

Data Sheet

UP01000CS Series Digital Oscilloscope

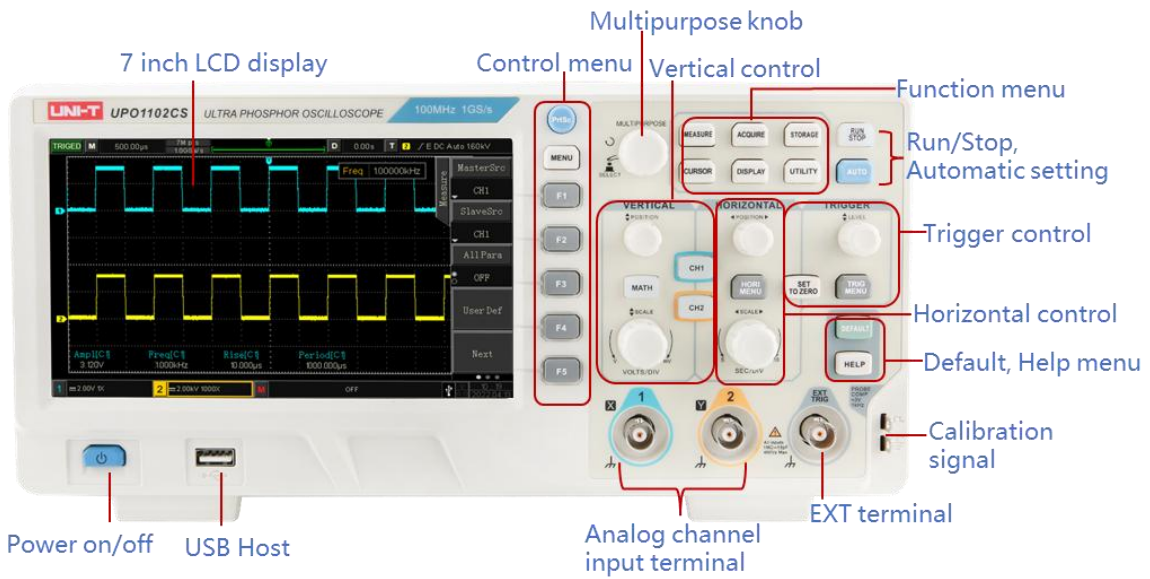
V1.1

2024.06

Main Features

- Analog channel bandwidth: 200 MHz, 100 MHz.
- Number of analog channels: 2.
- Storage depth of each channel: 56 Mpts.
- Sampling rate: 1GSa/s (non-interleaving: independent sampling per channel).
- Waveform capture rate: 500,000 wfms/s.
- Hardware real-time waveform uninterrupted recording of 100000 waveforms.
- Ultra Phosphor super fluorescent display effect, up to 256 levels of gray display.
- Supports RS232, I2C, SPI, CAN and LIN trigger.
- Innovative RS232, I2C, SPI, CAN and LIN hardware decoding.
- Vertical scale: 1 mV/div-20 V/div.
- Low background noise: <math><100 \mu\text{Vrms}</math>.
- 1M points enhanced FFT function. Support frequency setting, waterfall diagram, detection setting and marker measurement etc.
- 36 kinds of waveform parameters can be automatically measured.
- Rich trigger functions (edge, pulse width, video, slope, runt, overshoot, delay, timeout, duration, setup and hold, Nth edge and pattern trigger).
- Multi-Scopes support dual-channel independent trigger fluorescence display.
- Multi-channel independent 7-bit hardware frequency counter.
- DVM supports dual-channel independent AC and DC true RMS measurement.
- Waveform arithmetic functions (FFT, +, -, \times , \div , digital filtering, logic operations, and advanced operations).
- Rich interfaces: USB Host、USB Device、LAN、EXT Trig、AUX Out(Trig Out、Pass/Fail).
- Support SCPI programmable instrument standard command.
- Supports WEB access and control.
- 7-inch 800×480 TFT LCD.

