

- Four traces may be simultaneously displayed in ALT-sweep
- Five vertical display modes: CH1, CH2, Dual, Add, Subtract
- Vertical mode triggering for displaying 2 unrelated signals
- Trigger hold-off circuit for synchronizing complex waveforms
- Sweep speeds to 2nS/Div
- 12kV acceleration voltage for bright displays of low duty cycle signals
- Z axis input
- TV Synchronization for either line or field patterns
- 20MHz bandwidth limit switch for triggering signals in a noisy environment



6510

SPECIFICATIONS

Vertical Amplifier (CH 1 and CH 2)

Sensitivity: 5 mV/Div to 5 V/Div in 7 calibrated steps, (X5 Mag 1mV/Div to 1 V/Div)
Accuracy: $\pm 3\%$ ($\pm 5\%$ in X5 Mag)
Bandwidth (-3dB): DC to 100MHz
Rise Time: ≤ 3.5 ns, X5 Mag: 20MHz Bandwidth: ≤ 17 ns
Input Impedance: $1M\Omega + 25$ pF
Input Coupling: AC-Gnd-DC
Invert Channel: CH2
Display Modes: CH1, CH2, Add, Subtract, Dual (Alt/Chop)
Maximum Input Voltage: 400V (DC or AC peak)
CH1 Signal Output: 20mV into 50Ω

Horizontal Sweep

Timebase A Sweep Time: 50ns/Div to 0.2 s/Div in 21 calibrated steps (1-2-5) **X10 Mag:** 5ns/Div to 20ms/Div
Accuracy: $\pm 3\%$ ($\pm 5\%$ in X10 Mag)
Hold Off: Continuously adjustable to $> 2X$ sweep time
Timebase B
Sweep Time: 50ns/Div to 10 μ s/Div in 8 steps (1-2-5)
Accuracy: $\pm 3\%$
Delay Time: Continuously variable from 0.2 μ s to 2s
Delay Modes: Continuous or triggered
Sweep Displays: A, B, A alt B, B triggered, X-Y

X-Y Mode

CH1-X axis, CH2-Y axis Sensitivity: Same as CH1 vertical amplifier
Bandwidth (X-axis): DC to 2MHz
Phase Error: $\leq 3^\circ$ DC to 10kHz

Triggering

Trigger Modes: Auto, Normal, TV-V, TV-L
Source: Int. CH2, line ext.
Coupling: AC
Slope: Positive or negative
Trigger Sensitivity: Int: DC to 10MHz: 0.5 Div 10MHz to 100MHz: 1.5 Div.
 Ext.: DC to 10MHz: 200mV; 10MHz to 100MHz: 500mV
 TV: Int.: 1 Div Min; Ext: 1V P-P
External Trigger Input: Impedance $1M\Omega + 20$ pF
 Maximum Input Volts: 400V 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: $\approx 2 K\Omega$

Calibrator Signal

Voltage: 0.5V $\pm 3\%$ P-P 1kHz Square Wave
Duty Cycle: Approx. 50%

CRT

Type: 6" rectangular CRT with internal graticule. (1 Div = 1cm)
Acceleration Voltage: 12 kV

General Specifications

Power Requirements: AC Input Voltage: 100V, 120V, 220V, 240V selectable
Frequency: 50/60Hz
Power Consumption: 55W
Operating Temperature: 0 to 40°C at 35% to 85% relative humidity
Dimensions: 5.3" H \times 12.7"W \times 14.5" D
Weight: 24 lbs.
Supplied Accessories: Manual, 1 AC Power cord, (2) X10 Probes