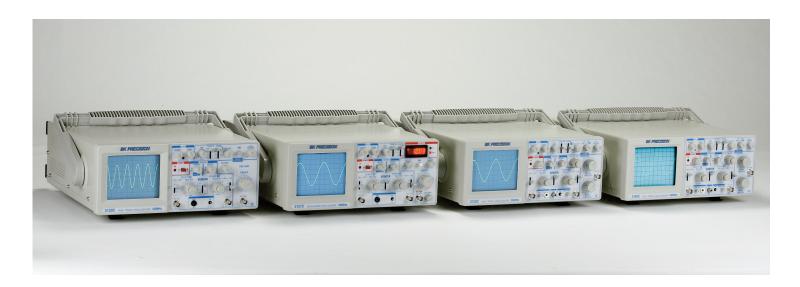
Data Sheet

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 µs/div to 2 s/div		20 ns/div to 5 s/div	
Component Tester	-	-		\checkmark
Counter	-		-	-





Analog Oscilloscopes 2100C Series

Specifications	2120C & 2121C
VERTICAL AMPLIFIERS (0	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
Attenuator	full adjustment between steps
Accuracy	±3%, ±5% at X5
Input Resistance	1 MΩ ±2%
Input Capacitance	$25 \text{ pF} \pm 10 \text{ pF}$
Frequency Response Rise Time	5 mV to 5 V/div: DC to 30 MHz (-3dB). X5: DC to 10 MHz (-3dB) 12 ns (Overshoot ≤ 5%)
Operating Modes	CH 1: CH 1, 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 SYSTEM	
Sweep Speed	0.1 μ s/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	1 Ox
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 TV V	Used for triggering from horizontal sync pulses
	Used for triggering from vertical sync pulses
TRIGGER SENSITIVITY	Der duidth 100 Hz 20 MHz Internal, 15 die Esternal, 100 mM
Auto	Bandwidth: 100 Hz-30 MHz, Internal: 1.5 div, External: 100 mV 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: 2 KHz-100 kHz, Internal: .5 div, External: 100 mV
	(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 Accelerating Voltage	8 x 10 div (1 div = 1 cm) 2 kV
Phosphor	P31
Trace Rotation	Electrical, front panel adjustable
Calibrating Voltage	1 kHz (\pm 10%) positive square wave, 2 V p-p (\pm 3%)
COUNTER (2121C)	· · · · ·
Display	5 digits, 0.36" red LED, display at "Hz" or "kHz" auto range
Display Resolution	Auto select from 0.001 Hz to 1 kHz depending on the frequency
Max. Counter Range	0.1 Hz to 50 MHz
Accuracy	+0.01% + 1 digit or $1/99999 + 1$ digit
Time Base	18,432 MHz + 10ppm (23 °C ±5 °C)
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 \pm 10%, 50/60 Hz, approximately 40 W.
Dimensions (WxHxD)	7 x 14.5 x 17.25" (180 x 370 x 440 mm)
Weight	17.2 lbs (7.8 kg)
	One Year Warranty
Supplied Accessories	Instruction manual, two PR-33A x1/x10 probes or equivalent, AC power cord and spare fuse
Optional Accessories	PR-32A demodulator probe, PR-37A x1/x10/REE probe, PR-100A x100 probe, PR-55 high voltage x1000 probe,

	2125C & 2160C		
VERTICAL AMPLIFIER	IS (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		
Altenuator	full adjustment between steps		
Accuracy	±3%, ±5% at x5		
Input Resistance	1 MΩ +2%		
Input Capacitance	25 pF ±10 pF		
	5 mV to 5 V/div: DC to 30 MHz (-3dB), X5: DC to 10 MHz (-3dB)		
Frequency Response	DC to 60 MHz (-3 dB). Model 2160C		
Rise Time	X5 MAG: DC to 15 MHz (-3 dB). Model 2160C $12ns$ (Overshoot $\leq 5\%$)		
	CH 1: CH 1, single trace		
Operating Modes CH 2	CH 2, single trace		
ALT	dual trace, alternating		
СНОР	dual trace, arctinating 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			
OWEER OTOTEM	Main mix (both main succes and dolay succes displayed)		
Operating Modes	Main, mix (both main sweep and delay sweep displayed), or Delay (only delay sweep displayed), X-Y		
Main Sweep SpeeD	0.1μ s/div to 2.0 s/div in 1-2-5 sequence, 23 steps Vernier control provides fully adjustable sweep time between steps		
	23 steps Vernier control provides fully adjustable sweep time between steps		
Accuracy Sween Magnification	±3% 10X, ±5%		
Sweep Magnification Delayed Sweep Speed			
Holdoff	0.1 ms/div to 0.1s/div in 1-2-5 sequence, 23 steps Continuously variable for Main sweep up to 10 times normal		
Holdon			
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		
00 0	xternal CH 1, CH 2, ALT, EXT, LINE		
00	300 V (DC + AC peak)		
Trigger Voltage	AC 30 Hz to 30 MHz, TV H used for triggering from horizontal sync pulses,		
Trigger Coupling	TV V Used for triggering from vertical sync pulses		
TRIGGER SENSITIVIT			
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 - I kHz, Internal: 0.5 div, External: ≥ 0.05Vp-p		
TV-H	I 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		
	Same as vertical channel 2		
Sensitivity			
Accuracy	Y-Axis: ±3%. X-Axis: ±6%		
Accuracy Input Impedance	ame as vertical channel 2		
Accuracy Input Impedance Frequency Response	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection		
Accuracy Input Impedance Frequency Response X-Y Phase Difference	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm)		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C)		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTEI Components Tested	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTEI Components Tested Test Voltage	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open)		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTEI Components Tested Test Voltage Test Current	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P3 1 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted)		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTEI Components Tested Test Voltage Test Current Test Frequency	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P3 1 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA)		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTEI Components Tested Test Voltage Test Voltage Test Current Test Frequency Calibrating Voltage	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted)		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTEI Components Tested Test Voltage Test Current Test Frequency	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%)		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTEI Components Tested Test Voltage Test Voltage Test Current Test Frequency Calibrating Voltage	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) 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), ≤ 85% RH Full operation: 32° to 104° F (0° to 40°C), ≤ 85% RH		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTEI Components Tested Test Voltage Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (sported) 11 mA maximim (shorted) 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), ≤ 85% RH		
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Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTEI Components Tested Test Voltage Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL Temperature	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) 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) 100/120/220/240 VAC \pm 10%, 50/60 Hz, Approximately 40 W 7 x 14.5 x 14.25" (180 x 370 x 440 mm)		
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Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTEI Components Tested Test Voltage Test Voltage Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL Temperature Power Requirements Dimensions (WxHxD) Weight	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) 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), \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) 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) 17.2 lbs (7.8 kg) One Year Warranty		
Accuracy Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTEI Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL Temperature Power Requirements Dimensions (WxHxD)	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) 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) 100/120/220/240 VAC \pm 10%, 50/60 Hz, Approximately 40 W 7 x 14 .5 x 14.25" (180 x 370 x 440 mm) 17.2 lbs (7.8 kg)		