

Quick Start Guide
WaveMaster™



Quick Start Guide

WaveMaster



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Wilsonville, OR 97070

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Technical Support

In the US:

Should you experience any difficulties with your product or need any technical information, please visit our website: www.Coherent.com. Additional support can be obtained by contacting our Technical Support Hotline at 1.800.367.7890 (1.408.764.4557 outside the U.S.), or e-mail Product.Support@Coherent.com. Telephone coverage is available around the clock (except U.S. holidays and company shutdowns).

If you call outside our office hours, your call will be taken by our answering system and will be returned when the office reopens.

If there are technical difficulties with your product that cannot be resolved by support mechanisms outlined above, e-mail, or telephone Coherent Technical Support with a description of the problem and the corrective steps attempted. When communicating with our Technical Support Department via the web or telephone, the Support Engineer responding to your request will require the

model and Laser Head serial number of your laser system.

Outside the US:

If you are located outside the U.S., visit our website for technical assistance or contact our local service representative. Representative phone numbers and addresses can be found on the Coherent website: www.Coherent.com.

Coherent provides telephone and web technical assistance as a service to its customers and assumes no liability thereby for any injury or damage that may occur contemporaneous with such services. These support services do not affect, under any circumstances, the terms of any warranty agreement between Coherent and the buyer. Operation of any Coherent product with any of its interlocks defeated is always at the operator's own risk.

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Preface

This guide includes:

- Unpacking procedure
- Safety information
- A “mini-tutorial” that presents step-by-step instructions on connecting a sensor to your WaveMaster meter and begin taking measurements within minutes. For detailed information on all the WaveMaster meter features, refer to the *WaveMaster User Manual* (1079154), available as a PDF file on the CD that shipped with your system.
- Obtaining service
- Product shipping instructions

Publication Updates

To view information that may have been added or changed since this publication went to print, connect to www.Coherent.com.

Signal Words and Symbols in this Manual

This documentation may contain sections in which particular hazards are defined or special attention is drawn to particular conditions. These sections are indicated with signal words in accordance with ANSI Z-535.6 and safety symbols (pictorial hazard alerts) in accordance with ANSI Z-535.3 and ISO 7010.

Signal Words

Four signal words are used in this documentation: **DANGER**, **WARNING**, **CAUTION** and **NOTICE**.

The signal words **DANGER**, **WARNING** and **CAUTION** designate the degree or level of hazard when there is the risk of injury:

DANGER!

Indicates a hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.

WARNING!

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION!

Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

The signal word “**NOTICE**” is used when there is the risk of property damage:

NOTICE!

Indicates information considered important, but not hazard-related.

Messages relating to hazards that could result in both personal injury and property damage are considered safety messages and not property damage messages.

Symbols

The signal words **DANGER**, **WARNING**, and **CAUTION** are always emphasized with a safety symbol that indicates a special hazard, regardless of the hazard level:



This symbol is intended to alert the operator to the presence of important operating and maintenance instructions.



This symbol is intended to alert the operator to the danger of exposure to hazardous visible and invisible laser radiation.



This symbol is intended to alert the operator to the presence of dangerous voltages within the product enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



This symbol is intended to alert the operator to the danger of Electro-Static Discharge (ESD) susceptibility.



This symbol is intended to alert the operator to the danger of crushing injury.



This symbol is intended to alert the operator to the danger of a lifting hazard.

Unpacking



NOTICE!

WaveMaster contains accurately aligned optical components and should not be subjected to severe shocks, such as those generated when dropped. The supplied shipping carton is recommended for use whenever the instrument is transported.

The shipping carton should be inspected for any visible damage. Check that the carton contains:

1. The WaveMaster instrument
2. A further carton containing:
 - WaveMaster mains power supply plus three adapter plugs
 - Mounting base
 - Mounting post (½-inch dia. x 75 mm)
 - Post holder (3-inch, ¼ x 20)
 - WaveMaster sensor

Inspect each of the following items for damage as they are removed from the cartons.

1. The WaveMaster instrument
2. The WaveMaster sensor, post, holder, and stand
3. The power supply

The desiccant packed with the instrument should be discarded.

Advise Coherent Inc. of any shortages or damage immediately—refer to “Obtaining Service” (p. 6). A Returned Material Authorization (RMA) will be issued for any damaged instruments—read “Product Shipping Instructions” (p. 7).

SAFETY

Carefully review the following safety information to avoid personal injury and to prevent damage to this instrument or any sensor connected to it. WaveMaster contains no user-serviceable parts. For service information, refer to Appendix A in the *WaveMaster User Manual* (1079154), available as a PDF file on the CD that shipped with your system.



WARNING!

The use and measuring of lasers is potentially dangerous. This instrument operates over wavelengths that include non-visible laser emissions.

