

Test & Measuring Instruments and Industrial Products Selection Guide 2009



Founded in 1983, Scientech started as a Test & Measurement Instruments Manufacturing & Marketing Company. Today, organizational infrastructure extends beyond Test & Measurement, having grown into a renowned Measurement Solutions Provider. Scientech is proud to be the number one Oscilloscope Manufacturing Company in India.

We have a committed R&D Team specializing in VLSI, RF, Microcontrollers, Embedded Wireless technologies, etc. Our marketing team is one of the best and keeps the R & D on its toes as it has an insatiable hunger for new products. This attitude of the marketing team is responsible for the constant addition of new products to our growing portfolio. Scientech also runs technical training programs under Scientech Learning Centre. (www.slc.bz)

Our Strengths

- State of the art ISO 9001:2000
- certified manufacturing facilities
- Highly qualified R & D Team
- A go-getter Marketing Team
- Excellent Service Support
- 400 Innovative products
- 250 People, 13 Offices, 60 Dealers
- Exports to 52 Countries
- CE marked Products
- RoHS Compliant products

Technical Support

Our policy is not just of offering our customers with products but also in providing them with the technical support. They can contact us anytime. We have a highly qualified staff with backgrounds in industry. We have Experts who will help you in integrating our products in your lab.

Analog Oscilloscopes (Microcontroller based)



Caddo 806/Caddo 810

These are state of the art High Frequency Oscilloscopes. Besides setting a new trend, these give you feel of smooth digital touch. They have a large Digital Readout backlit LCD. The Vertical Bandwidth of both channels are sufficient for high frequency applications and we can display signals upto 80 MHz & 120 MHz respectively.

Caddo 805

35 MHz 2 Channel 4 Trace Oscilloscope with sweep delay and 1mv sensitivity. Digital readout on LCD for (V / div, time / div) with built-in RS-232 interface and software.

Caddo 831

Caddo 831 is the most modern LCD readout Analog 30 MHz Oscilloscope in the world today. It offers a very convenient 80 character backlit LCD for display of set parameters, which can also be controlled via USB. It boosts of Auto/ timebase and built in Frequency measurement.

Caddo 804

2 Channel 4 Trace 30 MHz, High Sensitivity 50 MHz Triggering Oscilloscope with sweep delay and 1 mV/div sensitivity. It boosts of Auto/ timebase and built in Frequency measurement.

Caddo 803

30 MHz 2 Channel 4 Trace Oscilloscope with component tester and built in RS-232 interface.



Caddo 800 Portable Oscilloscope

15 MHz Single channel Oscilloscope with Digital Readout on LCD and with built-in Component & Continuity Tester.

Multi-Function Instruments-Techlabs

Caddo 821 TechLab

30 MHz Dual Trace Oscilloscope with built-in 100 KHz Function Generator & Frequency counter and choice of Logic Scope / Curve Tracer / Power Supply / Digital Voltmeter as an additional Built-in Option.

Caddo 823 TechLab

30 MHz Dual Trace Oscilloscope with 10 MHz Function - Pulse Generator with AM Balance, AM Standard & FM modulation & Power Supply with choice of Frequency Counter/ Logic Scope/ Curve Tracer/ Digital Voltmeter as an additional Built-in Option.



Caddo 824 Power Scope TechLab

30 MHz Oscilloscope with choice of LogicScope, Power Supply, Curve Tracer or Digital Voltmeter as an additional built-in option and PowerScope module for Floating measurements with completely isolated inputs, X100 & X10 attenuation, 1500 V max input.

Caddo 825

The Advanced Techlab Caddo 825 is completely indigenously designed Test Bench having 30 MHz Cathode Ray Oscilloscope, Frequency Counter (30 MHz), Function Generator (10 MHz), 3½ Digit Bench Top Digital Multimeter and DC Power Supply.

Caddo 826

Caddo 826 Optiscope is a new innovative instrument, very useful to conduct fiberoptic experiments in the laboratory with built in light source, detector, power meter and Oscilloscope display. It forms a single unit for Fiber Optic laboratory. The modulating & demodulating signals can be seen on the cathode ray tube. The timing speed and vertical sensitivity of optiscope are chosen to meet the normal experiments requirements.

Caddo 827 Electronic WorkStation

An advance workstation consisting of instrument panel and working area. The workstation has ergonomically designed instrument panel in vertical position and with sufficient work area for working. Wheel (with locking mechanism) is provided in the workstation so that it can be easily moved. ELCB/MCB is provided with AC supply for safety purpose.



