

20MHz DUAL TRACE OSCILLOSCOPE



Features

- ★ Elegant
- ★ DC to 20MHz Bandwidth
- ★ 5mV/div Sensitivity on Both Channels
- ★ CH1 & CH2 Independent Channels
- ★ CH1 Signal Output
- ★ Algebraic Addition and Subtraction
- ★ X-Y Operation
- ★ 0.2 μ s/div to 0.5s/div Time Base (Uncal upto 20ns)
- ★ Z Modulation TTL Level
- ★ 8 x 10 cm Display Internal Graticule
- ★ TV Triggering Frame (V) & Line (H)
- ★ Line Trigger
- ★ ALT Triggering

Specifications

VERTICAL DEFLECTION (Y)

Deflection Coefficient (CH1 & CH2)	: 5mV/div to 5V/div in 10 calibrated steps in 1-2-5 sequence.
Accuracy	: $\pm 3\%$.
Variable	: 1 / 2.5 times uncalibrated continuously variable control extends the Deflection Coefficient approx. to 12.5V/div.
Bandwidth	: DC to 20MHz (-3dB), dc coupled. 10Hz to 20MHz (-3dB), ac coupled.
Rise Time	: 17.5ns.
Display Modes	: CH1, CH2, DUAL (CH1, CH2 ALT/CHOP), Algebraic ADD and SUBTRACT, CH2 INVT & X-Y (CH1 as X, CH2 as Y).

Input Impedance : 1M ohms // 25pF approx.

Maximum Input Voltage : 300 Volts (dc + peak ac).

Internal Trigger Signal : CH1, CH2 or Alternate.

CH1 OUTPUT

Output Voltage : Minimum 20mV/div. Bandwidth 50Hz to 5MHz with impedance of 50 ohms.

TIME BASE

Sweep Speed : 20 Calibrated steps. 0.2 μ s/div to 0.5s/div in 1, 2 & 5 sequence.

Accuracy : 3%.

Sweep Magnifier : x10 Magnification increases the fastest sweep (20ns and 50ns/div are uncalibrated).

Accuracy : $\pm 5\%$.

Variable : Uncalibrated continuously variable control between steps, extends slowest sweep speed to 1.25s/div (approx.).

TRIGGER SYSTEM

Sweep Mode : AUTO, NORM.

Source : CH1, CH2, ALT, LINE, EXT.

Slope : Positive or Negative.

Coupling : AC/DC coupling.

Trigger Sensitivity

Internal : Auto : 1.5 div - 20Hz to 20MHz.

Normal : 1.5 div - 10Hz to 20MHz.

Alt : ≥ 3 div - 50Hz to 20MHz.

External : Auto : 0.3V p-p - 20Hz to 20MHz.

Normal : 0.3V p-p - 10Hz to 20MHz.

HORIZONTAL DEFLECTION

Deflection Coefficient : Same as CH1.

Bandwidth : DC - 500KHz (-3dB).

Input Impedance : 1M ohms // 25pF approx.

GENERAL INFORMATION

Cathode Ray Tube : 140mm Rectangular screen, Internal Graticule, 8 x 10 cm, P31 phosphor. Accelerating potential : 2kV.

Z-Modulation : ± 5 V p-p signal upto 2MHz modulates at normal intensity.

Calibrator : Provides 2Vp-p $\pm 2\%$, 1KHz approx. square-wave output for probe compensation.

Power Requirement : 220V AC $\pm 10\%$, 50Hz $\pm 5\%$, 35VA (max.).

Dimensions : 150 (H) x 310 (W) x 455 (D) mm approx.

Weight : 8 Kgs. approx.

Standard Accessories : Instruction Manual, Mains cord, BNC to Crocodile Input Leads - 2 Nos.

Optional Accessories : High impedance switch probe with x1 or x10 attenuation.

Environmental Specifications : Operating conditions Normal : 10°C to 35°C, RH 45% to 85%. Operational : 0°C to 40°C, RH 35% to 90%.

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

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