

# BK Precision 40 MHz 2 Channel Oscilloscope

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<b>SPECIFICATIONS</b>	<b>MODEL 1541D</b>
<b>VERTICAL AMPLIFIERS (CH 1 and CH 2)</b>	
Sensitivity	5 mV/div to 5 V/div, 1 mV/div, with X5 gain
Accuracy	5 mV/div to 5 V/div, +-3% (X5 gain), +-5%
Input Impedance	1 M $\Omega$ +-2%, 25pF +-10%
Frequency Response	DC to 40 MHz (-3 dB), DC to 7 MHz (-3 dB) at X5 gain
Rise Time	8.8 ns (Overshoot <=5%)
Operating Modes	CH 1; CH 2; DUAL; Alternate/Chop; ADD
Chop Frequency	Approximately 250 kHz
Max Input	400 V (DC + AC peak)
<b>SWEEP SYSTEM</b>	
Sweep Speed	0.2us/div to 0.2 s/div in 1-2-5 sequence; 20 steps, vernier control provided
Accuracy	+3%
Sweep Magnification	10x
Hold Off Time	5:1 Continuously variable
<b>TRIGGERING</b>	
Trigger Modes	Auto, Norm
Trigger Source	CH 1, CH 2, LINE, EXT, ALT
Trigger Coupling	AC, TV-V, TV-H, NORM
<b>HORIZONTAL AMPLIFIER (Input through EXT TRIG)</b>	
X-Y Mode	CH 1: Y axis, CH 2: X axis
Sensitivity	Same as vertical CH 1
Accuracy	Y axis +- 3%, X axis +- 6%
Input Impedance	same as vertical CH 1
Frequency Response	DC to 1 MHz (-3 dB)
<b>CRT</b>	
Display Area	6 inches diagonal, rectangular screen with internal graticule 8 x 10 div (1 div = 1 cm)
Accelerating Voltage	12 kV
Trace Rotation	Front panel adjustable
Phosphor	B31
<b>Other Specifications</b>	
Calibrating Voltage	1 kHz positive square wave. 2V p-p. +-3%
<b>ENVIRONMENT</b>	
Within Specified Accuracy	50 <sup>o</sup> to 95 <sup>o</sup> F (10 <sup>o</sup> to 35 <sup>o</sup> C), <= 85% RH
Full Operation	32 <sup>o</sup> to 104 <sup>o</sup> F (0 <sup>o</sup> to 40 <sup>o</sup> C), <= < 85% RH
Storage	-4 <sup>o</sup> to 158 <sup>o</sup> F (-20 <sup>o</sup> to +70 <sup>o</sup> C)
Power Requirements	100/120/220/240 V +-10%, 50/60 Hz, approximately 38W
Dimensions (HxWxD)	12.8x15.7x5.2" (324x398x132 mm)
Weight	16.8 lbs. (7.6 kg)
<b>Three Year Warranty</b>	
<b>Accessories</b>	
SUPPLIED: Instruction Manual, Two PR-33A x1/x10 Probes or equivalent, AC Power Cord, Spare Fuse OPTIONAL: PR-32A Demodulator Probe, PR-37A x1/x10/REE Probe, PR-100A x 100 Probe, PR-55 High Voltage x1000 Probe, LC-210A Carrying Case	