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UPO6000HD Series

High-Resolution Oscilloscopes

Data Sheet

V1.0

June 2026

Product Overview

The UPO6000HD series of high-resolution oscilloscopes offers a flexible choice of 8- or 6-channel configurations, featuring 1 GHz bandwidth and a high-precision 12-bit ADC with a sampling rate of up to 5 GS/s, providing low noise and solid vertical measurement accuracy. The instrument integrates multiple functions, including spectrum analyzer, digital voltmeter, protocol analyzer, and power/three-phase analysis into a single unit, while supporting multi-channel synchronized real-time observation for precise debugging and in-depth analysis of complex systems.



UPO6000HD Specification	
Bandwidth	1 GHz, 500 MHz, 350 MHz
Sampling Rate	5GSa/s (interleaved mode), 2.5GSa/s (non- interleaved mode)
Input Channel	8 analog channels +1 EXT channel
Memory Depth	500 Mpts/CH
Vertical Resolution	12-bit
Waveform Capture Rate	500,000 wfms/s 1,000,000 wfms/s (sequence mode)
Trigger Type	Advanced trigger + Protocol trigger + Area trigger
Cross-Platform Access	Remote control via Webserver, accessible from both PC and mobile devices
Advanced Analysis Tool	Power analyzer, protocol analyzer, limit mask test, timing analyzer
Display	12.1-inch HD capacitive multi-touch screen
Interface	USB Host 3.0×2, TYPE-C×1, 10M Ref IN/Out , HDMI, AUX Out, LAN(VX I11), 10/100/1000 Base- T, RJ-45

Integrated Tool	Standard
Spectrum Analyzer	√
Digital Voltmeter	√
Frequency Counter	√
Area Histogram	√
Limit Mask Test	√
Protocol Analyzer	RS232/UART, I^2C, SPI

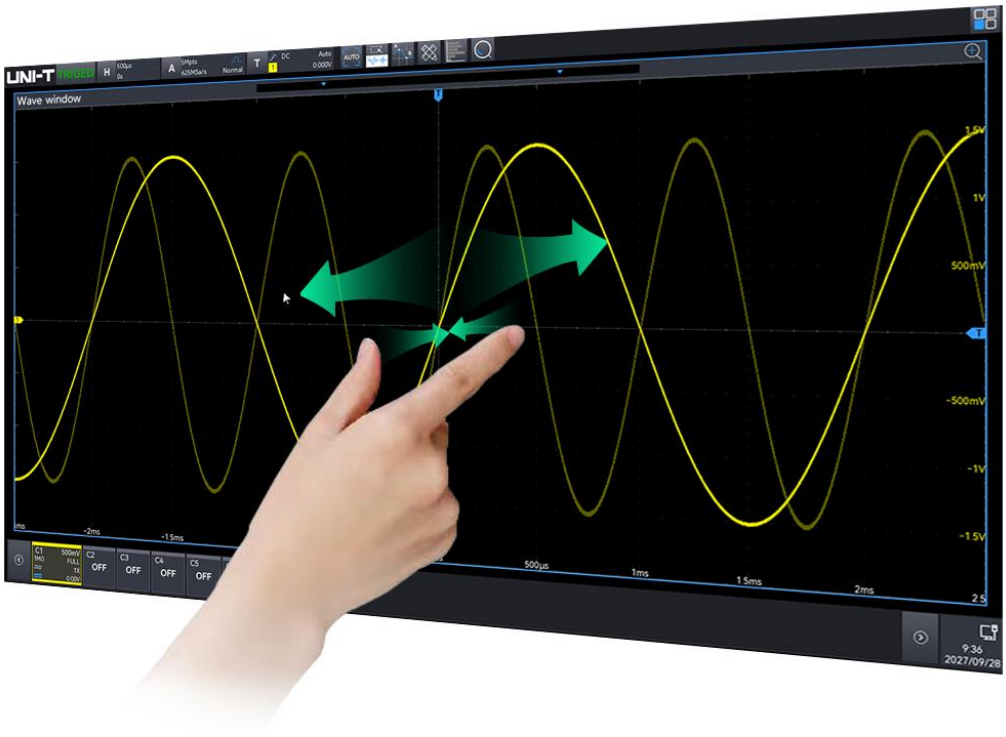
Integrated Tool	Option
Protocol Analyzer	CAN, CAN-FD, LIN, FlexRay, Audio, MIL-5TD-1553B, SENT, ARINC 429, Manchester
Power Analyzer	UPO6000HD-PWR (Power Analyzer, Three-Phase Power Analyzer)

Note: This data sheet is based on the UPO6108HD model.

Mainstream touchscreen design for intuitive user experience

Featuring a 12.1-inch HD capacitive multi-touch screen, it supports a variety of gesture operations such as touch, drag, zoom and rectangle drawing, enabling smooth and efficient operation and easy interface navigation.

It retains the traditional key and knob operation while also supporting mouse and keyboard, making instrument operation more versatile and greatly improving the interactive experience.



Optical Encoders with Extended Service Life

The UPO6000HD series oscilloscopes feature knobs with optical encoders rated for over 200,000 presses and 1 million rotations. As a frequently used control interface, these knobs provide reliable operation over an extended period.



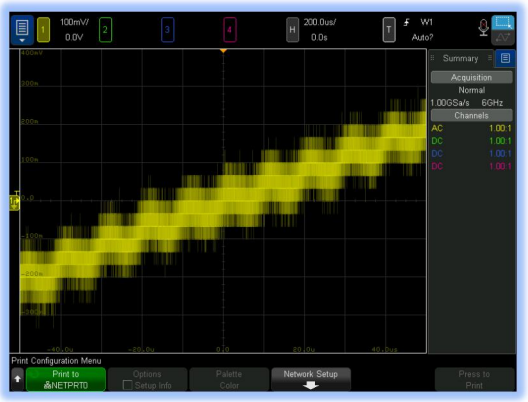
Features and Advantages

- Analog channel bandwidth: 1 GHz/500 MHz/350 MHz
- Real-time sampling rate of the analog channel: Up to 5 GSa/s
- 12-bit vertical resolution, with up to 4096 points, providing clear visibility of waveform details
- 4 analog channels, with a memory depth of up to 500 Mpts
- Maximum waveform capture rate: Up to 500,000 wfms/s (sequence mode: 1,000,000 wfms/s)
- All-in-one comprehensive signal measurement platform: Digital oscilloscope, spectrum analyzer, digital voltmeter, frequency counter, protocol analyzer, and power analyzer
- Adds histogram and line graph displays to measurement statistics
- Hardware-based real-time, uninterrupted waveform recording and analysis of up to 400,000 frames, with support for export to USB storage devices
- Enhanced FFT of up to 5M points, supporting spectrum analysis functions including frequency settings, waterfall display, detection settings, and markers
- Supports timing analysis for bus: I^2C, SPI, CAN, I^2S, Reset, Switch, Uart, and LIN
- Supports ERES (enhanced resolution) of up to 4-bit
- Up to 56 kinds of parameter measurements
- Supports simultaneous multi-window analysis
- Multi-channel 7-digit hardware frequency meter supports frequency refresh time and adjustable effective digit settings
- DVM multi-channel RMS measurement: DC, AC RMS, and DC+ACRMS
- Multiple trigger types: Edge, pulse width, video, ramp, runt pulse, over-amplitude pulse, delay, timeout, duration, setup & hold, Nth edge, and pattern
- Protocol triggering and decoding function: RS232/UART, I^2C, SPI, CAN, CAN-FD, LIN, FlexRay, Audio, MIL-STD-1553B, Manchester, SENT, ARINC429
- Area trigger capability for capturing intermittent signals and analyzing complex waveforms
- Ultra Phosphor 3.0 provides a super fluorescent display effect with up to 256 levels of gray
- 12.1-inch 1280x800 HD capacitive multi-touch screen supports gesture control including tap, pinch, and drag
- Multiple peripheral interfaces: USB Host, USB-Type C 3.0, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), and HDMI
- Supports SCPI (Standard Command for Programmable Instruments)
- Built-in web server enables browser-based remote control via PC and mobile devices for cross-platform access
- Supports online firmware updates

