

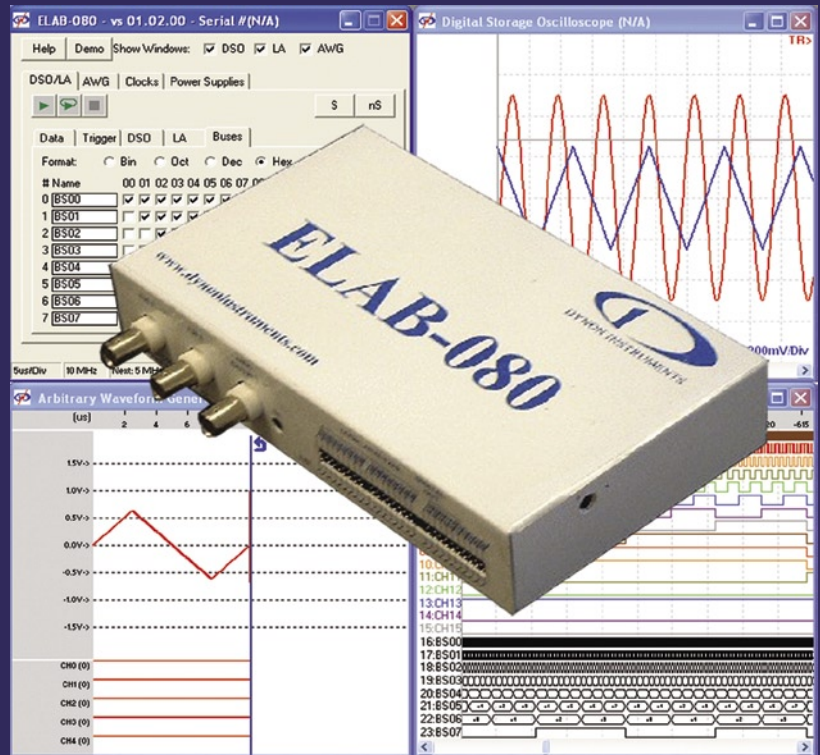
A Complete Electronics Lab for \$495!

Includes 5 Instruments

- 2 Ch Digital Storage Oscilloscope
- 16 Ch Logic Analyzer
- Analog/Digital Arbitrary Waveform Generator
- 2 Programmable Power Supplies
- 2 Programmable Clocks

Plus....

- Probes & Cables
- PC Software



PC-Hosted Electronics Lab

Dynon Instrument's ELAB-080 combines 5 key measurement and stimulus tools to form a highly integrated electronics lab instrument accommodating most measurement and testing criteria for today's state-of-the-art electronics. Once connected to a PC, this compact instrument becomes a convenient and user friendly tool offering attractive features to engineers, students and hobbyists.

In addition to combining 5 instruments into one low priced, integrated design, Dynon's ELAB-080 offers many features typically considered optional or only available in more expensive equipment such as:

- 80MHz sampling rate and 32K sample storage on each of two DSO channels
- Synchronous sampling and triggering with the DSO on all 16 LA channels
- 100MHz AWG with 64K sample playback
- Built-in USB interface
- Free Firmware and Software updates
- Intuitive User-Interface

The ELAB-080 is ideal for hobbyists, education, portable field applications, small business or whenever looking for maximum value in a PC-hosted electronics lab at a very affordable price.

Price includes:

- ELAB-080 Instrument
- Two 60MHz Oscilloscope Probes
- Complete Wiring Harnesses
- Power Supply
- USB Cable
- DLL for Custom Programming



DYNON INSTRUMENTS

ELAB-080 SPECIFICATIONS

DIGITAL STORAGE OSCILLOSCOPE

- 2 Channels
- 1kHz – 80MHz Sample Rate (auto or manual select)
- 8-bit ADC Per Channel
- 32K Sample Buffer Per Channel
 - Adjustable from 1K - 32K
- Rising/Falling Trigger Either Channel With Voltage Level Select
- Voltage & Time Markers
- Sensitivity:
 - 1X Probe :
 - 10mV/div – 500mV/div full scale
 - 5mV/div – 500mV/div with software gain
 - 10X Probe:
 - 100mV/div – 5V/div full scale
 - 20mV/div – 10V/div with software gain
- Horizontal Scale:
 - 2ns/div – 5 sec/div
- Maximum Measurable Voltage:
 - 4V p-p with 1X probe
 - 50V p-p with 10X probe

LOGIC ANALYZER

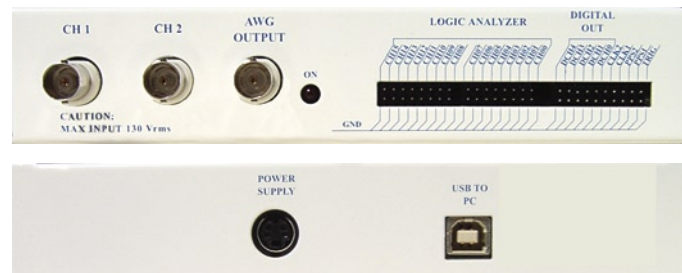
- 16 Input Channels
- 5V Tolerant
- Threshold Voltage
 - $V_{ih} = 2.0V$ Min
 - $V_{il} = 0.8V$ Max
- 1kHz – 80MHz Sample rate (DSO and Logic Analyzer share same clock)
- State Trigger on CH0-3

PROGRAMMABLE POWER SUPPLY

- 2 Channels
- -10V to 10V
- 100mV increments
- $\pm 60mA$ Max Current

Front Panel

Back Panel



ARBITRARY WAVEFORM GENERATOR

- 10kHz – 100MHz Sample Rate
- 1 Analog Output:
 - 10-Bit DAC
 - 64K Samples Storage
 - Frequency: .15Hz @ 65536 pts – 10MHz @ 10 pts
 - $\pm 3V$ Output Maximum (with no load)
 - DC offset $\pm 3V$ (with no load)
 - 50 Ohm Impedance
- 5 Digital Outputs
 - 24mA Output Capabilities
 - 3.3V Logic
 - 64K Samples Storage
- External Trigger Input
- Arbitrary Waveform through GUI and File Based Input
- Single-Shot or Repetitive Player
- Built in Sine, Square, Triangle, Sawtooth Waves

PROGRAMMABLE CLOCK GENERATOR

- 2 programmable clock outputs
- 1kHz – 150MHz
- 3.3V Logic

GENERAL

- Power supply input requires 105-130VAC
- 7.25" wide x 4.92" deep x 1.65" high (18.4 x 12.5 x 4.2 cm)
- 22.4 oz (635 grams)
- PC Requirements:
 - Windows™ 98SE, ME, 2000, XP
 - USB