METRAVI
Setting Trends. Showing the Way.

FOUR CHANNEL DIGITAL STORAGE OSCILLOSCOPE

DSO-6204

INTRODUCTION

The Metravi DSO-6204 Four-Channel Digital Storage Oscilloscope with touchscreen features 40M record length and a 70,000 wfms/s waveform refresh rate.

It has 200 MHz bandwidth and 1 GS/s sample rate. It features a large, colour display, good sampling rate and a large memory depth.

It serves as a Oscilloscope + Signal Generator + Multimeter + Data Logger + Frequency Counter + Decoder.

FEATURES

- 60MHz - 200MHz Bandwidth, 1GS/s sample rate
- 8-bit or 14-bit high resolution ADC
- 40M record length max 70,000 wfms/s waveform refresh rate
- Low back ground noise
- 8 inch, 800 x 600 high resolution LCD, multi-touch screen, more user-friendly operation experience
- SCPI, and LabVIEW supported
- Multi- trigger and bus decoding function
- Multi-interface integration - USB host, USB device, USB port for PictBridge, LAN, AUX, and VGA

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TECHNICAL SPECIFICATION

Bandwidth	200MHz	
Sample Rate	1GS/s	
Vertical Resolution	8bits	
Record Length	40M	
Waveform Refresh Rate	70,000 wfms/s	
Horizontal Scale (s/div)	1ns/div - 1000s/div, step by 1 - 2 - 5	
Rise Time (at input, typical)	≤1.7ns	
Channel	4	
Display	8" colour LCD, 800 x 600 pixels (optional 1024 x 768 pixels IPS display)	
Input Impedance	1MΩ ± 2%, in parallel with 15pF ± 5pF	
Channel Isolation	50Hz : 100 : 1, 10MHz : 40 : 1	
Max Input Voltage	1MΩ ≤ 300Vrms; 50Ω ≤ 5Vrms	
DC Gain Accuracy	±3%	
DC Accuracy	average≥16 : ±(3% reading + 0.05 div) for △V	
Probe Attenuation Factor	0.001X - 1000X, step by 1 - 2 - 5	
LF Respond (AC, -3dB)	≥10Hz (at input, AC coupling, -3dB)	
Sample Rate / Relay Time Accuracy	±2.5ppm	
Interpolation	sin(x) / x	
Interval (△T) Accuracy (full bandwidth)	Single: ±(1 interval time + 1ppm x reading + 0.6ns); Average > 16: ±(1 interval time + 1ppm x reading + 0.4ns)	
Input Coupling	DC, AC, and GND	
Vertical Sensitivity	1mV/div - 10V/div (at input)	
Trigger Type	Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I2C, SPI, RS232, and CAN (optional)	
Bus Decoding	I2C, SPI, RS232, and CAN (optional)	
Trigger Mode	Auto, Normal, and Single	
Vertical Range	±2V (1mv/div - 50mv/div), ±20V (100mv/div - 1V/div), ±200V (2V/div - 10V/div)	
Line / Field Frequency (video)	NTSC, PAL and SECAM standard	
Cursor Measurement	△V, and △T between cursors, △V and △T between cursors, and auto-cursors	
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Week RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase, Preshoot, Rise Time, Fall Time, +Width, -Width, +Duty, -Duty, Duty Cycle, Delay A→B↑, Delay A→B↓, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edge Count	
Waveform Math	+, -, *, / ,FFT, FFTrms, Intg, Diff, Sqrt, User Defined Function, digital filter (low pass, high pass, band pass, band reject)	
Waveform Storage	100 waveforms	
Lissajou's Figure	Bandwidth	full bandwidth
	Phase Difference	±3 degrees
Communication Interface	USB Host, USB Device, Trig Out (Pass/Fail), LAN port, VGA port (optional)	
Frequency Counter	Available	
Power Supply	100V - 240V AC, 50/60Hz, CAT II	
Power Consumption	< 15W	
Fuse	2A, T class, 250V	
Battery (optional)	3.7V, 13200mAh	

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TECHNICAL SPECIFICATION

Dimension	340 x 177 x 90 mm (LxWxH)
Weight	2.60 kg
LOGIC ANALYSER MODULE	
Sample Rate (real time)	20S/s - 1GS/s
Bandwidth	100MHz
Channel	16
Record Length	4M points
Input Impedance	660KΩ ± 5%, in parallel with 15 ± 5pF
Trigger Mode	Edge, Bus, State, Data Alignment, Data Width, and Distributed Queue
Trigger Position Setting	Pre-trigger, Mid-trigger, and Re-trigger
Threshold Voltage	±6V (4 settings)
Input Signal Range	±30V
Data Search	available
Data System	binary, decimal, and hex
Digital Filter	0, 1, 2 optional
Setting Storage	10 settings
USB Flash Disk Storage	available

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