



Handscope Portable Oscilloscope Model OX 5042

Cat. #2150.21

2-Channel, 40MHz

Two-channel oscilloscope with 40MHz bandwidth. Also functions as an 8000-count multimeter with power measurements, and a harmonic analyzer to the 31st harmonic. Can store up to 2MB of recorded data. USB communication enables programing the instrument remotely with the supplied SX-METRO software.

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CHANNELS	
Inputs / Bandwidth	2 X 600V Isolated channels / 40MHz
Input Impedance	1M Ω \pm 0.5%, 17pF
INTERFACE	
Screen Specifications	Color 3.5" TFT LCD 320 x 240 – LED Backlighting
Display Mode	2500 real acquisition points on screen
Traces On Screen	2 Traces + 2 References + memory trace or Math calculation
Front Panel Control	24 keys
VERTICAL	
Vertical Sensitivity	5mV to 200V/div and up to 156 μ V/div in vertical zoom mode (12-bit converter) – Accuracy \pm 1%
Max Input Voltage	600Vrms CAT III – Derating -20dB per decade from 100kHz
HORIZONTAL	
Time Base Speed	25ns/div to 200s/div. – accuracy 0.1-Roll mode from 100ms to 200s/div
Horizontal Zoom	Zoom factor : x1, x2, x5
TRIGGER	
Mode	On all channels: Auto, Triggered, One-shot & trigger Roll
Type	Edge, Pulse width (20ns to 20s)
Coupling	AC or DC (dependent of the coupling of the triggering channel)- HF, LF, or noise rejection
Sensitivity	\leq 1.2 divisions p-p up to 40 MHz
DIGITAL MEMORY	
Max. Sampling Rate	2GS/s in ETS – 50MS/s in Single Shot Mode on each channel (9 bits)

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

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Memory Depth	2500 points/channel
Memory Capacity	2MB for storing various types files: trace, text, configuration, image files
GLITCH Mode	Duration \geq 20ns – 1,250 MIN Max pairs
Display Modes	Envelope, Averaging (factors 2 to 64) and XY (vector)
OTHER FUNCTIONS	
Math Functions	Channel inversion, +, -, x, / and (adjustable scaling)
Automatic Measurement	18 time, level, phase measurements
Multimeter Mode	2 channels, 8000 counts + Min and Max bargraph – TRMS – graphic recording of 2700 measurements (5 min to 31 days)
AC, DC, AC+DC Voltages	600mV to 600VRMS, 800mV to 800VDC: accuracy 2% R + 20cts Bandwidth 50kHz
Active Power and PF	Single phase-Balanced 3 phase, with or without Neutral, simultaneous display of current
Resistance, Temperature, Capacitance, Frequency, Speed Rotation and Diode Test	
Harmonic Analyzer Mode	
Multi-Channel Analysis	2 channels, 31 orders, fundamental from 40 to 450Hz
GENERAL FEATURES	
Interface	Isolated USB, SX-Metro software included
Batteries	6 LR6 or 6 AA Rechargeable 9.6V NiMH battery pack, External charger
Charging Time	External power adapter, 98 to 264VAC (50/60Hz) 2hrs 30min when OFF
Battery life	Up to 8hrs 30min
Dimensions (L x W x H)	8.43 x 4.33 x 2.24" (214 x 110 x 57mm)
Weight	2.65lbs. (1.2kg)
Altitude Operating	2000m (6560ft)
Operating Temperature	32° to 104°F (0 to 40°C) \leq 80% RH
Storage Temperature	-4° to 140°F (-20 to 60°C)
IP Rating	IP54 per IEC 60529
Safety	IEC/EN 61010-1 (1000V CAT II; 600V CAT III), IEC 1326-1



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