

The NEW OTC Vision II...

An ultra-fast 4-in-1 diagnostic tool at an affordable price!



It's a lab scope, ignition scope, automatic set-up tester and automotive multimeter, all in one hand-held package!

- 1** A four-channel lab oscilloscope. The first user-friendly, hand-held scope designed specifically to meet the needs of today's automotive technician. Not a modified industrial scope.
- 2** An ignition module for testing both conventional and DIS systems is now available. Displays both primary and secondary voltage/ignition patterns.
- 3** An automatic set-up function tester. Lets you perform testing of oxygen sensor, throttle position sensor, mass airflow or manifold absolute pressure (digital or analog), plus fuel injector operation.
- 4** A six-panel automotive multimeter. Covers multimeter volts, frequency and duty cycle. Volt measurement provides minimum, maximum, average and volts RMS.

The new OTC Vision II is the troubleshooting center your shop can afford...and you can hold it in your hand.

OTC Vision II allows you to view waveforms and numerical data simultaneously:

- Perfect for evaluating the operation of sensors, switches, actuators and fuel injectors.
- Portable for use in road testing to solve those tough intermittent driveability problems.

The OTC Vision II incorporates a 16 bit, personal computer-compatible central processor unit with software cards and data storage, and a 4 1/4" diagonal (256 x 320 pixel) high resolution LCD display. Data and waveforms can be viewed on the OTC Vision screen, captured and stored for later viewing, or printed out on laser or pin printers.



Signal ground

Color coded BNC connections, shielded leads.

Plug-in module design.

RS 232 printer port outputs to laser or dot matrix printers.

256 x 320 pixel display High resolution, back-lit screen.

Ergonomic design Perfect size and shape.

Soft keys, software programmable.

Completely sealed membrane keypad.

PC card software upgradable.

Four-channel scope capabilities:

In addition to portability and data storage capabilities, Vision II offers a four-channel acquisition port, allowing you to read data from one to four different sensors simultaneously (most lab scopes offer only two-channel capability). Additional scope functions offered are an adjustable trigger; incremental gain select of ± 0.5 to $\pm 100V$ (full scale); time base select of 0.5 millisecond to 10 seconds (full scale); auto gain capability; and cursor movement for accurate measurements of time, frequency and voltage.

Modular ignition scope capability:

The plug-in ignition scope module provides effective analysis of both DIS and conventional ignition systems. Primary and secondary ignition/voltage patterns are displayed for vehicles having 2 to 8 cylinders with raster, parade and single cylinder displays. Provides signals in bar graph, digital and histogram formats. DIS power and waste patterns are shown on the same screen for engines up to eight cylinders. Has ability to store and retrieve data.

Digital multimeter capabilities:

Offers 1-4 channels and 1-6 windows per screen. OTC Vision II multimeter covers volts, frequency and duty cycle. Volt measurement provides minimum, maximum, average and volts RMS.

Automatic set-up component tests:

Automatically, quickly and accurately sets up the scope and digital multimeter for specific sensor testing. You can perform testing of oxygen sensor, throttle position sensor, mass airflow or manifold absolute pressure sensor (analog or digital) and fuel injector operation.

Future functions:

As vehicles change, you can update your OTC Vision II just by inserting a new software program card.

User-friendly features:

A waveform library lets you compare your waveforms to 'known good' waveforms. The extremely fast sampling rate means faster screen updates; no more frustration from waiting. The custom membrane keypad and "soft function keys" (software assigned) make the unit easy to use. A "Help" menu assists in understanding different screens and functions. An LCD display provides graphic and text output. A cold cathode fluorescent light provides bright, legible backlighting, even in dim shop conditions, and contrast control lets you fine-tune the screen.

Power requirements:

Six rechargeable (Ni-Cad) cells provide sufficient power for 4-6 hours of operation. Internal circuitry can charge a depleted battery pack within 1 1/2 hours. Comes with a 120 volt AC adapter.