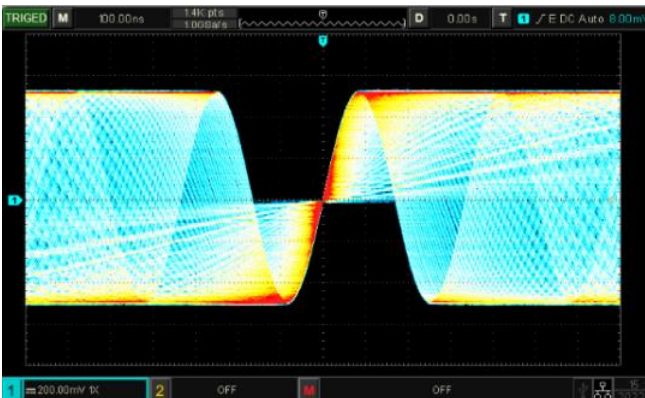
Panel Structure



Product Introduction

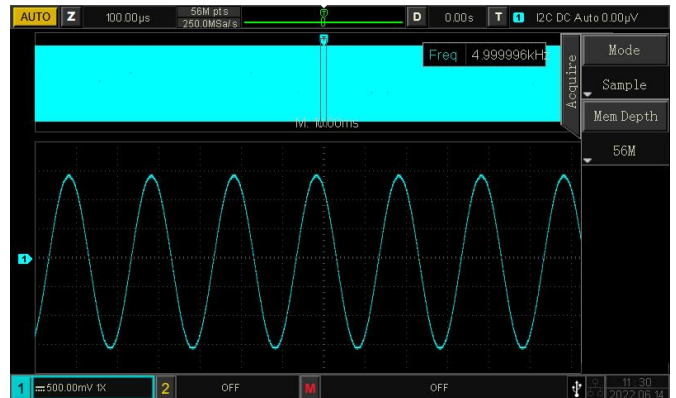
UP01000CS series is a multi-function, cost-effective digital phosphor oscilloscope. It can be widely used in the fields of electronic and electrical design, debugging, education and industrial design. UP01000CS series adopts parallel digital signal processing technology, which greatly improves the data processing speed and waveform capture rate. The original Ultra Phosphor technology can present the cumulative effect of the tested signal as a multi-layered afterglow. Compared with traditional digital storage oscilloscopes, the persistence of digital phosphor oscilloscopes can present three-dimensional waveform data of amplitude, time and signal intensity. Fast Acquire technology can accurately capture abnormal events such as video, jitter, noise, and runt signals.

256 gray level display



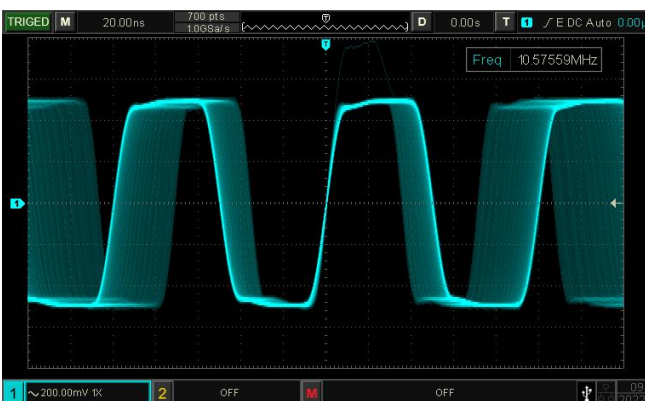
The original Ultra Phosphor display technology is easy to obtain more waveform information and detailed observation.

Deep storage depth



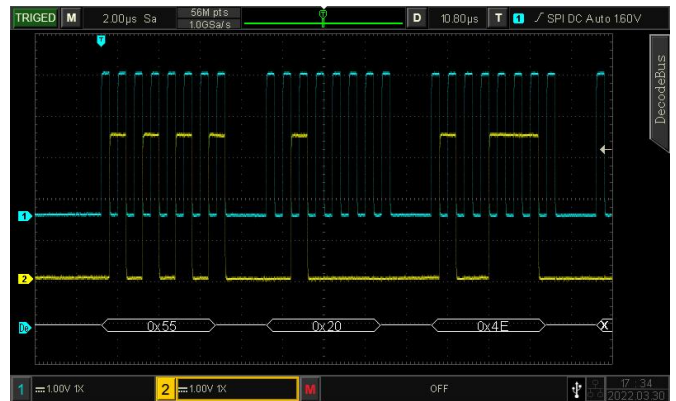
UP01000CS series 56M sampling points per channel. This enables the oscilloscope to maintain high sampling rate in a wider time base range, At the same time considering the whole and details of the waveform, which greatly improves the ability to capture abnormal waveforms.

