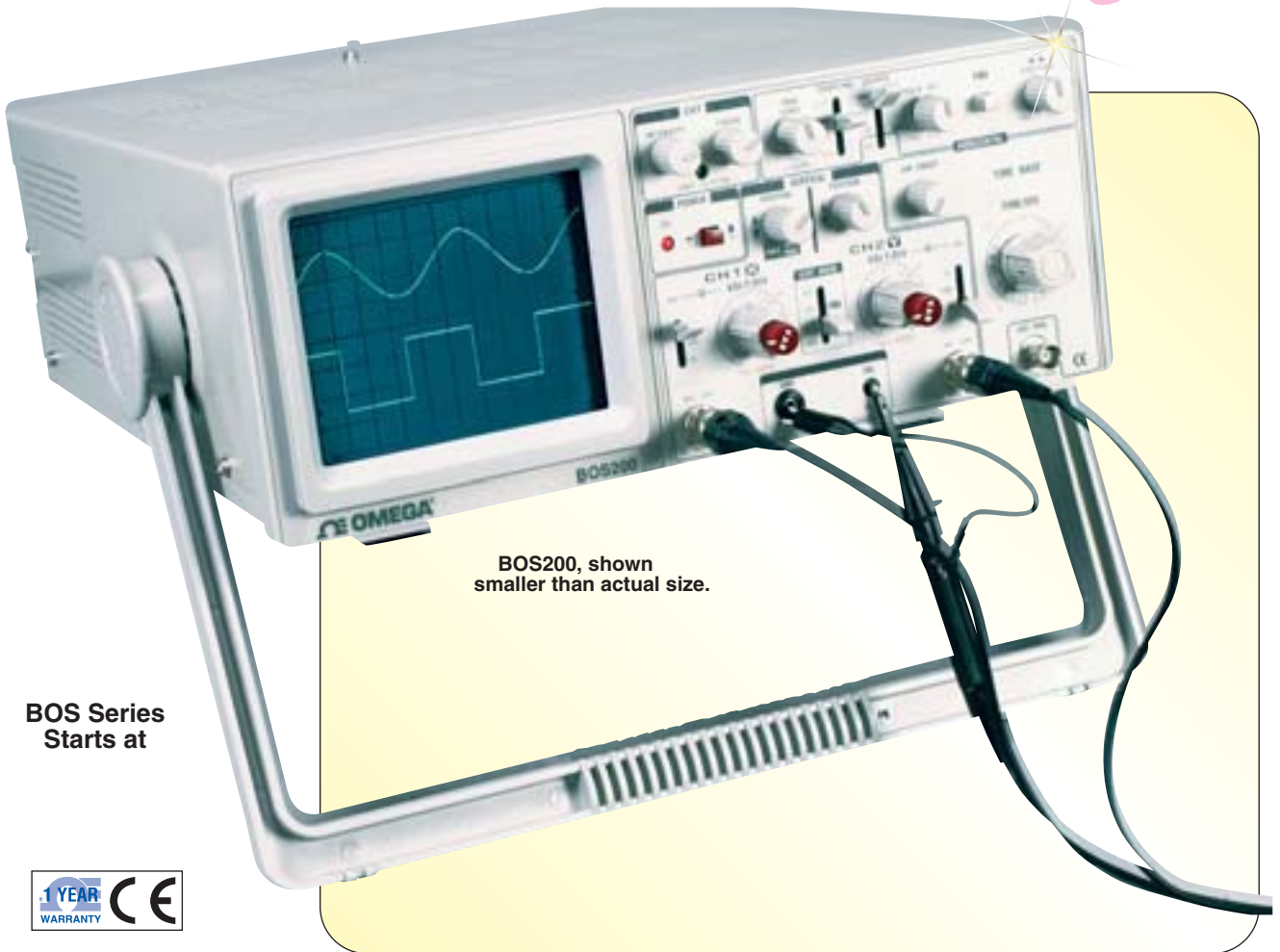


# BENCHTOP OSCILLOSCOPE



BOS200, shown smaller than actual size.

