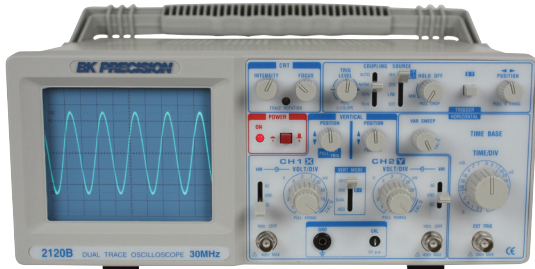


Data Sheet

30 MHz Dual Trace Analog Oscilloscope With Probes

Model 2120B



B&K Precision's model 2120B is a dual trace oscilloscope that offers high performance at a low price. Most competitor's entry level oscilloscopes have a 20 MHz bandwidth, while B&K Precision's models 2120B has a bandwidth of 30 MHz. This oscilloscope is built by and backed by B&K Precision, a company that has been selling reliable, durable, value priced test instruments for over 50 years.

- Dual or single trace operation
- 5 mV/div sensitivity
- AUTO/NORM triggered sweep operation with AC, TVH, TVV and line coupling
- Compact low profile design
- cUL certified



| Specifications | 2120B |
|---|--|
| 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 | 12 ns (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 |
| Maximum Input Voltage | 400 V (DC + AC peak) |
| SWEEP SYSTEM | |
| Sweep Speed | 0.1 μs/div to 2 s/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 | 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 | |
| Auto | Bandwidth: 100 Hz-30 MHz, Internal: 1.5 div, External: 100 mV |
| Norm | Bandwidth: DC to 30 MHz, Internal: 1.5 div, External: 100 mV |
| TV V | Bandwidth: 20 Hz-1 kHz, Internal: .5 div, External: 100 mV |
| TV H | Bandwidth: 1 kHz-100 kHz, Internal: .5 div, External: 100 mV |
| HORIZONTAL AMPLIFIER (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 1 MHz typical (-3 dB) |
| X-Y Phase Difference | Approximately 3° at 50 kHz |
| Maximum Input Voltage | Same as vertical channel 1 |
| 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 |
| Calibrating Voltage | 1 kHz (± 10%) Positive Square Wave, 2 V p-p (± 3%) |
| GENERAL | |
| Temperature | 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) |
| Two Year Warranty | |
| Supplies Accessories | Instruction Manual, Two PR-33A x1/x10 Probes or equivalent, AC Power Cord, Spare Fuse |
| Optional Accessories | PR-32A Demodulator Probe, PR-37A x1/x10/REF Probe, PR-100A x100 Probe, PR-55 High Voltage x1000 Probe, LC-210A Carrying Case |

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[B&K Precision:](#)

[2120B](#)