



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

| VERTICAL AMPLIFI | | | |
|--|--|---|---------------|
| 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 | Ι 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 | 12 ns (Overshoot <5%) | | |
| Operating Modes | CH I: CH I, 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. | | |
| Accuracy | ±3% | | |
| Sweep Magnification | 10x | | |
| TRIGGERING Triggering Modes Trigger Source | AUTO (free run) or NO CH 1, CH 2, ALT, EXT | | Н |
| Ingger Source | CITT, CITZ, ALI, LAI | LINE | |
| | | , LINE | |
| Maximum External | $300 V (DC + AC peol}$ | | |
| Maximum External Trigger Voltage | 300 V (DC + AC peak | | |
| Maximum External Trigger Voltage Trigger Coupling | AC 30 Hz to 30 MHz | <) | ne pulses |
| Maximum External Trigger Voltage Trigger Coupling TV H | AC 30 Hz to 30 MHz Used for triggering from | <) n horizontal syr | |
| Maximum External Trigger Voltage Trigger Coupling TV H TV V | AC 30 Hz to 30 MHz | <) n horizontal syr | |
| Maximum External Trigger Voltage Trigger Coupling TV H TV V TRIGGER SENSITIVITY | AC 30 Hz to 30 MHz Used for triggering from Used for triggering from | k) n horizontal syn n vertical sync j | bulses |
| Maximum External Trigger Voltage Trigger Coupling TV H TV V TRIGGER SENSITIVITY Coupling | AC 30 Hz to 30 MHz Used for triggering from Used for triggering from Bandwidth | <) n horizontal syn n vertical sync j Int | Ext |
| Maximum External Trigger Voltage Trigger Coupling TV H TV V TRIGGER SENSITIVITY Coupling Auto | AC 30 Hz to 30 MHz Used for triggering from Used for triggering from Bandwidth 100 Hz-30 MHz | <) n horizontal syn n vertical sync j Int I.5 div | Ext 100 mV |
| Maximum External Trigger Voltage Trigger Coupling TV H TV V TRIGGER SENSITIVITY Coupling Auto Norm | AC 30 Hz to 30 MHz Used for triggering from Used for triggering from Bandwidth 100 Hz-30 MHz DC to 30 MHz | s) n horizontal syn n vertical sync Int I.5 div I.5 div I.5 div | Ext |
| Maximum External Trigger Voltage Trigger Coupling TV H TV V TRIGGER SENSITIVITY Coupling Auto | AC 30 Hz to 30 MHz Used for triggering from Used for triggering from Bandwidth 100 Hz-30 MHz | <) n horizontal syn n vertical sync j Int I.5 div | Ext 100 mV |

| | 2120B | | |
|-----------------------|--|--|--|
| HORIZONTAL AMP | LIFIER (Input through channel 2 input) | | |
| X-Y Mode | Switch selectable using X-Y switch. CH 1: X axis | | |
| CH 2 | Y axis | | |
| Sensitivity | Same as vertical channel 1 | | |
| Input Impedance | Same as vertical channel 1 | | |
| Frequency Response | DC to I MHz typical (-3 dB) | | |
| X-Y Phase Difference | Approximately 3° at 50 kHz | | |
| Maximum Input Voltage | | | |
| 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 | | |
| Other Spe | ecifications | | |
| Calibrating Voltage | I kHz (±10%) Positive Square Wave, 2 V p-p (±3%) | | |
| 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°F (-20° to +70°C) | | |
| Power Requirements | 100/120/220/240 VAC ±10%, 50/60 Hz, | | |
| | approximately 40 W. | | |
| Dimensions (WxHxD) | 7 x 14.5 x 17.25" (180 x 370 x 440 mm) | | |
| Weight | Approximately 17.2 lbs (7.8 kg) | | |
| | 1 | | |

Accessories Two 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/REE Probe, PR-100A x100 Probe, PR-55 High Voltage x1000 Probe, LC-210A Carrying Case