Ultra high capture rate



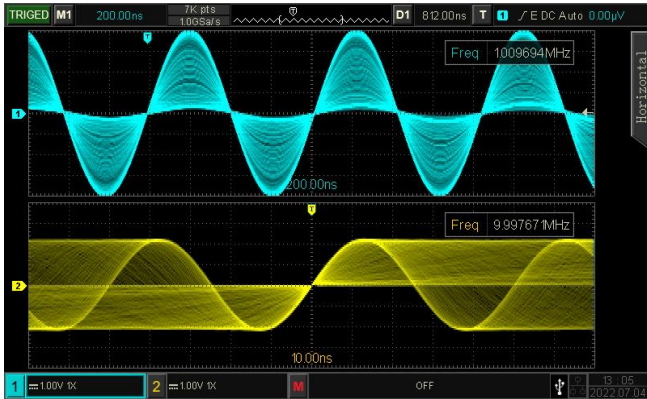
UP01000CS series adopts innovative digital signal parallel processing technology. It has a very high capture rate in its peer products. Effectively reduce signal loss and help you better capture abnormal signals.

Serial bus trigger and hardware decoding



Innovative hardware decoding realizes real-time decoding. The decoding speed with deep storage 56Mpts realizes the millisecond level, which solves the problem of long-time waiting for viewing decoded data. The decoding will not affect the refresh speed of the waveform, and the waveform has the effect of digital fluorescence display. The event list can display the decoded data with deep storage and the time of the packet. These improved technologies will help you better test the serial bus.

Multi-Scopes



Signals with different clock sources and large frequency difference can also display the waveform stably on the screen, which is convenient for customers to analyze the waveform parameters.

1 M FFT sampling point



UP01000CS series has 1 M FFT sampling points. It can also set the practical functions of spectrum analyzer such as frequency range, detection mode and spectrum marking. It is convenient for you to analyze the signal in frequency domain on oscilloscope.

Remote control via web page

The oscilloscope can be connected and remotely controlled via the web page. This eliminates the need to install local programs, saving space and time.



Quick Selection

| Parameter \ Model | UP01202CS | UP01102CS |
|-------------------|---------------------|---------------------|
| Bandwidth | 200 MHz | 100 MHz |
| Analog channel | 2 | 2 |
| Sampling rate | 1 GS/s | 1 GS/s |
| Storage depth | 56 Mpts per channel | 56 Mpts per channel |
| Rise time | ≤1.8 ns | ≤3.5 ns |
| Capture rate | 500,000 wfms/s | 500,000 wfms/s |
| Waveform record | 100,000 frames | 100,000 frames |

Performance Characteristics

All specifications are warranted except those marked "Typical".

Unless otherwise stated, all specifications are for probes with the attenuation switch set to 10× and the UP01000CS series digital phosphor oscilloscope. To meet these specifications, an oscilloscope must first meet the following two conditions:

- The instrument must run continuously for more than 30 minutes at the specified operating temperature.
- If the operating temperature variation range reaches or exceeds 5 degrees Celsius, you must open the system function menu and execute the self-calibration function.

| | |
|--------------------------|---|
| Sample | |
| Sampling mode | Real-time sampling |
| Acquisition mode | Normal, peak detection, averaging, high resolution |
| Real-time sampling rate | 1 GS/s (each channel) |
| Average | Average: 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192 |
| Memory Depth | 56 Mpts (each channel) |
| Input | |
| Channels | 2 |
| Coupling | DC, AC, GND |
| Impedance | (1 MΩ ± 2%) (16 pF ± 3 pF) |
| Probe attenuation | 0.001X, 0.01X, 0.1X, 1X, 10X, 100X, 1000X, Custom |
| Max. Input voltage (1MΩ) | 400 V Max (DC+Vpeak) |
| Vertical System | |
| Bandwidth (-3 dB) | UP01102CS: DC to 100 MHz UP01202CS: DC to 200 MHz |
| Single bandwidth (-3 dB) | UP01102CS: DC to 10 MHz UP01202CS: DC to 200 MHz |

