

Oscilloscope Series Offers New Bandwidth Options

[Teledyne LeCroy](#) has introduced eight new WaveMaster 8000HD oscilloscope models designed for all stages of product development. Available in both WaveMaster and SDA variants, these models offer bandwidths of 6, 8, 13, and 16 GHz (Fig. 1). According to the vendor, these scopes are distinguished by their exceptional signal characterization performance, unrivaled validation and debug capabilities and comprehensive serial data expertise. Wavemaster supports a range of probe options, many of which are relevant to power-related testing (Fig. 2).

For more information or to request a demo, see the WaveMaster 8000HD High Bandwidth Oscilloscope [page](#).



Fig. 1. The WaveMaster 8000HD oscilloscope series offer up to 6-GHz bandwidth at 320 Gsamples/s, 12-bit resolution at full bandwidth and sample rate and fast processing of long waveforms. However, new models now offer bandwidths of 6, 8, 13, and 16 GHz.

WaveMaster 8000HD oscilloscopes support a broad range of probes for a variety of applications.

**Differential Probes
(200 MHz – 1.5 GHz)**



Wide dynamic range, low loading and excellent noise performance. From 200 MHz to 1.5 GHz. Specialty AP033 provides 10x gain and high CMRR.

**Differential Probes
(4 – 6 GHz)**



5 Vp-p dynamic range with ± 3 V offset and low noise and loading. Solder-in, browser, QuickLink, Quick Connect, square pin and HiTemp leads/tips.

**Differential Probes
(8 – 30 GHz)**



For serial data, DDR or other high-speed signals. Standard and high-sensitivity solder-in, HiTemp, and QuickLink for mixed-signal probing.

**60 V Common Mode
Differential Probes**



The ideal probes for lower voltage GaN power conversion measurement with the highest accuracy, best CMRR and lowest noise. Up to 1 GHz.

**High Voltage
Differential Probes**



1 kV, 2 kV and 6 kV CAT safety rated models. Widest differential voltage ranges, exceptional CMRR, low noise, 1% gain accuracy.

**High Voltage
Optically Isolated
Probes**



Ideal for GaN and SiC devices. Highest accuracy, most bandwidth, wide range of voltages, optical isolation.

**High Voltage
Passive Probes**



1 kV to 6 kV ratings. Provides ground-referenced high voltage measurements for a wide range of applications.

**Active Voltage
Probes**



1 to 4 GHz models. High signal fidelity and low circuit loading (<1 pF tip capacitance), ± 8 V dynamic range, ± 12 V offset.

**Active Voltage/Power
Rail Probe**



4 GHz bandwidth, ± 60 V offset, ± 800 mV dynamic range. High DC input impedance and low noise/attenuation for power rail probing.

Current Probes



For AC, DC and impulse current measurements. Utilizes combination of Hall effect and transformer technology. Up to 500 A, up to 100 MHz.

Rogowski Coil Probes



Wide frequency range and small sense coils for maximum flexibility. From 300 to 6000 Amps, as low as 0.1 Hz to as high as 30 MHz.

**Transmission Line
Probes**



High-bandwidth passive probe for use with 50 Ω inputs. DC to 7.5 GHz with 0.25 pF input capacitance. 10x or 20x attenuation.

**Probe and Current
Sensor Adapters**



Change between the different Teledyne LeCroy Oscilloscope input types or provide a simple interface to 3rd-party probes.

Passive Probes



10x attenuating with 10 M Ω input resistance. Ideal for low-frequency signals.

Fig. 2. The scopes in this series support a broad range of probes.