

User Manual

Laser Light Source Module

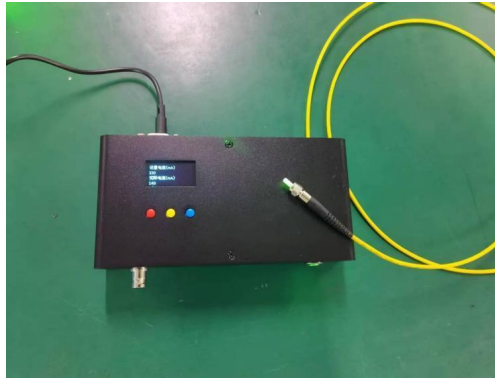
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1. Instrument Overview

1.1 Product Description

This light source adopts high-precision Automatic Power Control (APC) and Automatic Temperature Control (ATC) technologies, and is specially designed for laboratory and production testing applications.



1.2 Applications

- Production and testing of fiber optic passive devices
- Laboratory and scientific research applications
- Fiber sensing

1.3 Performance Features

- Ultra-high spectral stability and reliability
- High optical output power

1.4 Technical Parameters (Example)

Parameters	Unit	Reference Value
Center Wavelength	nm	488
Output Power	mW	30
Short-term Stability	dB	<±0.05 @15 min.
Long-term Stability	dB	<±0.1 @8 hours
Fiber Type	/	HP460
Connector	/	FC/PC
Operating Temperature	°C	10~38
Storage Temperature	°C	-40~70
Power Supply	/	AC220V, 50 Hz, 20W

Dimension	mm	180*90*40.5
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2. Function and Operation Instructions

2.1 Side A



Side A

- Fiber Output
Jacket diameter: 3 mm.
- COM Interface
Connect to a computer via an RS485 to USB cable, and can be controlled by upper computer software.
- DC-IN Interface
Connect to a 12V/1A round-port power adapter.

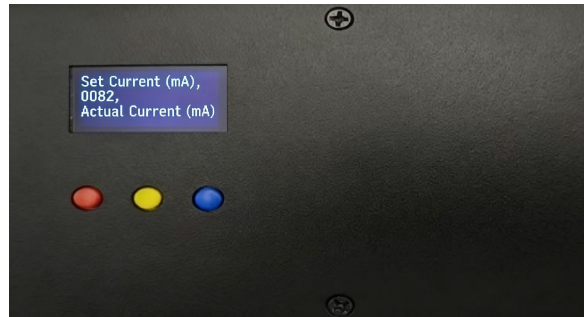
2.2 Side B



Side B

- TRIG-IN Interface
External trigger input for pulse power supply; not used for continuous power supply.
- ON/OFF Button
Press to turn on the power, the button light illuminates; pop up to turn off the power, the button light goes out.

2.3 Side C



Side C

- **OLED Display**
Displays the set current and actual current, unit: mA.
- **Buttons**
Red Button: Short press to turn the laser on or off.
Yellow Button: Short press to increase the set current; long press to continuously increase the set current.
Blue Button: Short press to decrease the set current; long press to continuously decrease the set current.

3. Safety Information and Precautions for Use

3.1 General Safety Information

- Please use the product in accordance with the regulations.
- To ensure the correct and safe operation of the product, in addition to the safety precautions specified in this manual, you must also comply with universally recognized safety procedures.
- This product is only for use by trained personnel.

3.2 Prevention of Fire or Personal Injury

- Use a suitable power cord: Use the dedicated power cord for this product.
- Keep away from exposed circuits.
- Do not operate in humid, flammable or explosive environments.

- If the equipment is suspected to be faulty, please ask professional personnel for maintenance and inspection.

3.3 Prevention of Laser Injury to Human Body

This product outputs high-power laser. Do not look directly at the output interface to avoid laser burns to eyes and skin.

3.4 Precautions for Use

Proper use of the product can effectively maintain its performance indicators.

Please pay attention to the following matters during use:

- Avoid mechanical vibration, collision, dropping and other damages to the instrument.
- Cover the dust cap in time when the instrument is not working to prevent dust and dirt from contaminating the output connector and causing abnormal output power.
- Do not disassemble the equipment by yourself.
- Use and store the equipment in a clean place with little dust as much as possible.