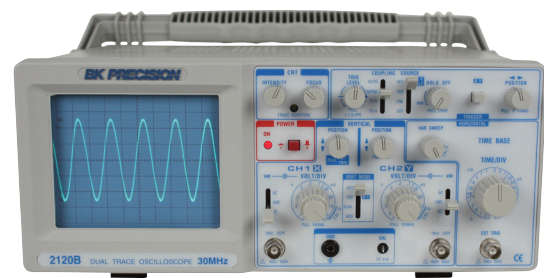


30 MHz Dual Trace Analog Oscilloscope With Probes  
Model 2120B



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<br>Full Operation: 32° to 104°F (0° to 40°C), ≤85% RH<br>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                                |

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