# Datasheet

## UPO1002 Series Digital Phosphor Oscilloscope

REV 0

2024.01

# Features and Merits

- Analog channel bandwidth: 200 MHz, 100 MHz

- Analog channel number: 2

- Maximum sampling rate: 1 GSa/s

- Vertical scale: 500 μV/div-20 V/div

- Low-ground noise :< 60 μVrms

- Maximum storage depth: 56 Mpts

- Maximum of waveform capture rate:100,000 wfms/s

- The real-time waveform of hardware can be continuously recording of 120,000 frames

- Automatic measurement of 36 waveform parameters, the measurement range divides into screen and cursor area

- Supports 6 digits hardware frequency meter measurement

- Multi-Scopes 2.0 supports independent fluorescent display for dual channel

- DVM supports AC/DC RMS (true virtual value) measurement

- Waveform calculation function (FFT, add, subtract, multiply, divide, digital filter, logical operation and advanced operation)

- 1M sampling point enhance FFT function, it supports frequency setting, waterfall curve, demodulation mode and marker measurement

- Multiple trigger functions (edge, pulse width, video, slope, runt pulse, over-amplitude pulse, delay, timeout, duration, setup & hold, Nth edge and code pattern)

- Supports trigger of RS232, I$^2$C and SPI

- RS232, I$^2$C and SPI support full memory hardware for real-time decoding

- Ultra phosphor display effect, with 256 grayscale display

- 7 inch WVGA（800×480）TFT LCD

- Multiple interfaces: USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM)

- Supports waveform navigation, marker and segment

- Supports SCPI (Standard Command for Programmable Instrument)

- Supports WEB access and control

# Product Introduction

UPO1002 series digital phosphor oscilloscope adopts innovative UNI-T 3D technique Ultra Phosphor 2.0 with new appearance upgrade and the function of deep storage, high waveform capture rate, real-time waveform recording and playback and 256-level grayscale display.

The series is equipped with the bandwidth of 100 MHz and 200 MHz, real-time sampling rate up to 1 GSa/s, 2 analog channels, maximum storage depth of 56 Mpts, maximum waveform capture rate of 100,000wfms/s, hardware real-time waveform uninterrupted recording and waveform analysis up to 120,000 waveform frames, support DVM module, rich trigger and bus decoding functions, and support full memory hardware real-time decoding.

It widely used in many fields, including communication, semiconductor, IC design, instrumentation, industrial electronics, consumer electronics, automotive electronics, field maintenance, R&D and education.
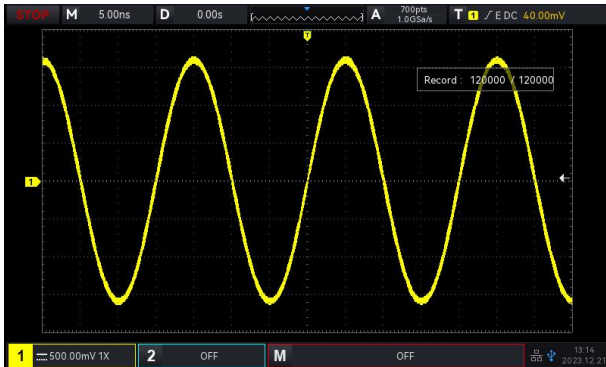
# Design Highlights

