



# Electronic Testing & Measuring Instruments

RIGOL continues to drive innovation in high-performance test and measurement instruments. Its portfolio of high-performance digital oscilloscopes, arbitrary waveform generators, and RF signal generators sets new benchmarks for performance while maintaining an unmatched price-to-performance ratio.

## DS80000 Series

High-bandwidth Real-time Digital Oscilloscope

**13GHz** Maximum Analog Bandwidth

**40GSa/s** Real Time Sample Rate

**RF System Design | Compliance Test | DDR Test**

13/10/8/6GHz Analog Bandwidth

40GSa/s Real Time Sample Rate

4 Analog Channels | 4Gpts Storage Depth



The DS80000 series offers superior bandwidth (up to 13 GHz), sample rates (up to 40 GSa/s per channel), and memory depth (up to 4 Gpts), making it ideal for ultra-high-speed signals like PCIe, DDR, and automotive Ethernet protocols

## MHO/DHO5000 Series

High-Resolution Digital Oscilloscope

**4/6/8** Analog Channels

**1 GHz** Analog Bandwidth

**Power Supply Design | Power Semiconductor Test | Embedded Design**

1 GHz - Analog Bandwidth | 4 GSa/s - Max. Real-time Sample Rate

16 Digital Channels - MHO Models | 12-bit - Vertical Resolution

500 Mpts - Max. Memory Depth

Built-in Signal Source - Only for 4-CH MHO Models



The MHO/DHO5000 series provides 500 MHz to 1 GHz bandwidth with 4 GSa/s rates and 500 Mpts memory, memory, suiting general-purpose debugging in embedded automotive CAN/CAN-FD and aerospace MIL-STD-1553 applications.



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### DG70000 Series

Function/Arbitrary Waveform Generators



**5 GHz** Max Output Frequency

**2/4** Output Channels

5 GSa/s Sampling (12 GSa/s interpolated)

16-bit Resolution

1.5 Gpts/Channel Waveform Length

-70 dBc SFDR

The RIGOL DG70000 Series arbitrary waveform generator has great application in high-speed communication validation for 5G and satellite systems using IQ modulation and frequency hopping. It further supports aerospace and defense with electromagnetic environment simulation and precise radar/semiconductor characterization

### DSG5000 Series

RF Signal Generator



**9kHz - 20GHz** Frequency Range

**-30dBm ~ +25dBm** Amplitude Range

**< 0.5dB** Amplitude Accuracy

Modulation Type: AM / FM / ØM / Pulse

SSB Phase Noise (Typ.): < -133dBc/Hz @ 1GHz, 10kHz offset

Key applications include microwave/radar signal generation, MIMO systems, and electromagnetic susceptibility (EMS) testing. These generators support complex research with up to 8 independent channels, a fast-switching speed of 3ms, low phase noise below -133 dBc/Hz, and modulations like AM, FM, PM, and pulse for precise signal simulation.

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 INTEGRATED  
SERVICES



RIGOL

# Electronic Testing & Measuring Instruments

DIGITAL  
OSCILLOSCOPES

WAVEFORM  
GENERATORS

MULTIMETERS &  
DATA ACQUISITION

DC POWER &  
LOADS

SPECTRUM  
ANALYZERS

RF SIGNAL  
GENERATORS

## High-bandwidth Real-time Digital Oscilloscope



Analog Bandwidth: 13/10/8/6 GHz  
Analog Channels: 4  
Maximum Real-time Sample Rate: 40 GSa/s  
Maximum Memory Depth: 4 Gpts

DS80000

## High-Resolution Digital Oscilloscope



Analog Bandwidth: 1 GHz | Analog Channels: 4/6/8  
Digital Channels: 16 | Vertical Resolution : 12 bit  
Maximum Real-time Sample Rate: 4 GSa/s  
Maximum Memory Depth: 500 Mpts  
Built In Signal Source

MHO/DHO5000

## Real-Time Spectrum Analyzer



Frequency Range: 5 kHz - 26.5 GHz  
Maximum Real-time Bandwidth: 80 MHz (200 MHz opt.)  
Resolution Bandwidth (RBW): 1 Hz - 10 MHz  
Phase Noise (Typ.): -100 dBc/Hz @ 10 kHz  
Displayed Average Noise Level (DANL): -163 dBm  
Tracking Generator: Yes

RSA6000

## RF Signal Generator



Frequency Range: 9 kHz to 20 GHz  
Amplitude Specification Range: -30 dBm to +25 dBm  
Amplitude Accuracy (Typical): < 0.5 dB  
Modulation Types Supported: AM / FM / OM / Pulse

DSG5000