

MXO 3 Series OSCILLOSCOPE

Next generation oscilloscope: Fast. Precise. Compact.



The MXO 3 series oscilloscopes use cutting-edge technology for speed and precision. The enormous capacity of the oscilloscope comes in a small package. Freedom and versatility are available without compromising results. Enjoy unmatched performance along with quick and easy understanding of your DUT.

Key facts

- ▶ 100 MHz to 1 GHz bandwidth
- ▶ Up to 5 Gsample/s sample rate
- ▶ 125 Mpoints per channel standard memory
- ▶ 12-bit ADC at all sample rates
- ▶ 18-bit architecture with HD mode
- ▶ Precise digital trigger

Key specifications

Bandwidth	▶ MXO 34: 100/200/350/500 MHz, 1 GHz ▶ MXO 38: 100/200/350/500 MHz, 1 GHz
Maximum sample rate	▶ MXO 34: 5 Gsample/s, 2.5 Gsample/s (> 2 channels) ▶ MXO 38: 5 Gsample/s, 2.5 Gsample/s (> 4 channels)
Channels	▶ MXO 34: 4 analog, 16 digital (with MSO) ▶ MXO 38: 8 analog, 16 digital (with MSO)
Maximum acquisition rate	4.5 million acquisitions/s per channel
ADC and maximum vertical resolution	12-bit ADC (at all sample rates), 18 bit with HD mode
Standard memory depth	125 Mpoints per channel (standard), 500 Mpoints per channel (option)
Display	11.6" Full HD display with capacitive touch
Operating system	Linux (closed)
VESA mount support	yes, 100 mm × 100 mm
Upgradeable	bandwidth, protocol trigger and decode, arbitrary waveform generator, analysis capabilities, MSO
Warranty	3 years



For options, prices and more information, visit
www.rohde-schwarz.com/product/MXO3

SUPERIOR USER INTERFACE

R&S®SmartGrid UI designed for high productivity

Customize your layout, fast

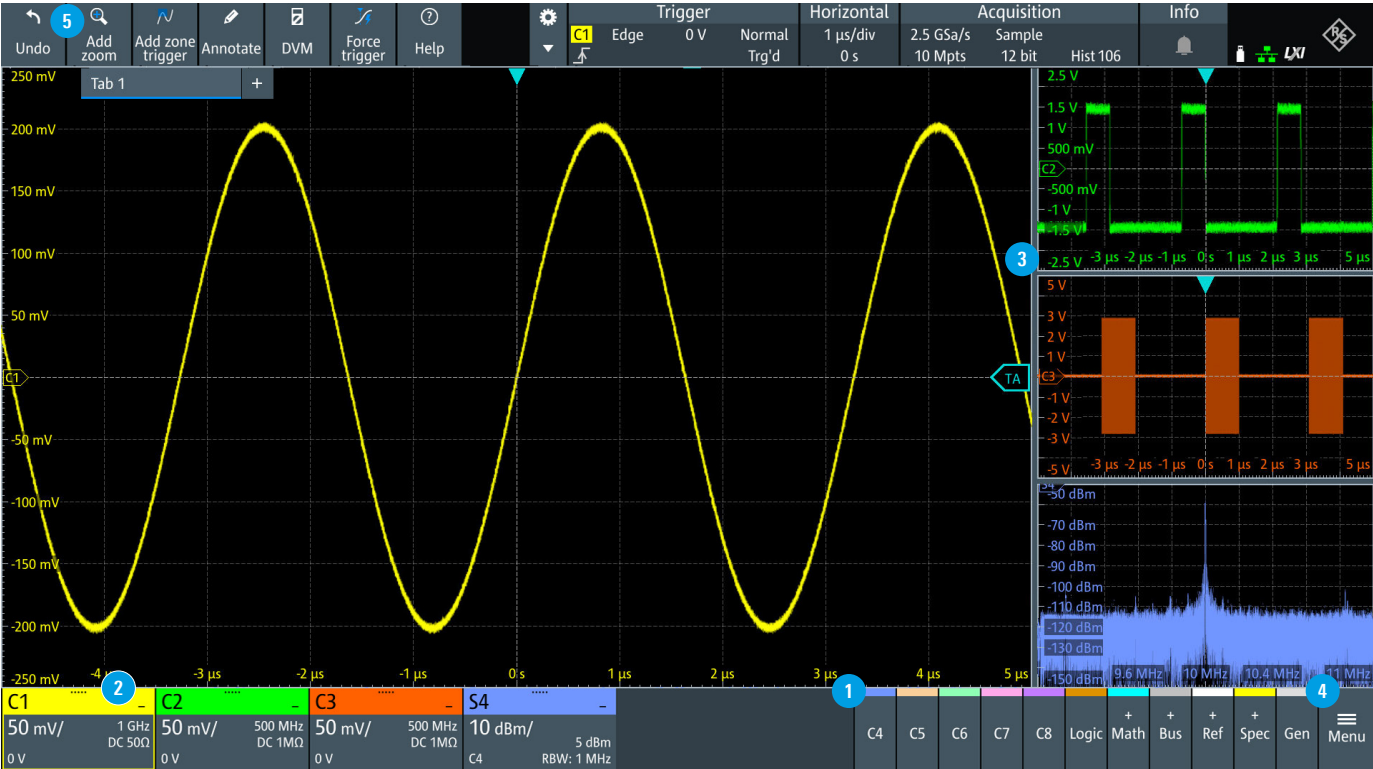
- 1 Tap to turn on sources and other functions
- 2 Quickly customize your display layout with drag&drop using R&S®SmartGrid
- 3 Adjust grid and result table boundaries using sliders