## 256 grayscale display

Use the original Ultra Phosphor technique to display the waveform details.
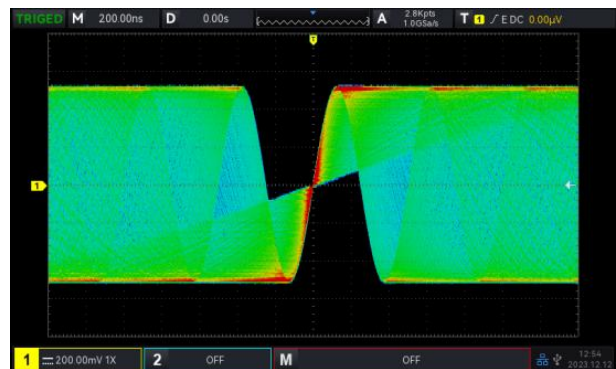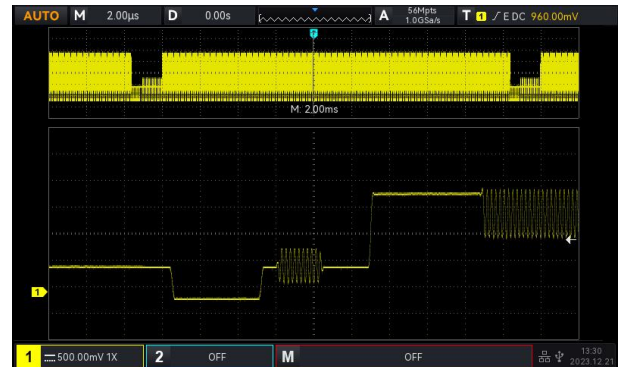
# Hardware real-time maximum recording up to 120,000 frames



UPO1002 series hardware real-time maximum recording is reach to 120,000 frames.

# Maximum storage depth of 56 Mpts



It is convenient for the oscilloscope to maintain the high sampling rate in a wider time base range, while taking into account the overall waveform and detail. It greatly improving the capture rate of abnormal waveform.

# Maximum waveform capture rate of 100,000 wfms/s



Use the innovative digital signal parallel processing technique, normal sampling is reach to 100,000 wfms/s, capture the accidental signal.

# Cursor Area Measurement
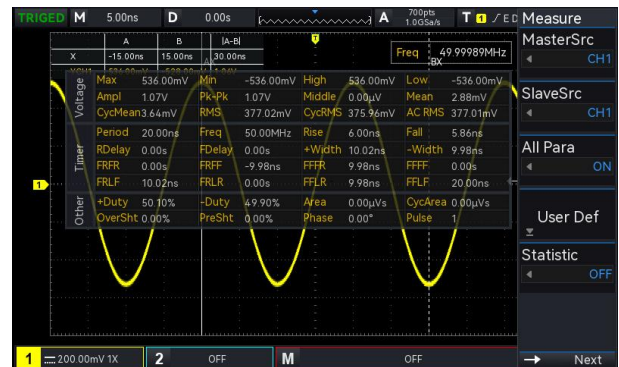


When the Cursor is opened, the waveform in cursor area can process the parameter measurement. It is convenient for user to process the waveform measurement in the specified area, it enhances the flexible and operability for the measurement area.

## Waveform Navigation

Navigation includes time navigation, marker navigation and segment navigation. The user can select the different navigation mode to observe and analysis the waveform.
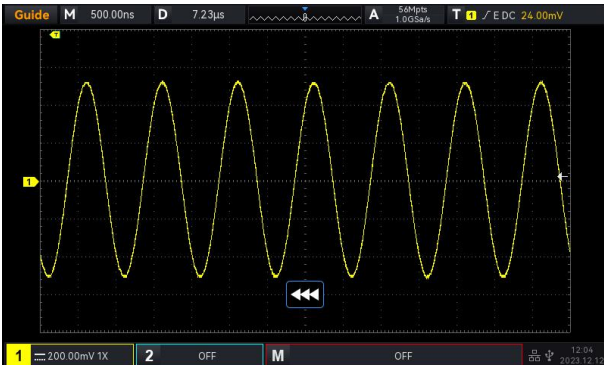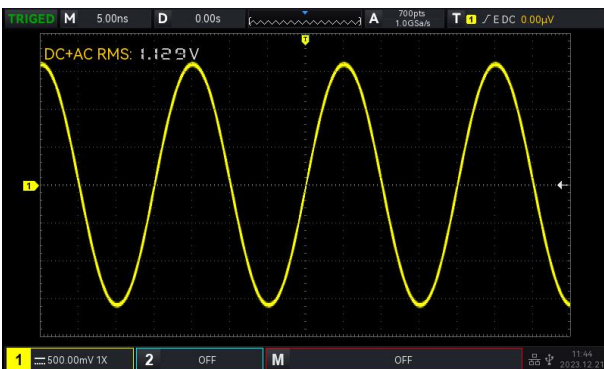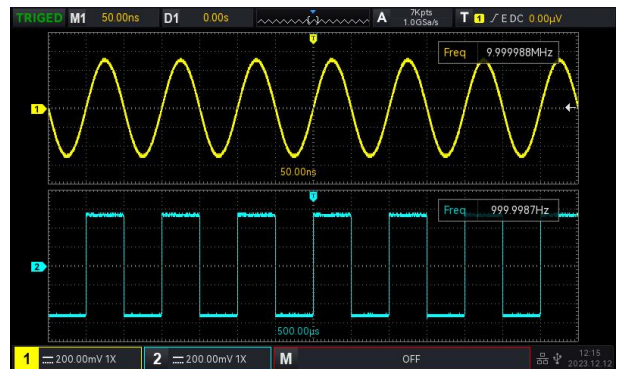


