

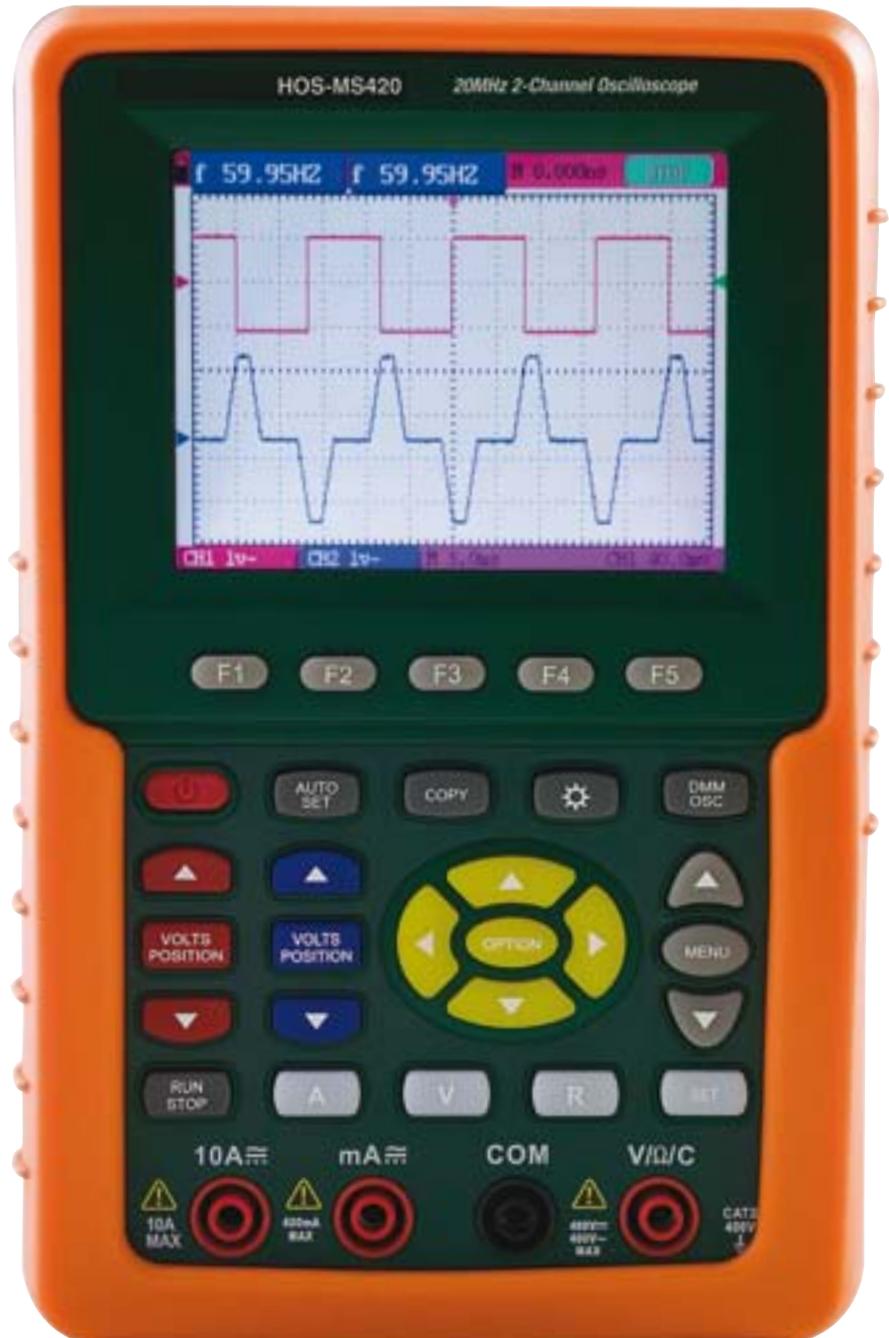


# 20 MHz 2-Channel Digital Oscilloscope

HOS-MS420



- ✓ 20 MHz Bandwidth
- ✓ Auto-Set Function  
Optimizes the Position, Range, Timebase, and Triggering to Assure a Stable Display of Virtually Any Waveform
- ✓ Peak Detect Function for 50 ns Glitch Capture
- ✓ XY Mode
- ✓ FFT Function to View Component Frequencies
- ✓ Trigger Holdoff Function Stabilizes Complex Waveforms
- ✓ Twenty Automatic Measurements
- ✓ Waveform Math: Add, Subtract, Multiply, and Divide
- ✓ Average Mode for Smoothing Waveforms
- ✓ Persistence Mode for Observing Dynamic Signals
- ✓ Store and Recall up to 4 Waveform Screens and Setups
- ✓ USB Interface and Software for Transferring Waveforms and Data



HOS-MS420 shown actual size.

The HOS-MS420 Series digital oscilloscope is ideal for the plant, maintenance, trouble shooting, test benches and many industrial applications. The HOS-MS420 features a 96 mm (3.8") color LCD.

The HOS-MS420 is also a true RMS multimeter which includes functions such as the measurement of resistance, capacitance, voltage, and current.

The HOS-MS420 can display waveforms and data on your PC via the USB interface. This oscilloscope/multimeter is a key tool for a variety of applications.



**A. Complete with two 1X/10X oscilloscope probes, test leads, Windows® 95/98/NT/2000/ME/XP compatible USB software and cable, capacitor measuring module, adjustment screwdriver, AC adaptor/charger, and hard carrying case.**



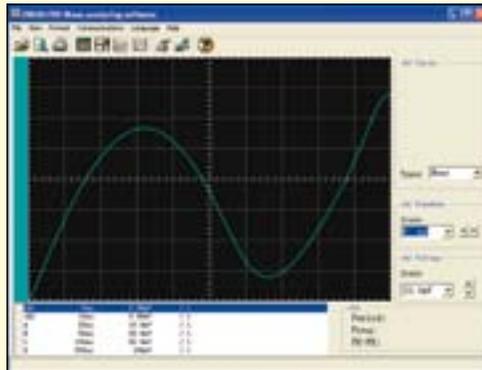