| | |
|---|---|
| Vertical resolution | 8 - bit |
| Vertical scale | 1 mV/div to 20 V/div |
| Band limit(typical) | 20 MHz |
| Low frequency response (AC coupling, -3dB) | ≤5 Hz (On the BNC) |
| Calculated rise time (10 to 90%) (typical) | UP01102CS: ≤3.5 ns UP01202CS: ≤1.8 ns (The typical rising time of 1 mV/div and 2 mV/div is 2 ns) |
| DC Gain Accuracy | <10 mV: ±4.0% full scale; ≥10 mV: ±3.0% full scale; |
| Channel-to-channel isolation(typical) | Dc to maximum bandwidth: >40 dB |
| Horizontal System | |
| Time base Scale | UP01102CS : 2 ns/div to 1000 s/div UP01202CS : 1 ns/div to 1000 s/div |
| Time base accuracy | ≤± (50 + 2 ×Use fixed number of year) ppm |
| Timebase delay time range | Pre-trigger (negative delay): ≥1 screen width Post-trigger (positive delay): 1 s to 50s |
| Time base mod | Y-T, X-Y, Roll |
| number of X - Y | 1 |
| Hardware real-time waveform recording and playing | 100,000 frames |
| Waveform Capture Rate | 150,000 wfms/s 500,000 wfms/s (Fast Acquire mode) |
| Multi-Scopes | Quantity: 2 Support each channel independent display, and independently adjustable time base |
| Trigger | |
| Trigger level range | Inside: ± 5 Spaces from the center of the screen External: EXT ± 3 V |
| Trigger modes | Auto, Normal, Single |
| Trigger holdoff | 80 ns to 10 s |
| Trigger coupling (typical) | DC: Passes all components of the signal AC: The direct current component that blocks the input signal HFRJ: Attenuates the high-frequency components above 40 kHz LFRJ: Blocks the DC component and attenuates the low-frequency components below 40 kHz Noise suppression: The high frequency noise in the signal is suppressed to reduce the probability of oscilloscope being triggered by mistake |
| Edge | |
| Slope | Rising, Falling, Either |

| | |
|-------------------|--------------------------|
| Runt | |
| When | >, <, <>, none |
| Polarity | +wid, -wid |
| Pulse width range | 8 ns to 10 s |
| Window | |
| Type | Rising, Falling, Either |
| When | Enter, Exit, Time |
| Time | 8 ns to 10 s |
| Nth Edge | |
| Edge type | Rising, Falling |
| Free time | 8 ns to 10 s |
| Edge number | 1 to 65535 |
| Delay | |
| Edge type | Rise, Fall |
| When | >, <, <>, none |
| Delay time | 8 ns to 10 s |
| Timeout | |
| Edge type | Rising, Falling, Either |
| timeout | 8 ns to 10 s |
| Pattern | |
| Pattern Setting | H, L, X, Rising, Falling |
| Duration | |
| Type set | H, L, X |
| When | >, <, <> |
| Duration | 8 ns to 10 s |
| Setup and Hold | |
| Edge type | Rising, Falling |
| Data type | H, L |
| Setup time | 8 ns to 10 s |
| Hold time | 8 ns to 10 s |
| Pulse | |
| Polarity | +wid, -wid |
| When | >, <, <> |
| Pulse width | 2 ns to 10 s |
| Slope | |