Waveform Navigation
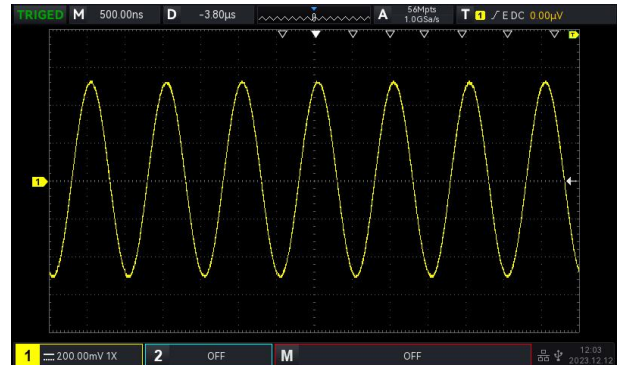


Marker Navigation

## DVM (Digital Voltage Meter)



UPO1002 series has built-in DVM (Digital Voltage Meter), it will sound a warning when the range is accord with or over the specified range. It provides the more accurate measurement and to comprehensively improve the counting measurement experience for user.

## Multi-Scopes 2.0



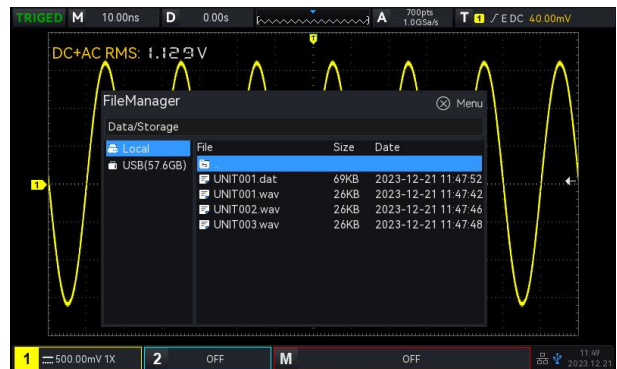Multi-Scopes 2.0 can separate the time base and volts/div of two channels, so the user can observe two completely different signals in one window at the same time.

## Cursor Measurement
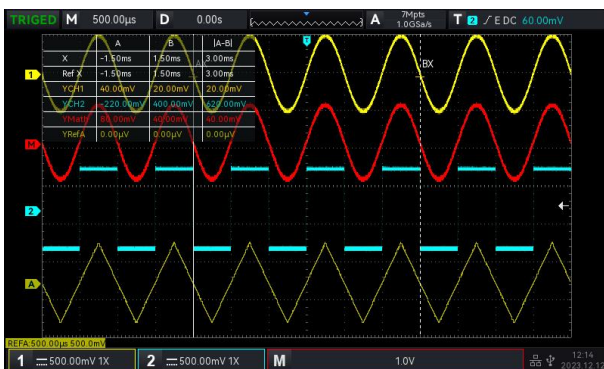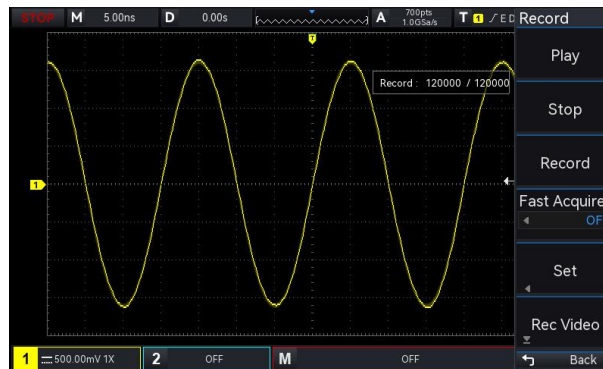


It can measure time and voltage of CH1, CH2, MATH, REFA and REFB.