Free... product familiarization session:

is provided with the purchase of 3811 or 3813.

3810



No. 3810 – OTC Vision II complete with lab scope/multimeter module, four color leads (R, G, B, Y), ground lead, oxygen sensor test lead, 12 volt battery charging cable, memory card, 120 volt AC adapter, carrying case, instruction manual and video. Wt., 7 lbs., 8 oz.

3811



No. 3811 – OTC Vision II complete with ignition analyzer module, current clamp, primary ignition lead, sync. lead, conventional secondary ignition lead, yellow test lead, ground lead, oxygen sensor test lead, 12 volt battery charging cable, memory card, 120 volt AC adapter, carrying case, instruction manual and video. Wt., 10 lbs., 8 oz.

3812



No. 3812 – OTC Vision II with lab scope/multimeter module, four color leads (R, G, B, Y), sync. lead, secondary ignition lead (conventional or DIS), ground lead, oxygen sensor test lead, 12 volt battery charging cable, memory card, 120 volt AC adapter, carrying case, instruction manual and video. Wt., 8 lbs., 8 oz.

3813



No. 3813 – OTC Vision II with ignition analyzer and lab scope/multimeter modules, current clamp, primary ignition lead, sync. probe, conventional secondary ignition lead, DIS adapter for use with ignition module, four color leads (R, G, B, Y), ground lead, oxygen sensor test lead, 12 volt isolated battery lead, memory card, 120 volt AC adapter, carrying case, instruction manual and video. Wt., 11 lbs. 2.37 oz.

Vision II Kit Contents

Part Number	Description	Vision II Kit Contents										
		3810	3811	3812	3813	3800-31	3800-32	3800-100	3810-02	3811-01	3810-03	3810-04
	Scope Module	X		X	X					X		
	Ignition Module		X		X	X		X				
	6 Language PCMCIA Card Rev. 2.5.1	X	X	X	X	X	X					
3800-04	Red Lead	X		X	X					X		
3800-05	Blue Lead	X		X	X					X		
3800-06	Green Lead	X		X	X					X		
3800-07	Yellow Lead	X	X	X	X							
3800-09	Black Lead	X	X	X	X							
3800-08	10 MΩ Lead	X	X	X	X							
3800-11	120 Volt Wall Charger	X	X	X	X							
	Battery Adapter	X	X	X								
	12V Charging Cable	X	X	X								
	Waveform Manual	X	X	X	X							
	User Manual	X	X	X	X	X	X					
3800-10	Isolated Battery Lead (use with Ignition and O2 Sensor)				X							
	Secondary kV Probe (Quick Ignition for Scope Module)			X			X		X			
	Sync. Probe (Quick Ignition for Scope Module)			X			X		X			
3800-18	Current Probe		X		X	X		X				
3800-19	Sync Probe (use with Ignition Module)		X		X	X		X				
3800-20	Secondary kV Probe (use with Ignition Module)		X		X	X		X				
3800-16	DIS Lead (for Distributorless Ignition)				X							
	Video	X	X	X	X	X	X					
3800-21	Hard Carrying Case	X	X	X	X							
	Breakout Box Module										X	
	PCMCIA Card w/ BOB Information										X	
	PCMCIA Card w/ EC View											X

Vision II Upgrade Guide

If you have:	And you want to upgrade to:	Purchase:	If you have:	And you want to upgrade to:	Purchase:
3800 Vision	Ignition Analyzer	3800-31	3811 Vision II	4 Channel Lab Scope	3811-01
	Single Cylinder Ignition	3800-32		Breakout Box Module	3810-03
	Breakout Box Module	3810-03		Breakout Box Database	3810-04
	Breakout Box Database	3810-04			
3810 Vision II	Ignition Analyzer	3800-100	3812 Vision II	Ignition Analyzer	3800-100
	Single Cylinder Ignition	3810-02			
	Breakout Box Module	3810-03			
	Breakout Box Database	3810-04			

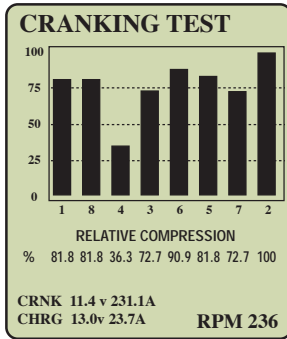
Note: Call OTC Customer Service at 1-800-553-6127 for information about Breakout Box Module and vehicle adapter cables.

