



8" COLOR TFT
MULTI-TOUCH
(MODEL DEPENDENT)



Digital oscilloscopes OD-600 series

Built-in logic analyser. Multi-touch screen. Up to 200 MHz, 4 channels and 2 GS/s. Professional and economy ranges.

- Bandwidth 200, 100, 60 and 30 MHz. Up to 4 input channels.
- Two instruments in one: Digital storage oscilloscope + Logic analyser.
- Sampling rate from 500 MS/s up to 2 GS/s (real time).
- Up to 32 automatic measurements.
- Math functions.
- Multi-touch screen 8" color TFT display.
- FFT spectrum analyser.
- USB connections for PC computers and USB storage devices.
- Pass/Fail, VGA, LAN and RS-232 ports.
- Free data management software.

OL-612 100 MHz oscilloscope + Logic analyser



TWO INSTRUMENTS IN ONE:
100 MHz DIGITAL OSCILLOSCOPE + LOGIC ANALYSER

ONE OF THE MOST ADVANCED INSTRUMENTS AVAILABLE TODAY FOR DIGITAL LABORATORIES. HIGHER PERFORMANCE AND LESS COST.

Double channel digital oscilloscope

- Bandwidth: 100 MHz.
- Real time sampling rate: 2 GS/s.
- 19 automatic measurements.
- Math functions.

16 channel logic analyser with free data analysis software for PC

- Bandwidth: 100 MHz.
- Sampling rate: From 20 S/s to 1 GS/s.
- 16 digital channels.

LOGIC ANALYSER
FREE PC SOFTWARE FOR SIGNAL ANALYSIS

100 MHz
HIGH PERFORMANCE

2 GS/s
SAMPLING RATE

Oscilloscopes up to 200 MHz and 2 GS/s



FOUR DIGITAL STORAGE OSCILLOSCOPE MODELS DESIGNED TO SUIT ALL BUDGETS.

- Bandwidth: From 30 to 200 MHz (*).
- Real time sampling rate: From 500 MS/s to 2 GS/s (*).
- Channels: 2 + 1 (external).
- Record length: Up to 40 M (*).
- Automatic measurements.
- Math functions.
- 8" high resolution LCD TFT screen (800x600 pixels).
- Connectivity: USB (mass storage devices and PC computers), Pass/Fail port, LAN, VGA.

200 MHz
PROFESSIONAL RANGE

100 MHz
PROFESSIONAL RANGE

60 MHz
ECONOMY RANGE

30 MHz
ECONOMY RANGE

(* According to model. Please refer to quick selection guide on next page or check the specifications table (last page).

OD-624B Multi-touch 200 MHz oscilloscope

**STUNNING TECHNICAL FEATURES.
;MUCH MORE THAN JUST A TOUCH
SCREEN OSCILLOSCOPE!**

- Bandwidth: 200 MHz.
- Real time sampling rate: 1 GS/s.
- Record length: 40 M.
- Capture rate: 70.000 waveforms per second.
- 32 automatic measurements.
- User-defined math functions.
- FFT points (selectable width and resolution).
- Low background noise.
- 8" touch screen high resolution LCD display: 800x600 pixels.
- Multiple connectivity: USB storage, PC connection (USB), VGA, LAN, Trigger (Pass/Fail).
- Free PC software included.



200 MHz
HIGHER BANDWIDTH

4
CHANNELS

1 GS/s
SAMPLING RATE

PC
SOFTWARE

8" COLOR TFT
MULTI-TOUCH



Quick selection guide

PROFESSIONAL RANGE

- OL-612** 100 MHz and 2 GS/s digital oscilloscope. Built-in Logic Analyser.
- OD-624B** 200 MHz and 1 GS/s digital oscilloscope. 4 channels. Multi-touch.
- OD-620B** 200 MHz and 1 GS/s digital oscilloscope. 2+1 channels.
- OD-610** 100 MHz and 1 GS/s digital oscilloscope. 2+1 channels.

ECONOMY RANGE

- OD-606** 60 MHz and 500 MS/s digital oscilloscope. 2+1 channels.
- OD-603** 30 MHz and 500 MS/s digital oscilloscope. 2+1 channels.

