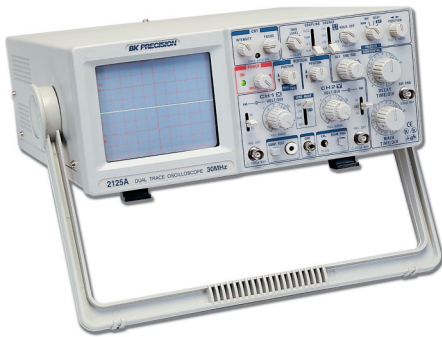


# Data Sheet

## 30 MHz Delay Trace Analog Oscilloscope With Probes Model 2125A



B&K Precision's model 2125A is a dual trace oscilloscope with a delayed sweep 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 2125A 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.

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



Specifications	2125A
<b>VERTICAL AMPLIFIERS (CH 1 and CH 2)</b>	
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	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	algebraic sum of CH 1 + CH 2
Polarity Reversal	CH 2 only
Max. Input Voltage	400 V (DC to AC peak)
<b>SWEEP SYSTEM</b>	
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
<b>TRIGGERING</b>	
Triggering Modes	AUTO (free run) or NORM, TV-V, TV-H
Trigger Source Maximum External	CH 1, CH 2, ALT, EXT, LINE
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
<b>TRIGGER SENSITIVITY</b>	
Auto	Bandwidth: 100Hz - 40MHz, Internal: 1.5 div, External: ≥0.1Vp-p
Norm	Bandwidth: 100Hz - 40MHz, Internal: 1.5 div, External: ≥0.1Vp-p
TV-V	Bandwidth: DC - 1kHz, Internal: 0.5 div, External: ≥0.05Vp-p
TV-H	1 kHz - 100kHz, Internal: 0.5 div, External: ≥0.05Vp-p
<b>HORIZONTAL AMPLIFIER (Input through channel 1 input)</b>	
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	Same 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
<b>CRT</b>	
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
<b>COMPONENT TESTER</b>	
Components Tested	Resistors, Capacitors, Inductors, and Semiconductors
Test Voltage	6 V rms maximum (open)
Test Current	11 mA maximum (shorted)
Test Frequency	Line Frequency (60 Hz in USA)
Calibrating Voltage	1 kHz (± 10%) Positive Square Wave, 0.2 V p-p (± 2%)
<b>GENERAL</b>	
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 14.25" (180 x 370 x 440 mm)
Weight	Approximately 17.2 lbs (7.8 kg)
<b>Three Year Warranty</b>	
Supplied 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