Vision II Lab Scope Accessories

Serial to parallel printer adapter	No. 3800-01A	Battery pack	No. 3800-15
Serial printing cable	No. 3800-02	DIS ignition lead	No. 3800-16
Lead kit (5 colored leads)	No. 3800-03	GM HEI ignition lead	No. 3800-17
Red lead	No. 3800-04	Current clamp	No. 3800-18
Blue lead	No. 3800-05	Sync. probe	No. 3800-19
Green lead	No. 3800-06	Conventional secondary ignition lead	No. 3800-20
Yellow lead	No. 3800-07	Large storage case for Vision and modules	No. 3800-21
10 MΩ lead for O2 and ignition primary readings	No. 3800-08	Soft case	No. 3800-22
Black ground cable	No. 3800-09	PC software	No. 3800-23
120 volt AC to 12 volt DC power supply charger	No. 3800-11	Breakout box lead adapters	No. 3800-24
12 volt battery charging cable	No. 3800-13	E-Z hook wire piercing probe	No. 3800-25
Protective boot for Vision scope	No. 3800-14	Alternator lead	No. 3805-13



Examples of Ignition Scope Patterns... from No. 3811 and 3813 Sets

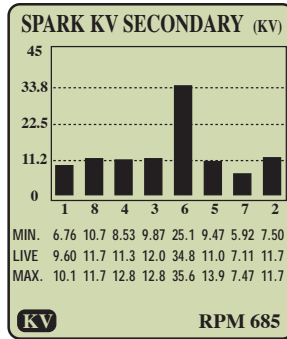


Cranking Test

Automatically disables ignition system. Checks relative compression without removing spark plugs.

Checks the battery under actual cranking conditions.

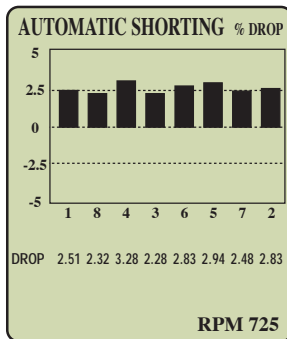
Tests alternator output and voltage regulator.



Spark KV Secondary

Bar graph shows defective spark plug wires at a glance.

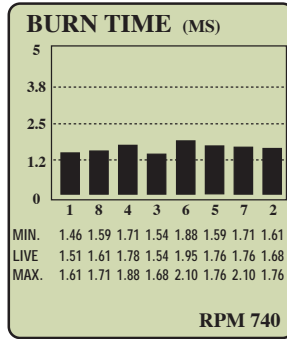
Min/Max captures intermittent misfires and improper secondary resistance.



Automatic Shorting

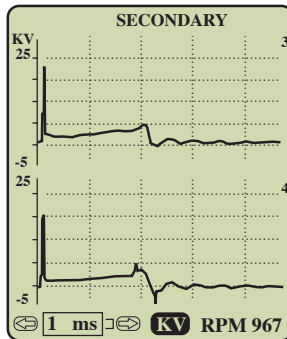
Automatic cylinder "kill" eliminates the need to pull "live" plug wires.

Verifies fuel, ignition, and camshaft problems.



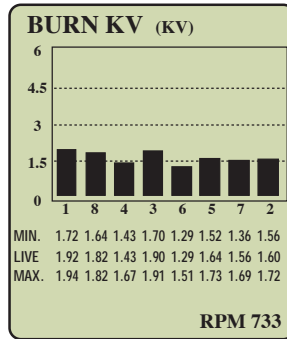
Burn Time

Identify combustion related problems such as plugged or leaking injectors, worn camshaft lobes and carbon build-up.