| | |
|------------------------------------|--|
| Conditions of the slope | Positive slope, negative slope |
| When | >, <, <> |
| Time set | 8 ns to 10 s |
| Video | |
| Signal system line frequency range | Supports standard NTSC, PAL, and SECAM broadcast systems with line counts ranging from 1 to 525 (NTSC) and 1 to 625 (PAL/SECAM) |
| Decoding | |
| Decoding type | RS232/UART, I2C, SPI, CAN (optional), LIN (optional) |
| Number of decodes | 1 |
| RS232 / UART | |
| When | Frame start, error frame, check error, data |
| Baud rate | 2400bps, 4800bps, 9600bps, 19200bps, 38400bps, 57600bps, 115200bps, custom |
| Data bits wide | 5 bits, 6 bits, 7 bits, 8 bits |
| I2C | |
| When | Start, Restart, Stop, loss confirmation, address, data, address& data |
| Address bits wide | 7 bits, 10 bits |
| Address range | 0 to 7F, 0 to 3FF |
| Bytes | 1 to 5 |
| SPI | |
| When | Idle, Idle& Data |
| Free time | 80 ns to 10 s |
| Data bits | 4 bits to 32 bits |
| Data set | H, L, X |
| Edge of the clock | Rise, Fall |
| CAN (optional) | |
| Signal types | Rx/Tx, CAN_H, CAN_L, difference |
| When | Frame start, FRAME type, ID, DATA, ACK loss, BIT padding error, ID and data, End of frame |
| Signal rate | 10kbps, 20 kbps, 33.3 kbps, 50 kbps, 62.5kbps, 83.3 kbps, 100 kbps, 125 kbps, 1 Mbps, custom |
| Sampling point | 1% to 99% |
| Frame type | Data frame, remote frame, error frame, overload frame |
| LIN (optional) | |
| When | Synchronization, Identifier, Data, ID and Data, Wake up frame, Sleep frame, Synchronization error, ID verification error, checksum error |
| Speed signal | V1, V2, Both |
| Bit rate | 2.4 kbps, 4.8 kbps, 9.6 kbps, 19.2 kbps, Specified |

| | |
|---|--|
| Sampling point | 1% to 99% |
| Measure | |
| Cursor | Cursor Manual mode: Voltage difference between cursors (ΔV) Time difference between cursors (ΔT) Inverse of ΔT (Hz) ($1/\Delta T$) |
| | Trace mode: waveform point voltage value and time value |
| Allows the cursor to be displayed during automatic measurements | allow |
| Automatic measurement | Maximum, Minimum, Top, Base, Amplitude, Peak-Peak, Middle, Average, Average-Cycle, RMS, RMS-Cycle, AC RMS, Period, Frequency, Rise time, Fall time, RiseDelay, FallDelay, +Width, -Width, FRFR, FRFF, FFFR, FFFF, FRLF, FRLR, FFLR, FFLF, +Duty, -Duty, Area, Area-Cycle, Overshoot, Preshoot, Phase, Pulse count, a total of 36 measurement parameters; |
| Number of measurements | 5 measurements are displayed simultaneously |
| Measuring range | Screen or cursor |
| Measurement statistics | Mean, maximum, minimum, standard deviation and number of measurements |
| Frequency counter | 7-bit hardware frequency counter |
| Mathematical | |
| Waveform math | A+B, A-B, A×B, A/B, FFT, Editable advanced operations (Log, Exp, Sin, Cos, Tan, Sqrt, Intg, Diff), Logical operations |
| FFT points | 1M points |
| FFT window type | Rectangle, Hanning, Blackman, Hamming |
| FFT display | Split screen, Full screen; The time base is independently adjustable |
| FFT vertical scale | Vrms, dBVrms |
| FFT | Display mode: Full screen, split screen and waterfall Spectrum range Settings: start frequency, end frequency, center frequency, sweep width Detection mode: Normal, average, maximum hold, minimum hold Tags: Tag type, tag trace, tag maximum number of points, event list |
| Digital filtering | Low pass, High pass, Band pass, Band stop |
| Logical operations | and, or, not, xor |
| Function | Intg, Diff, Log, Exp, Sqrt, Sine, Cosine, Tangent |
| Storage | |
| Set | Inside and outside |
| Waveform | Inside and outside |
| Bitmap | External USB memory, and can store related parameter information. |

