

Connections	<p>Single USB-A supports flash memory devices for method and data storage</p> <p>Duplex USB-A on side supports connection to a Windows™ computer running optional remote-control software, keyboard, mouse</p> <p>Export data to network or PC via USB, Ethernet, or Wi-Fi USB adaptor, available</p> <p>Print via USB, Ethernet or Wi-Fi USB adaptor available</p>
Detector Type	Dual Silicon Photodiodes
Display	7-inch color touchscreen, tiltable, high definition, 800 × 1280 pixels
Photometric Accuracy Instrument	<p>±0.002A at 0.5A</p> <p>±0.004A at 1.0A</p> <p>±0.008A at 2.0A</p>
Printer	Snap-on printer available
Wavelength Accuracy	±0.5 nm
Wavelength Range	190 nm – 1100 nm
Baseline Flatness	±0.002A
Compartments	<p>Accommodates (optional):</p> <p>8-position cell changer</p> <p>4-position cell changer (long path cells)</p> <p>Peltier thermostatted cell holder (20-60 °C)</p> <p>Sipper accessory</p> <p>Fiber optic probe coupler</p>
Description	BioMate 160 UV-Visible Spectrophotometer
Dimensions (L x W x H)	35.5 x 38.5 x 19.5 cm
Drift	(At 500 nm after 1 hour warmup) <0.0005A/Hr.
Electrical Requirements	External AC to DC converter. Voltage and Frequency (Hz) selected automatically, 100–240 volts, 50–60 Hz.
Keypad	Touchscreen
Lamp	<p>Xenon Flash Lamp (>5 years typical, 3 years guaranteed)</p> <p>(RMS at 500 nm 60 consecutive measurements)</p>
Noise	<p>≤0.00020A at 0A at 260 and 500 nm</p> <p>≤0.00030A at 1A at 260 and 500 nm</p> <p>≤0.00040A at 2A at 260 and 500 nm</p>

Optical Design	Dual beam
Photometric Display	-3A to +5A
Photometric Range	-2A to +3.5A
Photometric Repeatability	$\pm 0.001A$ at 1A measured at 1.0A at 546 nm
Spectral Bandwidth	2 nm
Stray Light	<1.0%T 198 nm (KCl) <0.05%T at 220 nm (NaI) <0.03%T at 340 nm (NaNO ₂)
Wavelength Data Interval	0.2 nm, 0.5 nm, 1 nm, 2 nm, 5 nm
Wavelength Repeatability	< ± 0.2 nm
Wavelength Scan Speed	Slow, medium and fast - up to 1600 nm/min
Weight (Metric)	7.5 kg
Warranty	2 years standard with 1 year extension upon registration of the instrument with Thermo Fisher Scientific within 6 months of purchase
Unit Size	Each