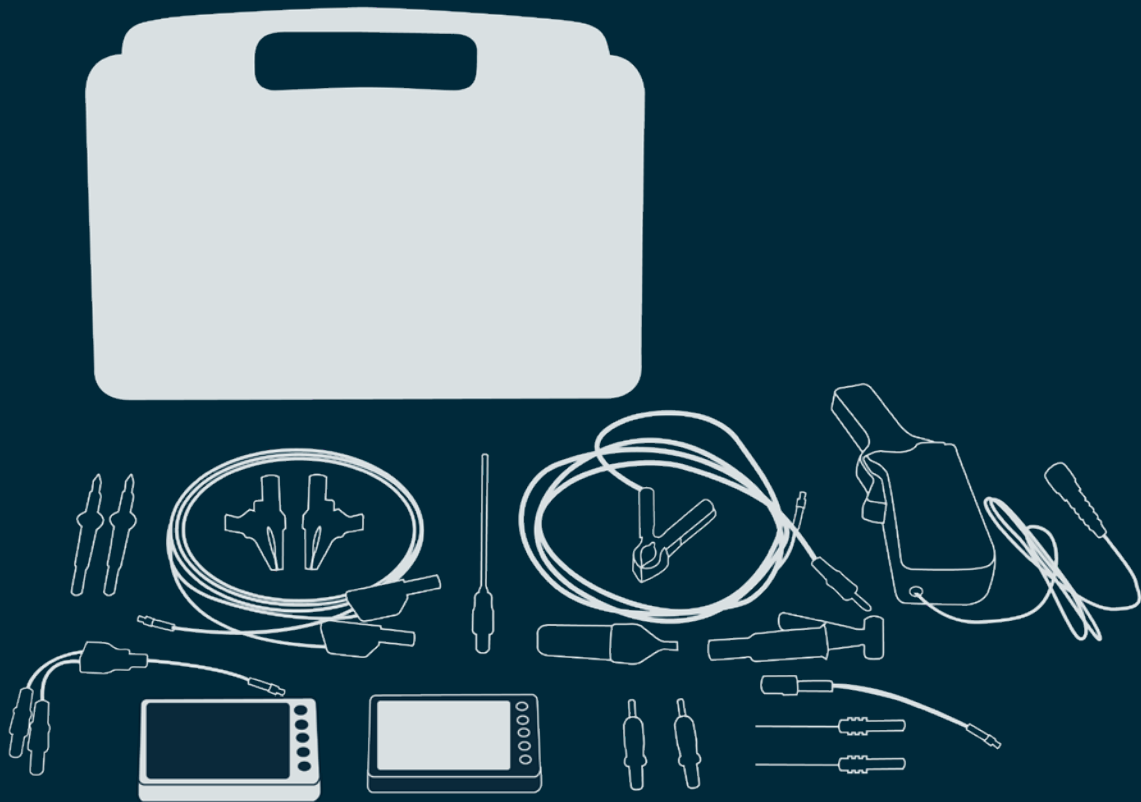




uScope digital storage oscilloscope - Master Kit





The uScope Master Kit 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 or other signals. In less than 4 seconds it's booted up and ready to take aim on any signal. The Master Kit includes a comprehensive selection of 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. The Master Kit contains additional probes, adapters, Amp-Clamp, Ignition adapters, and other accessories for those needing them. Be aware that most other scope and DMM accessories can also be used with the uScope.

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.

MASTER KIT CONTENTS

- uScope Digital Storage Oscilloscope
- Protective boot (orange)
- Low Current Amp Probe (10mA - 60A)
- Shielded test lead (5-ft)
- Secondary lead (5-ft) with plug wire clamp
- COP paddle
- AC filter
- Primary ignition probe (attenuator)
- Alligator clips (black & green)
- 2mm pin tip probes (black & green)
- EAP backpinning probes (2)
- Adapter for BNC connector
- Adapter for banana plug
- 2GB micro SD card
- Micro USB cable
- 3.5mm mini phono plug for signal generator
- Hard carrying case
- User manual (PDF available on our website)



**SPECIFICATIONS**

- **Display:** Full Color 2.8" TFT LCD 65K 320x240
- **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 x1 probe)
 - 100mV/Div ~ 100 V/Div (with x10 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
- **DSO Dimensions (w/o Probe):** 91 mm x 62 mm x 13 mm (3.6" x 2.5" x 0.5")

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