



# MXO 5C OSCILLOSCOPE / DIGITIZER

## versus Tektronix MS058LP Series



### Next generation oscilloscope in a compact form

The MXO 5C (C for compact) delivers breakthrough MXO 5 series oscilloscope technology in a 2 HU form factor. The highest channel density in the industry has 100 MHz to 2 GHz of bandwidth. Perfect for rackmount applications, the instrument can also be used in bench applications with an external display or web interface with a virtual front panel.

Your benefit	Features
Best choice for your application and budget	<ul style="list-style-type: none"> <li>► Choose from a 4-channel or 8-channel version and a wider range of bandwidths (all user bandwidths can be upgraded to 2 GHz).</li> </ul>
More flexibility for rackmounts or benches	<ul style="list-style-type: none"> <li>► An extremely useful integrated micro display provides quick access to critical information such as instrument IP, firmware version and more.</li> <li>► Use HDMI, DisplayPort or standard LAN web interfaces to visualize instrument controls.</li> <li>► Use in tighter spaces. The MXO 5C has the highest channel density in only 2 HU with 1/3 the depth of competitors.</li> </ul>
Measurement confidence from superior hardware	<ul style="list-style-type: none"> <li>► MXO 5C includes 12-bit ADCs that run at all sample rates.</li> <li>► MXO 5C includes 500 Mpoints standard memory.</li> <li>► MXO 5C captures up to 99 % signal activity.</li> <li>► Rohde &amp; Schwarz trigger re-arm time of 21 ns with max. update rate of 4.5 million waveforms/s after preset (86 % real-time signal capture)</li> <li>► MXO 5C trigger can isolate small signal details at all bandwidths and vertical settings without any tradeoffs</li> </ul>

Parameter	MXO 5C	Tektronix 58LP MSO
Rackmount height	2 HU	2 HU
Channels	4 or 8	8
Bandwidth	4-ch: 350/500 MHz, 1 GHz/2 GHz 8-ch: 100/200/350/500 MHz, 1 GHz/2 GHz	8-ch: 500 MHz, 1 GHz
Max. sampling rate	5 Gsample/s	6.25 Gsample/s
Memory depth	500 Mpoints/channel (standard) 1 Gpoints/channel on 4 channels (option)	125 Mpoints/channel (standard) 500 Mpoints/channel (option)
ADC bits @ max SR ADC bits @ reduced SR	12 Always 12, with up to 18 bit resolution	8 12, with up to 16 bit resolution
Waveform update rate after preset % real time capture after preset Max update rate in special mode	4.5 million waveforms/s 86% 4.5 million waveforms/s in Run Free mode	0.00006 million waveforms/s <0.001% 0.5 million waveforms/s in Fast Acq (DPX) mode
Spectrum analysis speed Spectrum analysis span	Up to 18 000 FFT/s 1 Hz to 1.8 GHz (standard)	Up to 60 FFT/s 18.6 Hz to 312.5 MHz (500 MHz opt.)
Noise (1 mV/div, 350 MHz, 50 Ω)	54 μV	141 μV
Channel-to-channel isolation	≥ 60 dB (1:1000)	≥ 46 dB (1:200)
Time base accuracy	± 0.2 ppm	± 2.5 ppm
MSO logic channel option	Yes. No tradeoffs.	1 analog input tradeoff per 8 logic channels
Integrated micro display	Yes. IP address, status, FW, other.	None
External display	HDMI, DisplayPort – virtual front panel	DVID-D, DisplayPort, VGA – no front panel
Bench vs rackmount usage.	Feet standard. Rackmount kit optional.	Rackmount standard. Feet optional.
Dimensions (W x H x D) (without feet)	445 mm × 88 mm × 405 mm 17 in × 3.4 in × 15.9 in	432 mm x 87 mm x 606 mm 17 in x 3.4 in x 23.9 in



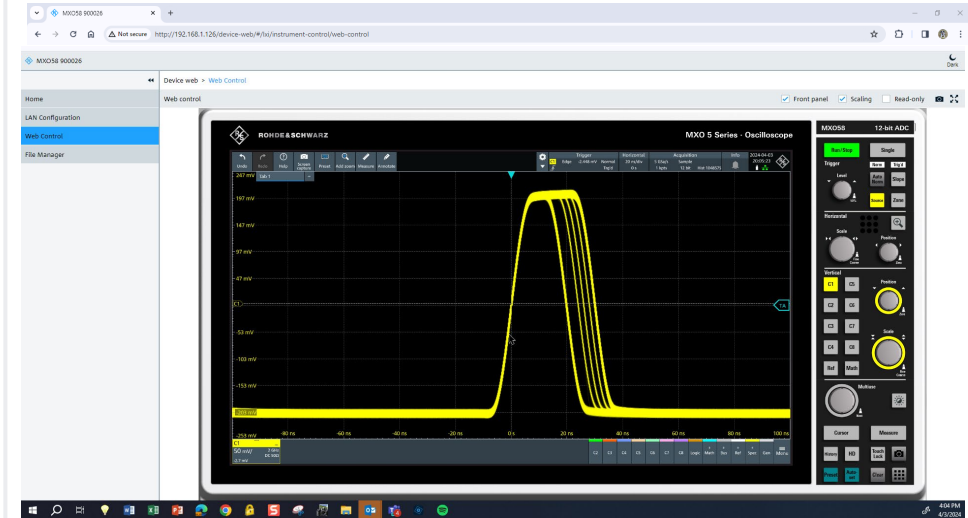
For more information, visit  
[www.rohde-schwarz.com/product/MXO5C](http://www.rohde-schwarz.com/product/MXO5C)

## Remote LAN web interface



Interact with the Rohde & Schwarz oscilloscope using the built-in web browser. A front panel has easy to use rotary controls along with setting dialogs. Take screenshots and download them with a single mouse click.

## Integrated micro display provides critical information including IP address



Need to quickly find an instrument IP address? Need to see if the scope is booted up and/or running? Use the world's first oscilloscope micro display for quick and easy access to critical info.

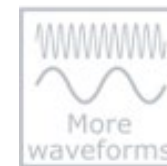
## Advantage factors of R&S®MXO 5C Series versus Tektronix 58LPL Series MSO



**4-ch**  
more affordable



**4 x**  
more memory



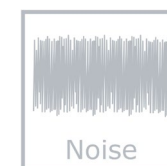
**60 000 x**  
signal capture speed



**5 x**  
more bandwidth offerings



**4 x**  
vertical resolution at max sampling rate



**2 x**  
less noise

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