Digital Storage Oscilloscopes

Handheld 2400 Series

Caddo 2401 : 1 MHz Universal Scope Meter

Caddo 2405 : 5 MHz Universal Scope Meter

Caddo 2420 : 20 MHz 2 Channel Digital Storage Oscilloscope with 100 MS/s sampling rate& TFT Color Display

Caddo 2460

60 MHz 2 Channel Digital Storage Oscilloscope with 250 MS/s sampling rate & TFT color Display

3000 (Large Display) Series

Caddo 3060LT : 60 MHz 2 Channel Digital Storage Oscilloscope with 250 MS/s & Color TFT display

Caddo 3060LS : 60 MHz 2 Channel Digital Storage Oscilloscope with Color STN Display

Caddo 3025LS :

25 MHz 2 Channel Digital Storage Oscilloscope with Color STN Display

Scientech 7000 Series

Mono / Color Digital Storage Oscilloscope with Bandwidth 25 MHz to 200 MHz, Maximum Real time Sampling Rate : 200 MHz to 1GHz, Multimath function : + , - , × , FFT.



DS 1000 Series

DS1000A : Bandwidth 60 MHz to 300 MHz, RTS - 2 GSa/s(Single Channel), 1 GSa/s(Dual Channels), ETS Rate -50 GSa/s, Refresh Rate - 2000 wfms/s, Memory Depth -10 kpts (Single Channel), 5 kpts (Dual Channel)

DS1000B : 4 channels , Bandwidth 60 MHz to 200MHz; RTS Rate - Upto 2 GSa/s(half channel), ETS Rate - Upto 50 GSa/s, Memory Depth - 16 kpts (half channel)

DS1000E / D : Bandwidth 50 to 100 MHz, Dual Channels, RTS Rate - Upto 1 GSa/s (Single Channel), ETS Rate Upto 25 GSa/s, Rise Time 3.5 ns, 7ns

PC based DSO

SDS200A : 2 CH, 200 MHz, 5 GSa/s ETS, FFT / Math function to analyze the waveforms, and an advanced trigger function enables capture of complex signals.

Spectrum Analyzers

NS Series

1 KHz ~ 3 / 13.2 / 26.5 GHz Frequency Range, Minimum



1 Hz Frequency resolution, Minimum 10 Hz Resolution Bandwidth (Option), Dynamic range +30 dBm to 110 dBm, Peripheral Interface : USB 1.1 / RS-232C / GPIB, 6.4 Inch High Resolution TFT Color LCD

Caddo Spectrum Analyzer Series

Caddo 8005 / 8005TG / 8010 / 8010G : Frequency Range 0.15~ 500 MHz / 1 GHz, 4-digit display (Center & Marker Frequency), 0.1 MHz resolution, Amplitude range 100 to +13dBm, Filters; 20 KHz, 250 KHz and video filter, Built-in Tracking Generator (8005TG /8010TG) Output power; +1 dBm to -50 dBm (50 W).

MSA 400 Series

MSA 438 / 458 : Compact & Lightweight Color Hand-held Spectrum Analyzer with Frequency Range 50 KHz to 3.3 GHz / 8.5 GHz, Resolution Bandwidth 3 KHz to 3 MHz, Input Impedance 50 W / 75 W switch selectable, Measuring Functions like Channel Power, Adjacent Channel Power, Occupied Bandwidth, build-in Tracking Generator (MSA 338 TG).

MSA 438E : Color Spectrum Analyzer with EMI test.

MR2300 : Total EMI Precompliance system

MR2350 : Total EMS Precompliance system

Vector Network Analyzer

Bode 100 : The vector network analyzer Bode100 performs the gain phase measurements and impedance measurements functions. It displays the measured values as functions of frequency (sweep measurement). Due to the high resolution DDS source even extremely small frequency spans are possible. Measurements of high-Q devices are fully supported by Bode100.

Core Technical Specification: Frequency range: 1 Hz to 40 MHz, Source Signal level : -27 dBm to 13 dBm, Dynamic range: 100 mV full scale (for input attenuator 0 dB), Accuracy: < 0.1 dB (calibrated) / < 0.5° (calibrated), Number of points : 10 – 16501 (freely selectable)



Logic Analyzers

LA-4000 & LA-5000 series :

High speed operation : 500 MHz/ 200 MHz Sampling Rate. Deep Data Buffers Up to 512 K Sampling per channel. 40, 80, 60 Channel version. 16 Level Sequential Triggering ,



UP to 16 bits each. Save & Export to Excel, Word, Match card. High Impedance Probe with test circuit (200 K Ohm by 3 pf). Variable threshold voltage Range : Range -6.5 Volt to +6.12 Volt). Threshold type : TTL, ECL, 3V Logic, CMOS and RS - 232. High Data bandwidth of 100 MHz. Handheld & Compact instrument having Measurement Range upto 2.5 GHz with Good resolution 0.1Hz Display.

