

20MHz Dual Trace Oscilloscope with Alt-Mag

- 20MHz Bandwidth
- Alt-Mag sweep for simultaneous display of main and X10 magnified trace
- Alternate trigger for a stable display of unrelated signals
- X10 Horizontal Magnification
- P-P auto trigger
- High brightness CRT with internal graticule
- Z-axis modulation
- Light weight with low power consumption



SPECIFICATIONS

Vertical Amplifier (CH 1 and CH 2)

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

Accuracy: $\pm 3\%$

Bandwidth (-3dB): DC: 0Hz to 20MHz, AC: 10Hz to 20MHz

Rise Time: $< 17.5\text{ns}$

Input Impedance: Res: $1\text{M}\Omega \pm 5\%$, Cap: $25\text{pF} \pm 5\text{pF}$

Input Coupling: AC, DC, GND

Invert Channel: CH2

Display Modes: CH1, CH2, ALT, Chop, ADD, X-Y

Maximum Input Voltage: 400V (DC or AC p-p)

Horizontal Sweep

Sweep Times: 200ns/Div to 0.5s/Div in 20 steps (1-2-5 seq);

(X10 Mag: 20ns/Div to 50ms/Div)

Mag: X10

Accuracy: $\pm 3\%$ (8% X10 Mag)

Sweep Modes: TV, Normal, Auto and p-p Auto

Triggering

Source: CH 1, CH 2, ALT, Line and EXT

Slope: Positive or Negative adjustable levels

Coupling: AC

Sensitivity:

Int: DC to 10MHz (1 Div), DC to 20MHz (1.5 Div)

Ext: DC to 10MHz (0.3 p-p), DC to 20MHz (0.5 p-p)

TV Synch: Int (2 Div), Ext (0.5V p-p)

Auto Triggering: $> 20\text{Hz}$

External Trigger Input:

Impedance: $1\text{M}\Omega \pm 5\% + 20\text{pF}$ Capacitance

Maximum Input Voltage: 160V (DC or AC peak)

Z Axis Modulation

Sensitivity: 5V p-p

Maximum Input Voltage: 50V or AC p-p

Polarity: Intensity increases as the voltage increases

Input Resistance: $10\text{K}\Omega$

Bandwidth (-3dB): DC to 1MHz

X-Y Mode

Inputs: X-Axis (CH1), Y-Axis (CH2)

Sensitivity: Same as CH1

Accuracy: $\pm 5\%$

Frequency Response (-3dB):

DC: 0Hz to 1MHz, AC: 10Hz to 1MHz

Maximum Voltage: Same as CH1

X-Y Phase Difference: $< 3^\circ$ from DC to 50KHz

Calibrator Signal

Waveform: Square Wave

Amplitude: $0.5\text{V} \pm 3\%$ p-p

Frequency: $1\text{KHz} \pm 2\%$

CRT

Size: 8cm x 10cm (3.15" x 3.94")

Acceleration Voltage: 2KV

General Specifications

Power Requirements: AC Input Voltage: 120V or 220V

Frequency: 50/60Hz

Power Consumption: 40W

Operating Temperature: 0 to 40°C (32 to 104°F)

Size: 5.1" (H) x 12.5" (W) x 15.75" (D)

Weight: 16 lbs

Accessories: Manual, Line cord, X1/X10 Probes (2)