UTS3000A-EMI: EMI Measurement Option
	UTS3000A-AMK: Advanced Measurement Kit Option
	UTS3000A-AMA: Analog Demodulation Measurement Option
	UTS3000A-FDD-LTE: FDD-LTE Demodulation Analysis Option
	UTS3000A-I/Q: I/Q Analyzer Option
	UTS3000A-TDD-LTE: TDD-LTE Demodulation Analysis Option
	UTS3000A-NR40: NR40 Demodulation Analysis Option
	UTS3000A-B40: 40MHz Real Time Spectrum Analyzer Option
	UTS3000A-VSA: Digital Demodulation Analysis Option

UTS3000A Series

UTS3000T+ Series NEW

Spectrum/Signal Analyzers

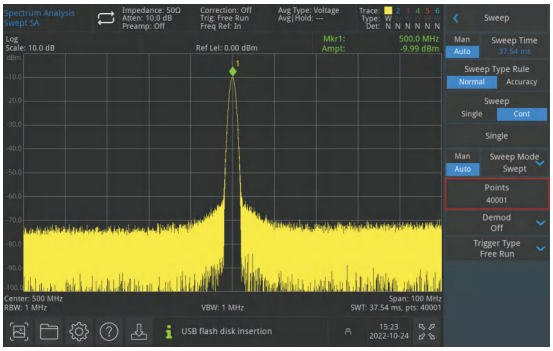


The UTS3000T+ series are equipped with the tracking source function as standard. With proven all-digital technology and a resolution bandwidth of 1 Hz to 3 MHz, this series offers a wide range of analytical functions with 40,001 scanning points to better help you in your analysis work. The 10.1 inch touch screen of this spectrum analyzer 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.

- Frequency measurement range:9 kHz to 1.5 GHz, 3.2 GHz, 3.6 GHz, 8.4 GHz
- DANL: -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 one-key measurement of Channel Power, Occcupied Bandwidth, TOI, and more (optional)
- EMI Pre-compliance analysis function (optional)
- Support analog demodulation analysis (optional)
- Support tracking source output function
- 10.1 inch 1280 × 800 HD capacitive touch screen

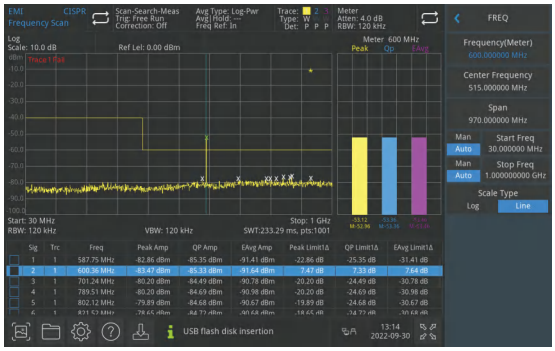
Multitouch HD screen for quick operation

Excellent sensitivity to test weaker signal

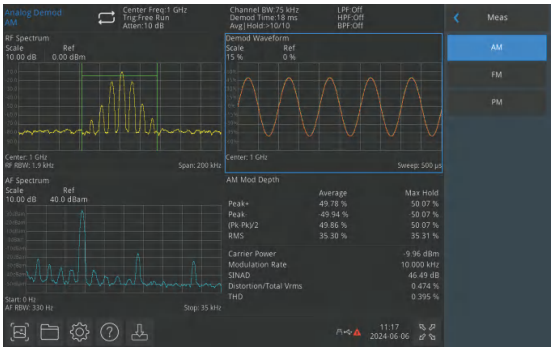


40,001 sweep points, providing higher frequency resolution

Excellent selectivity



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		1 Hz	1 Hz	1 Hz	1 Hz
Sweep range		0Hz, 100Hz- 1.5 GHz	0Hz, 100Hz - 3.2 GHz	0Hz, 100Hz - 3.6 GHz	0Hz, 100Hz - 8.4 GHz
Sweep accuracy		Swept ±[0.25%*Span+Span/(Points-1)] FFT ±[0.10%*Span+Span/(Points-1)]			
Sweep time		1 ms to 4000 s(span≠ 0) 1 μs 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			
Video bandwidth (VBW)		1 Hz-1 MHz, 1-3-10 steps			
Selectivity (-60 dB/-3 dB)		<4.8:1 (nominal) (-60 dB:-3 dB)			
Bandwidth accuracy (-3 dB)		<5% (nominal)			
Reference level		-100 dBm - +30 dBm, Steps 1 dB			
Preamp		20 dB, Nominal			
Input attenuator range		0-51 dB, 1 dB Steps			
Maximum input DC voltage		50 V DC max			
Maximum continuous wave RF power		≤+33 dBm 3 minute, Input attenuation >20 dB		≤+33 dBm 3 minute, Input attenuation >20 dB	
Display log scale		1 dB to 200 dB			
Display linear scale		0 -Reference level			
Scale units		dBm, dBmV, dBuV, V, W			
Sweep (trace) point range		10,001		40,001	
Number of traces		4		6	
Detection mode		Sample, Peak, Negative, Normal, Average			
Trace Type		Clear/Write, Average, Max Hold, Min Hold			
Frequency response	Preamp Off	9 kHz to 3.2 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	100 kHz-1.5 GHz	10 MHz-3.2 GHz	100 kHz-3.6 GHz	100 kHz-8.4 GHz
	Output level range	-40 dBm-0 dBm			
	Resolution	0.5 dB			
	Flatness output	±3 dB			
Interface		RF input, Trace source output, 10 MHz reference input, 10 MHz reference output, Ext Trigger, HDMI, USB host, USB device, LAN, 3.5 mm Audio			

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

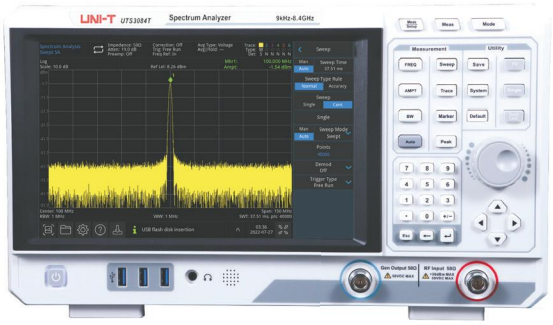
Ordering Information	
UTS3000T+ Series	UTS3015T+: 1.5 GHz, 1 Hz-1 MHz, -161 dBm, with built-in Tracking generator
	UTS3032T+: 3.2 GHz, 1 Hz-1 MHz, -161 dBm, with built-in Tracking generator
	UTS3036T+: 3.6 GHz, 1 Hz-3 MHz, -161 dBm, with built-in Tracking generator
	UTS3084T+: 8.4 GHz, 1 Hz-3 MHz, -161 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-6 GHz VSWR≤1.25:1@6 GHz IL≤1.8 dB@6 GHz
	UT-W01-6GHz: N-N-JJ RF cable, DC-6 GHz VSWR≤1.25:1@6 GHz IL≤1.8 dB@6 GHz
	UT-C02-4GHz: N-BNC-JK adaptor, DC-4 GHz VSWR≤1.15:1@4 GHz IL≤0.2 dB@4 GHz
	UT-C01-6GHz: N-SMA-JK adaptor, DC-6 GHz VSWR≤1.15:1@6 GHz IL≤0.2 dB@6 GHz
	UTS-T01: Receiving antenna, working frequency 2400 MHz-2500 MHz, Gain<2 dBi
	UTS-T02: Receiving antenna, working frequency 824 MHz-960 MHz, Gain<2 dBi
	UTS-EMI01: Near-field probes kit
	BAG-B3: Soft carrying bag for UTS1000B and UTS3000B/T+ 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

UTS3000B Series

Spectrum/Signal Analyzers

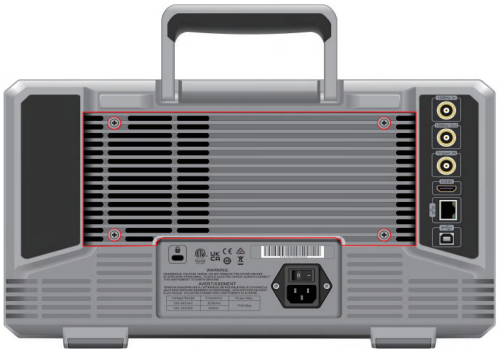


The UTS3000B series spectrum analyzer can measure frequencies up to 8.4 GHz. It is a spectrum analyzer with wide frequency band coverage and superior performance. The series adopts mature all digital IF technology. It provides a variety of analysis functions, and up to 40,001 scanning points , providing 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.