## File Management



UPO1002 series adds file management function. The user can save the waveform, settings, picture to the specified Local file or the file folder USB.
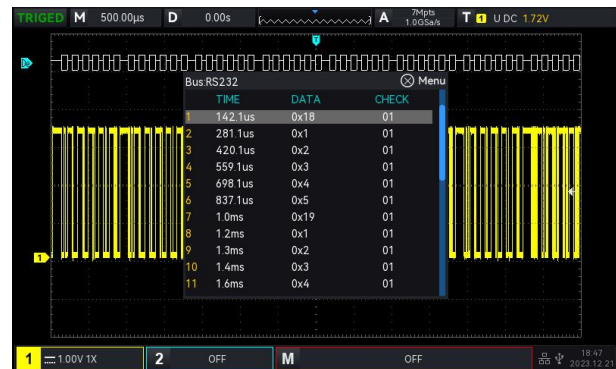
## Recording converts to video



When the recording waveform is completed, the recorded waveform can save to USB. The waveform can be played back and observed on the PC, which is convenient for users to import the waveform to the PC and improve the user experience.

## Serial bus trigger and decoding
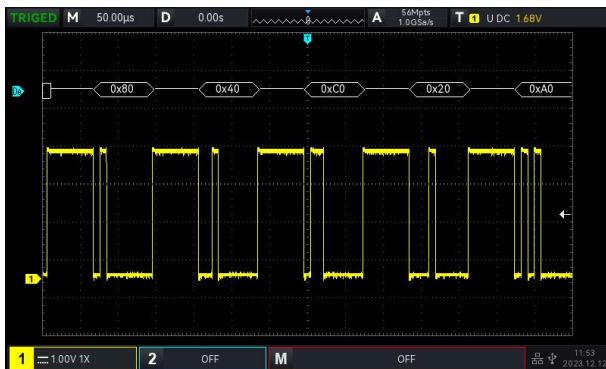


The innovative hardware decoding enables real-time decoding.



The decoding rate is greatly improved. Full-memory hardware decoding with deep storage of 56 Mpts improves the decoding time from tens of seconds to milliseconds, realizes real-time decoding, and greatly improves the efficiency of problem diagnosis for users.

(1) The waveform refresh rate will not be effect while decoding and the waveform display with digital phosphor;

(2) The event list can display the decoding data under the deep storage and time of data packet;

(3) The recorded waveform is also support full memory hardware real-time decoding

## 1M sampling point to enhance FFT

It can set the frequency range, demodulation mode and spectrum marker, waterfall curve, automatic mark peak and user-preset function. It is convenient for frequency domain analysis of signal.
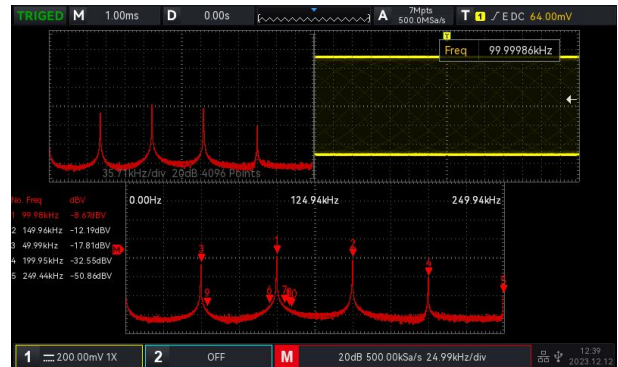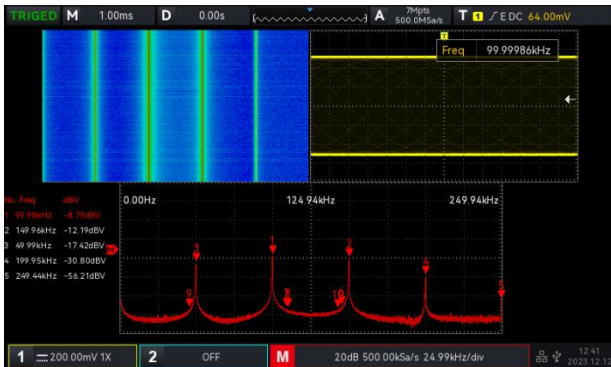