BOS Series Starts at



- ✓ 20 to 60 MHz Dual Trace, ALT Trigger
- ✓ Vertical Sensitivity: 1 mV/DIV
- ✓ Horizontal Resolution: 10 ns
- ✓ Hold-Off, X-Y Operation, Z-Mod, Y-Output
- ✓ 23 Calibrated Ranges, Main Time Base

The BOS Series comprises dual-channel oscilloscopes with frequency bandwidths of 40 to 100 MHz at -3 dB, a maximum sweep of 10 ns, a maximum sensitivity of 1 mV/DIV, and 150 mm rectangular CRT with internal graticule.

These oscilloscopes are rugged, easy to operate, and highly reliable. They are ideal for research,

production, and electronics applications. The BOS converts a high-input differential voltage ( $\leq 1300$  Vp) into a low voltage ( $\leq 6.5$  V).

Optional accessories include differential voltage probes, which provide a safe means of measuring a floating potential.

**MOST POPULAR MODELS HIGHLIGHTED!**

To Order (Specify Model Number)	
Model No.	Description
BOS-200	20 MHz analog oscilloscope
BOS-205	20 MHz with delay sweep
BOS-350	40 MHz analog oscilloscope
BOS-355	40 MHz with delay sweep
BOS-605	60 MHz with delay sweep

Comes with power cord, 110V fuse, 220V fuse, plastic screwdriver, 2 probes.

Ordering Example: BOS-200, 20 MHz analog oscilloscope,

## Accessories

Model No.	Description
BOSP-260	Oscilloscope probe for 60 MHz bandwidth x1, x10
BOSP-9100	Oscilloscope probe for 100 MHz bandwidth x1, x10