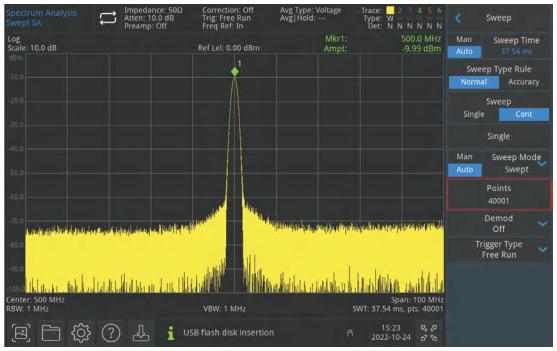
- Frequency measurement range: 9 kHz-2.1 GHz/3.6 GHz/8.4 GHz
- DANL: -161 dBm/Hz (typical value)
- Phase noise: <-98 dBc/Hz(Offset 10 kHz, typical value)
- Full amplitude accuracy: <0.7 dB
- Up to 40,001 scanning points
- Minimum resolution bandwidth (RBW):1 Hz
- Advanced one-key measurement of Channel Power, Occcupied Bandwidth, TOI, and more (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 × 800 HD capacitive touch screen
- Provides USB/LAN interface, support SCPI protocol

Multi touch HD screen for quick operation

Excellent sensitivity to test weaker signals



Removable dust mesh



Scan 40,001 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	1 Hz			
Sweep width range	0Hz, 100Hz-2.1 GHz	0Hz, 100Hz-3.6 GHz	0Hz, 100Hz-8.4 GHz	0Hz, 100Hz-8.4 GHz
Sweep accuracy	Swept ±[0.25%*Span+Span/(Points-1)] FFT ±[0.10%*Span+Span/(Points-1)]			
Sweep time	1 ms to 4000 s(span≠ 0) 1 μs 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) (-60 dB:-3 dB)			
Bandwidth accuracy (-3 dB)	<5% (nominal)			
Reference level	-100 dBm - +30 dBm, Step 1 dB			
Preamp	20 dB, Nominal, 9 kHz to 2.1 GHz (3.6 GHz, 8.4 GHz)			
Input attenuator range	0-51 dB, 1 dB Step			
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 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		40,001			
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 -20 dBm (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 -40 dBm (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 20 dB, 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, 10 MHz reference input, 10 MHz reference output, Ext Trigger, HDMI, USB host, USB device, LAN			

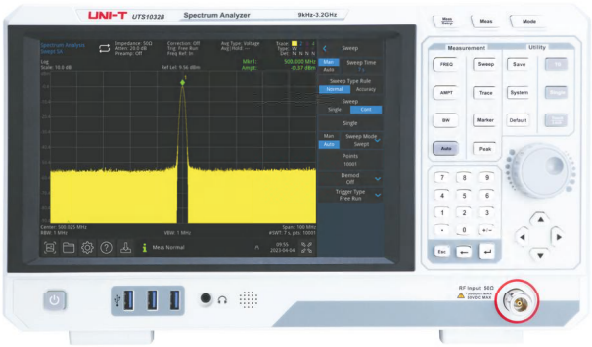
General Characterisitics	
Power	100-240 V AC, 50Hz/60Hz
Display	10.1 inch multi-touch TFT LCD (1280x800)
Product size(W×H×D)	378 mm × 218 mm × 120 mm
Product net weight	4.55kg
Standard quantity per carton	1pc

Ordering Information	
UTS3000B Series	UTS3021B: 2.1 GHz, 1 Hz-3 MHz, -161 dBm/Hz, Tracking Generator optional
	UTS3036B: 3.6 GHz, 1 Hz-3 MHz, -161 dBm/Hz, Tracking Generator optional
	UTS3084B: 8.4 GHz, 1 Hz-3 MHz, -161 dBm/Hz
	UTS3084T: 8.4 GHz, 1 Hz-3 MHz, -161 dBm/Hz,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
	UTS-EMI01: Near-field probes kit
Optional	UTS3000-AMK: Advanced Measurement Kit Option
	UTS3000-EMI: EMI Measurement Option
	UTS3000-AMA: Analog Demodulation Measurement Option
	UTS3000-TG: Tracking Generator Option (UTS3021B and UTS3036B only)

UTS3000B Series

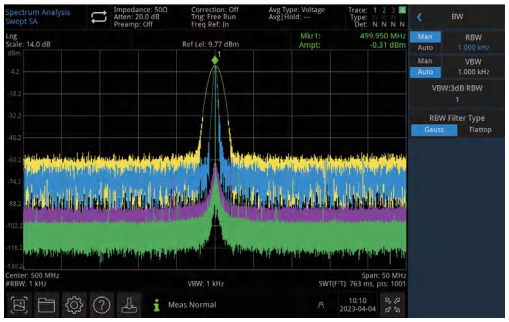
UTS1000B Series

Spectrum/Signal Analyzers

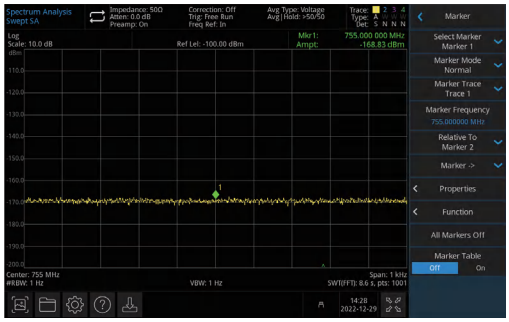


The UTS1000B series spectrum analyzer can measure frequencies up to 3.2 GHz. It is a spectrum analyzer with wide frequency band coverage and superior performance. The series adopts mature all digital IF technology. It provides a variety of analysis functions, and up to 10,001 scanning points , providing 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.

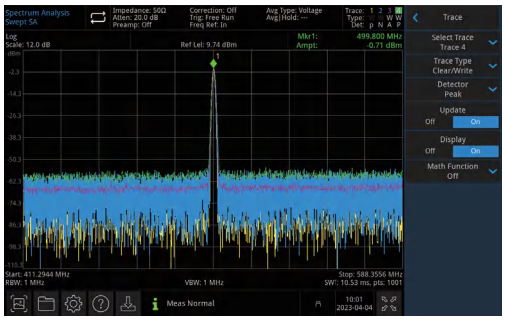
- Frequency range: 9 kHz-3.2 GHz
- Resolution bandwidth: 1 Hz-1 mHz
- Tracking source: 100 kHz-3.2 GHz
- DANL: -161 dBm (typical)
- Phase noise: <-98 dBc/Hz (1 GHz, typ.)
- Number of scanning points displayed: 10,001
- Analysis functions: EMI analysis, advanced measurement, analog demodulation analysis, digital demodulation analysis
- Display: 10.1 inch multi-touch TFT LCD (1280x800)
- Interface: HDMI, USB host, USB device, LAN, 3.5 mm audio



4 traces



DANL: -161 dBm



Rich detector functions

Excellent selectivity

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		1 Hz	1 Hz	1 Hz	1 Hz
Sweep width range		0Hz, 100Hz-1.5 GHz	0Hz, 100Hz-1.5 GHz	0 Hz, 100 Hz-3.2 GHz	0 Hz, 100 Hz-3.2 GHz
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) (-60 dB:-3 dB)			
Bandwidth accuracy (-3 dB)		<5% (nominal)			
Reference level		-100 dBm - +30 dBm, Steps 1 dB			
Preamp		20 dB, nominal value, 9 kHz-1.5 GHz (3.2GHz)			
Input attenuator range		0-51 dB, 1 dB step			
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		10,001			
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 to 50 MHz)			
	Preamplifier on	±1.0 dB; ±0.8 dB, Typical (20°C -30°C, 30%-70% relative humidity, Input attenuation 20 dB, be relative to 50 MHz)			
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-1.5 GHz	/	10 MHz-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, 10 MHz reference input, 10 MHz reference output, Ext Trigger, HDMI, USB host, USB device, LAN, 3.5 mm Audio			

General Characterisitics	
Power	100-240 V AC, 50Hz/60Hz
Display	10.1 inch multi-touch TFT LCD (1280x800)
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	UTS1015B: 1.5 GHz, 1 Hz-1 MHz, -161 dBm
	UTS1015T: 1.5 GHz, 1 Hz-1 MHz, -161 dBm, with tracking generator
	UTS1032B: 3.2 GHz, 1 Hz-1 MHz, -161 dBm
	UTS1032T: 3.2 GHz, 1 Hz-1 MHz, -161 dBm, with tracking generator
Standard Accessories	Power cord conforming to the standard of the destination country
	USB cable ×1
Optional Accessories	UT-CK01: accessories kit
	UT-W02-6GHz: N-SMA-JJ RF cable, DC-6 GHz VSWR≤1.25:1@6 GHz IL≤1.8 dB@6 GHz
	UT-W01-6GHz: N-N-JJ RF cable, DC-6 GHz VSWR≤1.25:1@6 GHz IL≤1.8 dB@6 GHz
	UT-C02-4GHz: N-BNC-JK adaptor, DC-4 GHz VSWR≤1.15:1@4 GHz IL≤0.2 dB@4 GHz
	UT-C01-6GHz: N-SMA-JK adaptor, DC-6 GHz VSWR≤1.15:1@6 GHz IL≤0.2 dB@6 GHz
	UTS-T01: Receiving antenna, working frequency 2400 MHz-2500 MHz, Gain<2 dBi
	UTS-T02: Receiving antenna, working frequency 824 MHz-960 MHz, Gain<2 dBi
	UTS-EMI01: Near-field probes kit
	BAG-B3: Soft carrying bag for UTS1000B and UTS3000B Series Spectrum Analyzers

