

# Digital Oscilloscope

## 60 to 200 MHz 2-Channel

HOS-MS6000 Series



- ✓ Easy-to-Use Pop-Up Menu with Built-In Multi-Language System
- ✓ 23 Automatic Measurements
- ✓ Waveform Math—Add, Subtract, Multiply, and Divide
- ✓ Store and Recall Up to 1000 Waveform Screens and Setups Using the Installed 2 GB microSD Card
- ✓ Automatic Cursor Tracking Measurements
- ✓ XY Mode
- ✓ Built-In FFT Function Converts Time-Domain Signals Into Frequency Components, Measuring Harmonic Content and Distortion in Systems
- ✓ Waveform Recorder Captures/Replays Input Waveforms from Channels 1 and 2 with Maximum Record Length of 1000 Frames
- ✓ Pass-Fail Function Compares a Stored Waveform to Unknown Input
- ✓ Average Mode for Smoothing Waveforms
- ✓ Square Wave Output (2V, 1 kHz) for Probe Adjustment
- ✓ Built-In 6000 Count True RMS Multimeter with Analog Bargraph



HOS-MS6200 shown smaller than actual size.

HOS-MS6000 Series oscilloscopes bandwidths range from 60 to 200 MHz, and provide real-time and equivalent sample rates respectively up to 1 and 25 GSa/s. In addition, they have maximum 1 MB memory depth for better observation of the waveform details, and 142 mm (5.6") color TFT LCD as well as Windows-style interfaces and menus for easy operation. One-touch automatic setup optimizes the position, range, timebase, and triggering to assure a stable display of virtually any waveform.

Additionally, the generous menu information and the easy-to-operate buttons maximize the information available for each measurement. The multifunctional and powerful shortcut keys save time and maximize efficiency, and the autoset (AUTO) function

allows the user to detect sine and square waves automatically. The HOS-MS6000 Series oscilloscopes are an ideal tool for engineers and technicians in the performance of complex measurements and troubleshooting during on-site inspection.

### Specifications

#### Bandwidth:

HOS-MS6060: 60 MHz  
HOS-MS6100: 100 MHz  
HOS-MS6200: 200 MHz

Sample Rate per Channel: 500 mS/s

#### Risetime:

HOS-MS6060: 5.8 ns  
HOS-MS6100: 3.5 ns  
HOS-MS6200: 1.8 ns

#### Timebase Range:

HOS-MS6060 and HOS-MS6100:  
4 ns/div to 40 s/div  
HOS-MS6200: 2 ns/div to 40 s/div

## Common Specifications Oscilloscope Functions

**Record Length:** 1 M points per channel

**Display Size:** 142 mm (5.6") color LCD; 640 x 480 pixels

**Channels:** 2

**Vertical Sensitivity:** 2 mV/div to 5V/div

**Vertical Resolution:** 8 bits

**Glitch Capture:** Yes

**Sample Mode:** Normal, average, peak detect

**Trigger Modes:** Edge, pulse, alt, video, slope

**Trigger Source:** CH1, CH2

**Trigger Coupling:** AC, DC, LF, HF, noise reduction

**Input impedance:** 1 M $\Omega$ /20 pF

**Maximum Input Voltage:** 300V (peak)

**Cursor Measurement:** Voltage and time; delta (CH1 to CH2)

### True RMS Multimeter Functions

**AC Voltage:** 60 mV, 600 mV, 6V, 60V, 600V

**DC Voltage:** 60 mV, 600 mV, 6V, 60V, 600V, 800V

**AC/DC Current:** 60 mA, 600 mA, 10 A

**Resistance:** 600  $\Omega$ , 6 k $\Omega$ , 60 k $\Omega$ , 600 k $\Omega$ , 6 M $\Omega$ , 60 M $\Omega$

**Capacitance:** 5 nF to 400  $\mu$ F

**Diode and Continuity:** Yes

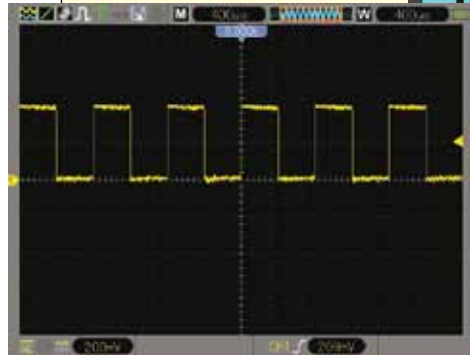
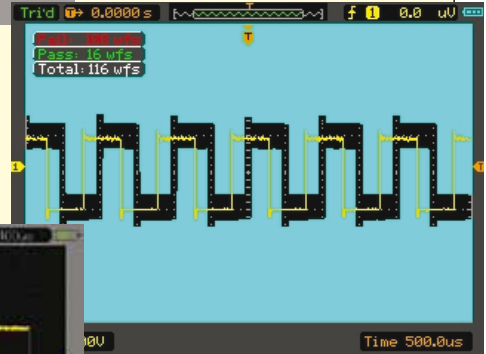
**Power Supply:** 3 hours li-ion rechargeable battery; AC charger

**Dimensions:** 245 H x 163 W x 52 mm diameter (9.6 x 6.4 x 2")

**Weight:** 1.2 kg (2.6 lb)



142 mm (5.6") graphical color LCD for viewing multiple waveforms plus built-in digital multimeter display and analog bargraph.



### Displays:

- Oscilloscope
- Dual Channel
- Multimeter
- Pass/Fail Test
- Reference
- X/Y Format



OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labor and equivalent loaners.



To Order	
Model No.	Description
HOS-MS6060	60 MHz dual channel digital oscilloscope
HOS-MS6100	100 MHz dual channel digital oscilloscope
HOS-MS6200	200 MHz dual channel digital oscilloscope

### Accessories

Model No.	Description
HOS-6000-BATT	Replacement 7.4V li-ion battery
HOS-6000-TL620	Spare 1X/10X 200 MHz oscilloscope probe
HOS-6000-TL625	100 MHz, 2000V high voltage oscilloscope probe

Comes complete with two 1X/10X oscilloscope probes, test leads, 7.4V li-ion battery, universal AC charger, USB cable, carrying case, and operator's manual.

**Ordering Example:** HOS-MS6100, 100 MHz dual channel digital oscilloscope. OCW-3, OMEGACARE<sup>SM</sup>, extends standard 1 year warranty to a total of 4 years.