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|-------------------------------------|--|-------------------|-------------------------------|
| Display | | | |
| Screen | 7-inch 800X480 TFT LCD | | |
| Color | 24 - bit true colors | | |
| Afterglow setting | Minimum value, 50 ms, 100 ms, 200 ms, 500 ms, 1 s, 2 s, 5 s, 10 s, 20 s, infinite | | |
| Display type | Point, vector | | |
| Interface | | | |
| Standard | USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out/, Pass/Fail) | | |
| General technical specifications | | | |
| Probe compensator output | | | |
| Output voltage | About 3 Vp-p | | |
| Frequency | 10 Hz, 100 Hz, 1 kHz, 10 kHz | | |
| Power Source | | | |
| Power source voltage | 100V to 240 VAC (Fluctuations±10%), 50Hz/60Hz | | |
| Power consumption | 100 VA | | |
| Fuse | 2.5 A, F class, 250 V | | |
| Environmental | | | |
| Temperature range | Operation: 0°C to +40°C No operation: -20°C to +70°C | | |
| Cooling method | Forced fan cooling | | |
| Humidity range | Operation: +35°C ≤ 90% relative humidity; No operation: +35°C to +40°C ≤ 60% relative humidity | | |
| Altitude | Operation: below 3000 meters; Non-operational: up to 15,000 meters | | |
| Pollution degree | 2 | | |
| Operating environment | Indoor use | | |
| Specifications | | | |
| Size (Width x height x depth) | 306mm×138mm×124mm | | |
| weight | 3.0 kg | | |
| Adjust the interval | | | |
| Calibration interval is recommended | 1 year | | |
| Standard | | | |
| Electromagnetic compatibility | Comply with EMC Directive (2014/30/EU), in line with or better than IEC61326-1:2021/EN61326-1:2021, IEC61326-2-1:2021/EN61326-2-1:2021 | | |
| | Conduction disturbance | CISPR 11/EN 55011 | CLASS B group 1, 150kHz-30MHz |
| | Radiated disturbance | CISPR 11/EN 55011 | CLASS B group 1, 30MHz-1GHz |

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|--------|---|------------------------------|--|
| | Electrostatic discharge (ESD) | IEC 61000-4-2/EN 61000-4-2 | 4.0 kV (contact), 8.0 kV (air) |
| | Radio-frequency electromagnetic field Immunity | IEC 61000-4-3/EN 61000-4-3 | 0V/m (80 MHz to 1 GHz) ; 3V/m (1.4 GHz to 2 GHz) ; 1V/m (2.0 GHz to 2.7GHz) |
| | Electrical fast transients (EFT) | IEC 61000-4-4/EN 61000-4-4 | 2kV (Input AC Power Ports) |
| | Surges | IEC 61000-4-5/EN 61000-4-5 | 1kV (Line to line) 2kV (Line to ground) |
| | Radio-frequency continuous conducted Immunity | IEC 61000-4-6/EN 61000-4-6 | 3V, 0.15-80MHz |
| | Voltage dips and interruptions | IEC 61000-4-11/EN 61000-4-11 | Voltage Dips: 0% UT during 1 cycle; 40% UT during 10/12 cycles; 70% UT during 25/30 cycles Short interruption: 0% UT during 250/300 cycles |
| Safety | EN61010-1:2010+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 | | |



*The UP01000CS series have been certified by CE, UKCA, cETLus.

Order information

| | Description | Standard Quantity per Carton | Order No. |
|-------------------------|--|------------------------------------|---|
| Model | UP01102CS (100 MHz, 1 GSa/s, 2CH) | 1 | UP01102CS |
| | UP01202CS (200 MHz, 1 GSa/s, 2CH) | 1 | UP01202CS |
| Standard accessories | Power cord that conforms to the standard of the destination country | 1 | -- |
| | USB data cable | 1 | -- |
| | Passive probe (200 MHz/ 100 MHz) | 2 | UT-P05/UT-P04 |
| Optional accessories | CAN Decoding options | -- | UP01000CS-AUTO |
| | LIN Decoding options | -- | |
| | High voltage probe | -- | UT-V23, UT-P21 |
| | High-Voltage Differential Probes | -- | UT-P30, UT-P31, UT-P32, UT-P33, UT-P35, UT-P36 |
| | Current Probe | -- | UT-P40, UT-P41, UT-P42, UT-P43, UT-P44 |

Note: All mainframes, accessories and options can be ordered from your local UNI-T dealer.