Design Features

High-Resolution

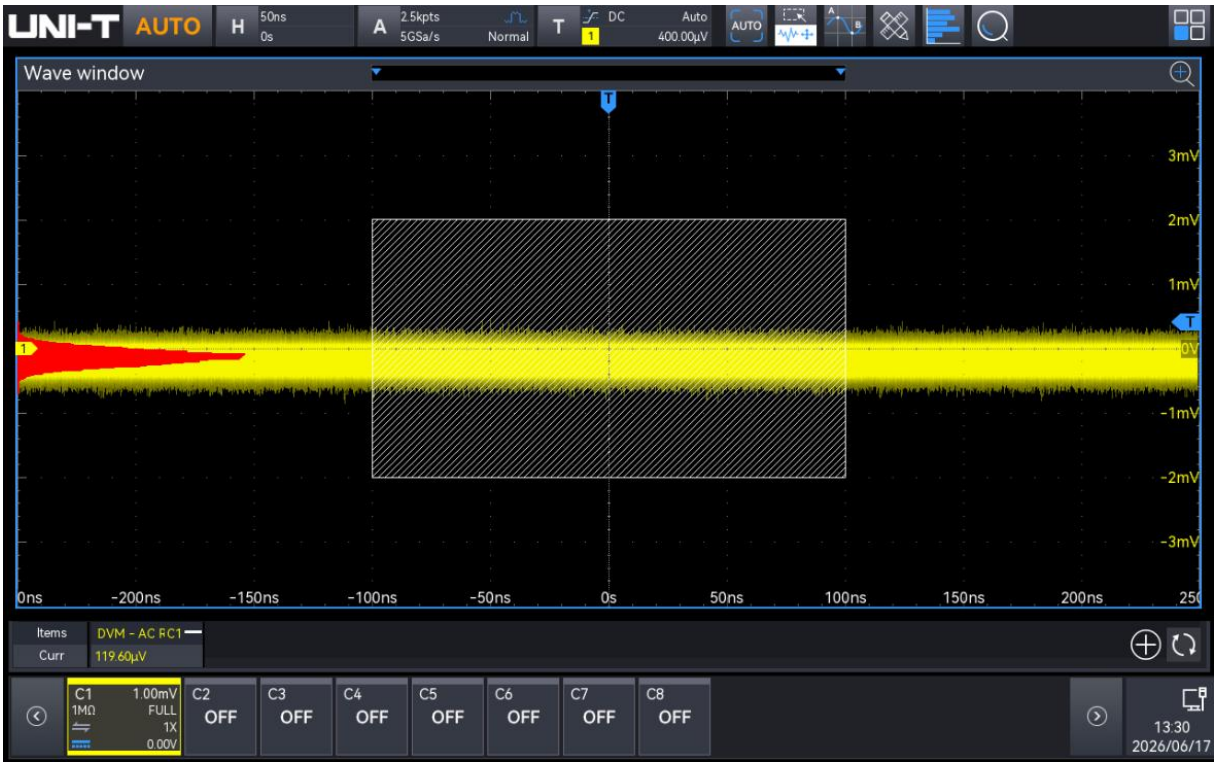
12-bit high-resolution ADC sampling has a quantization level of up to 4096, which is 16 times that of a traditional 8-bit ADC, allowing for better restoration of waveform details.



8-bit



12-bit



The noise on the 1 mV range is 120 μV rms at 1 GHz full bandwidth, enabling the 12-bit ADC to achieve its full resolution.

Quick Function Control



Frequently used buttons, located at the top of the front panel

Quick Trigger Control (One-Click Activation)

Trigger mode switching
Trigger polarity switching

Quick Function Control (One-Click Activation)

Cursor activation
Parameter measurement
Parameter snapshot
Analysis window
Home menu
Customized function
Screenshot
Clear measurement values
DVM
Counter
Lock touchscreen
Restore factory settings

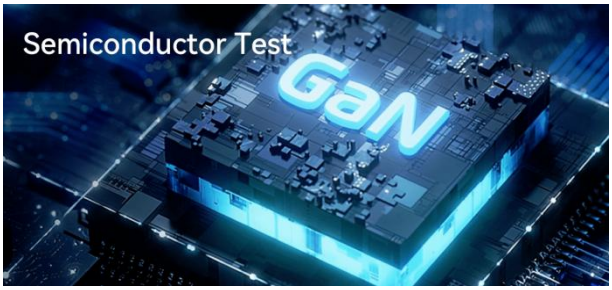
Vertical/Horizontal Control (One-Click Activation)

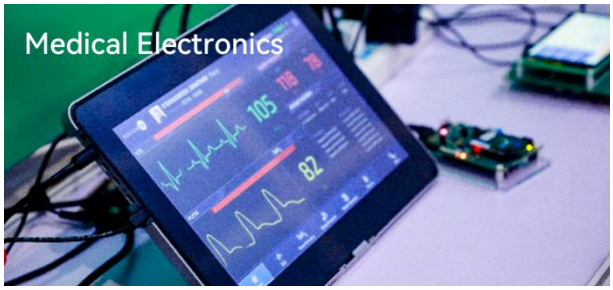
Math
Reference
FFT
Protocol analysis
Vertical/Horizontal scale adjustment
Vertical/Horizontal position adjustment
Channel selection

Application Field











All-in-One Comprehensive Signal Measurement Platform

The UPO6000HD series high-resolution oscilloscope integrates multiple independent instruments into one unit, including a digital oscilloscope, spectrum analyzer, digital voltmeter, high-precision frequency counter, protocol analyzer, and power analyzer. This offers users the most flexible and cost-effective solution to meet their specific needs.

Digital Oscilloscope

- Bandwidth: 1 GHz/500 MHz/350 MHz
- Maximum real-time sampling rate: 5 GSa/s
- Maximum memory depth: 500 Mpts
- 8/6 analog channels, 1 external trigger channel



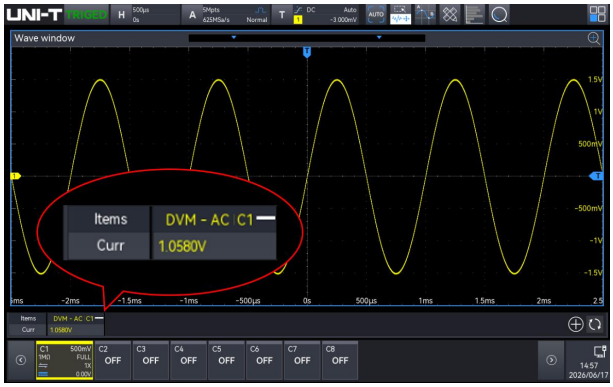
Spectrum Analyzer

- Standard enhanced FFT, up to 5 Mpts x 4-channel signal analysis
- Waterfall curve
- 4 trace types + 4 detection modes
- Mark type: Auto, manual, and threshold
- Marker list display



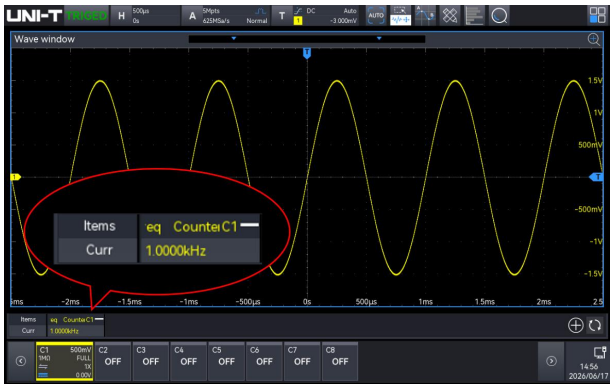
Digital Voltmeter

- 4-digit voltmeter
- Measurement: DC, AC RMS, and AC + DC RMS
- Limit alarm function



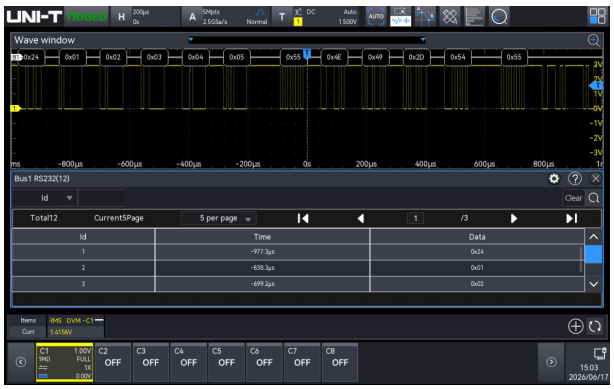
High-Precision Frequency Meter

- 7-digit hardware frequency meter
- Frequency counter refresh time and effective digital adjustment
- Totalizer



Protocol Analyzer

- Supports 12 triggering and decoding protocols for computer systems, embedded serial buses, automotive, aerospace, and audio applications
- Supports decoding during pause, recording, and other operating states
- Supports event list display and search functions



Option Name	Description	Option Model	Standard/Option
Computer Serial Bus Trigger and Decode	RS-232/422/485/UART	-	Standard
Embedded Serial Bus Trigger and Decode	I^2C, SPI	-	Standard
Automobile Serial Bus Trigger and Decode	CAN	UPO6000HD-CAN	Option
Automobile Serial Bus Trigger and Decode	LIN	UPO6000HD-LIN	Option
Automobile Serial Bus Trigger and Decode	CAN-FD	UPO6000HD-CANFD	Option
Automobile Serial Bus Trigger and Decode	FlexRay	UPO6000HD-FLEX	Option
Automobile Serial Bus Trigger and Decode	SENT	UPO6000HD-SENT	Option
Audio Serial Bus Trigger and Decode	Audio	UPO6000HD-AUDIO	Option
Aerospace Serial Bus Trigger and Decode	MIL-STD-1553	UPO6000HD-MIL 1553	Option
Aerospace Serial Bus Trigger and Decode	ARINC 429	UPO6000HD-ARI NC429	Option
Wireless Communication Serial Bus Trigger and Decode	Manchester	UPO6000HD-MANCH	Option

Power Analyzer (Option)

With the advancement of semiconductor technology, power supply systems face increasingly stringent requirements. Low-voltage, high-current power distribution networks have become a common design trend. In particular, for chips and systems built with precision components, it is critical to ensure stable power delivery, effective noise suppression across different circuit blocks, and signal integrity between chips. These factors introduce greater challenges for power supply testing.