**A**



**B**

**B. Dual trace testing or troubleshooting of printed circuit boards and electronic assemblies**

**C. Software PC screens display analog bargraph and graphical waveform.**



**C**

## Specifications

### Oscilloscope Functions

**Display Size:** 96 mm (3.8") color LCD; 320 x 240 pixels

**Bandwidth:** 20 MHz

**Real Time Sample Rate:** 100 MS/s

**Risetime:** 17.5 ns

**Channels:** 2

**Record Length:** 6K points per channel

**Glitch Capture:** 50 ns

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

**Vertical Resolution:** 8 bits

**Timebase Range:** 5 ns to 5 s/div

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

**Trigger Modes:** Free run, single shot, edge, video

**Trigger Source:** CH1, CH2

**Trigger Coupling:** AC, DC

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

**Max Input Voltage:** 400V (peak)

**Cursor Measurement:** Voltage and time

### True RMS Multimeter Functions

**AC/DC Voltage:** 400 mV, 4V, 40V, 400V

**AC/DC Current:** 40 mA, 300 mA, 20A

**Resistance:** 400 $\Omega$ , 4 K $\Omega$ , 40 K $\Omega$ , 400 K $\Omega$ , 40M  $\Omega$

**Capacitance:** 51.2 nF to 100  $\mu$ F

**Diode and Continuity:** Yes

**PC Interface:** USB cable (included)

**Power Supply:** 6 hours Li-ion rechargeable battery; AC adaptor/charger (included)

### Dimensions:

180 L x 113 W x 40 mm Dia (7 x 4.4 x 1.6")

**Weight:** 690 g (24.3 oz)

## To Order

Model No.	Description
HOS-MS420	20 MHz dual channel digital oscilloscope

*Comes complete with two 1X/10X oscilloscope probes, test leads, Windows® 95/98/NT/2000/ME/XP compatible USB software and cable, capacitor measuring module, adjustment screwdriver, AC adaptor/charger, hard carrying case and operator's manual.*

**Ordering Example:** HOS-MS420, 20 MHz dual channel digital oscilloscope.