Ordering Information	
Options	UTS1000-AMK: Advanced Measurement Kit Option
	UTS1000-EMI: EMI Measurement Option
	UTS1000-AMA: Analog Demodulation Measurement Option

UTS1000B Series

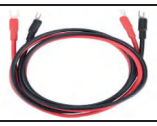
Power Supplies and Sources

DC Power Supplies

Selection Guide

Series	Model	Channel	Output Voltage	Output Current	Max Power	Resolution	Name
UDP4000S	UDP4303S	4	0-32 V (CH1, CH2), 0-15 V (CH3), 0-6 V (CH4)	0-3 A (CH1, CH2, CH3) 0-10 A (CH4)	297 W	1 mV/1 μA	Programmable Linear DC Power Supply
UDP3000S	UDP3305S	4	0-30 V (CH1, CH2) 0-6 V (CH3), 5 V (CH4)	0-5 A (CH1, CH2) 0-3 A (CH3), 2 A (CH4)	328 W	1 mV/1 mA	
	UDP3305S-E					10 mV/1 mA	
UDP3000	UDP3305C	4	0-30 V (CH1, CH2), 1.8/2.5/3.3/5 V (CH3), 5 V (USB)	0-5 A (CH1, CH2) 0-3 A (CH3), 2 A (USB)	325 W	10 mV1 mA	
	UDP3303C			0-3 A (CH1, CH2) 0-3 A (CH3), 2 A (USB)	205 W	10 mV/1 mA	
	UDP3303A						
UDP1000	UDP 1306C	2	0-32 V (CH1), 5 V (USB)	0-6 A (CH1), 2 A (USB)	202 W	10 mV/1 mA	
UDP6900	UDP6953B	1	0-150 V	0-10 A	600 W	1 mV (<100 V) 10 mV (>100 V) 0.1 mA	Programmable Switching DC Power Supply
	UDP6952B		0-60 V	0-25 A		0.1 mV (<10 V) 0.1 mA (<10 A) 1 mV (>10 V) 1 mA (>10 A)	
	UDP6942B			0-15 A	360 W		
	UDP6933B		0-150 V	0-5 A	200 W	1 mV (<100 V) 10 mV (≥100 V) 0.1 mA	
	UDP6932B		0-60 V	0-10 A			
	UDP6922B			0-5 A	100 W		
UDP6700	UDP6731	1	0-80 V	0-15 A	360 W	10 mV/1 mA	
	UDP6730		0-40 V	0-30 A			
	UDP6721		0-60 V	0-8 A	180 W		
	UDP6720			0-5 A	100 W		

Accessories

Model	Picture	Information	Certification	DC Power Supplies Series
UT-L0615-OO		Double O type terminal 60 A/1.5 m power supply/electronic load test wire, Length: 1.5 m, Wire diameter: 6.8mm, Max current: 60 A, Terminal: O type-O type, Color: red and black	ROW	UDP4000S; UDP3000S; UDP6900; UDP6700
UT-L0110-BU		Fold insert-U type terminal 10 A/1 m power supply/electronic load test wire,Length: 1 m, Wire diameter: 3.6 mm,Max current: 10 A, Terminal: Fold insert-U type, Color: red and black		UDP4000S; UDP3000S; UDP6900; UDP6700; UDP1000
UT-L0312-UU		Double U-type terminal 30 A/1.2 m power supply/electronic load test wire Length: 1.2 m,Wire diameter: 5.4 mm, Max current: 30 A,Terminal: double U-type, Color: red and black		UDP4000S; UDP3000S; UDP6900; UDP6700; UDP1000
UT-L0320-UU		Double U-type terminal 30 A/2 m power supply/electronic load test wire Length: 2 m,Wire diameter: 5.4 mm, Max current: 30 A,Terminal: double U-type, Color: red and black		UDP4000S; UDP3000S; UDP6900; UDP6700; UDP1000
UT-L0110-BB		Double Fold insert 10 A/1 m power supply/electronic load test wire, Length: 1 m,Wire diameter: 3.6 mm, Max current: 10 A ,Terminal: Fold insert- Fold insert,Color: red and black		UDP4000S; UDP3000S; UDP6900; UDP6700; UDP1000
UTE-L16C		1 m/16 A alligator clip test wire, Wire diameter: 3.6 mm,Length:1 m, Rated voltage:220 V,Rated current: 16 A,Color: red and black		UDP4000S; UDP3000S; UDP6900; UDP6700; UDP1000

UDP4303S Series NEW

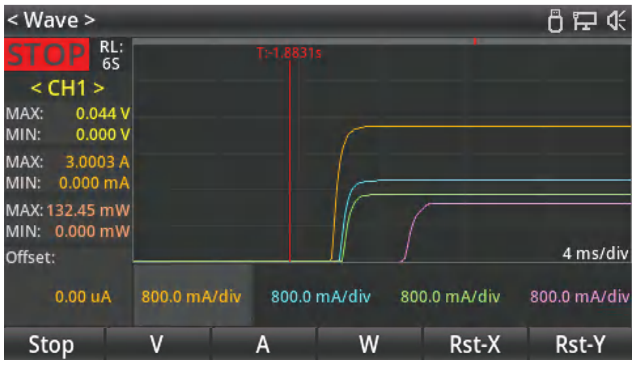
Programmable Linear Power Supplies

UDP4303S programmable linear DC power supply features two 32 V/3 A outputs, one 15 V/3 A output, and one 6 V/10 A 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.

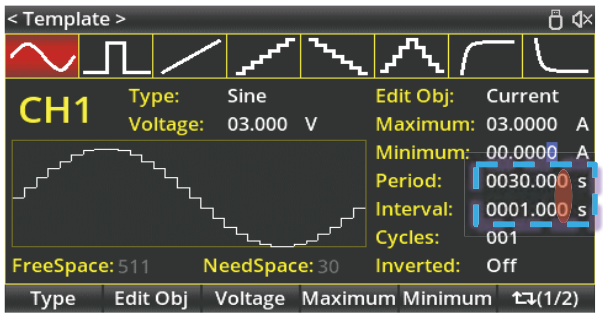
- 4-channel isolation
- 4.3 inch true color LCD
- One-touch series and parallel output
- Waveform measurement and display
- 8 kSa/s high speed sampling
- Fast transient response time: <50 μs
- 2-wire or 4-wire remote sense

- List and delayer support up to 512 outputs with minimum programming time of 1 ms
- Command processing time <10 ms
- 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 (0 ms-1000 ms adjustable).

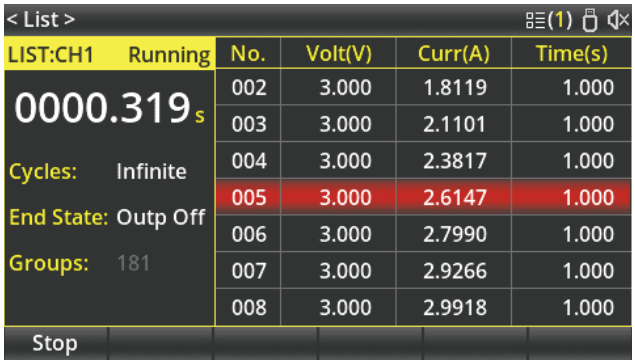
Current resolution up to 1μA, small current mode supported on all four channels



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



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



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

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

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

UDP4303S Series

UDP3000/S Series

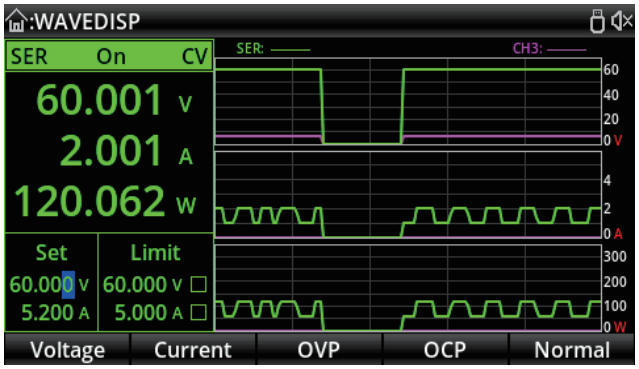
Programmable Linear Power Supplies

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.