Modern designers place greater emphasis on power efficiency and transient response to maintain stable and clean power delivery. As a result, power integrity testing has become increasingly important. Power integrity directly affects signal integrity, while signal quality also reflects the

condition of the power supply. In addition, power quality issues can lead to electromagnetic interference (EMI), which is a key concern in system design. Therefore, an oscilloscope with dedicated power analysis capabilities is an essential tool for power integrity verification.

The UPO6000HD series provides a comprehensive set of power analysis tools and evaluation results. To use these functions, select the appropriate analysis mode and connect the voltage probe and current probe to the power rail under test or a designated test fixture, as shown in the diagram. Then assign the signals to the corresponding channels for observation and make fine adjustments as needed to obtain the desired measurement results.

- Power Quality
- Harmonics
- Switching Loss
- Transient Response
- Inrush Current
- RDS (ON)
- Slew Rate
- Efficiency
- SOA
- Modulation
- Ripple
- Turn On/Off Time



Timing Analyzer

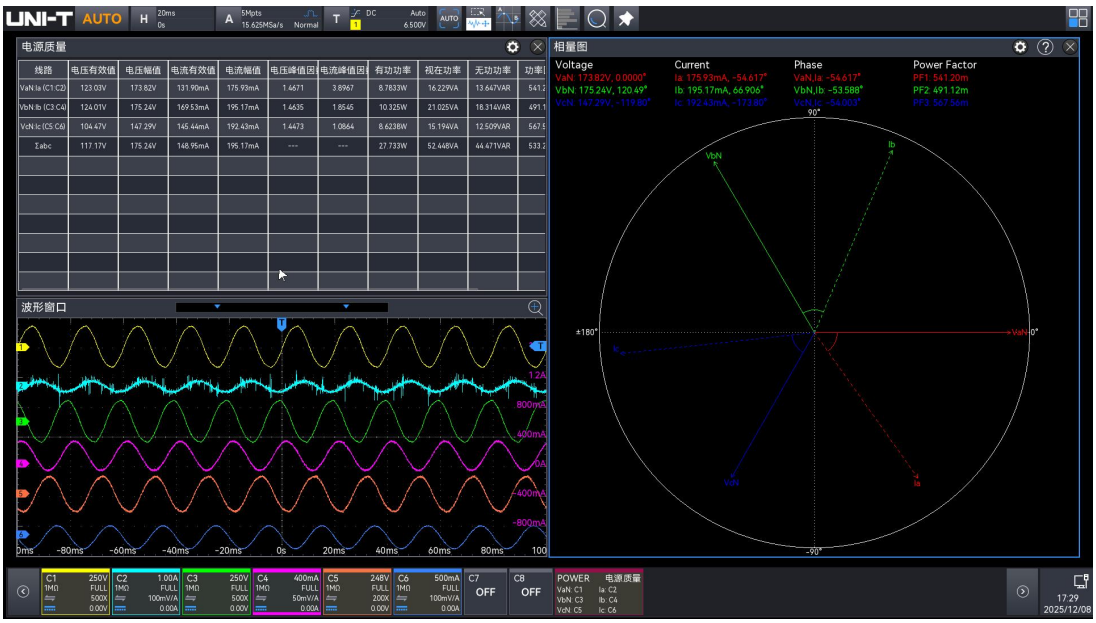
Smart devices such as mobile phones, wearables, home appliances, multimedia systems, and automotive electronics impose strict requirements on internal bus timing consistency. The UPO6000HD provides advanced timing analysis capabilities, supporting measurement of pulse width, amplitude, edge, setup time, and hold time for signals for I^2C, SPI, CAN, and I^2S. It also supports the export of compliance test reports.



Three-Phase Power Analyzer

With the ongoing development of modern power systems, the stability and reliability of three-phase power are essential for ensuring power quality. The three-phase power analysis software combines hardware innovation with intelligent algorithms to provide precise and efficient testing capabilities. It supports synchronous sampling of three-phase voltage and current waveforms and offers one-click measurement of key parameters, covering core functions such as power quality, harmonic analysis, ripple analysis, efficiency, and DQ0 analysis. When combined with real-time display of space vector diagrams, it accelerates the debugging of motor drive systems.

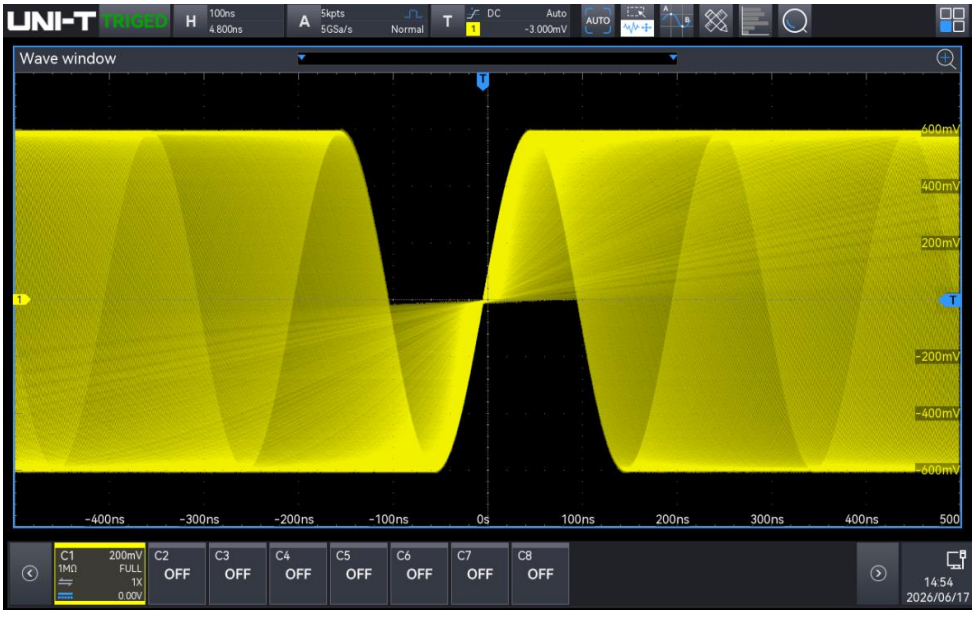
This solution delivers fast, accurate, and repeatable electrical measurements for applications such as electric vehicle drive systems, industrial motor power quality assessment, and renewable energy inverter testing, making it a practical tool for R&D verification and fault diagnosis in power systems, industrial automation, and renewable energy fields.



Ultra Phosphor 3.0

When identifying and debugging sporadic or intermittent signal anomalies, the oscilloscope's waveform capture rate is critical. It refers to the number of waveforms acquired per second and reflects the instrument's ability to capture transient events.

The UPO6000HD s series uses an advanced hardware and software architecture, delivering 5 to 10 times higher data processing performance than previous-generation products.The upgraded Ultra Phosphor 3.0, powered by an ultra-parallel graphics mapping matrix, achieves 30 Gbps processing speed and 500,000 wfms/s waveform capture rate; in sequence mode, up to 1 million waveforms per second can be precisely captured, leaving no rare signal undetected.



New Fast Autoset Strategy

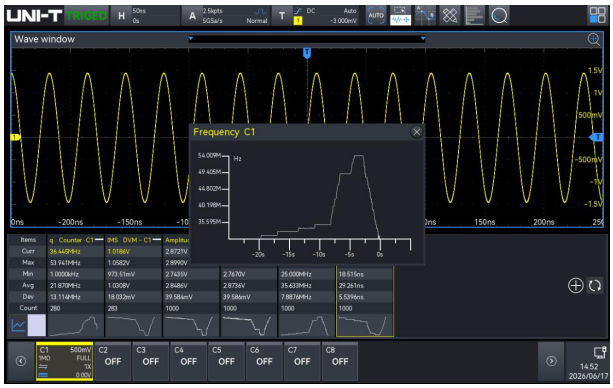
Fuzzy control is an intelligent control method based on fuzzy set theory, fuzzy linguistic variables, and fuzzy logic reasoning. This algorithm offers the advantages of fewer iterations, high speed, and strong anti-interference capability.

In conventional oscilloscopes, Autoset is used to find the appropriate signal amplitude and frequency for display. However, significant differences in response speed often exist among oscilloscope vendors due to different implementation schemes, which can degrade the user experience.

UNI-T has redefined the Autoset function by adopting a fast fuzzy algorithm based on analog signals, combined with multi-channel parallel processing technology and a high-precision 7-bit hardware frequency counter. This enables the oscilloscope to quickly determine, process, and display the amplitude and frequency of unknown signals during Autoset.

