

20MHz Dual Trace Oscilloscope with Alt-Mag

- 20MHz Bandwidth
- Alt-Mag sweep for simultaneous display of main and X5 magnified trace
- 1mV/Div Vertical sensitivity
- Alternate trigger for a stable display of unrelated signals
- X5 Sweep Magnification
- Large 6 inch CRT with internal graticule, for parallax free measurements
- Autofocus
- Internal Sync separator circuit for stable triggering on video signals
- Lightweight with low power consumption
- Supplied with 2 (X1, X10) probes and operating manual



SPECIFICATIONS

Vertical Amplifier (CH 1 and CH 2)

Sensitivity: 5mV/Div to 5V/Div in 10 steps (1-2-5 seq);

X5 Mag: 1mV/Div to 1V/Div

Accuracy: $\pm 3\%$ (5% in X5 Mag)

Bandwidth (-3dB): DC to 20MHz

Rise Time: < 17.5ns

Input Impedance: 1M Ω + 25pF

Input Coupling: AC-Gnd-DC

Invert Channel: CH2

Display Modes: CH1, CH2, Add, Dual

Chop Frequency: 250KHz $\pm 3\%$

Maximum Input Voltage: 400V (DC or AC peak)

CH1 Signal Output: 20mV/Div into 50 Ω : (50Hz to 5MHz)

Horizontal Sweep

Sweep Time: 0.1 μ s/Div to 0.2s/Div in 20 steps

(1-2-5 seq); X5 Mag: 20ns/Div to 40ms/div

Accuracy: $\pm 3\%$ ($\pm 5\%$ in X5 Mag)

Display Mode: A, Alt-Mag, XY

Sweep Magnifier: X5 $\pm 5\%$

Trace Sep: 1.5 Div Min

Horizontal Amplifier

Linearity: $\pm 3\%$ ($\pm 5\%$ in X5 Mag)

X-Y Mode: CH 1-X axis, CH 2-Y axis

Sensitivity: Same as CH 1 Vertical Amplifier

Bandwidth (-3dB): DC to 500KHz

Phase Error: $\leq 3^\circ$ DC to 50KHz

Triggering

Modes: Auto, Norm, TV-V, TV-H

Source: CH 1, CH 2, Line, EXT

Coupling: AC

Slope: Positive or Negative

Trigger Sensitivity:

Int: DC to 2MHz (2 Div), 2MHz to 20MHz (3 Div)

Ext: DC to 2MHz (200mV P-P), 2MHz to 20MHz (300mV P-P)

TV Synch: Int (1 Div Min), Ext (1 V P-P Min)

TV-H (Television Line synchronizing Freq)

TV-V (Television Frame synchronizing Freq)

Automatically switched by the A Time/Div Front panel control

External Trigger Input:

Input Impedance: 1M Ω + 20pF

Maximum Input Volts: 300V (DC or AC peak)

Z Axis Modulation

Sensitivity: 5V P-P (Intensity increases with a negative going input)

Bandwidth (-3dB): DC to 2MHz

Input Impedance: Approx. 33K Ω

Maximum Input Voltage: 30V (DC or AC peak)

Calibrator Signal

Frequency: Approx. 1KHz ($\pm 20\%$)

Voltage: 0.5V P-P $\pm 3\%$

Duty Cycle: Approx. 50%

CRT

Type: 6" rectangular CRT with illuminated internal 8 X 10 Div graticule (1 Div = 1cm)

Acceleration Voltage: 2KV

General Specifications

Power Requirements:

AC Input Voltage: 100V, 120V, 220V, 240V $\pm 10\%$ selectable

Frequency: 50/60Hz

Power Consumption: 35W

Operating Temperature: 0 to 40°C

Size: 5.5" H x 13.4" W x 14.8" D

Weight: 24 lbs

Supplied Accessories: Manual, AC Power cord,

(2) X1/X10 Probes