

9. Specifications

Absolute accuracy	$\pm 2 \times 10^{-7}$ (WA-1500) $\pm 1 \times 10^{-6}$ (WA-1000) $\pm 4 \times 10^{-7}$ (WA-1500IR) ¹ $\pm 2 \times 10^{-6}$ (WA-1000IR) ²
Resolution @ 1000 nm	± 0.0001 nm (WA-1500) ± 0.001 nm (WA-1000)
Display	Absolute wavelength or deviation from a setpoint
Display units	nm, cm^{-1} or GHz, air or vacuum
Display resolution	Automatic or user selected
Dynamic intensity range	400:1 (with input attenuation)
Input attenuator	Automatic, 0-2 OD
Input aperture	2 mm
Input beam height	7.0" ($\pm .3$ " adjustable)
Analog output	± 5 V, user-selected resolution
RS232 interface	Yes
GPIB interface	Optional
Power requirements	90-260 VAC, 50/60 Hz .2 A @ 240 VAC .4 A @ 120 VAC
Fuse	2A, 250 V, time-delay
Weight	25 lbs
Dimensions (including feet)	11.5" D $\times$ 15.3" L $\times$ 8.0" H
Wavelength range	
VIS	400-1100 nm
NIR	600-1800 nm
IR	1500-4000 nm
Free input beam	
VIS	Yes
NIR	Yes
IR	Yes
Fiber-optic input	
VIS	Yes

¹ At wavelengths from 1.8 to 3.0 μm , the absolute accuracy is $\pm 3 \times 10^{-7}$ and at wavelengths from 3.0 to 4.0 μm , the absolute accuracy is $\pm 1 \times 10^{-7}$

² At wavelengths longer than 3.0 μm , the absolute accuracy is $\pm 1 \times 10^{-6}$

NIR	Yes
IR	No
Sensitivity³	
VIS	20 μ W
NIR	20 μ W
IR	1.0 mW

**IMPORTANT**

Sensitivity defines the optical input power required over most of the wavelength range. More power may be necessary at either end of the range, depending on the photodetector.

Measurement rate	WA-1500	WA-1000
VIS	1.0 Hz	4.0 Hz
NIR	1.0 Hz	4.0 Hz
IR	.75 Hz	2.5 Hz

³ At wavelengths longer than 450 nm, an optical input power of 100 μ W should be sufficient