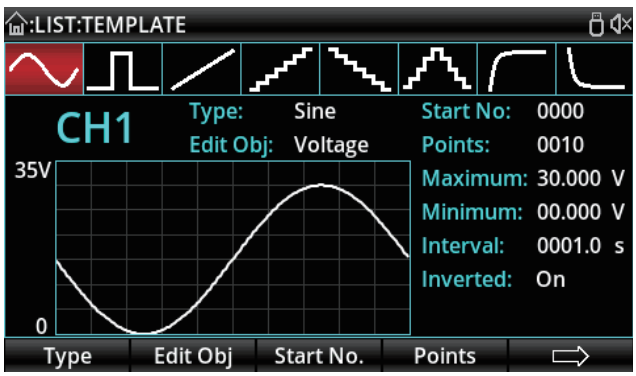
- Maximum power up to 328 W
- Four channel independent output:
  0-30 V/5 A (CH1/CH2), 0-6 V/3 A (CH3), 5 V/2 A (CH4)
- Multiple protection: OCP/OVP/OTP
- Excellent load regulation and line regulation
- Ultra low output ripple and noise
- Support one key serial and parallel output function
- The 4.3 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
- Provides USB host, USB device, LAN, RS232, digital I/O and other interfaces
- With our waveform display function, get real-time and dynamic display of output voltage/current/power waveforms
- Intelligent speed control of fan can effectively reduce fan noise during operation
- Supports 10 groups of file storage and transfer out, and supports USB FLASH read and write
- High precision display of five-digit voltage / four-digit current, with resolutions of 10 mV / 1 mA and 1 mV / 1 mA
- 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		UDP3303 A	UDP3303C	UDP3305C	UDP3305S-E	UDP3305S
Output voltage		0-30 V (CH1/CH2), 1.8 V/2.5 V/3.3 V/5 V (CH3), 5 V (USB)			0-30 V (CH1/CH2), 0-6 V (CH3), 5 V (CH4 USB)	
Output current		0-3 A (CH1/CH2), 3 A (CH3), 2 A (USB)		0-5 A (CH1/CH2), 3 A (CH3), 2 A (USB)	0-5 A (CH1/CH2), 0-3 A (CH3), 2 A (CH4 USB)	
Output power		205 W		325 W	328 W	
Load regulation	CV	≤0.01%+3mV (≤3 A);≤0.02%+5 mV (>3 A)			≤0.01%+2 mV	
	CC	≤0.2%+3mA			≤0.01%+250 μA	
Line regulation	CV	≤0.01%+3mV	≤0.01%+3mV		≤0.01%+2 mV	
	CC	≤0.2%+3mA	≤0.2%+3mA		≤0.01%+250 μA	
Resolution	Voltage	10 mV			10 mV	1 mV
	Current	1 mA			1 mA	1 mA
Programming accuracy	Voltage	≤0.1%+30 mV	≤0.1%+30 mV	±(0.1% of reading+30 mV)	±(0.3%+20 mV)	±(0.03%+10 mV)
	Current	<0.5%+2 mA	≤0.5%+2 mA	±(0.3% of reading+5 mA)	±(0.2%+5 mA)	±(0.2%+5 mA)
Readback accuracy	Voltage	≤0.1%+30 mV	≤0.1%+30 mV		±(0.1%+20 mV)	±(0.03%+10 mV)
	Current	≤0.5%+2 mA	≤0.5%+2 mA		±(0.15%+5 mA)	±(0.15%+5 mA)
Ripple and noise	Voltage	≤1 mVrms	≤1 mVrms		<350μVrms/2 mVpp(5Hz-1 mHz)	
	Current	≤3mArms	≤3mArms		≤2 mArms	
Temperature coefficient		≤300 ppm			Voltage: 0.01%+5 mV; Current: 0.01%+2 mA	
Parallel load regulation		≤0.01%+3mV (≤3 A); ≤0.02%+5 mV (>3 A)	≤0.01%+3mV (≤3 A); ≤0.02%+5 mV (>3 A)	≤0.01%+3mV	≤0.01%+2 mV	≤0.01%+2 mV
Parallel line regulation		≤0.01%+3mV	≤0.01%+3mV		≤0.01%+2 mV	≤0.01%+2 mV
Series load regulation		≤300 mV				
Series line regulation		≤0.01%+5 mV			≤0.01%+3mV	
Standard interfaces		USB Host (5 V/2 A, charging port only), Digital I/O	USB Host (5 V/2 A, charging port only), USB Device, RS232, Digital I/O		USB Host (5 V/2 A, charging port only), USB Host USB Device, LAN, RS232, Digital I/O	

General Characterisitics			
Power	UDP3303 A/UDP3303C: AC110 V/120 V/220 V/230 V ±10%, 50Hz/60Hz UDP3305C/UDP3305S-E/UDP3305S: AC100 V/120 V/2202 V/230 V±10%, 50Hz/60Hz		AC 100 V/120 V/220 V/230 V±10%, 50Hz/60Hz
Display	EBTN LCD		4.3inch LCD
Product net weight	8.5kg	10kg	10.2kg
Product size (W×H×D)	240 mm × 168mm × 355 mm		
Standard quantity per carton	1pcs		
Standard carton size	455 mm x 365 mm x 300 mm		
Standard carton gross weight	UDP3000S: 10.5kg, UDP3000: 11.4kg		

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

UDP3000S Series

UDP3000 Series

UDP1000 Series

Programmable Linear Power Supplies

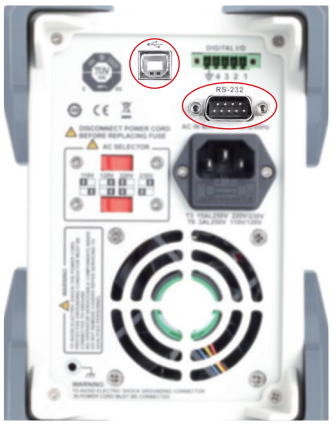
UDP1306C is a single-channel programmable linear DC power supply, a basic power product designed by users of a smaller size and high reliability power supply. It has low ripple noise, fast transient response, excellent power supply and load regulation and other characteristics. Powerful output function 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 32 V/6 A and USB charging interface 5 V/2 A

5 sets of setup storage: M1-M5

Over voltage/current/temperature protection



With RS232 and USB communication interface function

Key Specifications		UDP1306C
Output voltage		0-32 A (CH1), 5 V (USB)
Output current		0-6 A (CH1), 2 A (USB)
Output power		202 W
Display mode		3-window, 4-digit voltage and current high precision display
Resolution	Voltage	10 mV
	Current	1 mA
Load regulation	Voltage	<0.01%+5 mV
	Current	<0.1%+10 mA
Line regulation	Voltage	<0.01%+3 mV
	Current	<0.1%+3 mA
Program-ming accura-cy(25°C±5°C)	Voltage	<0.5%+20 mV
	Current	<0.5%+10 mA
Ripple and noise (20Hz-20 MHz)	Voltage	≤2 mVrms
	Current	≤3 mArms
Temperature coefficient		Current/Voltage: ≤300ppm/°C
Voltage rising/falling time delay		≤100 ms (10% rated load)
Standard interfaces		USB Charging (5 V/2 A), USB Device, RS232

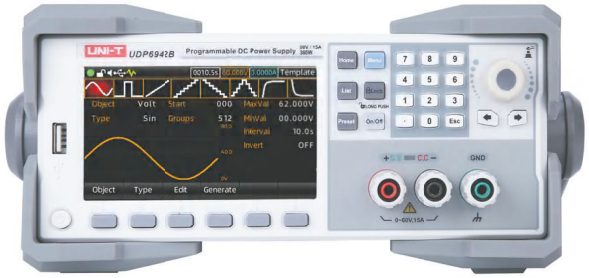
General Characterisitics	
Power	AC 100 V/120 V/220 V/230 V±10%, 50Hz/60Hz
Display	EBTN LCD
Product net weight	7.5kg
Product size (W×H×D)	136 mm x 194 mm x 327mm
Standard quantity per carton	1pcs
Standard carton size	505 mm x 270 mm x 335 mm
Standard carton gross weight	9.6kg

