



Hand-held Oscilloscope Model OX 9102 IV

Cat. #2150.32

2-Channel, 100 MHz

2 channel Digital Multimeter 8000 cts, FFT function and recording mode, and power measurement. Ideal for both laboratory and field use.

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CHANNELS	
Inputs / Bandwidth	2 Isolated channels
Input Impedance	1 MΩ ± 0.5 %, approx. 12 pF
INTERFACE	
Screen Specifications	Color 7-inch WVGA TFT LCD touch screen, 800 x 480 pixels
Display Mode	Vectors with interpolation - 2500 real acquisition points on screen
Traces On Screen	2 Traces + 2 References (split screen and full screen modes)
Front Panel Control	32 keys
Screen Control	Touch screen - ANDROID type icons and graphical commands
VERTICAL	
Vertical Sensitivity	16 ranges from 2.5 mV to 200 V Div and up to 156 μV Div om vertical zoom mode (12-bit converter) - Accuracy ± 2 %
Max Input Voltage	600 V CAT III (1000 V per Probix) from (50 to 400) Hz Probix connectors
Vertical Zoom	One click Winzoom system (direct graphical zoom onscreen) x 16 max
HORIZONTAL	
Time Base Speed	35 ranges from 1 ns/div Accuracy ± (50 ppm + 500 ps) oll mode from 100 ms to 200 s/div
Horizontal Zoom	One click Winzoom system (direct graphical zoom onscreen) x 100 max
TRIGGER	
Mode	Auto, Triggered, One-shot, Auto-level 50 % on all channels
Type	Edge, Pulse width (16 ns - 20 s), delay (48 ns - 20 s), counting (3 to 16,384 events) Continuous adjustment of Trigger position

For more details, download the datasheet or user manual at www.aemc.com

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Coupling	AC, DC GND, HFR, LFR, noise - Level and Hold-Off adjustable from 64ns to 15s
Autoset	Complete < 5 s with recognition of channels - Frequency > 30 Hz
Cursors	Two or three cursors: V and T with auto measurement: T1, T2, Dt, 1/Dt, dBV, Ph
DIGITAL MEMORY	
Max. Sampling Rate	2.5 GS/s in one-shot mode on each channel (100 GS/s max. in ETS mode) 12 bits resolution
Memory Depth	100 kpts per channel and file viewer in the manager
Memory Capacity	Internal = 1 GB to store the files: trace, text, configuration, math functions System memory: .pdf print files, .png image files + high-capacity removable microSD-Card: SD 2 GB, SDHC (4-32) GB and SDXC > 32 GB
GLITCH Mode	Duration \geq 2 ns – 500,000 Min/Max pairs
Display Modes	Envelope, vector, accumulation averaging (factors 2 to 64) XY (vector) and Y(f)=FFT
OTHER FUNCTIONS	
FFT Analyzer & Math Functions	FFT (Lin or Log) with measurement cursors - Functions, +, -, x, / and mathematical function editor
Automatic Measurement	Simultaneously with waveform, 20 automatic measurements per channel and on the 4 channels simultaneously with scroll
Multimeter Mode	2 channels, 8000 counts + Min/Max/Frequency/relative TRMS Time stamp graphic recording in logger mode
AC, DC, AC+DC Voltages	600 mV to 600 VRMS 800 mV to 800 VDC Accuracy 0.5 % Bandwidth 200 kHz
Power and PF	Active, Reactive, and Apparent power values plus Power Factor simultaneously with the U & I measurements
Resistance, Temperature, Capacitance, Frequency, and Diode Test on channel 1 only	
Acquisition	Duration: 20,000 s Interval: 0.2 s Files: 100,000 measurements
Harmonic Analyzer Mode	
Multi-Channel Analysis	2, 61 orders, fundamental from (40 to 450) Hz in auto or manual mode
Simultaneous measurement	Total Vrms, THD and selected order (% fundamental, phase, frequency, Vrms)
GENERAL FEATURES	
Interface	Isolated USB, WiFi, and Ethernet, SD micro card for direct transfer to PC. Web server/client with cursor and automatic measurements
Batteries	Rechargeable LI-ION 5.8 A•h battery, External charger
Charging Time	(98 to 264) VAC (50/60 Hz) 2 hours when OFF
Battery life	Approx. 8 hours
Dimensions (L x W x H)	(11.5 x 8.29 x 2.6) in (292.5 x 210.6 x 66.2) mm

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Weight	4.7 lbs. (2.1 kg)
Altitude Operating	2000 m (6560 ft)
Operating Temperature	(32 to 104) °F (0 to 40) °C ≤ 80 % RH
Storage Temperature	(-4° to 140) °F (-20 to 60) °C
IP Rating	IP54 per IEC 60529
Safety	IEC/EN 61010-2-30 (1000 V CAT II; 600 V CAT III), IEC 1326-1 

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