



## Hand-held Oscilloscope Model OX 9104 IV

Cat. #2150.33

4-Channel, 100MHz

Self-contained, hand-held, four-channel oscilloscope with 100 MHz 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 to 200V 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 Winzoomsystem (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

For more details, download the datasheet or user manual at [www.aemc.com](http://www.aemc.com)


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<b>Type</b>	Edge, Pulse width (16 ns - 20 s) Delay (48 ns - 20 s) Counting (3 to 16,384 events) Continuous adjustment of Trigger position
<b>Coupling</b>	AC, DC GND, HFR, LFR, noise - Level and Hold-Off adjustable from 64 ns to 15 s
<b>Autoset</b>	Complete < 5 s with recognition of channels - Frequency > 30 Hz
<b>Cursors</b>	Two or three cursors: V and T with auto measurement: T1, T2, Dt, 1/Dt, dBV, Ph
<b>DIGITAL MEMORY</b>	
<b>Max. Sampling Rate</b>	2.5 GS/s in one-shot mode on each channel (100 GS/s max. in ETS mode) 12 bits resolution
<b>Memory Depth</b>	100 kpts per channel and file viewer in the manager
<b>Memory Capacity</b>	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
<b>GLITCH Mode</b>	Duration $\leq 2$ ns – 500,000 Min/Max pairs
<b>Display Modes</b>	Envelope, vector, accumulation -, averaging (factors 2 to 64) XY (vector) and Y(f) = FFT
<b>OTHER FUNCTIONS</b>	
<b>FFT Analyzer &amp; Math Functions</b>	FFT (Lin or Log) with measurement cursors - Functions, +, -, x, / and mathematical function editor
<b>Automatic Measurement</b>	Simultaneously with waveform, 20 automatic measurements per channel and on the 4 channels simultaneously with scroll
<b>Multimeter Mode</b>	4 channels, 8000 counts + Min/Max/Frequency/relative – TRMS – Time stamp graphic recording in logger mode
<b>AC, DC, AC+DC Voltages</b>	600 mV to 600 VRMS, 800 mV to 800 VDC: accuracy 0.5 % Bandwidth 200 kHz
<b>Power and PF</b>	Active, Reactive, and Apparent power values plus Power Factor simultaneously with the U & I measurements
<b>Resistance, Temperature, Capacitance, Frequency, and Diode Test on channel 1 only</b>	
<b>Acquisition</b>	Duration: 20,000 s - Interval: 0.2 s Files: 100,000 measurements
<b>Harmonic Analyzer Mode</b>	
<b>Multi-Channel Analysis</b>	2, up to 61 <sup>st</sup> , fundamental from (40 to 450) Hz in auto or manual mode
<b>Simultaneous measurement</b>	Total Vrms, THD and selected order (% fundamental, phase, frequency, Vrms)
<b>GENERAL FEATURES</b>	
<b>Interface</b>	Isolated USB, WiFi, and Ethernet, SD micro card for direct transfer to PC. Web server/client with cursor and automatic measurements
<b>Batteries</b>	Rechargeable LI-ION 5.8 A•h battery, External charger
<b>Charging Time</b>	(98 to 264) VAC (50/60 Hz) 2 hours when OFF
<b>Battery life</b>	Approx. 8 hours

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<b>Dimensions (L x W x H)</b>	(11.5 x 8.29 x 2.6) in (292.5 x 210.6 x 66.2) mm
<b>Weight</b>	4.7 lbs. (2.1 kg)
<b>Altitude Operating</b>	2000 m (6560 ft)
<b>Operating Temperature</b>	(32 to 104) °F (0 to 40) °C ≤ 80 % RH
<b>Storage Temperature</b>	(-4 to 140) °F (-20 to 60) °C
<b>IP Rating</b>	IP54 per IEC 60529
<b>Safety</b>	IEC/EN 61010-2-30 (1000 V CAT II; 600 V CAT III), IEC 1326-1 

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