

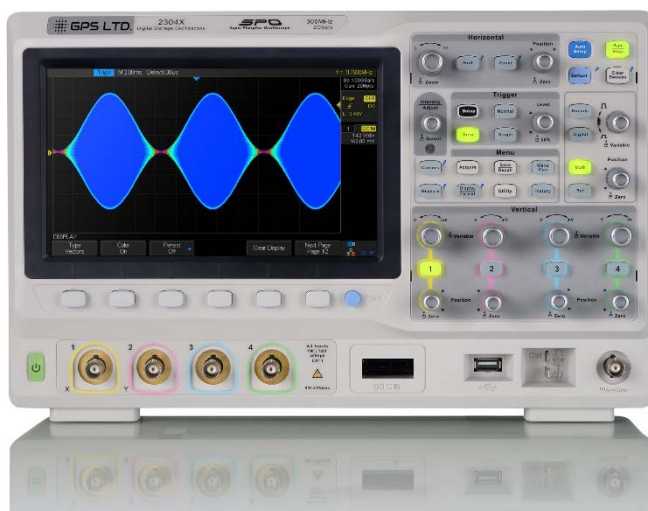


GPS

# 2000X series

Offering a new approach to oscilloscope architecture to accurately reconstruct a signal

The new generation GPS Super Phosphor Oscilloscopes offer unique acquisition and display capabilities making this technology the most useful for engineers looking witness transient events in digital systems such as runt pulses, glitches and transitions errors. The oscilloscope directly rasterises the waveform data and directly copies this to the display memory. The result is an enhanced real-time display and update that is not constrained by the usual oscilloscope serial architecture. The GPS-2000X series faithfully emulate the best display attributes of an analog oscilloscope displaying the signal in three dimensions: time, amplitude and the distribution of amplitude over time (intensity grading display), all in real-time. With its large clear high-resolution display and one-button shortcuts for user customisation, the GPS-2000X series really delivers an excellent instrument for capturing signal details, intermittent events and dynamic characteristics.



## Key Features

- Real-time sampling rate up to 2GSa/s
- Record length of 140Mpts
- Waveform capture rate up to 140,000 wfms/s
- New generation of SPO technology
- Supports 256-level intensity grading and colour temperature display
- Intelligent trigger: Edge, Slope, Pulse, Window, Runt, Interval, Time out (Dropout), Pattern
- Video trigger, supports HDTV

## Ideal for

- Automotive
- Aerospace
- Drivers and electrical machines
- Military
- Utilities; electrical, water and gas

www.gpslimited.com/2000X  
 For all enquiries, Tel: +44 (0) 208 964 3600  
 Email: info@gpslimited.com

## Technical Specifications

Model	GPS-2072X (2CH) GPS-2074X (4CH)	GPS-2102X (2CH) GPS-2104X (4CH)	GPS-2202X (2CH) GPS-2204X (4CH)	GPS-2302X (2CH) GPS-2304X (4CH)
Bandwidth	70MHz	100MHz	200MHz	300MHz
Sample Rate (Max)	2 GSa/s			
Channels	2+EXT 4+EXT			
Memory Depth (Max)	70 Mpts/CH (Dual-Channel); 140 Mpts/CH (Single-Channel)			
Waveform Capture Rate	140,000 wfm/s (normal mode), 400,000 wfm/s (sequence mode)			
Trigger Type	Edge, Slope, Pulse width, Window, Runt, Interval, Dropout, Pattern, Video			
Serial Trigger (Optional)	I2C, SPI, UART/RS232, CAN, LIN			
Decode Type (Optional)	I2C, SPI, UART/RS232, CAN, LIN			
Waveform Generator (Optional)	Single Channel, Max. Frequency up to 25 MHz, 125 MSa/s sampling rates, 16 kPts wave length GPS-1202X+ Supported (Standard); GPS-1202X Not supported			
16 Digital Channels (Optional)	Maximum waveform capture rate up to 500 MSa/s, Record length up to 140 Mpts/CH GPS-1202X+ Supported (Optional); GPS-1202X Not supported			
Logic Probe	SPL1016 (Optional)			
I/O	USB Host, USB Device, LAN, Pass/Fail, Trigger Out, 1 kHz Cal			
Display	8-inch TFT LCD (800x480)			

### Standard Accessories

EasyscopeX© software  
 USB cable  
 Passive probes PP215 (2/4 pcs)  
 220V AC EU power cord (unit is 220V and 110V selectable)  
 Standard Certification  
 Certificate of Calibration

### Power

100 ~ 240 VAC, CAT II, Auto selection; 60W Max

### Languages

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

### EMC

2004/108/EC  
 Execution Standard EN 61326-1:2006  
 EN 61000-3-2:2006 + A2:2009  
 EN 61000-3-3:2008

### Safety

2006/95/EC  
 Execution Standard EN 61010-1:2010/EN 61010-2-030:2010

## General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-2000X	<i>Please refer to website for full range</i>	n/a
GPS-2000X-FG	Built-in 25MHz Function/Arbitrary waveform generator	920295
GPS-2000X-DC	I2C, SPI, UART/RS232, CAN, LIN Decode key	920311
GPS-2000XLA	16 Channels MSO (Software)	920384
SPL1016	16 Digital Channels Logic Probe	920395

### Dimensions

340 x 123 x 184mm / 13 x 5 x 7" (w x d x h) approx.

### Mass

3.3kg/7.2lbs approx.

### Operating

10°C ~ 40°C  
 85%RH, 40°C, 24hours  
 ≤3000m

### 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

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