## Remote control via Web
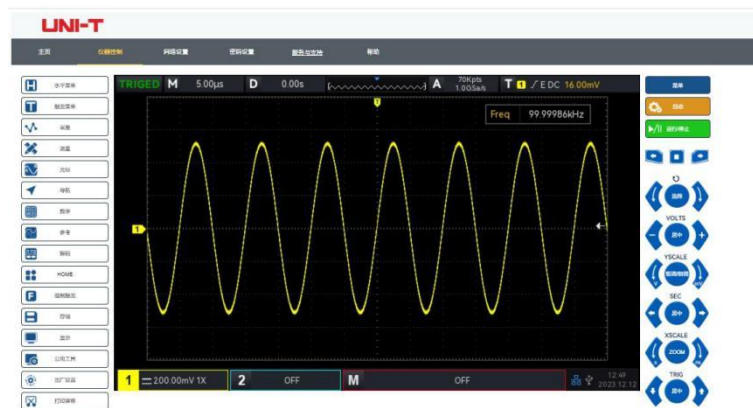


Built-in Web Server can remote control, observe waveform, acquire the measured results of the oscilloscope through the browser. It can be applied to the scenario of remote monitoring, telecommuting and data sharing.

It can realize cross-platform control without installing driver software and host computer software. UPO1002 series embedded virtual control panel and oscilloscope panel is exactly the same, support PC web layout, and it is more simple and convenient to use.

# Technical Index

All specifications are guaranteed except those marked "TYPICAL".

Unless otherwise stated, all technical index are applicable to probes with attenuation switches set to 10× and UPO1000 series digital phosphor oscilloscope. In order to achieve these specifications, the oscilloscope must satisfy the following two conditions at first.

- The instrument must operate continuously for more than 30 minutes at the specified operating temperature.
- If the operating temperature range reaches or exceeds 5 degrees Celsius, the system function menu must be opened to perform the self-calibration function.

| Brand | UNIT UPO1002 Series |
|---|---|
| Model | UPO1102<br>UPO1202 |
| Sampling methods | Real-time sampling |
| Acquisition mode | Sampling, Peak detection, High resolution, Averaging |
| Real time sampling rate | 1GSa/s |
| Average | Average: 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096 ,8192 |
| Maximum Memory Depth | 56 Mpts |
| Coupling | DC, AC, GND |
| Impedance | (1 MΩ± 2%) ‖ (16 pF± 3 pF) |
| Probe attenuation | 0.001×, 0.01×, 0.1×, 1×, 10×, 100×, 1000×, 2000×,Custom |
| Max Input voltage | 135V$_{RMS}$ |
| **Vertical system** | |
| Bandwidth (-3 dB) | UPO1102: DC to 100 MHz<br>UPO1202: DC to 200 MHz |
| Single bandwidth | UPO1102: DC to 100 MHz<br>UPO1202: DC to 200 MHz |
| Vertical Resolution | 8-bit |
| Vertical Scale | 500 µV/div to 20 V/div |
| Offset range | ±8 div |
| Bandwidth Limit | 20 MHz |