Comprehensive Measurement Parameters

Parameter measurement is critical for engineers using oscilloscopes. The UPO6000HD series supports the display of up to 56 measurement parameters, with 27 parameters able to be displayed simultaneously. Measurement statistics show 9 parameters per page. Each parameter supports statistical representation in both histogram and trend chart formats. The histogram intuitively shows the probability distribution of the parameter, while the trend plot reflects its variation over time.



The parameter snapshot function displays 39 measurement items for a single channel, including voltage-related and time-related parameters, with results continuously updated during operation.

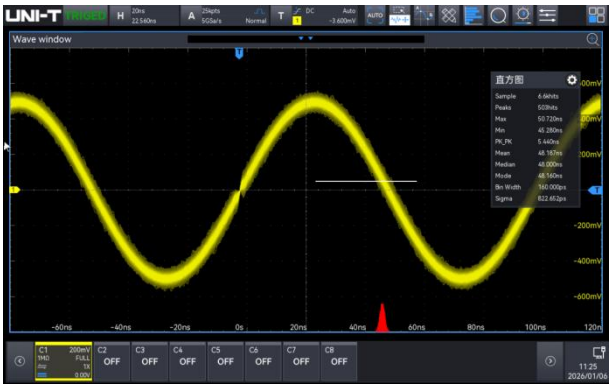
The UPO6000HD series also introduces new functions, including amplitude calculation strategy, top value strategy, and base value strategy, making parameter measurements more flexible for engineers. Additionally, a burst setup function has been added to display burst-related parameters, providing timely and accurate insights into channel measurement data.

Area Histogram

The UPO6000HD series provides a histogram function that is applicable to both jitter analysis and signal integrity analysis.

Jitter analysis: Histograms are essential for jitter analysis, enabling statistical evaluation of large datasets to determine the range and distribution of measured values. This facilitates verification of product performance and quality, as well as identification and diagnosis of intermittent issues. For analyzing random events such as noise and jitter, histograms serve as a practical and effective tool for quantitative jitter analysis and verification.

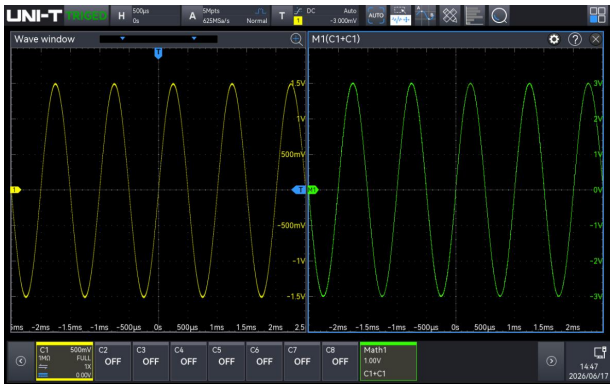
Signal integrity analysis: In signal integrity analysis, histograms are used to display the amplitude distribution of a signal. By examining the histogram, engineers can assess signal stability and quality, promptly detect outliers or fluctuations, and ensure signal integrity and reliability.





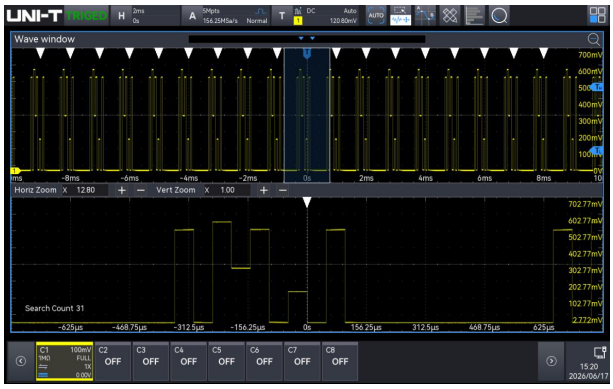
Mathematical Operation

The UPO6000HD series provides a system of algorithms for complex waveform operations, allowing you to further process waveforms and display the results directly on the oscilloscope.



- Supports up to eight basic, filtered, or advanced mathematical waveforms
- Advanced calculations include a 21-option equation editor
- Math waveforms can be used in advanced calculations
- Supported filter types: Low-pass, high-pass, band-pass, and band-stop
- Each waveform offers over 50 automatic measurement options

Navigation and Search

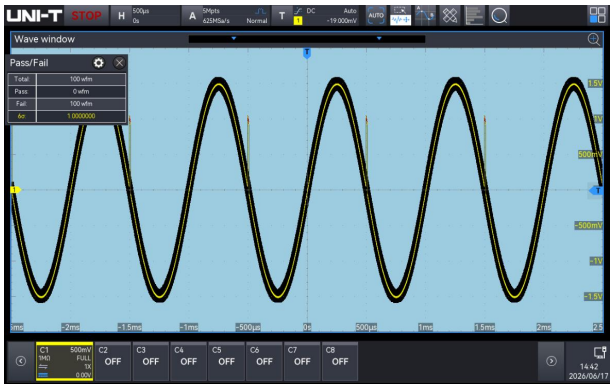


Use the search and navigation functions to quickly locate abnormal signals

The maximum memory depth of the UPO6000HD is upgraded to 1 Gpts. An oscilloscope with high memory depth can capture tens of thousands of waveform cycles in a single acquisition. Manually locating a waveform of interest in such large datasets would be time-consuming. The oscilloscope's search function allows automatic detection of signals based on user-defined criteria, quickly identifying the waveform of interest with the assistance of navigation tools.

With the oscilloscope analysis function, detailed event analysis can be performed, eliminating the time and inconvenience of manual searching. Navigation allows users to easily navigate through search events, time, and markers.

Hardware-accelerated Mask Test



Pass/fail test quickly calculates the probability of anomalies in a signal

The UPO6000HD series allows users to create limit masks based on standard waveforms, supporting applications such as incoming material inspection and production-line quality control, thereby improving design consistency and reliability.

For example, limit testing can be used to evaluate receiver sensitivity and interference immunity, sensor signal-to-noise ratio, audio signal quality, medical device safety, and other related applications.

Area Trigger

Area triggering serves two primary purposes: isolating intermittent anomalies and stabilizing waveform displays. Since a stable trigger is the foundation of a clear display, engineers can use this function to capture and lock complex, variable signals during debugging.

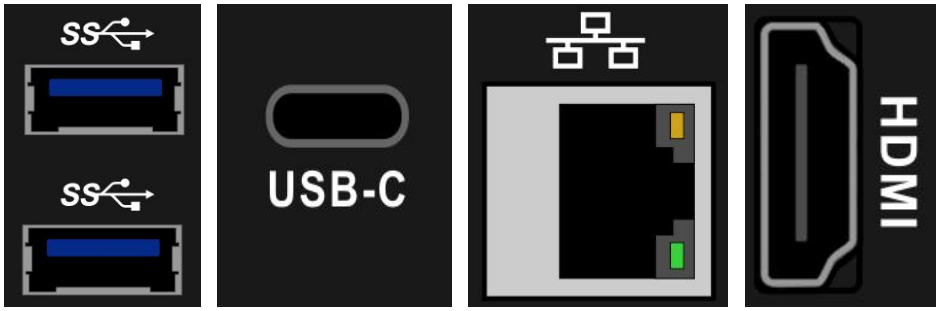


Use a touch gesture to draw a rectangle around the portion of the screen where the abnormal signal appears; selecting this area triggers function A.

This feature simplifies the workflow by eliminating the learning curve associated with advanced trigger settings. By simply drawing a rectangular area on the screen via touch gestures, users can quickly isolate specific signals of interest. Even when a standard trigger fails to stabilize, area triggering successfully captures and stabilizes waveforms that meet the defined parameters.