Quick access to settings and capabilities

- 4 Easily navigate to all settings using the main menu
- 5 Quickly access important tools with the customizable toolbar

Short learning curve

The MXO user interface is designed for minimal learning curve for users of other oscilloscopes. Anyone who needs a function description or who programs with the oscilloscope for programming just need to press the help button on the toolbar to see a description of the function and the associated SCPI command.



Ordering information	Type
Step 1: Choose your base model^{1), 2)}	
Oscilloscope, 100 MHz, 4 channels	MXO 34
Oscilloscope, 100 MHz, 8 channels	MXO 38
Step 2: Choose your bandwidth upgrade	
Upgrade of MXO 34 to 200 MHz bandwidth	R&S®MXO3-B242
Upgrade of MXO 34 to 350 MHz bandwidth	R&S®MXO3-B243
Upgrade of MXO 34 to 500 MHz bandwidth	R&S®MXO3-B245
Upgrade of MXO 34 to 1 GHz bandwidth	R&S®MXO3-B2410
Upgrade of MXO 38 to 200 MHz bandwidth	R&S®MXO3-B282
Upgrade of MXO 38 to 350 MHz bandwidth	R&S®MXO3-B283
Upgrade of MXO 38 to 500 MHz bandwidth	R&S®MXO3-B285
Upgrade of MXO 38 to 1 GHz bandwidth	R&S®MXO3-B2810
Step 3: Choose your options and accessories	
Hardware options	
Mixed signal option, for MXO 3 series with 16 digital channels	R&S®MXO3-B1
Arbitrary waveform generator, 50 MHz, 1 analog channel	R&S®MXO3-B6
Memory upgrade to 500 Mpoints	R&S®MXO3-B105
Power analysis	R&S®MXO3-K31
Frequency response analysis	R&S®MXO3-K36
Software options	
Low speed serial buses (I ² C/QuadSPI/SPI/UART/RS-232/RS-422/RS-485/NRZ clocked/NRZ unclocked/custom Manchester)	R&S®MXO3-K510
Automotive protocols (CAN/CAN FD/CAN XL/LIN/SENT)	R&S®MXO3-K520
Aerospace protocols (ARINC 429/MIL-STD-1553/SpaceWire)	R&S®MXO3-K530
MIPI low speed protocols (SPMI/RFFE/I ³ C)	R&S®MXO3-K550
Automotive Ethernet protocols (10BASE-T1S)	R&S®MXO3-K560
Application bundle, consists of the following options: R&S®MXO3-B6, R&S®MXO3-B105, R&S®MXO3-K31, R&S®MXO3-K36, R&S®MXO3-K510, R&S®MXO3-K520, R&S®MXO3-K530, R&S®MXO3-K550, R&S®MXO3-K560	R&S®MXO3-PK1
Accessories	
Rackmount kit	R&S®ZZA-MXO3
Front cover	R&S®MXO3-Z1
Soft case	R&S®MXO3-Z3
Transit case	R&S®MXO3-Z4
Warranty	
Base unit	3 years
All other items ³⁾	1 year

Rohde & Schwarz GmbH & Co. KG

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Data without tolerance limits is not binding | Subject to change

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- ¹⁾ Base unit (including standard accessories: 500 MHz passive probe (10:1) per channel, accessories bag, quick start guide, power cord)
- ²⁾ Languages supported: English, German, French, Spanish, Italian, Portuguese, simplified and traditional Chinese, Korean and Japanese
- ³⁾ For options installed, the remaining base unit warranty applies if longer than 1 year. Exception: all batteries have a 1 year warranty.