

OD-624B - PROFESSIONAL RANGE



200 MHz
PROFESSIONAL RANGE

4
CHANNELS

1 GS/s
SAMPLING RATE

8" COLOR TFT
MULTITOUCH

PROMAX OD-624B is a digital storage oscilloscope featuring up to 200 MHz of bandwidth and up to 1 GS/s real time sample rate. This professional range digital oscilloscope features a 8" multitouch screen.

They include advanced functions such as several trigger modes, more than 30 automatic measurements, waveform storage, USB connectivity, customized math functions and decoding of I2C, SPI and other buses.

*Their compact design and light weight makes these **PROMAX** digital oscilloscopes ideal not only for desktop applications such as circuit design or production lines but also for those cases that demand to carry the instrument from one location to another: automobile maintenance and testing, education and training, etc.*

- ✓ Bandwidth: 200 MHz
- ✓ Sampling rate: 1 GS/s
- ✓ Record length up to 40 M
- ✓ 4 channels
- ✓ Multitouch color high resolution 8" LCD-TFT screen, 800x600 pixels
- ✓ 32 automatic measurements. Math functions
- ✓ Communication interfaces: USB 2.0, USB for external storage, Trigger, LAN, VGA



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SPECIFICATIONS	OD-624B DIGITAL STORAGE OSCILLOSCOPE - PROFESSIONAL RANGE
Bandwidth	200 MHz
Sample rate	1 GS/s
Horizontal scale (s/div)	From 1 ns/div to 1000 s/div, 1-2-5 steps
Rise Time (at input, typical)	≤ 1.7 ns
Trigger type	Edge, Pulse, Video, Slope, Runt, Window, Timeout, Nth Edge, Logic, I2C, SPI, RS-232, CAN
Channels	4
Display	8" color multitouch screen LCD, TFT display, 800x600 pixels
Input impedance	1 M Ω ± 2 %, in parallel with 10 pF ± 5 pF, 50 Ω ± 1 %
Channel isolaton	100:1 (50 Hz), 40:1 (10 MHz)
Max input voltage	1 M Ω ≤ 300 V _{RMS}
DC gain accuracy	± 3 %
Record length	40 M
Probe attenuation factor	From 0.001x to 1000x, 1-2-5 steps
Low Frequency response	≥ 5 Hz (at input, AC coupling, -3 dB)
Sampling rate / Relay time accuracy	± 1 ppm
Interpolation	sin(x)/x, x
Interval (ΔT) accuracy (full bandwidth)	Single: $\pm(1$ interval time + 1 ppm x reading + 0.6 ns) Average > 16: $\pm(1$ interval time + 1 ppm x reading + 0.4 ns)
Input coupling	DC, AC and GND
Vertical resolution (A/D)	8 bits resolution (4 channels simultaneously)
Vertical sensitivity	1 mV/div - 10 V/div (at input)
Trigger mode	Auto, Normal, Single
Trigger level	± 6 divisions from screen center
Line / Field frequency (video)	NTSC, PAL and SECAM
Cursor measurement	ΔV , ΔT , ΔV & ΔT between cursors and auto-cursors
Automatic measurements	V _{PP} , V _{AVERAGE} , V _{RMS} , V _{MAX} , V _{MIN} , V _{TOP} , V _{BASE} , V _{AMP} , Frequency, Period, Overshoot, Preshoot, Rise time, Fall time, Delay A \rightarrow B \uparrow , Delay A \rightarrow B \downarrow , +Width, -Width, +Duty, -Duty, Fase, RMS _{CYCLE} , RMS _{CURSOR} , Phase A \rightarrow B \uparrow , Phase A \rightarrow B \downarrow , +Pulse count, -Pulse count, Rise Edge Count, Fall Edges Count, Area, Cycle Area
Waveform math	+, -, x, \div , FFT, FFT _{RMS} , FFT, Integral, Differential, Square, User defined function, Digital filter (low pass, high pass, band pass, band reject)
Waveforms storage	100 waveforms
Lissajous figure	Full bandwidth. Phase difference: ± 3 degrees
Communication interface	USB host, USB device, Trigger output (Pass/Fail), LAN, VGA
Bus decoding	I2C, SPI, RS-232, CAN
Power supply	From 100 to 240 V, 50/60 Hz, CAT II
Dimensions	380 (W.) x 177 (H.) x 90 (D.) mm
Weight (without package)	2.6 kg
Accessories	Passive probe (x4), Power cord, USB cable, Quick reference guide

DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT PRIOR NOTICE 11-24