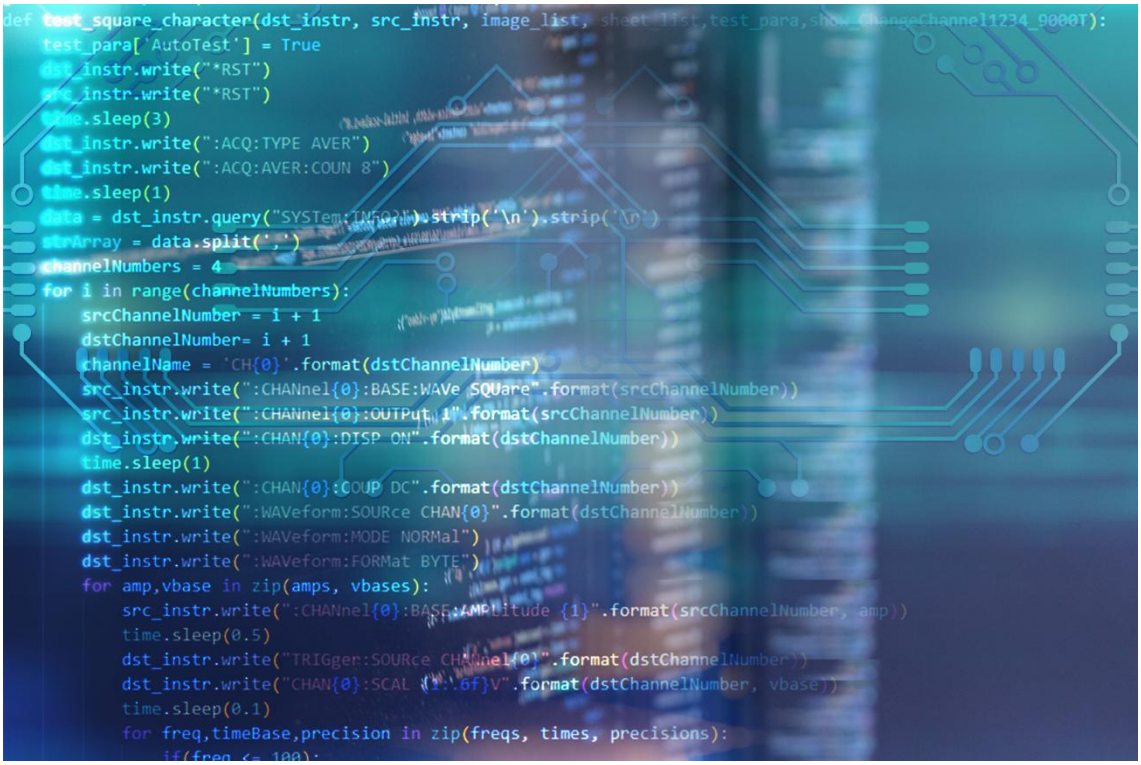
Various Interfaces

The UPO6000HD series provides a comprehensive set of external interfaces, including USB Host, USB Type-C, LAN, HDMI, and TRIG OUT, and supports HDMI high-definition video output for flexible and convenient connectivity.



Multiple Control Methods

Control or Secondary Development via SCPI

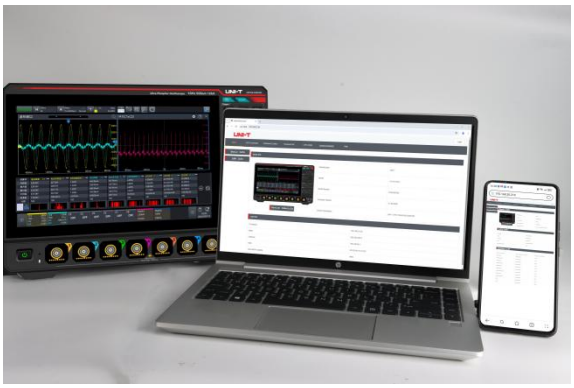


Control via the free UNI-T Instrument Manager



Users can download the free instrument management software from the official website and install it on a PC, then connect to the instrument via LAN or USB for control.

Remote Control via WebServer



Users can access the Web Control software by entering the oscilloscope's IP address into a web browser. The waveform display and instrument controls in the software are identical to those on the UPO6000HD series oscilloscopes. Users can control waveforms, perform measurements, and carry out analysis by operating the Web Control interface with a mouse. The interface also displays basic instrument information and allows users to configure and modify network settings.

Document Version Revision Notes

Document Version	V1.0
Document Revision Content	Initial version
Firmware Version: V1.00.0036 Logical Version: V1.00.0014 Hardware Version: V1.02.0000	

Technical Specifications

All specifications are guaranteed, except those marked Typical (Typ.).

Unless otherwise stated, all the performance characteristics are suitable for the probe attenuation ratio is set to 10x and UPO6000HD series mixed signal oscilloscope.

To meet these specifications, the oscilloscope should first meet the following conditions.

- The instrument must be operated continuously for at least thirty minutes at the specified operating temperature.
- The self-calibration must be performed when the operating temperature reaches or exceeds 5°C.

Model	UPO6108HD UPO6106HD	UPO6058HD UPO6056HD	UPO6038HD UPO6036HD
Analog bandwidth (50 Ω, -3 dB)	1 GHz	500 MHz	350 MHz
Analog bandwidth (1 MΩ, -3 dB)	500 MHz	500 MHz	350 MHz
Calculated rise time (10 to 90%) (Typ.)	≤ 0.35 ns	≤ 0.70 ns	≤ 1.00 ns
Input/output channel number	8 / 6 analog channels		
	1 EXT channel		
Sampling mode	Real-time sampling		
Acquisition mode	Normal, Peak Detection, High Resolution, Average, Enhanced Resolution		
Enhanced resolution (ERES)	Enhanced bits: 1, 1.5, 2, 2.5, 3, 4 (12 to 16-bit)		
Maximum sample rate	Analog channel: 5 GSa/s (interweave mode), 2.5 GSa/s (non-interweave mode)		
Average	After all channels have completed N sampling times simultaneously, N can be selected from 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192.		
Memory depth	Auto (limit to 5 Mpts), 25 kpts, 250 kpts, 500 kpts, 5 Mpts, 50 Mpts, 100 Mpts, 500 Mpts/CH		
Maximum waveform capture rate	500,000 wfms/s		
	1,000,000 wfms/s (sequence mode)		
Sequential sampling	Maximum 400,000 frames, minimum two trigger intervals < 1,000 ns		
Hardware real-time waveform recording and playback	400,000 frames		

Screen	12.1-inch 1280x800 HD capacitive touch screen (fully laminated)
Vertical System (Analog Channel)	
Input coupling	DC, AC, GND
Input impedance	Analog Channel: (1 MΩ±1%) ‖ (16 pF±3pF); (50 Ω ± 1%)
Probe attenuation factor	Voltage probe ratio: 0.001X, 0.01X, 0.1X, 1X, 10X, 100X, 1000X, Custom Current probe ratio: 5 mV/A, 10 mV/A, 50 mV/A, 100 mV/A, 200 mV/A, 500 mV/A, 1 V/A, Custom
Maximum input voltage	1 MΩ: 400 V (DC+ACVpk) 135 V_{RMS} 50 Ω: 5 V_{RMS} Max
Vertical resolution	12-bit (ERES is enabled with a maximum of 16-bit)
Vertical scale	500 μV/div to 10 V/div (1 MΩ) 500 μV/div to 1 V/div (50 Ω)
Offset range	500 μV/div to 5 mV/div: ± 2 V (50Ω or 1MΩ) 5.1 mV/div to 1 V/div: ± 5 V (50 Ω) 5.1 mV/div to 100 mV/div: ± 5 V (1 MΩ) 102 mV/div to 1 V/div: ± 50 V (1 MΩ) 1.02 V/div to 10 V/div: ± 200 V (1 MΩ) Vertical offset reading: V
Band limit (Typ.)	50 Ω: 20 MHz, Full 1 MΩ: 20 MHz, Full
Low-frequency response	(AC coupling, -3 dB); ≤5 Hz (on BNC)
DC gain accuracy	<5 mV: ± 2% of full scale, ≥5 mV: ± 1.5% of full scale
DC offset accuracy	±(2%+0.1 div+2 mV)
Units	W, A, V and U; default: V
Channel-to-channel isolation (Typ.)	DC to maximum bandwidth: > 40 dB
Horizontal System (Analog Channel)	
Time base range	500 ps/div to 1 ks/div Supports time base fine-tuning (simultaneously display the current sampling rate and memory depth)
Time base accuracy	±1 ppm (initial accuracy); ±1 ppm (first-year aging rate); ±3.5 ppm (10-year aging rate)
Time base delay time range	Pre-trigger (negative delay): ≥1 screen width Post-trigger (positive delay): 1 s to 5 ks
Time base mode	Y-T (default)
	X-Y (8-channel: C1–C4 in pairs, C5-C8 in pairs)
	Roll, time base > 50 ms/div, automatically enters or exits Roll mode using

	the horizontal time base knob
	Scan, time base > 50 ms/div, select either Roll or Scan mode
Inter-Channel Delay (Typ.)	<100ps
Trigger System	
Trigger Sensitivity	C1-C8: ≤10 mV/div, whichever is greater: 1 div or 5 mVpp >10 mV/div, 0.5 div EXT: 400 mVpp, DC to 10 MHz 800 mVpp, 10 MHz to external trigger bandwidth (250 MHz)
	When noise suppression is enabled, trigger sensitivity is reduced by half
External trigger input voltage	1 MΩ: ≤42 Vpk 50 Ω: ≤5 Vrms
Trigger level range	Internal: ±4 div from screen center EXT: ±5 V
Trigger modes	Auto, Normal, Single
Trigger holdoff range	0.0 ps to 10 s
Trigger coupling (Typ.)	DC: Allows all signal components to pass
	AC: Blocks the DC component of the input signal
	HF reject: Attenuates high-frequency components above 40 kHz
	LF reject: Attenuates low-frequency components below 40 kHz
Noise reject	Suppresses high-frequency noise in the signal, reducing the probability of false triggering of the oscilloscope
Trigger jitter	Typical value: <100 psRMS (peak <200 ps) Normal sampling mode, edge trigger, the trigger level is set near 50% of the EXT input signal
Zone Triggering	
Zone	2 zones Source: C1-C8 Attributes: Cross, no Cross
Edge	
Slope	Rising, Falling, Either
Source	C1-C8, AC line, EXT
Runt	
Trigger condition	>, <, ≤ ≥, None
Polarity	Positive, Negative