| | |
|---|---|
| Low frequency response (AC coupling, -3dB) | ≤5 Hz (On the BNC) |
| Rise time | UPO1102: ≤3.5ns<br>UPO1202: ≤1.8ns<br>(The typical rising time of 1 mV/div and 2 mV/div is 2 .0ns) |
| DC Gain Accuracy | ±3% Full scale |
| Channel-to-channel isolation | DC to maximum bandwidth: >40 dB |
| **Horizontal system** | |
| Time base Scale | 1 ns/div to 1000 s/div<br>(Display current sampling rate, storage depth) |
| Time base accuracy | ≤ ± ( 50 + 2 × Service life) ppm |
| Scope of delay | Pre-trigger (negative delay) : ≥1 screen width<br>Post-trigger (positive delay) : 1 s to 10s |
| Display Format | Y-T,X-Y, Roll |
| Number of X - Y | 1 |
| Hardware real-time waveform recording and playback | 120,000 frames |
| Waveform Capture Rate | 100,000 wfms/s |
| Time base mode | Y-T, default |
| | X-Y, CH1-CH2 |
| | Roll, time base ≥ 50 ms/div, automatically enter or exit Roll mode by adjusting the horizontal time base knob |
| Multi-Scopes 2.0 | Number of independent time base channels: 2<br>Each channel can be displayed independently and the time base can be adjusted independently |
| **Trigger** | |
| Trigger level range | Inside: ± 5 Spaces from center of screen<br>External: EXT ± 7 V |
| Trigger Mode | Auto, Normal, Single |
| Hold off Range | 100 ns to 10 s |

| Trigger coupling | 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 trigger

| Slope | Rise, Fall, Any |
| Source | CH1, CH2, AC Line, EXT |

### Runt trigger

| Pulse width conditions | >, <, <>, none |
| Polarity | +wid , -wid |
| Pulse width range | 8 ns to 10 s |
| Source | CH1, CH2 |

### Window trigger

| Type | Rise, Fall, Any |
| Trigger position | Enter, Exit, Time |
| Time | 8 ns to 10 s |
| Source | CH1, CH2 |

### Nth edge trigger

| Edge type | Rise, Fall |
| Free time | 8 ns to 10 s |
| Edge number | 1 to 65535 |
| Source | CH1, CH2 |

### Delay trigger

| Edge type | Rise, Fall |
| Delayed type | >, <, <>, none |
| Delay time | 8 ns to 10 s |
| Source | CH1, CH2 |

### Timeout trigger

| Edge type | Rising, Falling, Any |

| Timeout | 8 ns to 10 s |
|---|---|
| Source | CH1, CH2 |
| **Pattern trigger** | |
| Pattern Setting | H, L, X, Rise, Fall |
| source | CH1, CH2 |
| **Duration trigger** | |
| Type set | H, L, X |
| Trigger condition | >, <, <> |
| Duration | 8 ns to 10 s |
| Source | CH1, CH2 |
| **Setup hold trigger** | |
| Edge type | Rise, Fall |
| Data type | H, L |
| Setup time | 8 ns to 1s |
| Hold time | 8 ns to 1 s |
| Source | CH1, CH2 |
| **Pulse trigger** | |
| Polarity | +Wid , -Wid |
| Limiting conditions | >, <, <> |
| Pulse width | 2 ns to 4 s |
| Source | CH1, CH2, AC Line, EXT |
| **Slope trigger** | |
| Conditions of the slope | Positive slope, Negative slope |
| Limiting conditions | >, <, <> |
| Time set | 8 ns to 1s |
| Source | CH1, CH2 |
| **Video trigger** | |
| 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) |
| Source | CH1, CH2 |
| **Decoding** | |
| Types of decoding | RS232/UART, I2C, SPI |

