Data Sheet

Analog Oscilloscopes With Probes

2100C Series



B&K Precision's 212x Series are dual trace oscilloscopes that offers high performance at a low price. Most competitor's entry level oscilloscopes have a 20 MHz bandwidth, while B&K Precision's 212x Series have a bandwidth of 30-60 MHz.

These oscilloscopes are built by and backed by B&K Precision, a company that has been selling reliable, durable, value priced test instruments for over 60 years.

Common Features & Benefits

- Dual or single trace operation
- 5 mV/div sensitivity
- Calibrated 23-step time base with X10 magnifier
- Video sync trigger
- Alternate/chop sweep
- Sum and difference capability

Additional Features

- Built-in component tester (2125C only)
- Built-in 50 MHz frequency counter (2121C only)
- Delayed time base
- Main, Mix, Delay, X-Y sweep modes

Specifications	2120C	2121C	2125C	2160C
Bandwidth	30 MHz	30 MHz	30 MHz	60 MHz
Sweep Time		0.1 μ s/div to 2 s/div		20 ns/div to 5 s/div
Component Tester	-	-	V	V
Counter	-	V	-	-





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Specifications	2120C & 2121C		
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 Frequency Response	25 pF ±10 pF 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	agebraic 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		
Max 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		
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	(Input through channel 2 input)		
X-Y Mode	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis		
X-Y Mode Sensitivity	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel 1		
X-Y Mode Sensitivity Input Impedance	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel 1 Same as vertical channel 1		
X-Y Mode Sensitivity	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel I Same as vertical channel I DC to I MHz typical (-3 dB)		
X-Y Mode Sensitivity Input Impedance Frequency Response	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel 1 Same as vertical channel 1		
X-Y Mode Sensitivity Input Impedance Frequency Response X-Y Phase Difference	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel I Same as vertical channel I DC to I MHz typical (-3 dB) Approximately 3° at 50 kHz		
X-Y Mode Sensitivity Input Impedance Frequency Response X-Y Phase Difference Maximum Input Voltage	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel I Same as vertical channel I DC to I MHz typical (-3 dB) Approximately 3° at 50 kHz		
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X-Y Mode Sensitivity Input Impedance Frequency Response X-Y Phase Difference Maximum Input Voltage CRT Type Display Area Accelerating Voltage Phosphor	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel 1 Same as vertical channel 1 DC to 1 MHz typical (-3 dB) Approximately 3° at 50 kHz Same as vertical channel 1 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm)		
X-Y Mode Sensitivity Input Impedance Frequency Response X-Y Phase Difference Maximum Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel I Same as vertical channel I DC to 1 MHz typical (-3 dB) Approximately 3° at 50 kHz Same as vertical channel I Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV P3 I Electrical, front panel adjustable		
X-Y Mode Sensitivity Input Impedance Frequency Response X-Y Phase Difference Maximum Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation Calibrating Voltage	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel 1 Same as vertical channel 1 DC to 1 MHz typical (-3 dB) Approximately 3° at 50 kHz Same as vertical channel 1 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV P3 1		
X-Y Mode Sensitivity Input Impedance Frequency Response X-Y Phase Difference Maximum Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation Calibrating Voltage COUNTER (2121C)	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel I Same as vertical channel I DC to 1 MHz typical (-3 dB) Approximately 3° at 50 kHz Same as vertical channel I Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV P3 I Electrical, front panel adjustable 1 kHz (±10%) positive square wave, 2 V p-p (±3%)		
X-Y Mode Sensitivity Input Impedance Frequency Response X-Y Phase Difference Maximum Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation Calibrating Voltage COUNTER (2121C) Display	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel 1 Same as vertical channel 1 DC to 1 MHz typical (-3 dB) Approximately 3° at 50 kHz Same as vertical channel 1 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV P31 Electrical, front panel adjustable 1 kHz (±10%) positive square wave, 2 V p-p (±3%) 5 digits, 0.36" red LED, display at "Hz" or "kHz" auto range		
X-Y Mode Sensitivity Input Impedance Frequency Response X-Y Phase Difference Maximum Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation Calibrating Voltage COUNTER (2121C) Display Display Resolution	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel 1 Same as vertical channel 1 DC to 1 MHz typical (-3 dB) Approximately 3° at 50 kHz Same as vertical channel 1 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV P3 1 Electrical, front panel adjustable 1 kHz (±10%) positive square wave, 2 V p-p (±3%) 5 digits, 0.36" red LED, display at "Hz" or "kHz" auto range Auto select from 0.001 Hz to 1 kHz depending on the frequency		
X-Y Mode Sensitivity Input Impedance Frequency Response X-Y Phase Difference Maximum Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation Calibrating Voltage COUNTER (2121C) Display Display Resolution Max. Counter Range	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel 1 Same as vertical channel 1 DC to 1 MHz typical (-3 dB) Approximately 3° at 50 kHz Same as vertical channel 1 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV P31 Electrical, front panel adjustable 1 kHz (±10%) positive square wave, 2 V p-p (±3%) 5 digits, 0.36" red LED, display at "Hz" or "kHz" auto range Auto select from 0.001 Hz to 1 kHz depending on the frequency 0.1 Hz to 50 MHz		
