

OTC

TECH-SCOPE®

PC Based Digital Oscilloscope with Multimeter

**DIAGNOSTIC POWER
IN YOUR HANDS.**

Test virtually all of a vehicle's electrical or electronic components quickly and efficiently with OTC's new Tech-Scope®. Designed to increase efficiency, the Tech-Scope® combines a two-channel, high-speed lab and ignition oscilloscope with a digital multimeter, putting more diagnostic power in your hands.

- ✓ Includes galvanic isolation, unique in the auto industry for increased hardware protection
- ✓ Reads 40 million samples per second on each channel with 10M ohm input impedance, meaning no special adapters to capture signals from critical components
- ✓ Features InfoTech software with vehicle-specific repair information to find and fix issues even faster



PC BASED DIGITAL OSCILLOSCOPE

3857 CONTENTS

3857 Tech-Scope®

Scope probe (green)

Scope probe (yellow)

kV probe

Ground clamp

USB cable

Tech-Scope CD

One year warranty

Protective carry case

*PC required for scope operation but not included.





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Simply load the Tech-Scope® software on a PC or netbook, and connect with the device via the supplied USB cable for user selectable display options including changeable background color and the ability to save display screenshots.

OSCILLOSCOPE FEATURES:

- ✓ Displays time difference/frequency between cursors and waveform values at selected points
- ✓ Automatic record to store waveforms in a circular buffer with 50 screens of data
- ✓ AC/DC coupling
- ✓ Auto Setup adjusts vertical scale, sweep time and trigger point
- ✓ User selectable peak detect captures high speed signals at the maximum sampling rate even at slow sweep speed
- ✓ Capture the current waveform, along with analog and digital glitches
- ✓ Low, Medium and high glitch sensitivity settings
- ✓ Enable and disable scale grids and display



DIGITAL MULTIMETER FEATURES:

- ✓ Measures DC and True RMS AC volts along with Ohms, frequency duty cycle and pulse width
- ✓ Continuity check with optional audible beep
- ✓ Auto scale
- ✓ Screen refresh rate of 10 times per second
- ✓ View data in strip, dial, bar or digital chart graphs
- ✓ View minimum, maximum and average values
- ✓ Turn scale display on or off





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Tech-Scope® Specifications

Oscilloscope	Ranges	Notes
Channels	1 – 2	Common grounds, isolated from digital ground
Sample Rate	40 Msps	Simultaneous on both channels
Bandwidth	DC – 10 MHz	
Input Impedance	10 MΩ @ DC	All channels
	Ranges	
Vdc (full)	+400 V, +-200 V, +-100 V, +- 50 V, +- 20 V, +- 10 V, +- 5 V, +- 2 V, +- 1 V, +- 500 mV, +- 200 mV, +- 100 mV, +- 50 mV, +- 20 mV	
	Ranges	
Sweep speed	5 us, 10 us, 20 us, 50 us, 100 us, 200 us, 500 us, 1 ms, 2 ms, 5 ms, 10 ms, 20 ms, 50 ms, 100 ms, 200 ms, 500 ms, 1 s, 2 s, 5 s, 10 s, 20 s, 50 s, 100 s, 200	
Ignition scope kV (full)	1-45 kV	Channel 1-single cylinder w/ rejection of pick-up from other cylinders
Ignition scope RPM	400-10000 RPM	Channel 1-single cylinder w/ rejection of pick-up from other cylinders

Buffer storage per Channel	Condition
512,000	1 channel single shot or ignition
256,000	2 channels single shot or ignition
256,000	1 channel normal or auto trigger
128,000	2 channels normal or auto trigger

Digital Multimeter Functions	Ranges
Input Channels	1 – 2
Input Impedance	10 M
Volts (DC)	+/-20 mV thru +/-400 V (auto ranging)
Volts RMS (AC)	20 mV thru 400 V (auto ranging)
Ohms (on channel 1)	40.00 - 4 M (auto ranging)
Frequency	1 Hz thru 50 KHz (auto ranging)
Pulse Width	5 ms thru 2 s (auto ranging)
Duty Cycle	20 to 100 % (auto ranging)
Low Amps	+/-100 mA to +/- 100 A (auto ranging)
High Amps	+/- 20A to +/-1000A (auto ranging)
Vacuum	30 inHg (auto ranging)
Pressure	100 PSI – 3000 PSI (auto ranging)
Temperature	-50 F to 2000 F (auto ranging)



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Scope and Meter Accessories (AMP Clamps)

3820-13 – Low-range amp probe with display



3825-40 – USB cable



3825-41 – Scope probe assy. green



3825-42 – Scope probe assy. yellow



3825-43 – Scope probe assy. black



3825-44 – Scope kV probe assy.



3825-49 – Piercing probe set



3825-54 – Mid-range amp probe with BNC adapter.



3825-56 – Universal COP ignition probe



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