

*Ultimate Wavelength Certainty*

# Optical Wavemeter

WM-1210 SERIES



The New Generation of Wavemeter is here. The New Focus™ WM-1210 Wavemeter is the perfect instrument for your test and measurement applications where ultimate wavelength certainty is required. This easy-to-use device requires minimal setup and is ready to use out of the box. The front panel display makes reading measurements simple and straightforward. The WM-1210 also comes standard with a full suite of software to give the user complete control over the device and its integration into their systems.

The WM-1210 utilizes a scanning Michelson interferometer that continuously determines the absolute wavelength of a laser source by comparing its interference fringe pattern with that of an internal Helium-Neon (HeNe) Laser standard. The built-in HeNe Laser automatically and reliably calibrates the WM-1210 for ultimate accuracy in your measurement.

The large wavelength measurement range of 700 to 1650 nm makes the WM-1210 Wavemeter a versatile tool for Telecom and near-infrared measurements. A 10-Hz update rate provides excellent measurement response for time-sensitive measurements. For more complete measurements, the WM-1210 also provides relative power measurements of your input source. This adds extra flexibility for your application and provides you with the ultimate laser characterization tool.

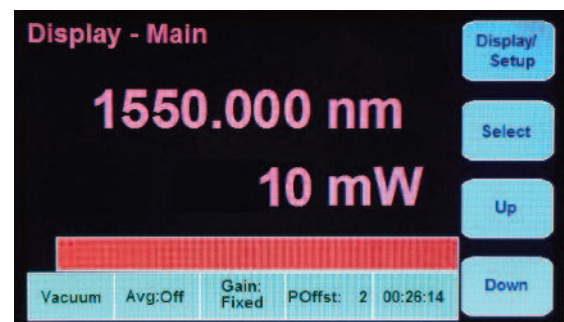
Many test and measurement applications are located in manufacturing facilities. The WM-1210's robust design gives users peace of mind while working in these types of environments and our rack mount option allows for space-saving incorporation into existing systems.

For the Ultimate Wavelength Certainty, choose the WM-1210 Wavemeter!

- Optical Wavelength Meter
- Absolute optical wavelength measured to  $\pm 1$  ppm
- Automatic calibration with internal HeNe Laser standard
- Fast update rate of 10 Hz
- Wide wavelength range from 700 to 1650 nm
- NIST-traceable calibration
- Robust design for manufacturing environments

## APPLICATIONS

- Wavelength monitoring of devices including DFB Lasers, Tunable Lasers and VCSELs
- Accurate wavelength calibration of tunable and swept laser sources
- Accurate calibration of OSAs and other test equipment
- Spectroscopy and other scientific wavelength characterization



## Specifications

Model	WM-1210
<b>Wavelength</b>	
Range	700 - 1650 nm
Absolute Accuracy <sup>1</sup>	± 1 ppm (± 1.5 pm @ 1550 nm, ± 0.78 pm @ 780 nm)
Display Resolution <sup>2</sup>	0.001 nm
Display Units	nm, GHz, and cm <sup>-1</sup>
<b>Optical Input Signal</b>	
Sensitivity (700 - 1650 nm) <sup>3</sup>	-13 dBm (50 µW)
Maximum Input Power	10 dBm (10 mW)
Power Absolute Accuracy	± 10%
Power Display Resolution	0.01 dBm
Power Display Units	dBm, mW, µW
<b>Measurement Update</b>	
Refresh Rate	10 Hz
<b>Inputs/Outputs</b>	
Optical Input	FC/APC connector
Instrument Interface	RS-232, USB 2.0
Software	Windows GUI, LabVIEW, Remote Control over RS-232 and USB
<b>Environmental</b>	
Operating Temperature	15 - 30°C
Storage Temperature	-10 - 70°C
Pressure	500 - 900 mm Hg
Relative Humidity	< 90% RH @ 30°C (no condensation)
<b>Physical</b>	
Dimensions (W x D x H)	432 x 394 x 104 mm (17 x 15.5 x 4.1 in)
Weight	6.8 kg (15 lbs)
<b>Power Requirements</b>	
Voltage and Frequency	90 to 260 VAC, 50/60 Hz

<sup>1</sup>Calibration performed using measurements traceable to NIST standards.

<sup>2</sup>Extended precision (0.0001 nm) resolution available over computer interface.

<sup>3</sup>Sensitivity measured at 1527 nm.

Preliminary specifications are subject to change.

## Ordering Information

WM-1210



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