Function/Arbitrary Waveform Generator

DG1000 Series : Function/Arbitrary Waveform Generators based on DDS technology with 20 MHz maximum output rate and 10 built-in waveforms

DG2000 Series : Function/Arbitrary Waveform Generators generate Sine signal with 25 MHz, 40 MHz maximum output rate and little distortion.

DG3000 Series : Function/Arbitrary Waveform Generators provide waveforms up to 120 MHz with fast rise and fall.

Function-Pulse Generators (Microcontroller based)

Caddo 4065 :

10 MHz Function-Pulse-Data Generator with 40 MHz Frequency Counter & RS-232 Interface. Equipped with a internal Modulation Generator it provides different types of modulated signals like-AM standard-AM balance-FM-ASK-FSK-PWM and also a Serial Data output. It has microcontroller based menu-driven electronic switching for Functions, Frequencies, Attenuation and Modulation with bright backlit Liquid Crystal Display.



Caddo 4064 : 10 MHz Modulation Function-Pulse Generator with 40 MHz Frequency Counter, Sine/ Square/ Triangle/ Pulse /Ramp, AM Balance, AM Standard, FM, ASK, FSK & PWM Modulation, Internal Sweep & DC Offset, 3½ digit readout, Signal output upto 20 Vpp (o.c.), 20, 40 dB fixed & 20dB variable attenuation, Rise & Fall time £50 ns with built-in RS-232 interface.

Caddo 4063A : 5 MHz Function-Pulse Generator with 40 MHz Frequency Counter

The New Caddo 4063A is a high performance 5 MHz Function-Pulse Generator with a Frequency Counter. The Caddo 4063A provides different types of modulated signals like - AM Standard - AM Balance - Frequency Modulation, PWM and uses a separate operations for Function, Frequency, Modulation, (Speed & width variable) and Frequency Counter.

Caddo 4062 : 2 MHz AM/FM Function-Pulse Generator with 40 MHz Frequency Counter, Sine/ Square/ Triangle/ Pulse /Ramp, PWM, AM (Balance, Standard) & FM modulation, 20 Vpp output and DC Offset, 3½ Digit Display, Signal output upto 20 Vpp (o.c.) TTL Output, Internal Sweep.

Caddo 4061 : 2 MHz Function-Pulse Generator with 40 MHz Frequency Counter, Sine/ Square/ Triangle/ Pulse/ Ramp, 20Vpp output & DC Offset, FM modulation, 3½ Digit Display.

Caddo 4060 : 1 MHz Function Generator

0.1 Hz - 1 MHz, Sine/ Square / Triangle, 30Vpp Output,

Square wave risetime £70ns, FM-Input / External Sweep, Overdrive indicator, TTL / CMOS Trigger output, Output impedance : 50/600 ohms, Digital Readout for Frequency & Amplitude.

Caddo 4060C : 1 MHz Function Generator

It is a low cost extremely versatile Function Generator. It has a wide frequency range with LCD display for frequency. The output amplitude can be varied upto 20 V_{pp} (open circuit) and can be attenuated to -60 dB. All outputs are short-circuit proof. It has TTLout for Digital Lab experiments.

Caddo 4036 : Low Distortion Audio Generator

10 Hz-100 KHz, Sine, Square Output, 30Vpp Output, Square wave risetime £70ns, TTL/CMOS Trigger output, Output impedance: 50/600 switchable.

Caddo 1500 : 150 MHz RF Generator with Amplitude Modulation

DC Power Supplies

AD01 : Fixed Power Supply

Output Voltage (Fixed) : +12, -12, +5V, -5V

PD01 : Fixed Power Supply

Output Voltage (Fixed) : +35 V, -35 V, +15 V

ST 4073 : Single Power Supply

30V, 2A with CC & CV operation.

ST4074 : Multiple Power Supply

0 - 30V, 0 ±15V (Dual Tracking); 5V, 1A with CC & CV operation.



ST4075 : Dual Power Supply

2 × 0-30 V, 2A with CC & CV operation.

ST4076 : Dual Tracking Power Supply

0-30V/2A, 5V/2A with CC & CV.

ST4077 : Multiple Power Supply

0-30V/2A, 0 ±15V/1 A (Dual Tracking)& 5V/2A with CC & CV operation.

ST 4078 : Power Supply

The 30V, 3A power supply has a constant current (CC) and constant voltage (CV) source for laboratories, industries and field testing applications.

ST 4079 : 0-30, 3A Dual Power Supply

Caddo 4073 : Programmable Power Supply

30V, 2 A with CC and CV operation

Caddo 9363 : Programmable Power Supply 0-36V, 3A with built-in RS232 Interface, 10 memory locations, Power shutdown memory function.