## Specifications

Models	BOS-200	BOS-205	BOS-350	BOS-355	BOS-605
<b>Cathode Ray Tube</b>	6" diagonal, rectangular screen with internal graticule 8 x 10 DIV (1 DIV = 1 cm), B31 phosphor, 2 kV acceleration voltage			6" diagonal, rectangular screen with internal graticule 8 x 10 DIV (1 DIV = 1 cm), B31 phosphor, 12 kV accel voltage	
<b>Vertical Deflection</b>					
<b>Bandwidth</b>	DC to 20 MHz (-3 dB)		DC to 40 MHz (-3 dB)		DC to 60 MHz (-3 dB)
<b>Sensitivity</b>	1 mV/DIV to 1 V/DIV (5 MHz, -3 dB), x5 gain selected 5 mV/DIV to 5 V/DIV		1 mV/DIV to 1 V/DIV (10 MHz, -3 dB), x5 gain selected 5 mV/DIV to 5 V/DIV		1 mV/DIV to 1 V/DIV (15 MHz, -3 dB), x5 gain selected 5 mV/DIV to 5 V/DIV
<b>Attenuator</b>	1-2-5 sequence, 10 step with variable control				
<b>Input Impedance</b>	1 M $\Omega$ $\pm$ 2%, 25 pF $\pm$ 10%				
<b>Max Input Voltage</b>	400 V (DC + AC peak)				
<b>Rise Time</b>	About 17.5 ns		About 8.8 ns		About 5.8 ns
<b>Overshoot</b>	Less than 5%				
<b>Operation Mode</b>	CH 1 , CH2, DUAL (ALT, CHOP)				
<b>Algebraic Addition</b>	CH 1 + CH 2, CH 1 - CH 2				
<b>Inverter</b>	CH 2 Only				
<b>Horizontal Deflection</b>					
<b>X-Y Mode</b>	Switch slectable using X-Y switch; CH 1: X axis, CH 2: Y axis				
<b>Accuracy</b>	X Axis: $\pm$ 6%, Y Axis: $\pm$ 3%				
<b>Bandwidth</b>	DC to 1 MHz (-3 dB)				
<b>X-Y Phase Difference</b>	Approx. 3 degrees at 50 kHz				
<b>Sweep System</b>					
<b>Sweep Display Mode</b>	Main, Mix	Main, Mix, Delay	Main, Mix	Main, Mix, Delay	Main, Mix, Delay
<b>Hold-Off Time</b>	5:1 continuously variable				
<b>Main Sweep</b>					
<b>Sweep Speed</b>	0.1 $\mu$ s/DIV to 2.0 s/DIV in 1-2-5 sequence, 23 steps				
<b>Accuracy</b>	$\pm$ 3%				
<b>Variable Time Control</b>	5:1, uncalibrated, continuously variable between steps				
<b>Sweep Magnification</b>	10x, $\pm$ 10%, extended sweep speed up to 10 ns/DIV				
<b>Delay Sweep</b>					
<b>Sweep Speed</b>	0.1 $\mu$ s/DIV to 2.0 s/DIV in 1-2-5 sequence, 23 steps		0.1 $\mu$ s/DIV to 2.0 s/DIV in 1-2-5 sequence, 23 steps		
<b>Accuracy</b>	$\pm$ 3%		$\pm$ 3%		
<b>Sweep Magnification</b>	10x, $\pm$ 10%, extended sweep speed up to 10 ns/DIV		10x, $\pm$ 10%, extended sweep speed up to 10 ns/DIV		
<b>Delay Timeposition</b>	Variable control to locate desirable waveform for extending		Variable control to locate desirable waveform for extending		
<b>Triggering</b>					
<b>Trigger Coupling</b>	AUTO, NORM TV-V, TV-H			AUTO, NORM TV-V, TV-H	
<b>Trigger Source</b>	CH 1, CH 2, ALT, LINE, EXT			CH 1, CH 2, ALT, LINE, EXT	
<b>Slope</b>	$\pm$			$\pm$	
<b>Trigger Sensitivity</b>					
<b>Coupling</b>	TV-V, TV-H, Auto, Nom				
<b>Bandwidth</b>	DC to 1 kHz, 1 kHz to 100 kHz , 100 Hz to 20 MHz, 100 Hz to 20 MHz				
<b>Interior</b>	1.0 DIV, 1.5 DIV, 1.0 DIV, 0.5 Vp-p				
<b>Exterior</b>	0.5 Vp-p				
<b>Dimensions</b>	324 W x 398 D x 132 mm H (12.75 x 15.67 x 5.20")				
<b>Net Weight</b>	Approx. 7.6 kg (16.75 lb)				
<b>Rated Range of Use</b>	10 to 35°C (50 to 95°F), 10 to 80% RH				
<b>Component Test</b>					
<b>Test Voltage</b>	Max 6 Vrms (open circuit)			Max 6 Vrms (open circuit)	
<b>Test Current</b>	Max 11 mA (shorted)			Max 11 mA (shorted)	
<b>Test Frequency</b>	Line frequency			Line frequency	
<b>Components</b>	Capacitor, inductor, diode, transistor, zener, etc.			Capacitor, inductor, diode, transistor, zener, etc.	
<b>CH 2 Output</b>					
<b>Output level</b>	100 mV (no load), 50 mV/DIV (with 50 $\Omega$ load)		100 mV (no load), 50 mV/DIV (with 50 $\Omega$ load)		
<b>Bandwidth</b>	20 Hz to 20 MHz		20 Hz to 40 MHz		20 Hz to 60 MHz
<b>Graticule Illumination</b>	Adjustable				Adjustable
<b>Calibrator</b>	Square wave about 1 kHz, 2 V p-p $\pm$ 3%		Square wave about 1 kHz, 2V p-p $\pm$ 3%		
<b>Z-Modulation</b>	Positive TTL signal, low-level blank intensity at any intensity, high-level unblank any intensity		Positive TTL signal, low-level blank intensity at any intensity, high-level unblank any intensity		
<b>Trace Rotation</b>	Adjustable on front panel		Adjustable on front panel		
<b>Power Source</b>	110 to 130V (800 mA fuse), 200 to 260V (600 mA fuse) 50/60 Hz selectable				
<b>Power Consumption</b>	Approx. 38 W				
<b>Limits of Operation</b>	0 to 50°C (32 to 122°F), 10 to 80% RH				
<b>Storage Environment</b>	-30 to 70°C (-22 to 158°F), 10 to 90% RH				

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