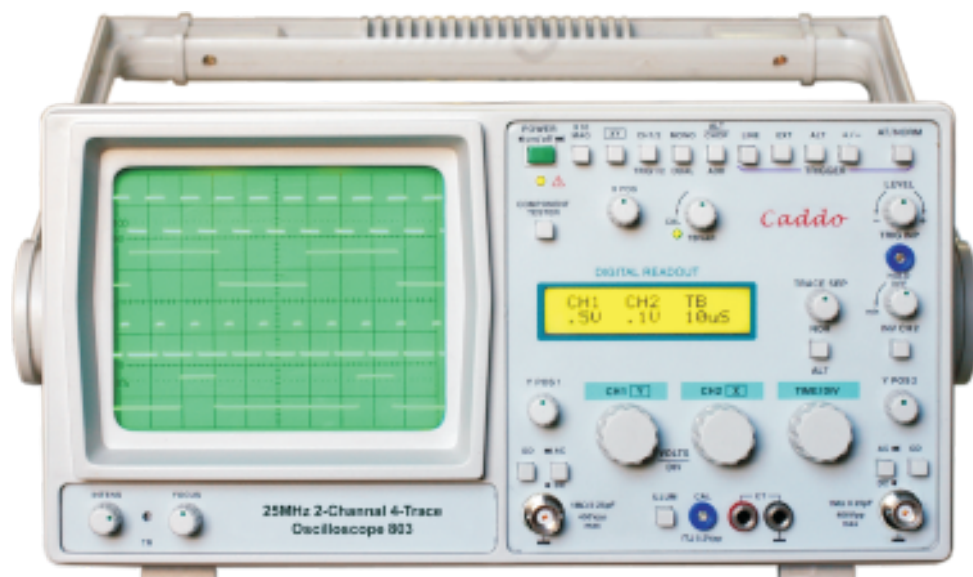# Caddo 803

25MHz MicroController based 2 Channel 4 Trace Digital Readout Oscilloscope

- ⊙ Microcontroller based
- ⊙ Digital Touch
- ⊙ Digital Readout
- ⊙ New Trendy Look
- ⊙ Indigenously Designed
- ⊙ RS232 Interface & PC Software
- ⊙ User friendly

New Trendy Oscilloscope - Freedom from Mechanical Switching

Caddo 803 is a Completely Indigenously designed Microcontroller Based Oscilloscope. Besides setting a New Trend, it gives a feel of smooth Digital Touch. It's sleek Digital Readout backlit LCD displays Volts/Div and Time/Div settings when these controls are operated. Equipped with RS232 Interface and PC software, Caddo 803 can be remotely controlled for these settings. Rugged yet light weight 803 has sharp and bright trace. The Vertical Bandwidth is more than adequate for all your needs and you can easily view signals upto 50MHz. The 4 Trace feature let's you view original and expanded signals simultaneously for quick analysis. Manufactured in a ISO 9000-2001 factory Caddo 803 is the ideal scope for just about any purpose.

Features

- Digital Readout with backlit LCD
- RS 232 interface and PC Software.
- 2 Channel-4 Trace Display.
- 25 MHz Bandwidth.
- X 10 Magnification.
- 20 ns max sweep speed.
- Stable triggering upto 50MHz.
- Alternate triggering.
- Variable hold off & Line triggering.
- Component and Continuity Tester.
- Sharp Trace CRT & Auto focus.
- Graticule illumination

Caddo 803

Microcontroller based 25MHz 2 Channel 4 Trace Digital Readout Oscilloscope

Technical Specifications

Operating Modes

Channel 1, Channel 2, Channel 1 & 2 Alternate or chopped (approx. 350 KHz), X-Y operation (Ratio 1:1 Input via CH 2), Add/ Sub CH 1 $\pm$ CH 2, Invert CH 2.

Vertical deflection (Y)

(Identical channels)
Bandwidth : DC-25 MHz(-3dB)
Risetime : 14 ns (approx.)
Deflection coefficients :
12 calibrated steps 2mV/cm - 10V/cm (1-2-5 sequence) Adjustable on Digital Readout windows
Accuracy : $\pm$ 3%
Hold-Off : Variable Control for stable Triggering
Input Imped.: 1MΩ || 25pF (approx.)
Input coupling : DC-AC-GND
Maximum Input voltage :
400 V (DC + Peak AC)

Timebase :

Time coefficients : 18 calibrated steps, 0.5 μs/cm-0.2 s/cm (1-2-5 sequence) with magnifier X10 to 50 ns/cm, with variable control to 20 ns/cm.
With ALT/NOR switch magnified sweep and normal sweep can be seen simultaneously
Accuracy : $\pm$ 3% (in Cal position)
Ramp output : 5 V_{PP} (approx.)

Trigger System :

Modes : Automatic or Variable Trigger level
Source : CH 1, CH 2, ALT-CH 1/CH 2, Line, Ext.

Slope : Positive or Negative
Coupling : AC, Line Trigger
Sensitivity : Int 5 mm., Ext 0.8 V (approx.)
Trigger Bandwidth : 40 MHz

Horizontal Deflection (X) :

Bandwidth : DC-2.5 MHz (-3 dB)
X-Y mode : Phase Shif< 3° at 60 KHz
Deflection coefficients : 12 calibrated steps 5mV/cm-20 V/cm (1-2-5 sequence)
Input Impedance : 1 M W || 25 pF (approx)

Built-in Single Touch Component Tester

Test Voltage : Max 8.6 V_{rms} (Open)
Test Current : Max 8 mA_{rms} (Shorted)
Test Frequency : 50Hz, Test circuit grounded to chassis
Continuity Tester :
Beeper sounds < 75 Ω approx.

General Information

Cathode Ray Tube : 140 mm Rectangular tube with internal graticule. P31 Phosphor
Accelerating potential : 2KV (approx.)
Graticule Illumination : On/Off Switch on front Panel
Display : 8 x 10 cm
Trace rotation : Adjustable on front panel
Calibrator : Square Wave generator l KHz(approx.), 0.2 V$\pm$ 1% for probe compensation.

Z Modulation : TTL level
Stabilized Power Supply :
All operating voltages including the EHT.
Mains voltage : 230V $\pm$ 10%, 50 Hz
Power Consumption : 33 VA (approx.)
Weight (approx) : 7.5 Kg (approx.)
Dimensions (mm) : W285-H145-D380
Operating Temp. : 0-40°, 95% RH
Finish : Off white with handle and tilt stand.

Included Accessories:

1. Manual	1 No.
2. BNC-Test Prod	1 No.
3. BNC - Crocodile Cable	1 No.
4. Test Prods	1 pair

Subject to change