| | |
|---|---|
| Decoding the number | 1 |
| **RS232/UART trigger** | |
| Trigger condition | Start Frame, Frame Error, Check Error, Data |
| Baud rate | 2400 bps, 4800 bps, 9600 bps, 19200 bps, 38400 bps, 57600 bps, 115200 bps, Custom |
| Data bits wide | 5 bits, 6 bits, 7 bits, 8 bits |
| Source | CH1, CH2 |
| **I²C trigger** | |
| Trigger condition | Start, Restart, Stop, Loss confirmation, Address, Data, Address& Data |
| Address bits wide | 7 bits, 10 bits |
| Address range | 0 ~ 7F, 0 ~ 3FF |
| Bytes | 1 to 5 |
| Trigger condition | Start, Restart, Stop, Loss confirmation, Address, Data, Address& Data |
| Source | CH1, CH2 |
| **SPI trigger** | |
| Trigger condition | Idle, Idle& Data, SS, SS& Data |
| Free time | 100 ns to 10 s |
| Data bits | 4 bits to 32 bits |
| Data set | H, L, X |
| Edge of the clock | Rise, Fall |
| Source | CH1, CH2 |
| **Measure** | |
| Cursor | Cursor Manual mode: Voltage difference between cursors (△V) Time difference between cursors (△T) Inverse of △T (Hz) (1/△T) |
| | Trace mode: waveform point voltage value and time value |
| Allows the cursor to be displayed during automatic measurements | Allow |
| Automatic measurement | 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 |
| Measuring range | Screen or cursor |
| Measurement statistics | Mean, maximum, minimum, standard deviation and number of measurements |
| Frequency meter | 6 digits hardware frequency meter |
| **Mathematical operations** | |
| Waveform calculation | A+B, A-B, A×B, A/B, FFT, Editable advanced operations (Log, Exp, Sin, Cos, Tan, Sqrt), Logical operations |
| Maximum FFT points | 1M points |
| FFT window type | Rectangle, Hanning, Blackman, Hamming, FlatTop |
| FFT display | Split screen, Fullscreen, Independent, WaterFall-1, WaterFall-2 |
| FFT vertical scale | Vrms, dBV |
| FFT | 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 |
| Mathematical function | Sin, Cos, Sinc, Tan, Sqrt, Exp, Log, ln, Floor, ABS, Acos, Asin, Atan, Sinh, Tanh, Ceil, Cosh, Fabs |
| **Storage** | |
| Set | Inside and Outside |
| Waveform | Inside and Outside |
| Bitmap | External USB memory, and can store related parameter information. |
| **Display** | |
| Display type | 7-inch TFT |
| Resolution of display | 800×480 |
| Display color | 24 - bit true colors |
| Afterglow setting | Minimum value, 50ms, 100ms, 200ms, 500ms, 1s, 2s, 5s, 10s, 20s, infinite, DSO |

| | |
|---|---|
| Display type | Point, Vector |
| **Interface** | |
| Standard | USB Host, USB Device, LAN, EXT Trig, AUX Out(Trig Out/,Pass/Fail, DVM) |
| **General technical specifications** | |
| **Probe compensator output** | |
| Output voltage | About 3Vp-p |
| Frequency | 10 Hz,100 Hz,1 kHz,10 kHz |
| **Supply voltage** | |
| Power supply voltage | 100 ~ 240 VAC (Fluctuations: ±10%), 50 Hz/60 Hz |
| | 100 ~ 120 VAC (Fluctuations: ±10%), 400 Hz |
| power | 75 W Max |
| Fuse | 3A，T class，250 V |
| **Environment** | |
| Temperature range | Operation: 0°C~+40°C <br> No operation: -20°C~+70°C |
| Cooling method | Forced fan cooling |
| Humidity range | Operation: +35°C ≤ 90% relative humidity <br> No operation: +35 °C to +40 °C ≤ 60% relative humidity |
| Altitude | Operation: below 3000 meters <br> Non-operational: up to 15,000 m |
| Pollution degree | 2 |
| Operating environment | Indoor use |
| **Specifications** | |
| Size (Width x height x depth) | 336mm×164mm×105mm |
| Weight | <2.5 kg |
| **Adjust the interval** | |
| Calibration interval is recommended | One 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, 150 kHz-30 MHz |
| Radiated disturbance | CISPR 11/EN 55011 | CLASS B group 1, 30 MHz-1 GHz |
| 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 | 0 V/m（80 MHz to 1 GHz） 3 V/m（1.4 GHz to 2 GHz） 1 V/m（2.0 GHz to 2.7GHz） |
| Electrical fast transients (EFT) | IEC 61000-4-4/EN 61000-4-4 | 2 kV (Input AC Power Ports) |
| Surges | IEC 61000-4-5/EN 61000-4-5 | 1 kV(Line to line) 2 kV(Line to ground) |
| Radio-frequency continuous conducted Immunity | IEC 61000-4-6/EN 61000-4-6 | 3V,0.15-80MHz |
| Voltage dips and interruptions | IEC61000-4-11/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 | |