Proper laser operating practice in accordance with manufacturer recommendations is vital.

Eyewear and other personal protective equipment must be used in accordance with applicable laws and regulations.

If in doubt of correct operating procedures, consult the laser manufacturer and your laser safety officer.

The equipment is not for use in critical medical environments.



WARNING!

Use only the power cord specified for the meter. The grounding conductor of the cord must be connected to earth ground.



WARNING!

Do not operate the meter if its panels are removed or any of the interior circuitry is exposed.



WARNING!

Do not operate the meter in wet or damp conditions, or in an explosive atmosphere.



NOTICE!

Operate the meter only within the specified voltage range.



NOTICE!

Do not apply a voltage outside the specified range of the input connections.



NOTICE!

Do not operate the meter if there are suspected failures. Refer damaged units to qualified Coherent service personnel.

QUICK START: MAKING A MEASUREMENT

This section presents a “mini-tutorial” that explains how to connect a sensor to your WaveMaster meter and begin taking measurements. For in-depth information about the WaveMaster meter and system components, refer to the *WaveMaster User Manual* (1079154), available as a PDF file on the CD that shipped with your system.

Before beginning the procedure described in this section, carefully review the following safety information to avoid personal injury and to prevent damage to this meter or any sensor connected to it.



WARNING!

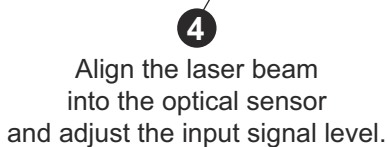
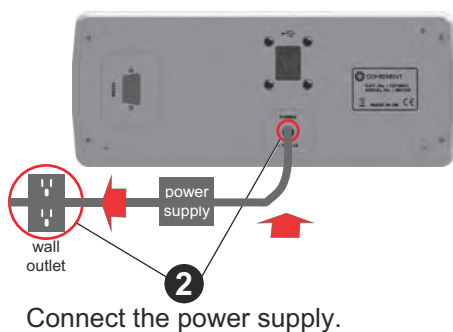
Follow all laser safety procedures. The laser must be blocked or switched OFF.



NOTICE!

Power to the WaveMaster meter must be OFF.

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Observe the wavelength reading on the screen.

For detailed information about taking a measurement, refer to the *WaveMaster User Manual* (1079154), available as a PDF file on the CD that shipped with your system.

OBTAINING SERVICE

To obtain service under this warranty, Customer must notify the Company of the defect before the expiration of the warranty period and make suitable arrangements for the performance of service. The Company shall, in its sole discretion, determine whether to perform warranty service at the Customer's facility, at the Company's facility or at an authorized repair station.

If Customer is directed by the Company to ship the product to the Company or a repair station, Customer shall package the product (to protect from damage during shipping) and ship it to the address specified by the Company, shipping prepaid. The customer shall pay the cost of shipping the Product back to the Customer in conjunction with annual recalibration and repair; the Company shall pay the cost of shipping the Product back to the Customer in conjunction with product failures within the first twelve months of time of sale or between annual recalibrations.

A Returned Material Authorization number (RMA) assigned by the Company must be included on the outside of all shipping packages and containers. Items returned without an RMA number are subject to return to the sender.

For the latest Customer Service information, refer to our website: www.Coherent.com.

Detailed instructions on how to prepare a product for shipping are shown under "Product Shipping Instructions" (p. 7).

Location	Phone	Fax	E-mail
USA	1.800.343.4912	503.454.5777	info_service@Coherent.com
Europe	+49-6071-968-0	+49-6071-968-499	info_service@Coherent.com
International	503.454.5700	503.454.5777	info_service@Coherent.com

PRODUCT SHIPPING INSTRUCTIONS

To prepare the product for shipping to Coherent:

1. Contact Coherent Customer Service—refer to “Obtaining Service” (p. 6)—to request a Return Material Authorization number.
2. Attach a tag to the product that includes the name and address of the owner, the person to contact, the serial number, and the RMA number you received from Coherent Customer Service.
3. Wrap the product with polyethylene sheeting or equivalent material.
4. If the original packing material and carton are not available, obtain a corrugated cardboard shipping carton with inside dimensions that are at least 6 in. (15 cm) taller, wider, and deeper than the product. The shipping carton must be constructed of cardboard with a minimum of 375 lb. (170 kg) test strength. Cushion the instrument in the shipping carton with packing material or urethane foam on all sides between the carton and the product. Allow 3 in. (7.5 cm) on all sides, top, and bottom.
5. Seal the shipping carton with shipping tape or an industrial stapler.
6. Ship the product to:
Coherent, Inc.
27650 SW 95th Ave.
Wilsonville, OR 97070
Attn: RMA # *(add the RMA number you received from Coherent Customer Service)*

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