30 MHz **Analog Oscilloscopes**

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





Specifications		
VERTICAL AMPLIFIER	PS (CH 1 and CH 2)	
/ERTICAL 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	
7 ttteridator	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)	
rrequericy response	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	agebraic sum of CH 1 + CH 2	
Polarity Reversal	CH 2 only	
Max. Input Voltage	400 V (DC to AC peak)	
Max. Input voitage	100 V (DC to /tc pcak)	
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 0.1s/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	
TRICCERING		
FRIGGERING	AUTO (for man) on NORM TV/V TV/H	
Triggering Modes	AUTO (free run) or NORM, TV-V, TV-H	
Trigger Source	CH 1, CH 2, ALT, EXT, LINE	
Maximum External	300 V (DC + AC ===1)	
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 SENSITIVIT	Υ	
Coupling	Bandwidth Int Ext	
Auto	100Hz - 40MHz 1.5 div ≥ 0.1Vp-p	
Norm	100Hz - 40MHz 1.5 div. ≥ 0.1Vp-p	
TV-V	$\begin{array}{ccc} DC - IkHz & 0.5 \text{ div} & \geq 0.05 \text{Vp-p} \end{array}$	
1 V-V	DC - 1 KI 12 U.3 UIV	

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	ame 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			

model

CRT				
Туре	Rectangular with internal graticule			
Display Area	$8 \times 10 \text{ div } (1 \text{ div} = 1 \text{ cm})$			
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 maximim (shorted)
Test Frequency	Line Frequency (60 Hz in USA)
Calibrating Voltage	LkHz (+10%) Positive Square Wave 0.2 V n-n (+2%)

Other Specifications		
Calibrating Voltage	1 kHz (±10%) Positive Square Wave, 0.2 V p-p (±2%)	
Test Frequency	Line Frequency (60 Hz in USA)	
Test Current	II mA maximim (shorted)	
icst voltage	tage 0 v mis maximum (open)	

50° to 95°F (10° to 35°C), ≤ 85% RH	
32° to 104° F (0° to 40°C), ≤ 85% RH	
-4° to 158° F (-20° to +70°C)	
Approximately 40 W	
All other operating specifications are the same as model 2120A	
7 x 14 .5 x 14.25" (180 x 370 x 440 mm)	
Approximately 17.2 lbs (7.8 kg)	

V	Hccessories	Three Tear Warrant	
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	SUPPLIED: Instruction Manual, Two PR-33A x1/x10 Probes or equivalent,		
	AC Power Cord, Spare I	Fuse	
	OPTIONAL: PR-32A Demodulator Probe, PR-37A x1/x10/REF. Probe, PR-100A x10		
	Probe, PR-55 High Volta	age x1000 Probe, LC-210A Carrying Case	

TV-H