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

UDP1000 Series

UDP6900 Series NEW

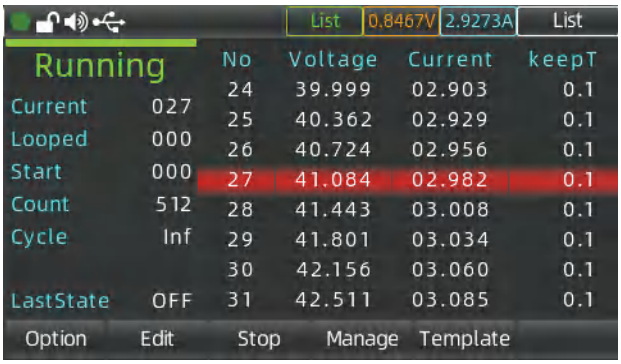
Programmable Switching Power Supplies



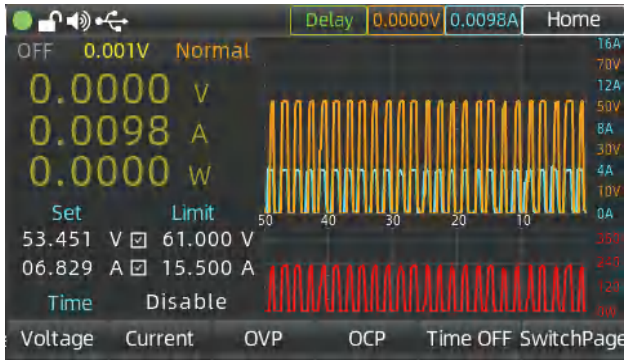
The UDP6900 series are single-channel programmable DC power supplies. This series of power supplies can realize combined output of various voltages and currents under fixed power. A single power supply can meet the test of high-voltage low-current and high-current low-voltage two DUTs, which greatly 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 inch 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

4.3 inch TFT LCD display, display more content



List function provides 512 steps of automated test steps



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

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

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

General Characterisitics			
Power	AC 100 V-240 V, 47 Hz-63 Hz	AC 100 V-240 V, 47 Hz-63 Hz	AC 100 V-240 V, 47 Hz-63 Hz
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)	215 mm × 88m×373.7mm	215 mm × 88m×373.7mm	215 mm × 88m×373.7mm
Standard quantity per carton	1pcs	1pcs	1pcs

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

UDP6900 Series

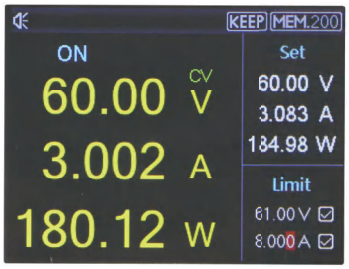
UDP6700 Series

Programmable Switching Power Supplies

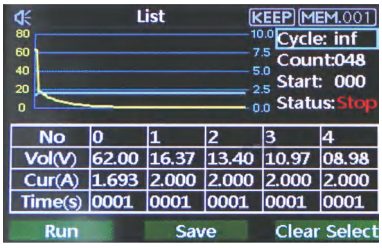
UDP6720 /UDP6721 switching DC power supply has a wide range of voltage and current utilization, leading the same type of power supply. The power ratio reaches 3.0. One machine can replace multiple small power supplies to reduce your repeated investment. It is equipped with RS232 communication interface 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/1 mA
- Low ripple and noise
- Software correction function
- Minimum overall dimension
- 2.8 inch LCD display
- Remote compensation
- Support RS232 communication

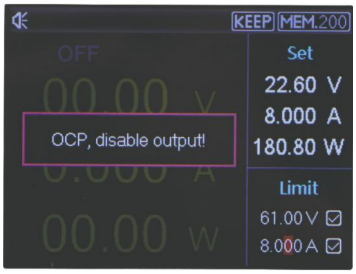
- Fan intelligent regulation
- Constant voltage and constant current output
- High reliability: overvoltage / overcurrent / overtemperature protection function
- List & delayer function
- The output is controlled by a switch
- High quality and high cost performance
- Multiple groups of output voltage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



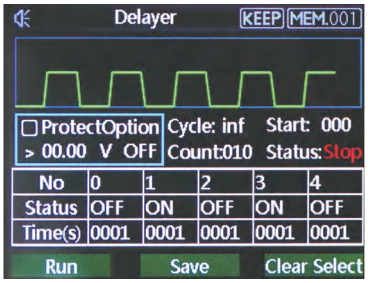
2.8 inch LCD provides more interactive content and displays more real-time information.



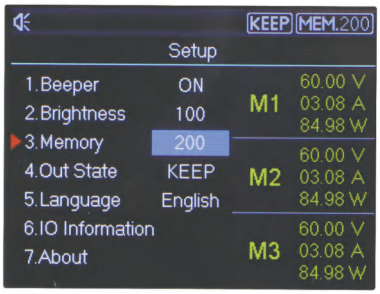
The list function can preset the power output curve to facilitate the automatic test.



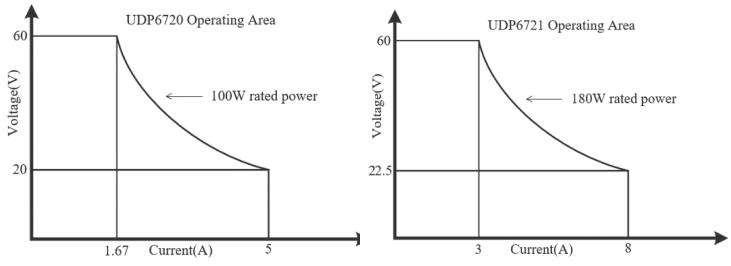
Provide OVP / OCP / OTP protection function. The protection values of current and voltage can be set.



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

General Characterisitics	
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 174 mm x 255 mm
Standard quantity per carton	1pcs

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

UDP6700 Series

DC Electronic Loads

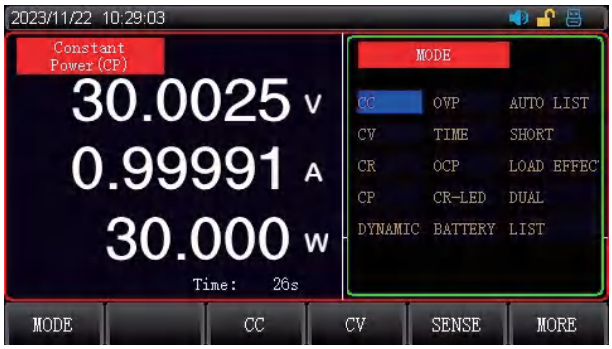
Selection Guide

Series	Model	Total Power	Voltage	Current	Highest Frequency	Current Stope	Resolution
UTL8500+	UTL8512+	300W	150V	30A	50kHz	0.0006A/μS-3A/μS	0.1mV 0.01mA
	UTL8511+	150W					

UTL8500+ Series NEW

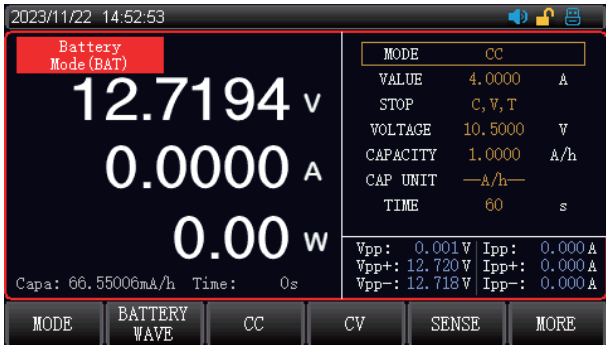
Programmable DC Electronic Loads

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



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

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	300K Ω	300K Ω
Interface&protocol	RS232 interface and SCPI protocol	RS232 interface and SCPI protocol

General Characterisitics		
Power	110 V/220 V, 50/60Hz	
Display	4.3 inch LCD	
Product size (W×H×D)	215 mm x 88mm x 372 mm	
Product net weight	3.73kg	4.49kg
Standard quantity per carton	1pcs	
Standard carton size	515 mmX365 mmX220 mm	

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

UTL8500+ Series

Bench Meters

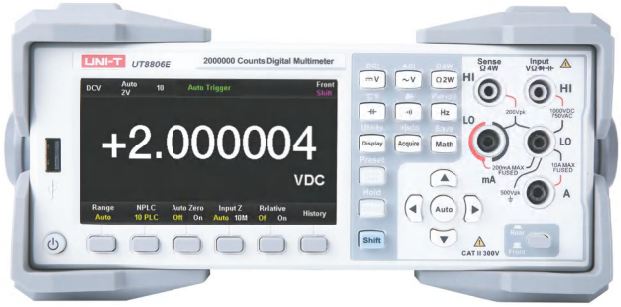
Digital Multimeters

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	4⅝	0.025%	3 rdgs/s
	UT8803E	3⅝	0.3%	
	UT8802E	4 ½	0.1%	

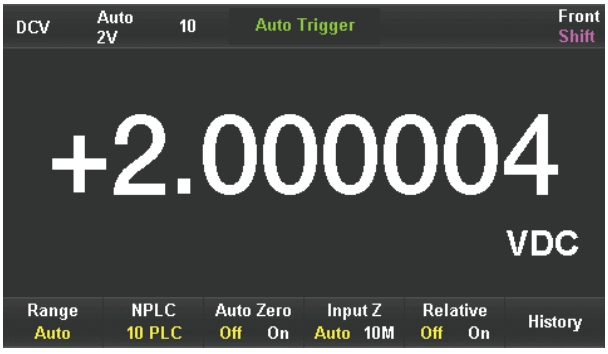
UT8806E NEW

6½ Digital Multimeter

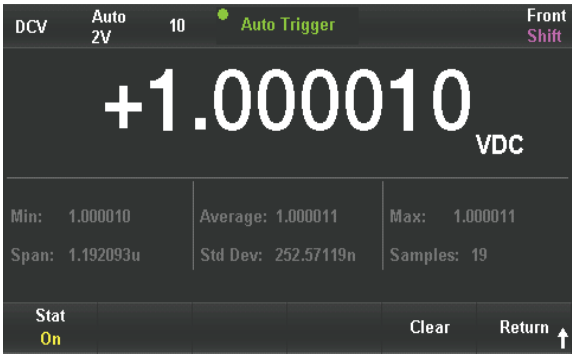


The UT8806E is a high-performance 6½ digit dual display digital multimeter, engineered to deliver exceptional accuracy and speed for precise measurements. With a display count of 1,999,999 and an impressive DC accuracy of 0.0035%, it meets the demanding needs of users seeking multifunctional, high-precision, and automated measurement capabilities. Its broad measurement ranges include DC voltage from 200 mV to 1000 V, AC voltage from 200 mV to 750 V TRMS, and resistance from 20 Ω to 1 GΩ, making it a versatile and reliable tool for various testing applications.