# Accessories and Option

## Order information

| | Description | Order No. |
|---|---|---|
| Model | UPO1102 (100 MHz, 2 analog channels) | UPO1102 |
| | UPO1202 (200 MHz, 2 analog channels) | UPO1202 |
| Standard accessories | Power cord that conforms to the standard of the destination country x1 | |
| | USB data cable x1 | UT-D14 |
| | Passive probe (200 MHz/100 MHz) x2 | UT-P05, UT-P04 |
| Optional accessories | High voltage probe | UT-V23, UT-P20, 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 |
| | Bandwidth upgrade to 200M | UPO1002X-1MT2M |

Note: For all hosts, accessories and options, please order from your local UNI-T distributor.

UNI-T oscilloscope probes and accessories supported by UPO1002 series

## Passive probe

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

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

## Current Probe

| UT-P40 | Current probe | DC ~ 100kHz<br>Range 50 mV/A, 5 mV/A<br>Current range 0.4A ~ 60A<br>Maximum operating voltage 600 Vrms<br>Oscilloscope compatibility: UNI-T all series |
| --- | --- | --- |
| UT-P41 | Current probe | DC ~ 100 kHz<br>Range 100 mV/A, 10 mV/A<br>Current range 0.4A ~ 100A<br>Maximum operating voltage 600 Vrms<br>Oscilloscope compatibility: UNI-T all series |

| UT-P42 | Current probe | DC ~ 150 kHz |
| --- | --- | --- |
|  | | Range 100 mV/A, 10 mV/A |
| | | Current range 0.4A ~ 200A |
| | | Maximum operating voltage 600 Vrms |
| | | Oscilloscope compatibility: UNI-T all series |
| UT-P43 | Current probe | DC ~ 25 MHz |
|  | | Range 100 mV/A |
| | | Maximum measurement current 20A |
| | | Rise time 14ns |
| | | Oscilloscope compatibility: UNI-T all series |
| UT-P44 | Current probe | DC ~ 50 MHz |
|  | | Range 50 mV/A |
| | | Maximum measurement current 40A |
| | | Rise time 7ns |
| | | Oscilloscope compatibility: UNI-T all series |

## Active Probe

| Model | Type | |
| --- | --- | --- |
| UT-P30 | High-Voltage Differential Probes | DC ~ 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 ~ 100 MHz |
|  | | Attenuation ratio 1000:1,100:1 |
| | | Input differential voltage ±1.5k Vpp |
| | | Oscilloscope compatibility: UNI-T all series |
| UT-P32 | High-Voltage Differential Probes | DC ~ 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 ~ 120 MHz<br>Attenuation ratio 100:1,10:1<br>Input differential voltage ±14 kVpp<br>Oscilloscope compatibility: UNI-T all series |
|---|---|---|
| UT-P35 | High-Voltage Differential Probes | DC ~ 50 MHz<br>Attenuation ratio 500:1,50:1<br>Rise time 7ns<br>Accuracy 2%<br>Input differential mode voltage<br>1/50:130 (DC+peak AC)<br>1/500:1300 (DC+peak AC)<br>Input common mode voltage<br>100Vrms, CATI<br>600Vrms, CATII<br>Oscilloscope compatibility: UNI-T all series |
| UT-P36 | High-Voltage Differential Probes | DC ~ 50 MHz<br>Attenuation ratio 2000:1, 200:1<br>Rise time 3.5ns<br>Accuracy 2%<br>Input differential mode voltage<br>1/200:560 (DC+peak AC)<br>1/2000:5600 (DC+peak AC)<br>Input common mode voltage<br>2800 Vrms, CATI<br>1400 Vrms, CATII<br>Oscilloscope compatibility: UNI-T all series |

# Warranty

Three-years warranty, excluding probes and accessories. Please visit
https://instruments.uni-trend.com/list_190/65.html to learn more information. To protect your
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# Contact Us

UNI-T Technical Support Hotline: 400-876-7822

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