Pulse width	3.2 ns to 10 s
Source	C1-C8
Window	
Polarity	Rising, Falling, Either
Trigger condition	Enter, Exit, Time
Time	3.2 ns to 10 s
Source	C1-C8
Nth Edge	
Slope	Rising, Falling
Idle time	3.2 ns to 10 s
Edge number	1 to 65535
Source	C1-C8
Delay	
Edge type	Rising, Falling
Trigger condition	>, <, ≤ ≥, > <
Delay time	3.2 ns to 10 s
Source	C1-C8
Timeout	
Slope	Rising, Falling, Either
Timeout	3.2 ns to 10 s
Source	C1-C8
Duration	
Code pattern	H, L, X
Trigger condition	>, <, ≤ ≥
Duration	3.2 ns to 10 s
Source	C1-C8
Setup and Hold	
Clock edge	Rising, Falling
Data type	H, L
Setup time	3.2 ns to 10 s
Hold time	3.2 ns to 10 s
Source	C1-C8
Pulse	
Polarity	Positive, Negative
Trigger condition	>, <, ≤ ≥
Pulse Width	0.8 ns to 4 s

Source	C1-C8, AC Line, EXT
Slope	
Slope	Positive, Negative
Trigger condition	>, <, ⩽ ⩾
Time	3.2 ns to 1 s
Source	C1-C8
Video	
Standard	PAL, NTSC, SECAM, 525 p/60, 625 p/50, 720 p/24, 720 p/25, 720 p/30, 720 p/50, 720 p/60, 1080 i/25, 1080 i/30, 1080 p/24, 1080 p/25, 1080 p/30, 1080 pfs/24
Source	C1-C8
Pattern	
Code pattern	H, L, X, Rising, Falling
Source	C1-C8
RS232/UART	
Trigger condition	Start, StopBit, CheckErrr, Data
Bitrate	2400 bps, 4800 bps, 9600 bps, 19200 bps, 38400 bps, 57600 bps, 115200 bps, Custom
Data bit	5 bits, 6 bits, 7 bits, 8 bits
Source	C1-C8
I^2C	
Trigger condition	Start, Restart, Stop, Loss, Address, Data, Address & Data
Addr Length	7 bits, 10 bits
Addr range	0 to 7F, 0 to 3 FF
Byte length	1 to 5
Source	C1-C8
SPI	
Mode	Timeout, CS
Trigger condition	Start, Data
Timeout	100 ns to 1 s
Data bit	4 bits to 32 bits
Source	C1-C8
CAN	
Signal type	CAN_H, CAN_L
Trigger condition	Start, Data Frame, Remote Frame, Error Frame, Over-Load, ID, Data, ID & Data, End of Frame, Missing Ack, Biterror, CRC, Error, ALL Errors

Bitrate	10 kbps, 19.2 kbps, 20 kbps, 33.3 kbps, 38.4 kbps, 50 kbps, 57.6 kbps, 62.5 kbps, 83.3 kbps, 100 kbps, 115.2 kbps, 125 kbps, 230.4 kbps, 250 kbps, 490.8 kbps, 500 kbps, 800 kbps, 921.6 kbps, 1 Mbps, 2 Mbps, 3 Mbps, 4 Mbps, 5 Mbps, Custom
Source	C1-C8
CAN-FD	
Signal type	CAN_H, CAN_L
Trigger condition	Start, Data Frame, Remote Frame, Error Frame, Overload, ID, Data, ID & Data, End of Frame, Missing Ack, Bit Error, CRC Error, ALL Errors
Bitrate	10 kbps, 19.2 kbps, 20 kbps, 33.3 kbps, 38.4 kbps, 50 kbps, 57.6 kbps, 62.5 kbps, 83.3 kbps, 100 kbps, 115.2 kbps, 125 kbps, 230.4 kbps, 250 kbps, 490.8 kbps, 500 kbps, 800 kbps, 921.6 kbps, 1 Mbps, 2 Mbps, 3 Mbps, 4 Mbps, 5 Mbps, Custom
FD Bitrate	250 kbps, 500 kbps, 800 kbps, 1 Mbps, 1.5 Mbps, 2 Mbps, 4 Mbps, 6 Mbps, 8 Mbps, Custom
Source	C1-C8
LIN	
Trigger condition	Sync, ID, Data, ID & Data, Wake Frame, Sleep Frame, Error
Version	v1.x, v2.x, Either
Bitrate	1.2 kbps, 2.4 kbps, 4.8 kbps, 9.6 kbps, 10.417 kbps, 19.2 kbps, 20 kbps, Custom
Data length	1 to 8
Source	C1-C8
FlexRay	
Trigger condition	Start, Indicators, ID, Cycle, Header, Data, ID& Data, End frame, Error
Polarity	BM, BDiff/ BP
Bitrate	2.5 Mbps, 5 Mbps, 10 Mbps, Custom
Source	C1-C8
Audio	
Trigger condition	Word, Left, Right, Any
Format	Standard, Left Aligned, Right Aligned, TDM
Source	C1-C8
MIL-STD-1553B	
Trigger condition	Sync, Command, Status, Data, Error
Polarity	Positive, negative
Source	C1-C8
SENT	

Trigger condition	Fast: Sync, Status, Data, CRC, Status+Data, Status+Data+CRC, Fast CRC error, Continuous Pulse Error Slow: Sync, Short ID, Short Data, Short CRC, Short ID+Data, Enhanced ID, Enhanced Data, Enhanced CRC, Enhanced ID+Data, Slow Channel CRC Error
Source	C1-C8
Manchester	
Trigger condition	Start, Head, Data, Trail, Error
Baud rate	1.2 kbps, 2.4 kbps, 4.8 kbps, 9.6 kbps, 10.417 kbps, 19.2 kbps, 125 kbps, 250 kbps, 500 kbps, 1 Mbps, 2 Mbps, 5 Mbps, 10 Mbps, Custom
Source	C1-C8
ARINC 429	
Trigger condition	Start bit, End bit, Label, SDI, Data, SSM, Label & bits, Parity Error, Bit Error, Gap Error, All Error
Source	C1-C8
Decoding	
Number of decodes	4
Decoding type	Standard: RS232/UART, I^2C, SPI
	Option: CAN, LIN, CAN-FD, FlexRay, Audio, MIL-5TD-1553B, SENT, Manchester, ARINC 429
Parallel	Up to 18 bits parallel bus decoding, combining analog and digital channels, with customizable clock settings
Source	C1-C8
Search and Navigation	
Type	Edge, Pulse Width, Slope, Runt, Window, Delay, Timeout, Duration, Setup & Hold, Nth-Edge, Pattern
Source	C1-C8
Copy	Copy to trigger, copy from trigger
Result display	Event list or navigation; jump to a specific event via the event list
Navigation	Search events, time, marker
Measurement	
Cursor	Voltage difference between cursors (△Y) Time difference between cursors (△X) Reciprocal of △X (Hz) (1/△X)
	Voltage and time of waveform point
	Display the cursor in the automatic measurement
Automatic measurements	**Analog channel: 56 kinds of parameter** Maximum, Minimum, Top, Base, Amplitude, Middle, Peak-Peak, Average,

	Average-Cycles, RMS, RMS-Cycles, AC RMS, AC RMS-Cycles, Area, Area-Cycles, +Area, -Area, +Area-Cycles, -Area-Cycles, +Overshoot, -Overshoot, +Preshoot, -Preshoot, Period, Frequency, Rise time, Fall time, +Width, -Width, +Duty, -Duty, +Pulse count, -Pulse count, Rising edge count, Falling edge count, Burst width, Burst Interval, Burst Period, Burst Per count, Ratio, Period Ratio, Setup time, Hold time, Setup & Hold Ratio, FRFR, FRFF, FFFR, FFFF, FRLF, FRLR, FFLR, FFLF, Delay(r-r), Delay(f-f), Phase(r-r), Phase(f-f)
Measurement mode	Standard measurement and precision measurement (full-memory hardware measurement)
Number of measurements	Simultaneous display of 27 measurements
Measurement range	Main time base, Zoom time base, Cursor area
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Bar chart
XY measurement	Time, Cartesian, Polar, Product, Ratio
Measurement source	C1–C4, M1–M4
Analysis	Frequency Counter, DVM, Pass/Fail, Waveform Recording, Power Analysis
Power Analysis (Option)	
Analysis item	Power Quality, Harmonic, Inrush Current, RDS (ON), Switching Loss, Slew Rate, SOA, Modulation, Ripple, Turn On/Off Time, Transient Response, Efficiency
Timing Analysis (Option)	
Type	I^2C, SPI, CAN, I^2S, Reset, Switch, Uart, LIN
Three-Phase Power Analyzer (Option)	
Analysis item	Power quality, harmonic analysis, ripple analysis, efficiency, DQ0 analysis
Histogram	
Source	C1-C8
Type	Horizontal, Vertical
Measurement	Sampling point, peak, maximum, minimum, peak-to-peak, average, median, mode, Bin Width, standard deviation
Mode	Supports all modes except Roll mode
Math	
Waveform math	A+B, A-B, A×B, A÷B, Advanced, Filter
Filter	Low-pass, high-pass, band-pass, band-stop
Operation	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, π, e (+, -, *, /, ^, >, <, &&, ||, ==, !=)
Function	sin, cos, sinc, tan, sqrt, exp, lg, ln, floor, abs, acos, asin, atan, sinh, tanh,