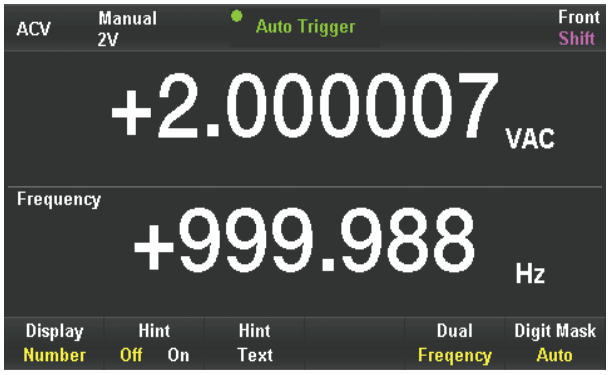
- 4.3 inch TFT-LCD, display resolution 480×272
- 6½ digit reading
- Measurement speed up to 10,000 rdgs/s
- True RMS AC voltage and current measurement
- 32GB Nand Flash, mass storage instrument setting files and data files
- Built-in thermocouple cold junction compensation
- Support standard SCPI remote 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, RS232C, GPIB
- Measurement data and settings can be imported or exported through VXI-11 or USB, so that users can modify, view, and backup conveniently



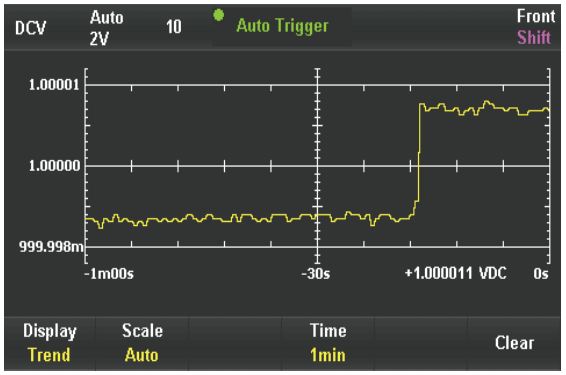
1,999,999 count, 4.3 inch TFT LCD display



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.

Key Specifications	UT8806E	
	Range	Accuracy (1 year)
DC voltage (V)	200 mV/2 V/20 V/200 V/1000 V	±(0.0035%+0.0006%)
AC voltage (V)	200 mV/2 V/20 V/200 V/750 V	±(0.06%+0.03%)
DC current (A)	2 μA/20 μA/200 μA/2 mA/20 mA/200 mA/2 A/10 A	±(0.05%+0.002%)
AC current (A)	200 μA/2 mA/20 mA/200 mA/2 A/10 A	±(0.1%+0.04%)
Resistance (Ω)	20 Ω/200 Ω/2k Ω/20k Ω/200k Ω/2 MΩ/10 MΩ/ 100 MΩ/1 GΩ	±(0.01%+0.001%)
Capacitance (F)	2 nF/20 nF/200 nF/2 μF/20 μF/200 μF/2 mF/20 mF/100 mF	±(1%+0.1%)
Frequency (Hz)	3 Hz-1 MHz	±0.007%
Temperature (°C)	-270°C-1760°C	Probe accuracy +0.16%
Display count	1,999,999	
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)	300 kHz	
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	≥10 GΩ or 10 MΩ	
Standard interface	USB Host, USB Device, LAN, RS232C, GPIB (optional)	

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

Ordering Information	
UT8000E Series	UT8806E: Benchtop Digital Multimeter (1,999,999, Auto)
Standard Accessories	International standard power cord
	USB interface cable
	RS232C interface cable
	Basic test leads with alligator clip

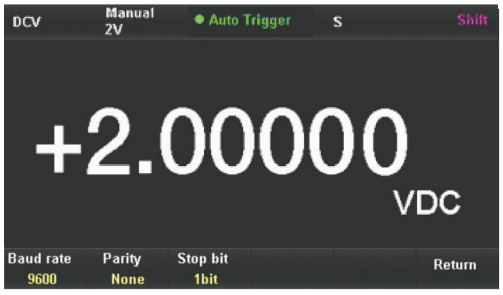
UT8806E

UT8805E

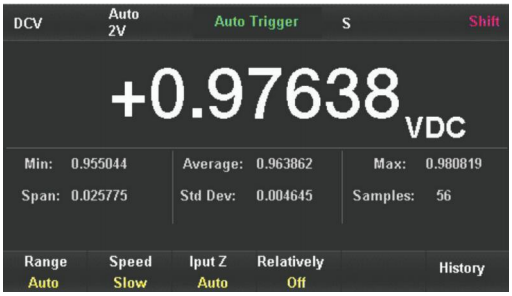
5½ Digital Multimeter

UT8805E is an auto-ranging, true RMS desktop digital multimeter with 199,999 counts, up to 5K rdgs/s, 300 kHz 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.

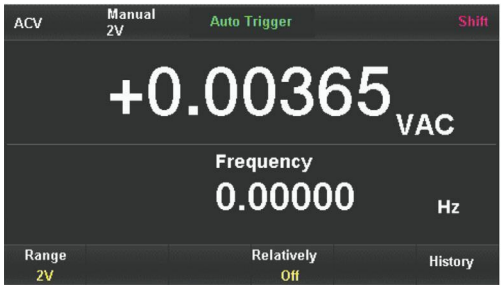
- 199,999 count resolution
- Measuring speed: 2.5/10/5k reading per second
- AC true RMS measurement.
- 2-line and 4-line resistance measurement
- Continuity and diode test
- Temperature measurement with built-in thermocouple cold junction compensation
- Various mathematic operations: maximum, minimum, 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, RS232C 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
- Free PC software to program and communicate with the UT8805E



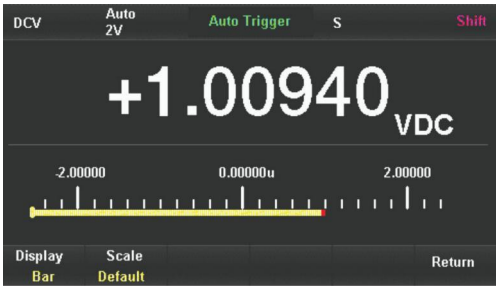
199,999 count, 4.3 inch TFT LCD display



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



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)	200 mV/2 V/20 V/200 V/1000 V	±(0.01%+0.003%)
AC voltage (V)	200 mV/2 V/20 V/200 V/750 V	±(0.2%+0.05%)
DC current (A)	200 μA/2 mA/20 mA/200 mA/2 A/10 A	±(0.055%+0.005%)
AC current (A)	2 mA/20 mA/200 mA/2 A/10 A	±(0.5%+0.1%)
Resistance (Ω)	200 Ω/2k Ω/20k Ω/200k Ω/2 MΩ/10 MΩ/100 MΩ	±(0.02%+0.003%)
Capacitance (F)	2 nF/20 nF/200 nF/2 μF/20 μF/200 μF/2 mF	±(1%+0.5%)
Frequency (Hz)	20 Hz-1 MHz	±(0.01%+0.003%)
Temperature (°C)	-270°C-1760°C (thermocouple and thermal resistance sensor supported)	±0.5°C
Display count	199,999	
DCV Accuracy	0.010%	
Sample rate	5k rdgs/s	
Auto range	√	
True RMS	√	
Data storage	10k data record; 1 GB Nand Flash total storage	
Frequency response (Hz)	100 kHz	
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	≥10GΩ or 10 MΩ	
Standard interface	USB Host, USB Device, LAN, RS232	

