



Hand-held Oscilloscope Model OX 9304 IV

Cat. #2150.34

4-Channel, 300 MHz

Self-contained, hand-held, four-channel oscilloscope with 300MHz bandwidth, 4 channel DMM 8000 cts, FFT function and recording mode, and power measurement.

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CHANNELS	
Inputs / Bandwidth	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	4 Traces + 4 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 - 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. to 200 s/div Accuracy ± (50 ppm + 500 ps) Roll 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 to 20 s), delay (48 ns to 20s), 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 64 ns to 15 s
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 to 32) GB and SDXC > 32 GB
GLITCH Mode	Duration \leq 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	4 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, up to 61 st , 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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