



GPS-

# 1104XU

Engineered to give you quality, industry proven technology at an unbelievably low price

The GPS-1104XU is a 100MHz, 4CH Super Phosphor Oscilloscope and has a maximum sample rate of 1GSa/s and a maximum record length of 14Mpts. For ease-of-use, the most commonly used functions can be accessed with its user-friendly front panel design. The series employs the well-known SPO (Super-Phosphor Oscilloscope) technology that provides excellent signal fidelity and performance. It comes with an innovative digital trigger system with high sensitivity and low jitter, and a waveform capture rate of 400,000 frames/sec (sequence mode). The instrument also employs a 256-level intensity grading display function and a colour temperature display mode not found in other models in this class.

Our latest oscilloscope offering supports multiple powerful triggering modes including serial bus triggering. Serial bus decoding for IIC, SPI, UART, CAN, and LIN bus types are included. The X-U models also include History waveform recording and sequential triggering that enable extended waveform recording and analysis. Another powerful addition is the new 128k point FFT math function that gives the GPS-1104XU very high frequency resolution when observing signal spectra. The digital design includes a hardware co-processor that delivers measurements quickly and accurately without slowing acquisition and front-panel response. GPS-1104XU also supports searching and navigating. The features and performance cannot be matched anywhere else in this price class.



## Key Features

- Serial decoder included
- Deep memory (14 Mpts)
- Innovative SPO technology
- Gate and Zoom measurement
- Advanced math functions and FFT
- Masked PASS/FAIL tests
- Auto measurements with statistics

## Ideal for

- Industrial power design, troubleshooting, installation and maintenance
- Electronics design, troubleshooting, Installation and maintenance
- Circuit design & debug
- Educational lab & training institution
- Repair & service
- Production test and quality inspection

[www.gpslimited.com/1104XU](http://www.gpslimited.com/1104XU)  
For all enquiries, Tel: +44 (0) 208 964 3600  
Email: [info@gpslimited.com](mailto:info@gpslimited.com)

## Technical Specifications

Model	GPS-1104XU
Bandwidth	100 MHz
Sample rate (Max.)	1 GSa/s (One channel), 500 MSa/s (two channels), 250 MSa/s (four channels)
Channels	4
Coupling	DC, AC, GND
Impedance	DC: [1 MΩ±2%]    [15 pF ±2 pF]
Memory depth (Max.)	14 Mpts
Waveform capture rate (Max.)	100,000 wfms/s (normal mode), 400,000 wfms/s (sequence mode)
Trigger type	Edge, Slope, Pulse Width, Window, Runt, Interval, Dropout, Pattern, Video
Serial Trigger and decoder	IIC, SPI, UART, CAN, LIN
Vertical Resolution	8-bit
Vertical Scale	1 mV/div – 10 V/div (1-2-5 sequence)
Time-base Scale	2 ns/div-100 s/div
I/O	USB Host, USB Device, LAN, Pass/Fail, Trigger Out
Probe	4 pcs passive probe PP510
Display	7-inch TFT-LCD (800x480)

### Standard Accessories

USB cable [1]  
Passive probe [4]  
Power adaptor [1]  
Quick start guide [1]

### Input Voltage

100 ~ 240 Vrms 50/60Hz  
100 ~ 120 Vrms 400Hz

### Power

50W Max

### Languages

English, French, Japanese, Korean, German, Russian,  
Italian, Portuguese

## General Specifications

### Dimensions

312x 133 x 151mm (w x d x h) approx.

### Mass

2.6kg (main unit) / 3.8kg (with packaging)

### Operating:

0°C ~ 40°C (storage -20°C to 60°C)  
Relative humidity ≤ 85%  
3000m (operating), 15000m (non-operating)

### Standard

Meets EMC directive (2014/30/EU),  
meets or exceeds IEC 61326-  
1:2012/EN61326-1:2013 (Basic)

### Safety

UL 61010-1:2012/R:2018-11;  
CAN/CSA-C22.2 No. 61010-  
1:2012/A1:2018-11. UL 61010-2-  
030:2018; CAN/CSA-C22.2 No. 61010-  
2-030:2018. UL 61010-2-033:2020.

### Services

1-year warranty (subject to product  
registration with GPS Ltd)

Visit [www.gpslimited.com/register-product](http://www.gpslimited.com/register-product)  
Service and calibration available.

Please contact for more information

[www.gpslimited.com/1104XU](http://www.gpslimited.com/1104XU)  
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