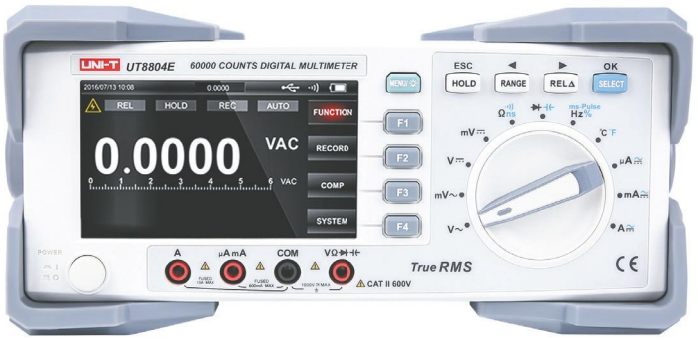
General Characterisitics	
Power	AC 100 V-120 V, 45Hz-440Hz; AC 200 V-240 V, 45Hz-66Hz
Display	4.3 inch TFT LCD
Product net weight	4.4kg
Product size (W×H×D)	239 mm × 100 mm × 344 mm
Standard quantity per carton	2pcs
Standard carton size	380 mm x 330 mm x 320 mm
Standard carton gross weight	10.5kg

Ordering Information	
UT8000E Series	UT8805E: Benchtop Digital Multimeter (199,999, Auto)
Standard Accessories	International standard power cord
	USB interface cable
	RS232C interface cable
	Basic test leads with alligator clip

UT8805E

UT8804E

4⅝ Digital Multimeter

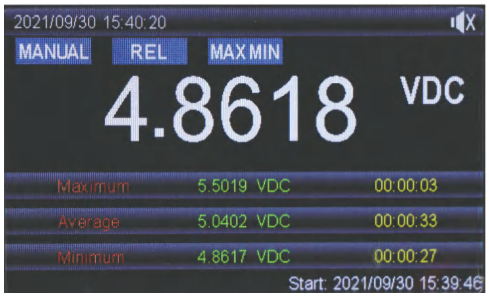


UT8804E is an automatic range of 59,999 counts, a true RMS desktop digital multimeter, 100 kHz frequency response, and a 4.3 inch TFT LCD. The meter can be used to measure AC/DC voltage, AC/DC current, resistance, conductance, diode, continuity, capacitance, temperature, frequency, pulse width, and more. it also has data hold, max/min/ average value measurement, comparison function measurement, relative value measurement, peak detection, tendency chart capture, and up to 20,000 data recording/readback captures.

- Reading resolution: 4⅝, maximum reading 59,999
- Measuring rate: 2 reading/s
- DC voltage range: 60 mV-1000 V
- DC current range: 600 μA-10 A
- AC voltage range: 60 mV-1000 V (True RMS)
- AC current range: 600 μA-10 A (True RMS)
- Resistance range: 600 Ω-60 MΩ
- Capacitance range: 6 nF-60 mF
- Conductivity range: 60 ns
- Frequency measurement range: 60 Hz-60 MHz
- 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 PC control software
- Frequency response: 100 kHz
- Data record: 20,000 groups
- LPF low pass filter function

UT8804E digital multimeter can display 4⅝ digits (59,999), 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.

Extreme value 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)	60 mV-1000 V	±(0.025%+5)
AC voltage (V)	60 mV-1000 V (45Hz-100 kHz)	±(0.3%+30)
DC current (A)	600 μA-10 A	±(0.08%+10)
AC current (A)	600 μA-10 A (45 Hz-10 kHz)	±(0.6%+20)
Resistance (Ω)	600 Ω-60 MΩ	±(0.05%+2)
Capacitance (F)	6 nF-60 mF	±(2%+5)
Conductance (nS)	60 nS	±(2%+10)
Frequency (Hz)	60 Hz-60 MHz	±(0.01%+5)
Duty cycle (%)	10%-90% (10 Hz-2 kHz)	±(1.2%+30)
Temperature (°C/°F)	-40 °C-1000 °C	±(1%+30)
	-40 °F-1832 °F	±(1.5%+50)
Display count	59,999	
DCV Accuracy	0.30%	
Sampling speed	2-3 rdgs/s	
Range	Auto, Manual	
True RMS	√	
Date display	√	
Frequency response (Hz)	100 kHz	
Diode/transistor test	√	
Data storage	20,000	
On-off beep	√	
Data hold	√	
Standard interface	USB Device	

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

Ordering Information	
UT8000E Series	UT8804E: Benchtop Digital Multimeter (59,999, Auto)
Standard Accessories	International standard power cord
	USB interface cable
	Basic test leads with alligator clip
	K-type temperature probe

UT8804E

UT8803E

3⅝ Digital Multimeter

UT8803E is a 5,999 count 3⅝ 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: 3⅝, maximum reading: 5,999
- Measuring rate: 2-3 reading/s
- DC voltage range: 600 mV-1000 V
- DC current range: 600 μA-10 A
- AC voltage range: 600 mV-750 V (True-RMS)
- AC current range: 600 μA-10 A (True-RMS)
- Resistance range: 600 Ω-60 mΩ
- Capacitance range: 6 nF-6 mF
- Inductance range: 600 μH-100 H
- Frequency measurement range: 600 Hz-20 MHz
- Duty cycle measurement range: 5%-95%
- Mathematical operation: maximum, minimum, relative value, analog bar
- Interface: USB device. It can be connected to the free PC control software
- Frequency response: 100 kHz
- It can measure triode and thyristor

Reading resolution: 3⅝, maximum reading: 5,999

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

Key Specifications	UT8803E	
	Range	Accuracy (90 days)
DC voltage (V)	600 mV-1000 V	±(0.3%+2)
AC voltage (V)	600 mV-750 V	±(0.6%+5)
DC current (A)	600 μA-10 A	±(0.8%+3)
AC current (A)	600 μA-10 A	±(1%+5)
Capacitance (F)	6 nF-6 mF	±(1.5%+5)
Resistance (Ω)	60 MΩ	±(0.8%+5)
Inductance (H)	100 H	±(2%+5)
Temperature (°C/°F)	-40 °C-1000 °C	±(1%+5)
Frequency (Hz)	600 Hz-20 MHz	±(0.1%+10)
Duty cycle (%)	5%-95%	Only for reference
Display count	5,999	
DCV Accuracy	0.30%	
Sampling speed	2-3 rdgs/s	
Frequency response (Hz)	100 kHz	
Range	Manual, Auto	
Input impedance for DCV	10 MΩ	
True RMS	√	
Diode/triode	√	
SCR test	√	
Continuity buzzer/data hold	√	
LCD backlight	√	
Interface	USB Device	

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

Ordering Information	
UT8000E Series	UT8803E: Benchtop Digital Multimeter (Display: 5,999, 0.3%, Range: Manual)
Standard Accessories	International standard power cord
	USB interface cable
	Basic test leads with alligator clip
	K-type temperature probe

UT8803E

UT8802E

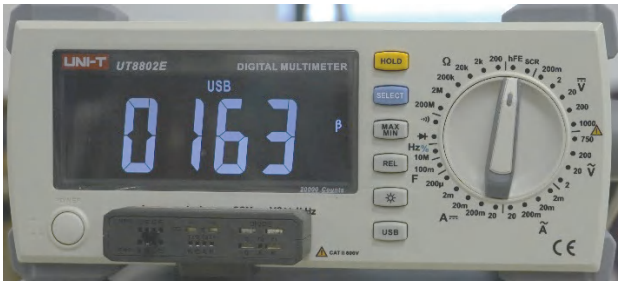
4½ Digital Multimeter

UT8802E is a manual range,benchtop digital multimeter that features 19,999 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: 19,999
- Measuring rate: 3 reading/s
- DC voltage range: 200 mV-1000 V
- DC current range: 200 μA-20 A
- AC voltage range: 2 V-750 V
- AC current range: 2 mA-20 A
- Resistance range: 200 Ω-200 MΩ
- Capacitance range: 20 nF-100 mF
- Frequency measurement range: 200 Hz-10 MHz
- Duty cycle measurement range: 5%-99%
- Mathematical operation: maximum, minimum, relative value
- Interface: USB device. It can be connected to the free PC control software
- Frequency response: 1KHz
- It can measure diode, triode and thyristor

Can display 4½ digits (19,999), which can provide you with high-precision and accurate result display

With diode measurement function you can easily measure the on voltage and diode polarity



With the help of the included UT-S03 A, the measurement of triode and thyristor can be performed

Various test modes include Extreme Value and Reference Value. Extreme value mode allows you to easily see the min/max of your measurements. The Reference value mode allows you to set a measured value to compare others against

