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ASE-FL7200

Thulium Doped Fluoride Fiber ASE Source



435 Route 206N, Newton, NJ 07860
Ph: 973-579-7227, Fax: 973-383-8406
www.thorlabs.com

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Important Note to Purchaser

All technical information and recommendations related to Thorlabs products made in this manual are believed to be reliable. Before utilizing the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liability whatsoever in connection with such use.

Warranty

The ASE-FL7200 is warranted against defects in materials and workmanship for a period of one year from the date of shipment. During the warranty period Thorlabs will at its option repair or replace products that are found to be defective.

This warranty does not apply to defects caused by improper handling or operation of the ASE-FL7200. If the product is found to show excessive wear or to show signs of misuse Thorlabs will provide the customer with a quotation on repairing or replacing the unit.

The warrantee will be void if it is found that the fiber module has been opened; please see WARNING below.

WARNING:

There are no user serviceable parts inside of this unit.

The fiber module (4" x 8", with black cover) located inside the box is hermetically sealed. Removal of the cover that seals the fiber module will void the warranty on the ASE-FL7200; replacement fiber module cost is in excess of \$18,000. Please do not attempt to service this system; call Thorlabs, Inc. at 973-579-7227 for service.

The ASE-FL7200 is a broadband white light test source in the 1440nm to 1500nm regions. It has been designed to satisfy the demand for test equipment in the 1480nm range.

The very broad output spectrum has been achieved by utilizing a thulium doped fluoride fiber pumped by a single 800nm laser diode. This design allows for a higher degree of power and wavelength stability than conventional silica fibers. The output fiber is a standard SMF28 silica fiber.

ASE-FL7200
Technical Specifications:

Specification

Output fiber	SMF28
Total output power	> 0 dBm
Typical Spectrum density	> -25dBm/nm @ 1455-1485nm
Power Stability	See Plots
Size	130mm (H) X 440mm(W) X 460mm(D)
Operation temperature	0 C - 45 C
Storage temperature	-10 C - 45 C

Operation:

Power Connection

Only use a three pronged AC power cord; failure to provide an adequate earth ground can cause severe damage to the instrument.

This instrument is equipped with a switchable power supply to accommodate the two standard line voltages. It is pre-set at the factory for 100 – 120V. If it is necessary to switch the input line voltage to 200 – 240V standard, the main box can be opened and the switch accessed. Do not open the fiber module. Please insure that your power source falls within the range specified on the back panel.

Warm Up

After the AC line cord has been connected to your house power turn the main switch on the front panel on. Allow the unit to warm-up for 1 hour prior to use.

Optical Connection

The standard ASE-FL7200 is supplied with a FC/PC output connector. Please keep this output connector covered when not in use.

Do not use an index matching gel with the ASE-FL7200. Typically, the use of an index matching gel will not improve the coupling of our standard ultra-polished FC/PC connector. The use of a gel will very often lead to degradation of the performance of the connection in that it effectively traps contaminants that will damage the physically contacting connectors.

Thorlabs strongly recommends that all connector ferrules be visually inspected prior to attachment to the ASE-FL7200. Any dirt or imperfections on the ferrule must be removed prior to connection. Making consistent measurements with this instrument depends strongly on the quality of the connections.

Connector Cleaning Procedure

1. Using filtered dry compressed air (Thorlabs item #VRK404) blow the end of the connector to remove any loose contaminants.
2. Apply isopropyl alcohol to a lint free wipe (Thorlabs item #KM32) and clean the side of the connector ferrule and the connector body.
3. Blow the connector ferrule once again with the dry filtered compressed air.
4. Apply isopropyl alcohol to a lint free wipe and clean the end face of the connector ferrule.
5. Visually inspect the connector end face with a 100X (Thorlabs item FF394-FC) or greater inspection scope.
6. Connect optical patch cord to ASE-FL7200.

The ASE-FL7200 is now ready for operation. Please refer to the documentation included with these instructions for data specific to your unit.

Please contact THORLABS, Inc. for any additional technical support.

Thorlabs recommend calibration of the ASE Source every two years. Calibration consists of a re-testing of the power and spectral stability tests. Please contact Thorlabs at 973-579-7227 for pricing and information on having the unit calibrated.

Appendix "A" Final Test Inspection Records

Sheet 1: Summary of test results

Sheet 2: Power Density versus Wavelength Plot

Sheet 3: 15 minute Stability Test

Sheet 4: 30 minute Stability at 0° C

Sheet 5: 48 Hour Power Stability (First 24 Hours)



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