	ceil, cosh, fabs, intg, diff, sign
FFT	
Channel number	4
Window types	Hanning, Hamming, Rectangular, Blackman, Flat-top
FFT count	Up to 5 Mpts
FFT vertical scale	Vrms, dBV, dBm
FFT	Waterfall: On, Off
	Spectrum range: Start frequency, stop frequency, center frequency, Bandwidth
	Four traces: Normal, Average, Max Hold, Min Hold
	Marker: Marker type, Marker Points, Marker list
Storage	
Settings	Set Status (.set)
Waveform	Waveform data (*.dat), comma-separated values (*.csv), arbitrary waveform (*.bsv)
Image	Image save formats (*.bmp), (*.png), (*.jpg)
Report	Decoded event list formats (*.csv), (*.html), (*.pdf)
Waveform Recording	
Source	All analog channel
Analysis	Supports frame-by-frame or continuous playback, with calculations and measurements available on the played waveform
Pass/Fail Test	
Source	Analog channel
Pass/Fail action	Immediate stop, buzzer activation, screenshot capture
DVM (Digital Voltmeter) (All specifications are typical values)	
Source	All analog channels
Mode	DC, AC+DC RMS, and AC RMS
Resolution	4-digit
Limit alarm	Within or exceed the specified limit range
Measurement range	Vertical range
Measurement window	100 ms
High-Precision Frequency Counter	
Source	All analog channels, trigger source
Measurement	Frequency, period, and accumulate
Counter	Maximum resolution of 7 bits; refresh time and resolution are adjustable

Maximum measurement frequency	Maximum bandwidth of analog channel
Time reference	Internal reference: ±1 ppm (initial accuracy); ±1 ppm (first-year aging rate); ±3.5 ppm (10-year aging rate)
Display	
Screen	12.1 - inch multi-touch capacitive screen (fully laminated)
Display resolution	Resolution 1280×800
Display color	24-bit true color
Persistence	Auto, 50 ms, 100 ms, 200 ms, 500 ms, 1 s, 5 s, 10 s, 20 s, nfinite, Off
Display type	Point, Vector
Real-time clock	Time and date (user-defined)
Waveform Intensity	1% to 100% (default 50%)
Grid Intensity	0% to 100% (default 50%)
Backlight Intensity	1% to 100% (default 50%)
Transparent	0% to 100% (default 50%)
Waveform view scale	Moveable, fixed
Staff	Display, hide
Temperature color	On, off
Interface	
USB-Host 3.0	2 on the rear panel
USB-Device 3.0	1 on the rear panel
LAN	LAN (VXI11), 10/100/1000 Base-T, RJ-45
AUX Out	Trig Out, Pass/Fail, DVM
10 MHz reference input	50 Ω, amplitude 400 mVpp to 4.5 Vpp (-3.979 dBm, 17.044 dBm), frequency 10 MHz ± 10 ppm
10 MHz reference output	50 Ω, 1.65 Vpp square wave
HDMI[1]	1 port for connecting to an external monitor or projector
General technical specification	
Probe compensator output	
Output voltage	Approx. 3 Vp-p
Frequency	10 Hz ,100 Hz, 1 kHz (default), 10 kHz, 3V-REF
Power Source	
Power voltage	100 V to 240 VAC (fluctuation: ±10%), 50 Hz/60 Hz 100 V to 120 VAC (fluctuation: ±10%), 400 Hz

Power	140W (200W) Max.		
Fuse	5A, Class T, 250 V		
Environmental Conditions			
Temperature range	Operating: 0°C to + 50°C		
	Non-operating: -40°C to +70°C		
Cooling method	Forced cooling by fan		
Humidity range	Any relative humidity below +10°C +10°C to +30°C: 5% to 95% RH +30°C to +40°C: 5% to 75% RH +40°C to +50°C: 5% to 45% RH		
Altitude	Operating: Below 4,600 meters; non-operating: Below 15,000 meters		
Contamination level	2		
Operating environment	Indoor use		
Mechanical Specifications			
Dimension (W×H×D)	365mm×264mm×115mm		
Weight	6.55kg		
Calibration Interval			
Calibration interval	1 year		
Safety Regulations			
Electromagnetic compatibility	Compliance with EMC directive (2014/30/EU); compliance with or superior to IEC 61326-1:2021/ EN61326-1:2021, IEC 61326-2-1:2021/ EN61326-2-1:2021		
	Conducted disturbance	CISPR 11/EN 55011	CLASS B group 1, 150 kHz-30 MHz
	Radiation disturbance	CISPR 11/EN 55011	CLASS B group 1, 30 MHz-1 GHz
	(ESD)	IEC 61000-4-2/EN 61000-4-2	4.0 kV (contact), 8.0 kV (air)
	Radio sensitivity	IEC 61000-4-3/EN 61000-4-3	3V/m (80 MHz to 1 GHz) 1V/m (1.4 GHz to 6 GHz)
	Electrical fast transient (EFT)	IEC 61000-4-4/EN 61000-4-4	±1 kV (AC input)
	Surge	IEC 61000-4-5/EN	±0.5 kV (live to zero)

		61000-4-5	±1 kV (live/zero to ground)
	RF continuous sensitivity	IEC 61000-4-6/EN 61000-4-6	3 V, 0.15-80 MHz
	Voltage dip and short-interruption	IEC 61000-4-11/EN 61000-4-11	Voltage dip: 0% UT during 0.5 cycle 0% UT during 1 cycle 70% UT during 25/30 cycles Short-term interruption: 0% UT during 250/300 cycles
Safety specification	EN 61010-1:2010+A1:2019 EN IEC61010-2-030:2021+A11:2021 BS EN61010-1:2010+A1:2019 BS EN IEC61010-2-030:2021+A11:2021 UL61010-1:2012 Ed.3+ R:19 Jul2019 UL61010-2-030:2018 Ed.2 CSA C22.2#61010-1:2012 Ed.3+U1:U2:A1 CSA C22.2#61010-2-030:2018 Ed.2		

Notes:

1: Supports standard HDMI connectors only; adapters are not supported.

Order Information

	Description	Order No.
Model	UPO6108HD (1 GHz, 8 analog channels)	UPO6108HD
	UPO6058HD (500 MHz, 8 analog channels)	UPO6058HD
	UPO6038HD (350 MHz, 8 analog channels)	UPO6038HD
	UPO6106HD (1 GHz, 6 analog channels)	UPO6106HD
	UPO6056HD (500 MHz, 6 analog channels)	UPO6056HD
	UPO6036HD (350 MHz, 6 analog channels)	UPO6036HD
Standard Accessories	National standard cable x 1	
	USB3.0 cable x 1	UT-D30
	Passive probe (350M / 500 MHz) x 4	UT-P08A / UT-P07A
Optional Accessories	Isolation Transformer	UT-ISOT
	High-Voltage Probes	UT-V23/UT-P21/UT-P20
	High-Voltage Differential Probes	UT-P30/UT-P31/UT-P32/ UT-P33/UT-P35/UT-P36
	Active Probe (Single-Ended)	UT-PA2000/UT-PA1000/UT-PD2500/UT-PD1500
	Current Probes	UT-P40/UT-P41/UT-P42/ UT-P43/UT-P44/UT-P4030D/UT-P4150/UT-P4500/P4100A/P4100B
	Deskew Fixture	UT-DF01
Optional Software	350 MHz to 1 GHz Bandwidth Upgrade	UPO6000HD-BW3M5T1G
	350 MHz to 500 MHz Bandwidth Upgrade	UPO6000HD-BW3M5T5M
	500 MHz to 1 GHz Bandwidth Upgrade	UPO6000HD-BW5MT1G
	All Serial Bus Trigger and Decode	UPO6000HD-BND
	Automotive Serial Bus Trigger and Decode (CAN, CAN-FD, LIN, FlexRay, SENT)	UPO6000HD-AUTO
	CAN-Automobile Serial Bus Trigger and Decode	UPO6000HD-CAN
	LIN-Automotive Serial Bus Trigger and Decode	UPO6000HD-LIN
	CAN-FD-Automotive Serial Bus Trigger and Decode	UPO6000HD-CANFD
	FlexRay-Automotive Serial Bus Trigger and Decode	UPO6000HD-FLEX
	SENT-Automotive Serial Bus Trigger and Decode	UPO6000HD-SENT

	Audio-Automotive Serial Bus Trigger and Decode	UPO6000HD-AUDIO
	MIL-STD-1553-Aerospace Serial Bus Trigger and Decode	UPO6000HD-MIL1553
	ARINC429-Aerospace Serial Bus Trigger and Decode	UPO6000HD-ARINC429
	MANCHESTER-Wireless Communication Serial Bus Trigger and Decode	UPO6000HD-MANCH
	Power Analyzer (Advanced Power Analysis and Three-Phase Power Analysis)	UPO6000HD-PWR
	Timing Analyzer	UPO6000HD-TIMING

Note: Please order all main units, accessories, and options from your local UNI-T distributor.