Key Specifications	UT8802E	
	Range	Accuracy (90 days)
DC voltage (V)	200 mV/2 V/20 V/200 V/1000 V	±(0.1%+3)
AC voltage (V)	2 V/20 V/200 V/750 V	±(0.5%+20)
DC current (A)	200 μA/2 mA/20 mA/200 mA/20 A	±(0.5%+20)
AC current (A)	2 mA/20 mA/200 mA/20 A	±(0.8%+40)
Capacitance (F)	20 nF/200 nF/2μF/20μF/200μF/2 mF/20 mF/100 mF	±(1.5%+10)
Resistance (Ω)	200 Ω/2k Ω/20k Ω/200k Ω/200k Ω/2 MΩ/200 MΩ	±(0.5%+10)
Frequency (Hz)	200 Hz-10 MHz	±(1%+5)
Duty cycle (%)	5%-99%	±(1.5%+2)
Display count	19,999	
DCV Accuracy	0.1%	
Sampling speed	2-3 rdgs/s	
Frequency response (Hz)	1 kHz	
Range	Manual	
Input impedance for DCV	10 MΩ	
Diode/triode	√	
SCR test	√	
Continuity buzzer/data hold	√	
LCD backlight	√	
Interface	USB Device	

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

Ordering Information	
UT8000E Series	UT8802E: Benchtop Digital Multimeter (Display:19,999,0.1%, Range:Manual)
Standard Accessories	International standard power cord
	UT-S03A: Triode/thyristor text fixture
	USB interface cable
	Basic test lead with alligator clip

UT8802E

Power Meters

Selection Guide

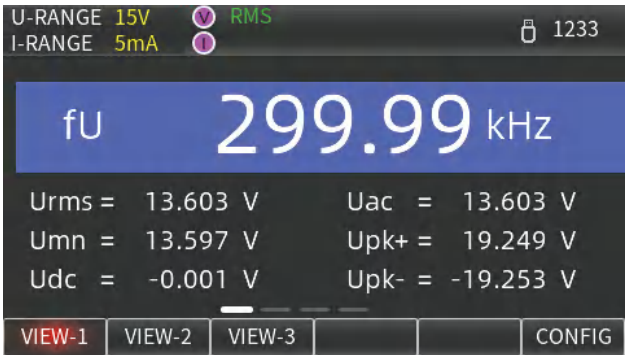
Series	Model	Voltage Range	Current Range	Frequency Range	Accuracy	Measurement mode	Harmonic Analysis	Interfaces
UTE300	UTE310	75 mV-600 V	25 μA-20 A	DC, 0.1 Hz-300 kHz	±(0.1% reading+0.05% range)	DC TRMS MN	Yes	RS232, LAN, USB
	UTE310G							GPIB, LAN, USB
	UTE310H	75 mV-1000 V	5 mA-50 A					RS232, LAN, USB
	UTE310HG							GPIB, LAN, USB

UTE300 Series NEW

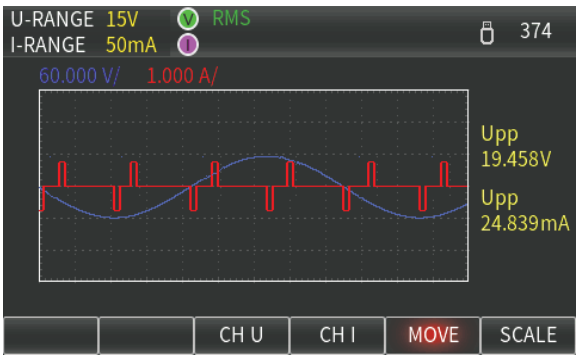
Power Meter

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 25μA-50 A / 75 mV-1000 V and the measurement bandwidth of 300 kHz can meet the needs of a wide range of applications such as production, testing and R&D.

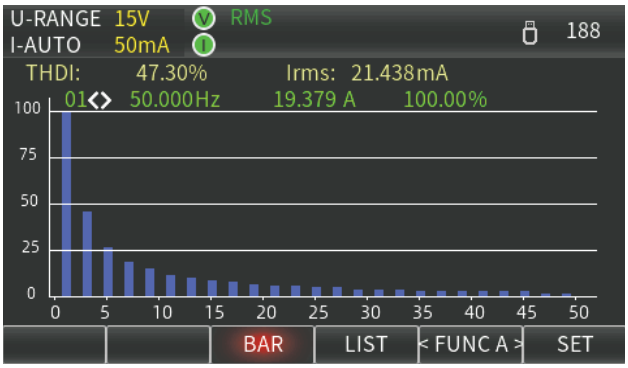
- 4.3 inch TFT-LCD display resolution 480*272
- Measuring range of voltage and current RMS: 25uA-50 A/75 mV-1000 V
- Voltage and current highest resolution: 1 mV/0.1uA
- Basic accuracy of voltage, current and power: 0.1%
- Highest power resolution: 0.001 mW
- Abundant communication interfaces: USB, RS232 or GPIB (optional), LAN
- Measurement bandwidth: 0.1 Hz-300 kHz
- Sample rate: 1 MHz
- 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



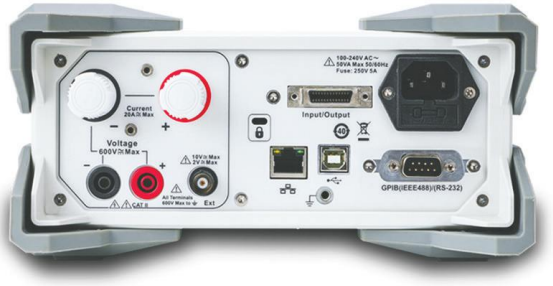
4.3 inch TFT color screen, multi-parameter display on one screen.
300 kHz analog bandwidth to capture higher frequency signals



1 MHz Sample rate for more accurate transient signal measurement



50th harmonic Support IEC61000-4-7 standard



Rich interfaces allow you integrate the UTE300E into your test platform

Key Specifications		UTE310	UTE310H
Bandwidth		DC, 0.1 Hz-300 kHz	DC, 0.1 Hz-300 kHz
Sample rate		1 MHz	
Voltage	Range	CF=3, 15 V/30 V/60 V/150 V/300 V/600 V CF=6 or 6 A, 7.5 V/15 V/30 V/75 V/150 V/300 V	CF=3, 15 V/30 V/60 V/150 V/300 V/600 V/1000 V CF=6 or 6 A, 7.5 V/15 V/30 V/75 V/150 V/300 V/500 V
	Resolution	0.001 V/0.01 V	0.001 V/0.01 V/0.1 V
Current	Range	CF=3, 5 mA/10 mA/20 mA/50 mA/100 mA/200 mA/500 mA/1 A/2 A/5 A/10 A/20 A CF=6 or 6 A, 2.5 mA/5 mA/10 mA/25 mA/50 mA/100 mA/250 mA/0.5 A/1 A/2.5 A/5 A/10 A	CF=3, 1 A/2 A/5 A/10 A/20 A/50 A CF=6 or 6 A, 0.5 A/1 A/2.5 A/5 A/10 A/25 A
	Resolution	0.0001 mA/0.001 mA/ 0.01 mA/0.1 mA/1 mA	0.1 mA/1 mA
Sensor channel Ext1 & Ext2	Range	CF=3, 50 mV/100 mV/200 mV/500 mV/1 V/2 V/5 V/10 V CF=6 or 6 A, 25 mV/50 mV/100 mV/250 mV/500 mV/1 V/2.5 V/5 V	CF=3, 50 mV/100 mV/200 mV/500 mV/1 V/2 V/5 V/10 V CF=6 or 6 A, 25 mV/50 mV/100 mV/250 mV/500 mV/1 V/2.5 V/5 V
	Resolution	1 μV/10 μV/100 μV/1 mV	
Power	Range	75 mW-1200 W	75 mW-5000 W
	Resolution	0.001 mW	
Frequency	Range	Different data refresh rates, different frequency ranges 0.1 S: 20 Hz≥f≤300 kHz 0.25 S: 10 Hz≥f≤300 kHz 0.5 S: 5.0 Hz≥f≤300 kHz 1 S: 2.0 Hz≥f≤300 kHz 2 S: 1.0 Hz≥f≤300 kHz 5 S: 0.5 Hz≥f≤300 kHz 10 S: 0.2 Hz≥f≤300 kHz 20 S: 0.1 Hz≥f≤300 kHz Auto: 0.1 Hz≥f≤300 kHz	
Waveform display		U and I	
Line filter		Yes	
Frequency filter		Yes	
Harmonic measurement		1-50 times, IEC61000-4-7	
Integral function		Average active power integration, current integration	
Math operation		Yes	
DA output and control		Yes	
Interface		RS232/GPIB (optional), LAN, USB	
Support protocol		Support SCPI, Modbus	

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

Ordering Information	
UTE300 Series	UTE310: Digital Power Meter 600 V, 20 A, 300 kHz, RS232
	UTE310G: Digital Power Meter 600 V, 20 A, 300 kHz, GPIB
	UTE310H: Digital Power Meter 1000 V, 50 A, 300 kHz, RS232
	UTE310HG: Digital Power Meter 1000 V, 50 A, 300 kHz, GPIB
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

Headquarter

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