ECONOMY RANGE
PROFESSIONAL RANGE

SPECIFICATIONS	OD-603	OD-606	OD-610	OD-620B	OD-624B	OL-612
Bandwidth	30 MHz	60 MHz	100 MHz	200 MHz	200 MHz	100 MHz
Sample rate	500 MS/s		1 GS/s	1 GS/s	1 GS/s	2 GS/s
Horizontal scale (s/div)	4 ns to 100 s/div 1-2-4 steps	5 ns to 100 s/div 1-2-5 steps	4 ns to 100 s/div 1-2-4 steps	2 ns to 1000 s/div 1-2-5 steps	1 ns to 1000 s/div 1-2-5 steps	2 to 100 s/div 1-2-5 steps
Rise Time	≤ 11 ns	≤ 5.8 ns	≤ 3.5 ns		≤ 1.7 ns	≤ 3.5 ns
Trigger	Edge, Pulse, Video, Slope	Edge, Pulse, Video, Slope, Alternate		Edge, Pulse, Video, Slope, Runt, Window, Timeout, Nth Edge, Logic, I2C, SPI, RS-232, CAN		Edge, Pulse, Video, Slope, Alternate
Channel	2 + 1 (external) channels				4	2 + 1 (external)
Color TFT display	8", 800x600 pixels				8" multi-touch 800x600 pixels	8", 640x480 px
Aislamiento de canal	100:1 (50 Hz), 40:1 (10 MHz)					
Máxima tensión de entrada	400 V (PK - PK) (DC + AC PK - PK)			1 MΩ ≤ 300 V _{RMS} 50 Ω ≤ 5 V _{RMS}	1 MΩ ≤ 300 V _{RMS}	400 V PK - PK (DC + AC PK - PK)
DC gain accuracy	± 3 %					
Record length	10 K	1M (10M optional)	10 M	40 M		2 M
Probe attenuation factor	1x, 10x, 100x, 1000x			0,001x to 1000x, 1-2-5 steps		1x, 10x, 100x, 1000x
Sample Rate / Relay Time	± 100 ppm			± 1 ppm		± 100 ppm
Interpolation	sin(x) / x					
Input coupling	CC, CA y Tierra					
A/D converter	8 bits resolution (2 channels simultaneously)			8 bits (4 ch simul.)		8 bits (2 can simul.)
Vertical sensitivity	5 mV to 10 V/div	2 mV to 10 V/div		1 mV to 10 V/div		2 mV to 10 V/div
Trigger mode	Auto, Normal, Single					
Line / Field frequency (video)	NTSC, PAL and SECAM					
Cursor measurement	ΔV and ΔT between cursors		ΔV, ΔT, ΔV and ΔT between cursors and auto-cursors			ΔV and ΔT
Automatic measurements	VPP, VAVG, VRMS, VMAX, VMIN, VTOP, VBASE, VAMP, Frequency, Period, Overshoot, Preshoot, Rise time, Fall time, Delay A→B _↑ , Delay A→B _↓ , +Width, -Width, +Duty, -Duty					
Additional automatic measurements (OD-620B)	Phase, RMS _{CYCLE} , RMS _{CURSOR} , +Pulse count, -Pulse count, Rise Edge Count, Fall Edges Count, Duty Cycle					
Additional automatic measurements (OD-624B)	Fase, RMS _{CYCLE} , RMS _{CURSOR} , Phase A→B _↑ , Phase A→B _↓ , +Pulse count, -Pulse count, Rise Edge Count, Fall Edges Count, Area, Cycle Area					
Waveform math	+, -, x, ÷, FFT					
Additional waveform math (OD-624B)	FFT _{RMS} , FFT, Integral, Differential, Square, User defined function, Digital filter (low pass, high pass, band pass, band reject)					
Waveform storage	15 waveforms		100 waveforms		4 waveforms	
Lissajous figure	(Full bandwidth). Phase difference: ± 3 degrees					
Communication interface	USB host, USB device, LAN, RS-232			USB host, USB device, Trigger (Pass/Fail), LAN, VGA		USB host, USB device, RS-232 (optional)
Power supply	From 100 to 240 V CA, 50/60 Hz, CAT II					
Dimensions (W. x H. x D.) mm	348 x 170 x 78			340 x 177 x 90	380 x 177 x 90	370 x 180 x 120
Weight (without package)	1.5 kg aprox.			2.6 kg. aprox		2.2 kg. aprox
Included accessories	Passive probe (x2), Power cord, USB cable, Quick guide				Passive probe (x4), Power cord, USB cable, Quick reference guide	Passive probe (x4), Power cord, USB cable, Quick reference guide, CD-ROM

DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT PRIOR NOTICE. 02-23

SPECIFICATIONS	LOGIC ANALYSER (INCLUDED IN OL-612)		
Sample rate (real time)	From 20 S/s to 1 GS/s	Threshold level	From -6 V to +6 V
Bandwidth	200 MHz	Input signal range	From -30 V to +30 V
Channel	16	Data search	Available
Record length	Max 4M per channel	Data system	Binary, Decimal, Hex
Input impedance	600 kΩ ± 5% // 15 ± 5 pF	Digital filter	0, 1, 2 optional
Trigger mode	Edge, Bus, Pattern, Sequential queue data, Distributed queue, Data width queue	Setting storage	Available
Trigger position setting	Pre-trigger, Mid-trigger and Re-Trigger	USB flash disk storage	Available