UNI-T oscilloscope probes and accessories supported by UP01000CS series

Passive probe

| Model | Type | |
|---------|----------------------|---|
| UT-P01 | High impedance probe | 1X: DC to 8 MHz 10X: DC to 25 MHz Oscilloscope compatibility: UNI-T all series |
| UT-P03 | High impedance probe | 1X: DC to 8 MHz 10X: DC to 60 MHz Oscilloscope compatibility: UNI-T all series |
| UT-P04 | High impedance probe | 1X: DC to 8 MHz 10X: DC to 100 MHz Oscilloscope compatibility: UNI-T all series |
| UT-P05 | High impedance probe | 1X: DC to 8 MHz 10X: DC to 200 MHz series Oscilloscope compatibility: UNI-T all |
| UT-P06 | High impedance probe | 1X: DC to 8 MHz 10X: DC to 300 MHz Oscilloscope compatibility: UNI-T all series |
| UT-P07A | High impedance probe | 10X: DC to 500 MHz Input resistance: 10 M Ω Maximum safe operating voltage: <600 Vpk Oscilloscope compatibility: UNI-T all series |
| UT-P08A | High impedance probe | 10X: DC to 350 MHz Input resistance: 10 M Ω Maximum safe operating voltage: <600 Vpk Oscilloscope compatibility: UNI-T all series |

UT-P20



High impedance probe

DC to 100 MHz
Probe coefficient 100:1
Maximum operating voltage 1500 Vrms
Oscilloscope compatibility: UNI-T all 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: UNI-T all 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: UNI-T all series

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: UNI-T all 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: UNI-T all series

UT-P42




Current probe

DC ~ 150 kHz
Range 100 mV/A, 10 mV/A
Current range 0.4 A to 200 A
Maximum operating voltage 600 Vrms
Oscilloscope compatibility: UNI-T all series

| | | | |
|--------|---|---------------|---|
| UT-P43 |  | Current probe | DC to 25 MHz Range 100 mV/A Maximum measurement current 20 A Rise time 14 ns Oscilloscope compatibility: UNI-T all series |
| UT-P44 |  | Current probe | DC to 50 MHz Range 50 mV/A Maximum measurement current 40 A Rise time 7ns Oscilloscope compatibility: UNI-T all series |

Active probe

| Mode | Type | | |
|--------|---|----------------------------------|---|
| UT-P30 |  | High-Voltage Differential Probes | DC to 100 MHz Attenuation ratio 100:1,10:1 Input differential voltage ± 800 Vpp Oscilloscope compatibility: UNI-T all series |
| UT-P31 |  | High-Voltage Differential Probes | DC to 100 MHz Attenuation ratio 1000:1,100:1 Input differential voltage ± 1.5 kVpp Oscilloscope compatibility: UNI-T all series |
| UT-P32 |  | High-Voltage Differential Probes | DC to 50 MHz Attenuation ratio 1000:1,100:1 Input differential voltage ± 3 kVpp Oscilloscope compatibility: UNI-T all series |
| UT-P33 |  | High-Voltage Differential Probes | DC to 120 MHz Attenuation ratio 100:1,10:1 Input differential voltage ± 14 kVpp Oscilloscope compatibility: UNI-T all series |
| UT-P35 |  | High-Voltage Differential Probes | DC to 50 MHz Attenuation ratio 500:1,50:1 Rise time 7 ns Accuracy 2% Input differential mode voltage 1/50:130 (DC+peak AC) 1/500:1300 (DC+peak AC) Input common mode voltage |

| | | |
|---|--|---|
| | | 100 Vrms, CATI 600 Vrms, CATII Oscilloscope compatibility: UNI-T all series |
| UT-P36 | | DC to 50 MHz |
| | | Attenuation ratio 2000:1,200:1 |
| | | Rise time 3.5 ns |
| | | Accuracy 2% |
|  | High-Voltage Differential Probes | Input differential mode voltage |
| | | 1/200:560 (DC+peak AC) |
| | | 1/2000:5600 (DC+peak AC) |
| | | Input common mode voltage |
| | | 2800 Vrms, CATI |
| | | 1400 Vrms, CATII |
| | | Oscilloscope compatibility: UNI-T all 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 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.



Register your product to confirm your ownership. You will also get product notifications, update alerts, exclusive offers and all the latest information you need to know.

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