

30 MHz Analog Oscilloscope

model

- Dual or single trace operation 5 mV/div sensitivity
- AUTO/NORM triggered sweep operation with AC, TVH, TVV and line coupling
- Calibrated 23 step time base with x 10 magnifier
- Compact low-profile design

Specifications

Sensitivity	ERS (Ch I and CH 2)		
Attenuator	10 steps in 1-2-5 sequence. Vernier control provides full		
Altenuator	adjustment between steps.		
Accuracy	$\pm 3\%$, $\pm 5\%$ at X5		
Input Resistance	$\pm 3\%$, $\pm 3\%$ at x3		
Input Capacitance	25 pF ±10pF		
Frequency Response	5 mV to 5 V/div: DC to 30 MHz (-3dB). X5: DC to 10 MHz		
riequency Response	(-3dB)		
Rise Time	12 ns (Overshoot <5%)		
Operating Modes	CH 1: CH 1, single trace		
CH 2	CH 2, single trace		
ALT	dual trace, alternating		
СНОР	dual trace, chopped		
ADD	agebraic sum of CH 1 + CH 2		
Polarity Reversal	CH 2 only		
Maximum Input Voltage	400 V (DC + AC peak)		
Sweep Speed	0.1 μ s/div to 2s/div in 1-2-5 sequence, 23 steps Vernier control provides fully adjustable sweep time between steps.		
	Vernier control provides fully adjustable sweep time between steps		
Accuracy	Vernier control provides fully adjustable sweep time between steps ± 3%		
Accuracy Sweep Magnification			
Sweep Magnification TRIGGERING Triggering Modes	± 3% 10x AUTO (free run) or NORM, TV-V, TV-H		
Sweep Magnification TRIGGERING Triggering Modes Trigger Source	±3% 10x		
Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External	± 3% 10x AUTO (free run) or NORM, TV-V, TV-H CH 1, CH 2, ALT, EXT, LINE		
Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External Trigger Voltage	± 3% 10x AUTO (free run) or NORM, TV-V, TV-H CH 1, CH 2, ALT, EXT, LINE 300 V (DC + AC peak)		
Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External Trigger Voltage Trigger Coupling	±3% 10x AUTO (free run) or NORM, TV-V, TV-H CH 1, CH 2, ALT, EXT, LINE 300 V (DC + AC peak) AC 30 Hz to 30 MHz		
Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External Trigger Voltage Trigger Coupling TV H	±3% 10x AUTO (free run) or NORM, TV-V, TV-H CH 1, CH 2, ALT, EXT, LINE 300 V (DC + AC peak) AC 30 Hz to 30 MHz Used for triggering from horizontal sync pulses		
Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External Trigger Voltage Trigger Coupling TV H TV V	±3% 10x AUTO (free run) or NORM, TV-V, TV-H CH 1, CH 2, ALT, EXT, LINE 300 V (DC + AC peak) AC 30 Hz to 30 MHz		
Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External Trigger Voltage Trigger Coupling TV H TV V TRIGGER SENSITIVITY	±3% 10x AUTO (free run) or NORM, TV-V, TV-H CH 1, CH 2, ALT, EXT, LINE 300 V (DC + AC peak) AC 30 Hz to 30 MHz Used for triggering from horizontal sync pulses Used for triggering from vertical sync pulses		
Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External Trigger Voltage Trigger Coupling TV H TV V TRIGGER SENSITIVITY Coupling	± 3% 10x AUTO (free run) or NORM, TV-V, TV-H CH 1, CH 2, ALT, EXT, LINE 300 V (DC + AC peak) AC 30 Hz to 30 MHz Used for triggering from horizontal sync pulses Used for triggering from vertical sync pulses Bandwidth Int Ext		
Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External Trigger Voltage Trigger Coupling TV H TV V TRIGGER SENSITIVITY Coupling Auto	± 3% 10x AUTO (free run) or NORM, TV-V, TV-H CH 1, CH 2, ALT, EXT, LINE 300 V (DC + AC peak) AC 30 Hz to 30 MHz Used for triggering from horizontal sync pulses Used for triggering from vertical sync pulses Bandwidth Int Ext 100 Hz-30 MHz 1.5 div		
Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External Trigger Voltage Trigger Coupling TV H TV V TRIGGER SENSITIVITY Coupling Auto Norm	± 3% 10x AUTO (free run) or NORM, TV-V, TV-H CH 1, CH 2, ALT, EXT, LINE 300 V (DC + AC peak) AC 30 Hz to 30 MHz Used for triggering from horizontal sync pulses Used for triggering from vertical sync pulses Bandwidth Int Ext 100 Hz-30 MHz 1.5 div DC to 30 MHz 1.5 div		
Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External Trigger Voltage Trigger Coupling TV H TV V TRIGGER SENSITIVITY Coupling Auto	± 3% 10x AUTO (free run) or NORM, TV-V, TV-H CH 1, CH 2, ALT, EXT, LINE 300 V (DC + AC peak) AC 30 Hz to 30 MHz Used for triggering from horizontal sync pulses Used for triggering from vertical sync pulses Bandwidth Int Ext 100 Hz-30 MHz 1.5 div		



The Right Source For Your Test & Measurement Needs

2120B HORIZONTAL AMPLIFIER (Input through channel 2 input) Switch selectable using X-Y switch. CH 1: X axis X-Y Mode CH 2 Y axis Sensitivity Same as vertical channel I Same as vertical channel I Input Impedance Frequency Response DC to I MHz typical (-3 dB) X-Y Phase Difference Approximately 3° at 50 kHz Maximum Input Voltage Same as vertical channel I CRT Туре Rectangular with internal graticule Display Area $8 \times 10 \text{ div} (1 \text{ div} = 1 \text{ cm})$ Accelerating Voltage 2 kV Phosphor P3 I Trace Rotation Electrical, front panel adjustable Storag to $158^{\circ}F(-20^{\circ} \text{ to } +70^{\circ}C)$ Power Requirements 100/120/220/240 VAC ±10%, 50/60 Hz, approximately 40 W.

Two Year Warranty Accessories 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

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	frace Rotation	Electrical, none panel acquistable		
	Other Specifications			
	Calibrating Voltage	I kHz (\pm 10%) Positive Square Wave, 2 V p-p (\pm 3%)		
n steps.	ENVIRONMENT			
	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° E (-20° to $+70^{\circ}$ C)		

12.8" x 5.2" x 15.7" (324 x 132 x 398 mm) Dimensions (WxHxD) Weight Approximately 16.8 lbs (7.6 kg)