



Spectrophotometer

- **Wide Wavelength Range : 190 -1100nm**
- **Touch Screen (Digital LED Display)**
- **Automatic 8 Cell Changer**
- **Customization Feature**
- **User Friendly Software**
- **Upgradable Software**

(BloorSpec Photo UV-VIS-NIR)	
Light Source	Deuterium Tungsten - Halogen
Wavelength Range	190 – 1100 nm
Wavelength Accuracy	± 0.2 nm
Wavelength Repeatability	< 0.2 nm
Wavelength Resolution	< 1 nm
Stray Light	<0.05%
Photometric Range	Absorbance: -4 to 4Abs
	Transmittance: 0 to 400%
Photometric Accuracy	±0.004Abs(0.5Abs)
	±0.006Abs(1.0Abs)
	±0.008Abs(2.0Abs)
Photometric Repeatability	Less than ±0.001Abs at 0.5Abs
	Less than ±0.0015Abs at 1.0Abs
	Less than ±0.002Abs at 2.0Abs
Communication	USB 2
Cell Holder	Automatic 8 Cell Changer
Scan Time	100µs– 1000 ms
Signal /Noise	500:1
Display	Digital LED Display (Touch Screen)
Detector	3000 Channels
Software	XP 7,8,10
Dimensions	200× 300 × 500 mm
Weight	20 kg
Power Requirement	220 V AC 50/60 Hz
Environmental Requirements	Temperature: 15°C to 35°C
	Humidity: 20% to 90%

Comparison

Specifications	BloorAzma	Hach	Pginstruments	Shimadzu
Source Lamp	Tungsten-Halogen and Deuterium	Tungsten-Halogen and Deuterium	Tungsten-Halogen and Deuterium	Tungsten-Halogen and Deuterium
Wavelength Range	190 – 1100 nm	190 – 1100 nm	190 – 1100 nm	190 – 1100 nm
Wavelength Accuracy	± 0.2 nm	± 1 nm	± 0.2 nm	±0.1nm(656.1nm) ±0.3nm(at all wavelengths)
Wavelength Repeatability	< 0.2 nm	≤ 0.1 nm	≤ 0.2 nm	±0.1 nm
Wavelength Resolution	< 1 nm	1 nm	1 nm	1 nm
Photometric Accuracy	±0.004Abs(0.5Abs)	5 mAbs at 0.0-0.5 Abs < 1% at 0.5 – 2.0 Abs at 546 nm	0.002A(0-0.5A)	±0.002Abs(0.5Abs)
	±0.006Abs(1.0Abs)		0.004A(0.5-1.0A)	±0.004Abs(1.0Abs)
	±0.008Abs(2.0Abs)		0.3%T(0-100%T)	±0.006Abs(2.0Abs)
Photometric Repeatability	Less than ±0.001Abs at 0.5Abs	Less than ±0.0002Abs at 0.5Abs	0.001A(0-0.5A)	Less than ±0.0002Abs at 0.5Abs
	Less than ±0.0015Abs at 1.0Abs	Less than ±0.0002 Abs at 1.0Abs	0.002A(0.5-1.0A)	Less than ±0.0002 Abs at 1.0Abs
	Less than ±0.002Abs at 2.0Abs	Less than ±0.0010Abs at 2.0Abs	0.15%T(0-100%T)	Less than ±0.0010Abs at 2.0Abs
Stray Light	< 0.05%	< 0.05%	≤ 0.12%T	Less than 0.50%(198nm KCl) Less than 0.02%(220nm NaI) Less than 0.02%(340nm NaNO ₂)
Signal/Noise	500:1	low	0.001A(500 nm)	-
Dimensions	200× 300 × 500 mm	215× 500 × 460 mm	520× 420 ×230 mm	450× 501 × 244 mm