

HANDHELD OSCILLOSCOPE

INTRODUCTION

The Metravi OM-40 and OM-100 are compact and versatile Handheld Digital Oscilloscopes, designed to meet the demands of various electronic measurement and troubleshooting jobs.

With a bandwidth of 40/100 MHz, they offer reliable and efficient solutions for measuring and analysing electronic signals. The dual-channel configuration allows simultaneous monitoring and comparison of two signals, enhancing the utility for diverse applications.

They offer a handheld design and portability without compromising on performance. The intuitive interface and controls make them user-friendly, catering to both professionals and enthusiasts in the field of electronics.

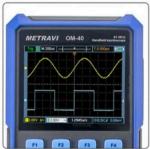
The oscilloscope's compact size and dual-channel capability make it suitable for field measurements, making them ideal tools for field engineers, technicians as well as hobbyists.

They are equipped with a clear and vibrant display for visualising waveforms, enabling users to analyse signal characteristics easily. They also come with various measurement functions, trigger options, and data recording capabilities, making them versatile for troubleshooting and diagnostics.



FEATURES

- Simultaneous monitoring and comparison of two signals
- · Portable and compact
- · Intuitive controls and interface
- Clear and vibrant display
- Various measurement functions to analyse signal characteristics
- · Trigger options for precise waveform captures
- Recording and storing of data for further analysis



3.5-inch Digital Color LCD Display



Calibration Signal & Type-C USB Interface



Oscilloscope Input & Waveform Generator Output



Multimeter Input Connectors

 ${}^{\star}\mathsf{Technical}\,\mathsf{Specifications}\,\&\,\mathsf{Appearance}\,\mathsf{are}\,\mathsf{subject}\,\mathsf{to}\,\mathsf{change}\,\mathsf{without}\,\mathsf{prior}\,\mathsf{notice}$

TECHNICAL SPECIFICATIONS

OSCILLOSCOPE:

Model	OM-40	OM-100	
Bandwidth	40MHz	100MHz	
Channels	2-CH Oscilloscope		
Sample Rate	250MSa/s 500MSa/s		
Acquisition Model	Normal, Pe	eak detect	
Record Length	81	K	
Display	3.5-inch LCD		
Waveform Refresh Rate	10,000 v	wfrms/s	
Input Coupling	DC, AC and Ground		
Input Impedance	1 MΩ±2%, in parallel with 16pF±10pF		
Probe Attenuation Factors	1X,10X,100X,1000X,10000X		
Max. Input Voltage	400V (DC+AC, PK-PK, 1MΩ input impedance) (10:1 probe attenuation)		
Bandwidth Limit (Typical)	20MHz		
Horizontal Scale	5ns/div - 1000s/div, step by 1-2-5	2ns/div - 1000s/div, step by 1-2-5	
Vertical Sensitivity	10mV/div - 10V/div		
Vertical Resolution	8 bits		
Trigger Type	Edge		
Trigger Modes	Auto, Normal, Single		
Automatic Measurement	Frequency, Period, Amplitude, Max, Min, Mean, PK-PK		
Cursor Measurement	Δ V, Δ T, Δ T & Δ V between cursors		
Communication Interface	USB Type-C		

MULTIMETER:

Max. Resolution	20,000 counts	
Testing Mode	Voltage, Current, Resistance, Capacitance, Diode and Continuity test	
Input Impedance	10ΜΩ	
Max Input Voltage	AC 750V, DC 1000V	
Max Input Current	DC:10A AC:10A	
Diode	0-2V	



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HANDHELD OSCILLOSCOPE

OM-40 / OM-100

TECHNICAL SPECIFICATIONS

MULTIMETER:

DC Current

Range	Min. Resolution	Accuracy
200.00mA	0.01mA	±(0.8%+10 dig)
10.000A	1mA	±(2.5%+10 dig)

Overload protection:

mA function: self-healing fuse 400 mA/250 V;

Ampere function: 10 A/600 V, D5.2*20, fast-acting fuse

AC Current

Range	Min. Resolution	Accuracy
200.00mA	0.01mA	±(1%+10 dig)
10.000A	1mA	±(2.8%+10 dig)

Frequency range: 40Hz-1000Hz

Overload protection:

mA function: self-healing fuse 400 mA/250 V; Ampere function: 10 A/600 V, D5.2*20, fast-acting fuse.

DC Voltage

Range	Min. Resolution	Accuracy
200.00mV	0.01mV	±(0.3%+10 dig)
2.0000V	0.1mV	
20.000V	1mV	1/0 20/ 15 dia)
200.00V	0.01V	±(0.3%+5 dig)
1000.0V	0.1V	

AC Voltage

Range	Min. Resolution	Accuracy
200.00mV	0.01mV	±(0.8%+10 dig)
2.0000V	0.1mV	
20.000V	1mV	±(1%+10 dig)
200.00V	0.01V	±(170+10 dig)
750.0V	0.1V	

Frequency range: 40Hz-1000Hz

Resistance

Range	Min. Resolution	Accuracy
200.00Ω	0.01Ω	±(0.8%+10 dig)
$2.0000k\Omega$	0.1Ω	±(0.8%+5 dig)
20.000kΩ	1Ω	
200.00kΩ	10Ω	±(0.8%+3 dig)
2.0000ΜΩ	0.1kΩ	
20.000ΜΩ	1kΩ	±(1%+3 dig)
100.00ΜΩ	0.01ΜΩ	±(5%+10 dig)

Capacitance

Range	Min. Resolution	Accuracy
20.000nF	1pF	
200.00nF	10pF	
2.0000µF	0.1nF	1/2 00/ 140 dia)
20.000µF	1nF	±(3.0%+10 dig)
200.00µF	10nF	
2.0000mF	0.1uF	

Others

Range	Min. Resolution
On/Off Test	✓ (<50Ω)
Diode Test	✓ (<0-2V)
Auto Range	✓
TRMS	V

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GENERAL SPECIFICATIONS

DISPLAY	
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Туре	3.5-inch color LCD display
Resolution	320 horizontal × 240 vertical pixels
Colour	65536 colors
Contrast	Adjustable
POWER SUPPLY	
Power Supply	100 - 240 VACRMS, 50/60 Hz, CAT II DC INPUT: 5VDC, 2A
Power Consumption	<5W
Battery	2200mAh*2 (3.7V,18650)
ENVIRONMENT	
Operating Temperature	Working temperature: 0° to 40°C
Storage Temperature	Storage temperature: -20°C to 60°C
Humidity	≤90%
Height	Operating: 3,000 meters; Non-operating: 15,000 meters
Cooling Method	Natural cooling
MECHANICAL SPECIFICATIONS	
Dimensions	198 mm (length) × 96mm (height) × 38 mm (width)
Weight	About 0.6 kg (main unit, without battery)
CALIBRATION	
Calibration Interval	Recommended calibration interval is one year



ACCESSORIES:

- USB Cable
- Passive Probes
- · Crocodile Clip Cable
- Multimeter Test Leads
- · Probe Correction Adjustment Knife
- User Manual
- Carrying Case

^{*}Technical Specifications & Appearance are subject to change without prior notice