Oscilloscope Probes and Accessories

Passive Probes

Model	Type	
UT-P01 	High-impedance probe	1X: DC to 8 MHz 10X: DC to 25 MHz Oscilloscope compatibility: All UNI-T series
UT-P03 	High-impedance probe	1X: DC to 8 MHz 10X: DC to 60 MHz Oscilloscope compatibility: All UNI-T series
UT-P04 	High-impedance probe	1X: DC to 8 MHz 10X: DC to 100 MHz Oscilloscope compatibility: All UNI-T series
UT-P05 	High-impedance probe	1X: DC to 8 MHz 10X: DC to 200 MHz Oscilloscope compatibility: All UNI-T series
UT-P06 	High-impedance probe	1X: DC to 8 MHz 10X: DC to 300 MHz Oscilloscope compatibility: All UNI-T series
UT-P07A 	High-impedance probe	10X: DC to 500 MHz Input resistance: 10 MΩ Maximum safe operating voltage: <600 V pk Oscilloscope compatibility: All UNI-T series

UT-P08A 	High-impedance probe	10X: DC to 350 MHz Input resistance: 10 MΩ Maximum operating voltage: < 600V pk Oscilloscope compatibility: All UNI-T series
UT-P20 	High-impedance probe	DC to 100 MHz Probe coefficient : 100:1 Maximum operating voltage: 1500 Vrms Oscilloscope compatibility: All UNI-T series
UT-V23 	High-voltage probe	DC to 100 MHz Probe coefficient : 100:1 Input resistance: 100 MΩ±2% Maximum operating voltage: 2000 Vpp Oscilloscope compatibility: All UNI-T series
UT-P21 	High-voltage probe	DC to 50 MHz Probe coefficient 1000:1 Maximum operating voltage: DC 15 kVrms, AC 10 kV (sine wave) Oscilloscope compatibility: All UNI-T series

Current Probes

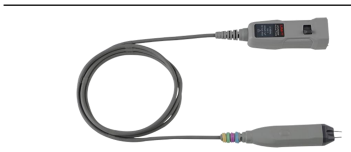
Model	Type	
UT-P40 	Current probe	DC to 100 kHz Range: 50 mV/A, 5 mV/A Current range: 0.4 A to 60 A Maximum operating voltage: 600 Vrms Oscilloscope compatibility: All UNI-T series
UT-P41 	Current probe	DC to 100 kHz Range: 100 mV/A, 10 mV/A Current range: 0.4 A to 100 A Maximum operating voltage: 600 Vrms Oscilloscope compatibility: All UNI-T series

UT-P42 	Current probe	DC to 150 kHz Range: 100 mV/A, 10 mV/A Current range: 0.4 A to 200 A Maximum operating voltage: 600 Vrms Oscilloscope compatibility: All UNI-T series
UT-P43 	Current probe	DC to 25 MHz Range: 100 mV/A Maximum test current: 20 A Rise time: 14 ns Oscilloscope compatibility: All UNI-T series
UT-P44 	Current probe	DC to 50 MHz Range: 50 mV/A Maximum test currentt: 40 A Rise time: 7 ns Oscilloscope compatibility: All UNI-T series
UT-P4030D 	High-frequency current probe	Bandwidth: DC to 100 MHz Rise time: ≤ 3.5 ns Range selection: 30 A/5 A Maximum test current: 30 A Voltage of insulated line: 300 V CATI Oscilloscope compatibility: All UNI-T series
UT-P4150 	High-frequency current probe	Bandwidth: DC to 12 MHz Rise time: ≤29 ns Range selection: 150 A/30 A Maximum test current: 150 A Voltage of insulated line: 600 V CATII 300 V CATIII Oscilloscope compatibility: All UNI-T series
UT-P4500 	High-frequency current probe	Bandwidth: DC to 5 MHz Rise time: ≤70 ns Range selection: 500 A/75 A Maximum test current: 500 A Voltage of insulated line: 600V CATII 300 V CATIII

		Oscilloscope compatibility: All UNI-T series
UT-P4100A 	Low-frequency AC/DC current probe	Bandwidth: DC to 600 kHz Rise time: ≤583 ns Maximum test current: 100 A Range selection: 100 A/10 A Range sensitivity: 0.1 V/A, 0.01 V/A Common-mode voltage RMS: CATI 600 V CATII 600 V CATIII 300 V Oscilloscope compatibility: All UNI-T series
UT-P4100B 	Low-frequency AC/DC current probe	Bandwidth: DC to 2 MHz Rise time: ≤175 ns Maximum test current: 100 A Range selection: 100 A/10 A Range sensitivity: 0.1 V/A, 0.01 V/A Common-mode voltage RMS: CATI 600 V CATII 600 V CATIII 300 V Oscilloscope compatibility: All UNI-T series

Active Probes

Model	Type	
UT-PA2000 	Active single-ended probe	10X: DC to 2 GHz Input capacitance: ≤3.5 pF Dynamic range: ±4 V (DC or peak AC)
UT-PA1000 	Active single-ended probe	10X: DC to 1 GHz Input capacitance: ≤3.5 pF Dynamic range: ±4 V (DC or peak AC)
UT-PD2500 	Active differential probe	10X: DC to 2.5 GHz Input capacitance: ≤1 pF Dynamic range: ±4 V (DC or peak AC)

UT-PD1500 	Active differential probe	10X: DC to 1.5 GHz Input capacitance: ≤1 pF Dynamic range: ±4V (DC or peak AC)
UT-P30 	High-voltage differential probe	DC to 100 MHz Attenuation ratio: 100:1, 10:1 Input differential-mode voltage: ±800 Vpp Oscilloscope compatibility: All UNI-T series
UT-P31 	High-voltage differential probe	DC to 100 MHz Attenuation ratio: 1000:1, 100:1 Input differential-mode voltage: ±1.5 kVpp Oscilloscope compatibility: All UNI-T series
UT-P32 	High-voltage differential probe	DC to 50 MHz Attenuation ratio: 1000:1, 100:1 Input differential-mode voltage: ±3 kVpp Oscilloscope compatibility: All UNI-T series
UT-P33 	High-voltage differential probe	DC to 50 MHz, Probe attenuation ratio: 100:1 Input differential-mode voltage: ±1.4 kVpp DC to 70 MHz, Probe attenuation ratio: 1000:1 Input differential-mode voltage: ±14 kVpp Oscilloscope compatibility: All UNI-T series
UT-P35 	High-voltage differential probe	DC to 50 MHz Attenuation ratio: 500:1, 50:1 Rise time: 7 ns Accuracy: 2% Input differential-mode voltage: 1/50:130 (DC+peakAC) 1/500:1300 (DC+peakAC) Input common-mode voltage: 100 Vrms, CATI 600 Vrms, CATII Oscilloscope compatibility: All UNI-T series

UT-P36		DC to 50 MHz Attenuation ratio: 2000:1, 200:1 Rise time: 3.5 ns Accuracy: 2%
	High-voltage differential probe	Input differential-mode voltage: 1/200:560 (DC+peakAC) 1/2000:5600 (DC+peakAC) Input common-mode voltage: 2800 Vrms, CATI 1400 Vrms, CATII Oscilloscope compatibility: All UNI-T series

Options Ordering and Installation

1. **Purchase options:** Based on your requirements, please purchase the specified function options from UNI-T Sales Personnel and provide the serial number of the instrument that needs the option installed.
2. **Receive certificate:** You will receive the license certificate based on the address provided in the order.
3. **Register and obtain license:** Visit the UNI-T official website license activation session for registration. Use the license key and instrument serial number provided in the certificate to obtain the option license code and license file.
4. **Install the option:** Download the option license file to the root directory of a USB storage device and connect the USB storage device to the instrument. Once the USB storage device is recognized, the Option Install menu will be activated. Press this menu key to begin installing the option.

Limited Warranty and Liability

UNI-T guarantees that the Instrument product is free from any defect in material and workmanship within three years from the purchase date. This warranty does not apply to damages caused by accident, negligence, misuse, modification, contamination, or improper handling. If you need a warranty service within the warranty period, please contact your seller directly. UNI-T will not be responsible for any special, indirect, incidental, or subsequent damage or loss caused by using this device. For the probes and accessories, the warranty period is one year. Visit instrument.uni-trend.com for full warranty information.

Learn more at: www.uni-trend.com

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