Secondary

Familiar secondary scope patterns may be printed or saved to the waveform library for future comparison (store up to 20 patterns).

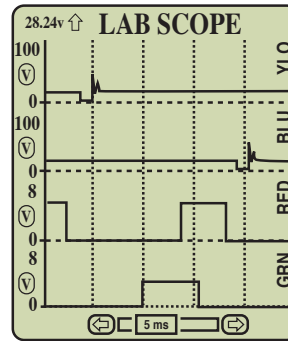


Burn KV

Identify combustion related problems such as plugged or leaking injectors, worn camshaft lobes and carbon build-up.

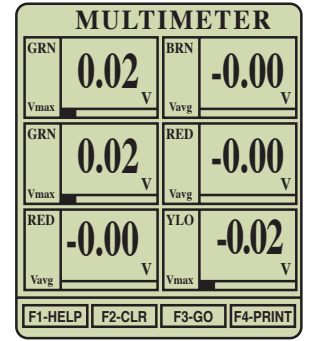


Multimeter and Lab Scope Patterns... from No. 3810, 3812, and 3813 Sets



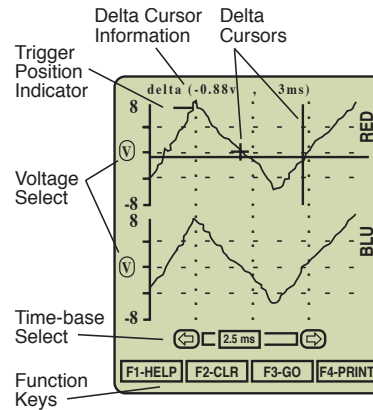
Multiple Trace Capability

The OTC Vision lets you display up to four waveforms at one time.



Multimeters

- 1 to 6 panels
- 1 to 4 channel input
- Bar graphs

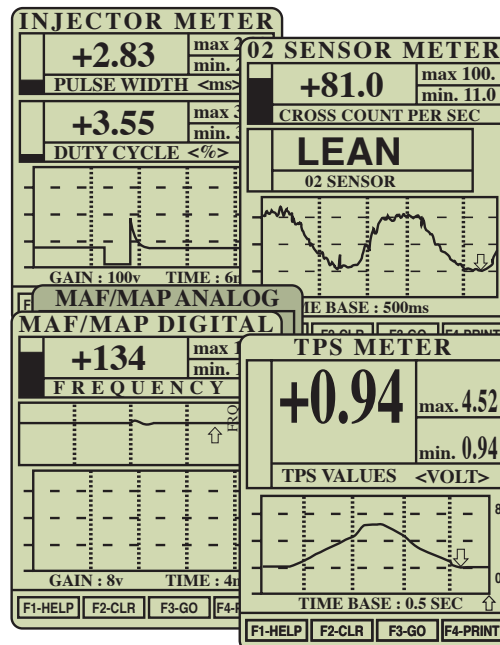


Advanced Measurement Capability (Pinpoint Diagnostic)

Cursors to measure time or voltage difference or frequency between two points of a waveform.

- Manually adjustable trigger function lets you synchronize displayed data.

Scope Patterns... from No. 3810, 3811, 3812, and 3813 Sets



Injector Meter

O2 Sensor Meter

MAF/MAP Sensor Meter: Digital and Analog

TPS Meter Screen

Auto Meter Setup

- Digital data
- Min/Max recording
- Histogram
- Custom scope windows (no set-up required)
- Bar graphs

LEASE PROGRAM

OTC makes it easy for you to purchase this profit-making equipment

• Our “Pay as you Earn” Lease Program lets your OTC diagnostic equipment pay for itself as it works for you

Call 1-800-253-3256 for details



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