

# 30 MHz Analog Oscilloscopes



**2125A**

- Delayed sweep in 23 steps
- Built-in component tester for capacitors, inductors, diodes, transistors, zener diodes
- 23 step time base to 0.1ms/div
- Deluxe handle/tilt stand

## Specifications

model

2125A

### VERTICAL AMPLIFIERS (CH 1 and CH 2)

Sensitivity	5 mV/div to 5 V/div, 1 mV/div to 1 V/div at x5
Attenuator	10 steps in 1-2-5 sequence. Vernier control provides full adjustment between steps
Accuracy	±3%, ±5% at x5
Input Resistance	1 MΩ ±2%
Input Capacitance	25 pF ±10pF
Frequency Response	5 mV to 5 V/div: DC to 30 MHz (-3dB) X5: DC to 10 MHz (-3dB)
Rise Time	12ns (Overshoot ≤5%)
Operating Modes	CH 1: CH 1, single trace
CH 2	CH 2, single trace
ALT	dual trace, alternating
CHOP	dual trace, chopped
ADD	algebraic sum of CH 1 + CH 2
Polarity Reversal	CH 2 only
Max. Input Voltage	400 V (DC to AC peak)

### SWEEP SYSTEM

Operating Modes	Main, mix (both main sweep and delay sweep displayed), or Delay (only delay sweep displayed), X-Y
Main Sweep Speed	0.1 μs/div to 2.0 s/div in 1-2-5 sequence, 23 steps Vernier control provides fully adjustable sweep time between steps
Accuracy	±3%
Sweep Magnification	10X, ±5%
Delayed Sweep Speed	0.1 ms/div to 0.1 s/div in 1-2-5 sequence, 23 steps
Holdoff	Continuously variable for Main sweep up to 10 times normal
Delay Time Position	Continuously variable to control percentage of display that is devoted to main and delay sweep

### TRIGGERING

Triggering Modes	AUTO (free run) or NORM, TV-V, TV-H
Trigger Source	CH 1, CH 2, ALT, EXT, LINE
Maximum External Trigger Voltage	300 V (DC + AC peak)
Trigger Coupling	AC 30 Hz to 30 MHz TV H Used for triggering from horizontal sync pulses TV V Used for triggering from vertical sync pulses

### TRIGGER SENSITIVITY

Coupling	Bandwidth	Int	Ext
Auto	100Hz - 40MHz	1.5 div	≥ 0.1Vp-p
Norm	100Hz - 40MHz	1.5 div.	≥ 0.1Vp-p
TV-V	DC -1kHz	0.5 div	≥ 0.05Vp-p
TV-H	1 kHz - 100kHz	0.5 div	≥ 0.05Vp-p

### HORIZONTAL AMPLIFIER (Input through channel 1 input)

X-Y Mode	Switch selectable using X-Y switch. CH 1: X axis CH 2: Y axis
Sensitivity	Same as vertical channel 2
Accuracy	Y-Axis: ±3%, X-Axis: ±6%
Input Impedance	Same as vertical channel 2
Frequency Response	DC to 1MHz typical (-3 dB), to 6 div horizontal deflection
X-Y Phase Difference	3° or less at 50 kHz
Max. Input Voltage	Same as vertical channel 2

### CRT

Type	Rectangular with internal graticule
Display Area	8 x 10 div (1 div = 1 cm)
Accelerating Voltage	2 kV
Phosphor	P31
Trace Rotation	Electrical, front panel adjustable

### COMPONENT TESTER

Components Tested	Resistors, Capacitors, Inductors, and Semiconductors
Test Voltage	6 V rms maximum (open)
Test Current	11 mA maximum (shorted)
Test Frequency	Line Frequency (60 Hz in USA)
Calibrating Voltage	1 kHz (±10%) Positive Square Wave, 0.2 V p-p (±2%)

## Other Specifications

Within Specified Accuracy	50° to 95° F (10° to 35° C), ≤ 85% RH
Full Operation	32° to 104° F (0° to 40° C), ≤ 85% RH
Storage	-4° to 158° F (-20° to +70° C)
Power Requirements	Approximately 40 W
All other operating specifications are the same as model 2120A	
Dimensions (WxHxD)	7 x 14.5 x 14.25" (180 x 370 x 440 mm)
Weight	Approximately 17.2 lbs (7.8 kg)

## Accessories

**Three Year Warranty**

SUPPLIED: Instruction Manual, Two PR-33A x1/x10 Probes or equivalent, AC Power Cord, Spare Fuse  
OPTIONAL: PR-32A Demodulator Probe, PR-37A x1/x10/REF Probe, PR-100A x100 Probe, PR-55 High Voltage x1000 Probe, LC-210A Carrying Case