

DIGITAL STORAGE OSCILLOSCOPE BASIC KIT



The uScope is a single channel, pocket-sized, digital storage oscilloscope (DSO) that is small, quick, and powerful enough to capture the fastest signals when connected to ConsuLab trainers. In less than 4 seconds it's booted up and ready to take aim on any signal. This kit includes the most common accessories and test leads needed for labscope diagnostics. The uScope is equipped with a 12-bit analog/digital converter, samples at 1 million/second and includes 10x peak detect oversample. An optional signal harness for multiple user access is available on request.

Educational Advantages

- Extremely affordable option to instruct students on oscilloscope use and operation.
- Although small in size, this scope has many performance features that the very expensive units have.
- Multiple units can be purchased for groups of students all viewing one signal with optional signal distribution harness.
- Scope has a built in square wave signal generator (10Hz-1MHz) that is fully adjustable for frequency and duty cycle. This allows student practice without needing an external signal being connected.
- Scope has stored sample preset patterns for sensors, actuators, amp, ignition and charging system patterns for student reference. Patterns can be over layed with live pattern for comparisons.
- Obtained waveforms can be saved and stored on a computer for future recall and instruction.

SPECIFICATIONS	
Display	Full Color 2.8" TFT LCD 65K 320×240
Analog Bandwidth	0 - 200 kHz
Max. Sample Rate	1 Msps 12 Bits
Sample Memory Depth	4096 Points
Horizontal Sensitivity	1 uS/Div~10 S/Div
Horizontal Position	Adjustable with indicator
Vertical Sensitivity	10 mV/Div ~ 10 V/Div (with ×1 probe) 100mV/Div ~ 100 V/Div (with ×10 probe)
Vertical Position	Adjustable with indicator
Input Impedance	>1 megaohm (1 MΩ)
Max Input Voltage	± 40 Vpp (1x probe) ± 400 Vpp (10x probe)
Coupling	DC
Trigger Modes	Auto, Normal, Single, None, and Scan Rising/falling edge trigger Trig level adjustable with indicator Trig sensitivity adjustable with indicator
Waveform Measurements	Frequency, Duty Cycle, Voltage EMS, Pulse Count, Vpp, VMin, Vmax, Vavg Vertical cursors, adjustable Horizontal cursors, adjustable Hold/run feature
Signal Generator	Built-in 10Hz ~ 1MHz (1-2-5 Step)
Removeable Memory	2GB removeable microSD card
Connection to PC	USB
Firmware Update	Via USB, requires PC with Windows 7 or 10
Power Supply	3.7V Chargeable Lithium battery / USB
Dimensions (w/o Probe)	91 mm x 62 mm x 13 mm (3.6" x 2.5" x 0.5")
BASIC KIT CONTENTS	
• uScope unit • White storage box • Signal harness (green & black) • Black & green alligator clips • Micro SD card • Mini USB cable • 3.5mm mini phono cable for signal generator • 2mm black and green signal probes • Pair of needle back probes	