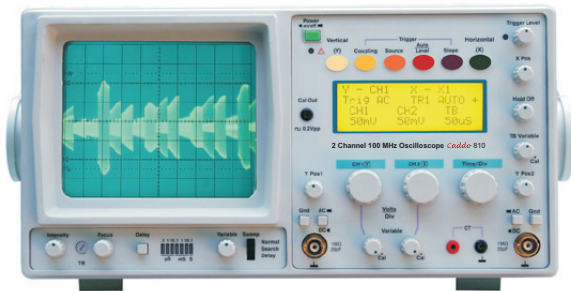


2 Channel 100 MHz Oscilloscope



Caddo 810 is a 100 MHz, Microcontroller based, user friendly Oscilloscope, designed specially for project labs in education and production applications in Industry and Service.

It's LARGE LCD display and control buttons provide smooth Digital touch. The bright Trace display and Stable triggering makes it a ideal choice just for any application.

- ▣ **Microcontroller Based**
- ▣ **Digital Readout with Large Backlit LCD**
- ▣ **100 MHz Bandwidth**
- ▣ **X10 Magnification**
- ▣ **5 ns max Sweep Speed**
- ▣ **Alternate Triggering**
- ▣ **Variable Hold Off & Line Triggering**
- ▣ **Component and Continuity Tester**
- ▣ **Sweep Delay**
- ▣ **USB Interface & PC Software (Optional)**

Included Accessories

- | | |
|----------------------------|--------|
| 1. 1X/10X Switchable Probe | 2 Nos. |
| 2. Mains Cord | 1 No. |
| 3. Calibration Certificate | 1 No. |
| 4. e-Manual CD | 1 No. |
| 5. USB Cable (optional) | 1 No. |
| 6. Test Prods | 1 set |

Technical Specifications

Operating Modes

CH I, CH II, CH I & II alternate or chopped (frequency 0.5 MHz approximately) Addition or difference CH II \pm CH I (With invert switch for CH I)

X-Y mode : Same sensitivity in both directions (CH I as Y & CH II as X)

Vertical Deflection (Y)

Both Channels :

Bandwidth : DC - 100 MHz (-3 dB)

Rise time : 3.5 ns (approximately)

Deflection coefficients : Microcontroller based 12 calibrated steps 5 mV/div to 20 V/div, (1-2-5 sequence) with variable control to 50 V/cm. Display on LCD.

Accuracy : $\pm 3\%$ (in Calibrated Position)

Input Impedance : 1 M Ω || 25 pF (approximately)

Input Coupling : DC-AC-Gnd

Timebase (T)

Time Coefficients : Microcontroller based 23 Calibrated steps, 0.05 μ s / Div to 1s / Div (1-2-5 sequence) with variable to 2.5 s / cm. With magnifier X 10 to 5 ns / Div. Display on LCD

Accuracy : $\pm 3\%$ (in Calibrated Position)

Hold off : Variable control for Stable Triggering

Saw tooth output : 5Vpp (approximately)

Trigger system : Auto or normal (variable Level) LED indication for stable triggering.

Source : CH I, CH II, Alternate, External

Coupling : AC, DC, HF, Line

Slope : Positive or Negative

Sensitivity : 0.5 Div (1.5 Div - 120 MHz)

Trigger Bandwidth : 120 MHz

Horizontal Deflection (X)

Input : via CH 2 (see Y Deflection Specifications)

Bandwidth : DC - 5 MHz (-3dB)

X - Y phase shift : < 3° upto 100 KHz

Sweep Delay

Sweep Delay : Digitally controlled & calibrated

Modes : Normal, Search, Delay

Range : 0.1 s-100 ms with variable 10 : 1 to 1s LED indication for ranges

General Information

Component Tester : Built-in single touch

Test Voltage : Maximum 8.6 V_{rms} (Open circuited)

Test Current : Maximum 8 mA_{rms} (Short circuited)

Test Frequency : 50 Hz, Test circuit grounded to chassis.

Continuity Tester : With beeper

Cathode Ray Tube : 140 mm rectangular tube with internal graticule

Accelerating potential : 12 KV (approximately)

Display : 8 \times 10 cm

Trace Rotation : Adjustable on front panel

Input Voltage : Maximum 300 V_{rms} (CAT II)

Calibrator : Square Wave Generator 1KHz (approximately) 0.2Vpp for Probe compensation

Z-modulation : Positive TTL level

Stabilized Power supply : All operating voltage including the EHT

Mains Supply : 230 V \pm 10%, 50Hz . 60Hz on request

Power Consumption : 47 VA (approximately)

Operating condition : 0°C - 40°C and 80% RH at 30°C

Dimensions (mm) : W 285 \times D 380 \times H 145

Weight : 7.5 Kg. (approximately)

Subject to Change