

- 60MHz Bandwidth
- Alternate trigger for a stable display of unrelated signals
- Alt-Mag sweep for simultaneous display of the normal and X10 magnified trace
- Autofocus
- Internal sync separator circuit for stable triggering of video signals
- Large 6 inch CRT with internal graticule for parallax free waveform measurements
- Z axis input and CH 1 output
- Sweep speeds to 10ns/Div
- 10kV acceleration voltage



6506

■ 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: $\pm 3\%$ ($\pm 5\%$ in X5 Mag)

Bandwidth(-3dB): DC to 60MHz

Rise Time: < 5.8ns

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 into 50 Ω : (50Hz to 5MHz)

Horizontal Sweep Sweep Time: 0.1 μ s/Div to 0.2s/Div in 20 calibrated steps (1-2-5); X10 Mag: 10ns/Div to

20ms/Div **Accuracy:** $\pm 3\%$ ($\pm 5\%$ in X10 Mag)

Display Mode: A, Alt-Mag, XY Dual

Sweep Magnifier: X10 $\pm 5\%$

Trace Sep: 1.5 Div Min

Horizontal Amplifier

Linearity: $\pm 3\%$ ($\pm 5\%$ in X10 Mag)

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

Sensitivity: Same as CH 1 Vertical Amplifier

Bandwidth: DC: DC to 500kHz; AC: 10Hz to 500kHz

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

Triggering

Source: CH 1, CH 2, Line, EXT

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

Slope: Positive or Negative

Trigger Sensitivity: Int: DC to 5MHz: 0.5 Div 5MHz to 40MHz:

1.5 Div; 40MHz to 60MHz: 2.5 Div

Ext: DC to 5MHz: 200mV P-P; 5MHz to 40MHz: 800mV P-P

40MHz to 60MHz: 1V P-P

TV: 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: Impedance: 1M Ω + 20 pF

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

Z Axis Modulation

Sensitivity: $\pm 5V$ P-P Intensity increases with a negative going voltage input

Bandwidth (-3dB): DC to 2MHz

Input Impedance: Approx. 33 K 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: 10 kV

General Specifications

Power Requirements:

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

Frequency: 50/60Hz

Power Consumption: 55W

Operating Temperature: 0 to 40 $^\circ$ C

Dimensions: 5.3" H x 13.4" W x 14.8" D

Weight: 24 lbs.

Supplied Accessories: Manual, AC Power cord, (2) X1/X10 Probes