Caddo 9365 : Programmable Power Supply 0-30V, 5A

Digital Multimeters



4011 : 3½ Digit Manual Ranging DMM with DC-AC V & DC-AC Current, Resistance / Diode / Continuity Testing Capacitance/Transistor HFE Measurement.

Caddo 51 : 3½ Digit Multimeter with TTL Logic, Square Waveform output & Frequency Measurement.

Caddo 61 : 4½ Digit Benchtop Digital multimeter with large LCD.

Caddo 61 T : True-RMS 4½ Digit Multimeter

Caddo 62 : True-RMS 5½ Digit Multimeter with 12 different measurement capabilities, 512 reading storage and mathematical calculation function.



Caddo 63 : True-RMS 6½ Digit DMM with 12 different measurement capabilities, 512 reading storage and mathematical calculation function.

Rigol DM 3000 Series : Digital Multimeters are excellent digital multimeters with high precision & accuracy, multiple function and automatic measurements.

Rigol VM 3000 Series : Virtual Digital Multimeters are high performance products with high precise data acquisition, automatic measurements, multi-channel multiplexer tests, multi-math functions and any sensor measurements.

Other Instruments

Caddo 4092 Distortion Meter : Distortion meter tenders a minimum residual Distortion and Noise of 0.05. Best suitable for Measurement & Testing of High Quality Audio System. It has a resolution of 0.1% Automatic Frequency range selectors, and Automatic Frequency Nulling 15% capture range. it is a must for all Distortion related measurements. It also offers a 50 MHz Frequency counter.

Caddo 9250 : Handheld & Compact instrument

Measurement Range upto 2.5 GHz with Good resolution 0.1Hz Display.

Caddo 9300 : Cable Fault Locator

Caddo 9301 : Insulation Tester

AC Millivoltmeter

Transformer Testing Instruments TH2818X Series TH2818X series meter is an automatic transformer multi-parameter measurement instrument used for quality control of electronic transformer over a wide range of frequency (20 Hz to 300 KHz). Almost all low-voltage transformer parameters can be scanned.

MultiLab

It combines Spectrum Analyzer, Digital Storage Oscilloscope, Logic Analyzer, Signal Analyzer, Digital Signal Generator, DMM (optional). Excellent for Lab & Field testing.

LCR Meters

Caddo 9302 : Hand Held LCR meter

Caddo 9304 : Hand Held LCR meter

Caddo 9305 : Benchtop LCR meter 10 KHz



Power Analyzer

PS250 : Power monitor provides complete power monitoring and analysis in a simple basic package. Measurement of 140 different parameters such as Volts, Amps, Watts, power factor, frequency etc. Four current and three voltage channels. This allows to directly measure all phase and neutral in single, two-phase, three-phase, split delta, 2 PT / 2CT, DC etc.

PS3000 : Energy Analyzer provides simplicity, reliability and complete answers in the analysis of electrical power. With PS 3000 you can analyze how energy is used and its costs. Evaluate the quality of your power, trouble shoot wiring and equipment, basic disturbance analysis capabilities and many more.

PS4000 : Power quality Analyzer provides complete answers to your power quality and power analysis questions in an incredibly small, powerful, and intuitive package.

PCB Design Lab

Caddo 71 : Single & Double sided PCB prototyping

machine performing Drilling / Milling / Routing operation. No chemicals required. It is environmental friendly. Does not required computer to connect and drive machine all the time. Process data are saved into compact Flash Card.



Fiber Optics Instruments

OTDR-2-3 : 850/1300 nm Multimode and or 1310/ 1550 Single mode. Software provides Trace Storage and Analysis. Battery-powered for portability.

OMTDR 1000 : Multipurpose TDR for optics & metallic cables.

LED/Laser Light Source : For different wavelengths & power.

LED/Laser Power Meter : For different wavelengths & power.

Optical Fusion Splicer

MX 1800 is a machine which aligns X & Y coordinates alternatively while model MX 2600 does it simultaneously. These are ideal low cost machines for laboratory & field work.

Soldering & Desoldering Series

Caddo 80 : Soldering Station

Power consumption 60 W, Input voltage 170 to 270 V, Temperature range 180 to 480 °C.

Caddo 81 : Digital Soldering Station

Power consumption 60 W, Input voltage 170 to 270 V, Temperature range 180 to 480 °C.

Caddo 82 : Desoldering Station

Desoldering 70 Watts, Input 170 to 270 V AC, Temp range 180 to 480°C.

Caddo 83 : Soldering & Desoldering Station

Power consumption 60 W, Input voltage 170 to 270 V, Temperature range 180 to 480°C.

Caddo 84 : Digital Rework Station

Power consumption 60 W, Input voltage 170 to 270 V, Temperature range 180 to 480°C.



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