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X-Y Mode Sensitivity Input Impedance Frequency Response X-Y Phase Difference Maximum Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation Calibrating Voltage COUNTER (2121C) Display Resolution Max. Counter Range Accuracy Time Base GENERAL Temperature Power Requirements Dimensions (WXHxD) Weight	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel 1 Same as vertical channel 1 DC to 1 MHz typical (-3 dB) Approximately 3° at 50 kHz Same as vertical channel 1 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV P3 1 Electrical, front panel adjustable 1 kHz (±10%) positive square wave, 2 V p-p (±3%) 5 digits, 0.36" red LED, display at "Hz" or "kHz" auto range Auto select from 0.001 Hz to 1 kHz depending on the frequency 0.1 Hz to 50 MHz +0.01% + 1 digit or 1/99999 + 1 digit 18,432 MHz + 10ppm (23 °C ±5 °C) 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 100/120/220/240 VAC ±10%, 50/60 Hz, approximately 40 W. 7 x 14.5 x 17.25" (180 x 370 x 440 mm) 17.2 lbs (7.8 kg) One Year Warranty Instruction manual, two PR-33A x1/x10 probes or equivalent,		
X-Y Mode Sensitivity Input Impedance Frequency Response X-Y Phase Difference Maximum Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation Calibrating Voltage COUNTER (2121C) Display Display Resolution Max. Counter Range Accuracy Time Base GENERAL Temperature Power Requirements Dimensions (WxHxD)	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel 1 Same as vertical channel 1 DC to 1 MHz typical (-3 dB) Approximately 3° at 50 kHz Same as vertical channel 1 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV P31 Electrical, front panel adjustable 1 kHz (±10%) positive square wave, 2 V p-p (±3%) 5 digits, 0.36" red LED, display at "Hz" or "kHz" auto range Auto select from 0.001 Hz to 1 kHz depending on the frequency 0.1 Hz to 50 MHz +0.01% + 1 digit or 1/99999 + 1 digit 18,432 MHz + 10ppm (23 °C ±5 °C) 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 100/120/220/240 VAC ±10%, 50/60 Hz, approximately 40 W. 7 x 14.5 x 17.25" (180 x 370 x 440 mm) 17.2 lbs (7.8 kg) One Year Warranty Instruction manual, two PR-33A x1/x10 probes or equivalent, AC power cord and spare fuse		
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Specifications	2125C & 2160C		
VERTICAL AMPLIFIER	S (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	Ι ΜΩ +2%		
Input Capacitance	25 pF ± 10 pF		
Frequency Response	5 mV to 5 V/div: DC to 30 MHz (-3dB), X5: DC to 10 MHz (-3dB) DC to 60 MHz (-3 dB). Model 2160C		
rrequency response	X5 MAG: DC to 15 MHz (-3 dB). Model 2160C		
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	agebraic sum of CH 1 + CH 2		
Polarity Reversal	CH 2 only		
Max. Input Voltage	400 V (DC to AC peak)		
SWEEP SYSTEM			
On antina Mada	Main, mix (both main sweep and delay sweep displayed),		
Operating Modes	or Delay (only delay sweep displayed), X-Y		
Main Sween SpeeD	0.1 μs/div to 2.0 s/div in 1-2-5 sequence,		
Main Sweep SpeeD	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		
TRIGGERING			
Triggering Modes	AUTO (free run) or NORM, TV-V, TV-H		
Trigger Source Maximum Ex	xternal 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		
TRIGGER SENSITIVIT	Y		
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		
	FIER (Input through channel 1 input)		
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	ame as vertical channel 2		
Frequency Response	DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz		
X-Y Phase Difference	Same as vertical channel 2		
Max. Input Voltage	Same as vertical channel 2		
CRT	Postongular with internal analysis		
Type Display Area	Rectangular with internal graticule		
Accelerating Voltage	8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C)		
Phosphor	P31		
Trace Rotation	Electrical, front panel adjustable		
COMPONENT TESTER	. ,		
Components Tested Test Voltage	Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open)		
Test Current	11 mA maximim (shorted)		
rest Currett			
Test Frequency			
Test Frequency Calibrating Voltage	Line frequency (60 Hz in USA)		
Calibrating Voltage			
-	Line frequency (60 Hz in USA) I kHz (\pm 10%) positive square wave, 0.2 V p-p (\pm 2%)		
Calibrating Voltage GENERAL	Line frequency (60 Hz in USA) I kHz (\pm 10%) positive square wave, 0.2 V p-p (\pm 2%) Within specified accuracy: 50° to 95°F (10° to 35°C), \leq 85% RH		
Calibrating Voltage	Line frequency (60 Hz in USA) I kHz (\pm 10%) positive square wave, 0.2 V p-p (\pm 2%) Within specified accuracy: 50° to 95°F (10° to 35°C), \leq 85% RH Full operation: 32° to 104° F (0° to 40°C), \leq 85% RH		
Calibrating Voltage GENERAL Temperature	Line frequency (60 Hz in USA) 1 kHz (\pm 10%) positive square wave, 0.2 V p-p (\pm 2%) Within specified accuracy: 50° to 95°F (10° to 35°C), \leq 85% RH Full operation: 32° to 104° F (0° to 40°C), \leq 85% RH Storage: -4° to 158° F (-20° to +70°C)		
Calibrating Voltage GENERAL Temperature Power Requirements	Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%) 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) 100/120/220/240 VAC ±10%, 50/60 Hz, Approximately 40 W		
Calibrating Voltage GENERAL Temperature Power Requirements Dimensions (WxHxD)	Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%) 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) 100/120/220/240 VAC ±10%, 50/60 Hz, Approximately 40 W 7 x 14 .5 x 14.25" (180 x 370 x 440 mm)		
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