

WaveMaster™ Laser Wavelength Meter

Pulse and CW Wavelength Measurement

The WaveMaster measures the wavelength of both CW and pulsed lasers of any repetition rate. The wavelength can be displayed in GHz, wavenumbers, or nanometers, with vacuum and air readings available. The WaveMaster will read the peak wavelength of sources as wide as 2 nm from 380 nm to 1095 nm. Bandwidths wider than 2 nm can be accommodated at the longer wavelengths.

The WaveMaster is easy to use. Just turn on the readout and get the beam within 10 degrees of normal incidence to the sampling probe. The probe has a 2-meter fiber optic cable and takes up a minimum of beam path space. Most intensity variances are automatically accommodated, but for the strongest and weakest signals a front panel attenuator adjustment and intensity readout quickly afford accurate readings. No special triggering modes or setups are required for pulse capture.

The WaveMaster is portable with AC and battery power. The large, easy-to-read display is backlit and has adjustable contrast control for easy viewing. Configuration settings are maintained in memory and retrieved on start-up for convenience. Communication with the WaveMaster is also easy with built-in RS-232 and an optional GPIB interface.

User-Friendly

The WaveMaster is easy to read with front panel adjustments of contrast and back-lighting for the extra-large display. Parameters that have been set-up are clearly displayed, in addition to signal intensity and pulse retrieved indicators. When in the CW mode of operation, the display is updated at an easy to read 3 Hz rate. While in the pulse mode, the display is updated at 3 Hz, and maintained for 15 seconds after a pulse for reading single events.

Calibration is maintained by sophisticated algorithms that monitor the WaveMaster's response. Periodically, and upon indication from the algorithms, the WaveMaster is referenced to the fundamental Ne lines.

FEATURES

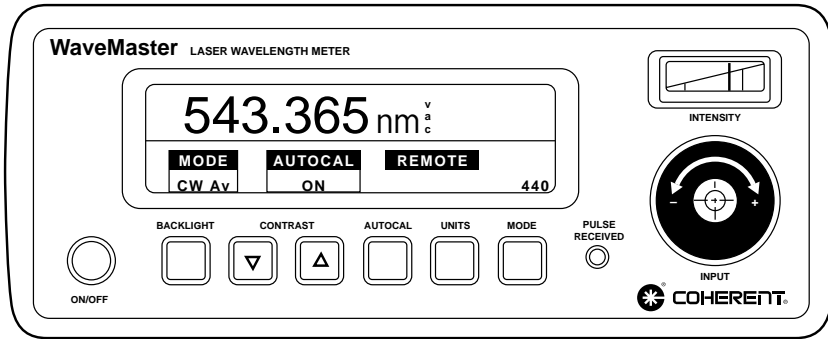
- **380 nm to 1095 nm Wavelength Range**
- **RS-232 and Optional GPIB Interfaces**
- **0.005 nm accuracy**
- **0.001 nm resolution**
- **Internal self-calibration**
- **Fiber input with sampling probe**



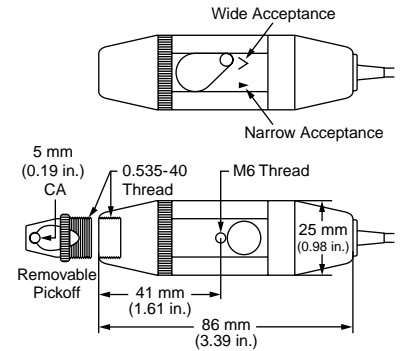
WaveMaster

Pulse and CW Wavelength Measurement

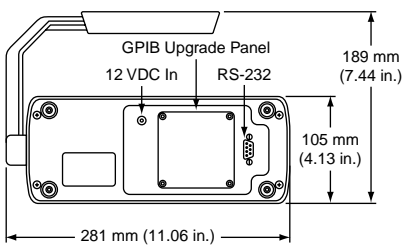
Front View



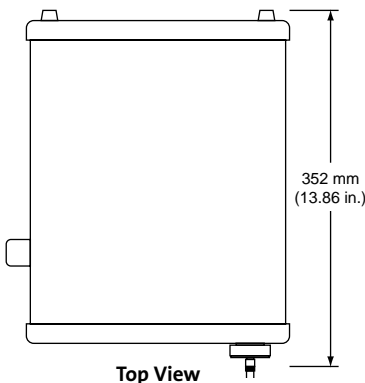
Sampling Probe



Back View



Top View



Specifications

		WaveMaster
Wavelength Coverage		380-1095 nm
Accuracy		0.005 nm
Resolution		0.001 nm
Min. Pulse Rep Rate		single shot
Max. Pulse Rep Rate		CW
Max. Signal Bandwidth		2 nm @ 400 nm 3 nm @ 600 nm 5 nm @ 1000 nm
Min. Signal		20 μW CW @ 632 nm 2 mJ pulsed @ 1064 nm
Max. Signal		100 mW CW @ 632 nm 100 mJ pulsed @ 1064 nm
Display Update		3 Hz
Size		281 mm wide x 105 mm high x 352 mm deep
Storage Conditions		-10°C to 50°C
Relative Humidity		non-condensing and <80%
Shock		<4 g
Use Conditions		-10°C to 40°C
Relative Humidity		non-condensing and <80%
Shock		<4 g
Power Supply (supplied)		Universal 90-250 VAC, 40-72 Hz in; 12 VDC out

Description

Part Number	Description
33-2650	WaveMaster Laser Wavelength Meter
33-2627	WaveMaster Laser Wavelength Meter with GPIB



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Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

For full details on warranty coverage, please refer to the Service and Support section at www.CoherentInc.com, or contact your local Sales or Service Representative.

