EXTECH INSTRUMENTS
A FLIR COMPANY

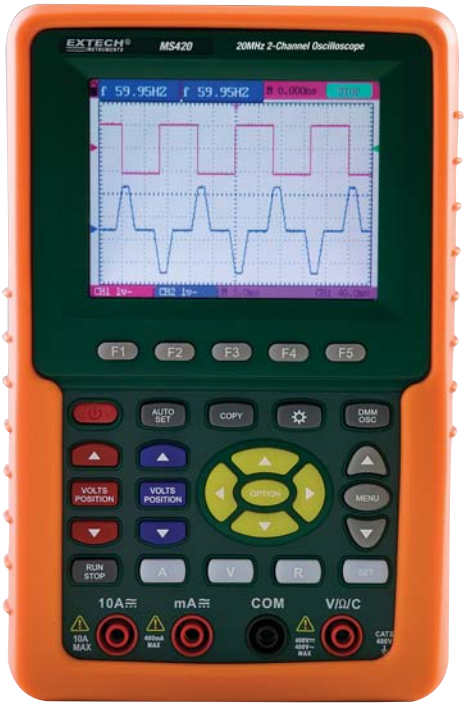
Experience the Extech Advantage

PRODUCT DATASHEET

20MHz 2-Channel Digital Oscilloscope

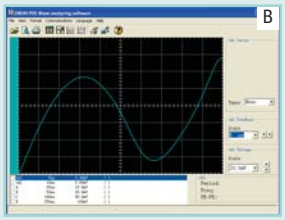
3.8" (97mm) color LCD display

Makes viewing multiple waveforms easy



Features:

- Auto-set function optimizes the position, range, timebase, and triggering to assure a stable display of virtually any waveform
- Peak Detect function for 50ns glitch capture XY Mode
- Five Automatic Measurements: Frequency, Cycle, Average, Peak to Peak, RMS
- 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



A. Complete with two 1X/10X oscilloscope probes, test leads, Windows® 95/98/NT/2000/ME/XP com patible USB software and cable, current shunt, capacitor measuring module, adjustment screw driver, Universal AC adaptor/ charger, and hard carrying case

B. Software PC screen

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

Specifications	
Oscilloscope Functions	
Display Size	3.8" (96mm) color LCD; 320 x 240 pixels
Bandwidth	20MHz
Real time sample rate	100MS/s
Risetime	17.5ns
Channels	2
Record Length	6K points per channel
Glitch Capture	50ns
Vertical Sensitivity	5mV to 5V/div
Vertical Resolution	8 bits
Timebase Range	5ns to 5s/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	1MΩ/20pF
Max Input Voltage 400V (peak)	
Cursor Measurement	Voltage and time
True RMS MultiMeter Functions	
AC/DC Voltage	400mV, 4V, 40V, 400V
AC/DC Current	40mA, 300mA, 20A
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 40MΩ
Capacitance	51.2nF to 100µF
Diode and Continuity	Yes
PC Interface	USB cable
Power Supply	6 hours Li-ion rechargeable battery; AC Adaptor/Charger
Dimensions/Weight	7 x 4.4 x 1.6" (180 x 113 x 40mm) / 24.3oz (690g)

Ordering Information:

MS420.....20MHz Dual Channel Digital Oscilloscope

CE EN 61010-1 CAT II 400V 1 YEAR WARRANTY

TRANSCAT Visit us at Transcat.com!
35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001