

MPO 12F / 16F / 24F Light Source

Specification & Operating Manual

VER 1.0

1. Description:

The MPO Light Source is a very useful tool and a stable light source designed for checking the defects of a MPO arrayed fiber cable or MPO Trunk cable in the Data Center. The MPO emits 850 nm、1310nm、1490nm or 1550nm wavelength laser light through fiber optic cables.

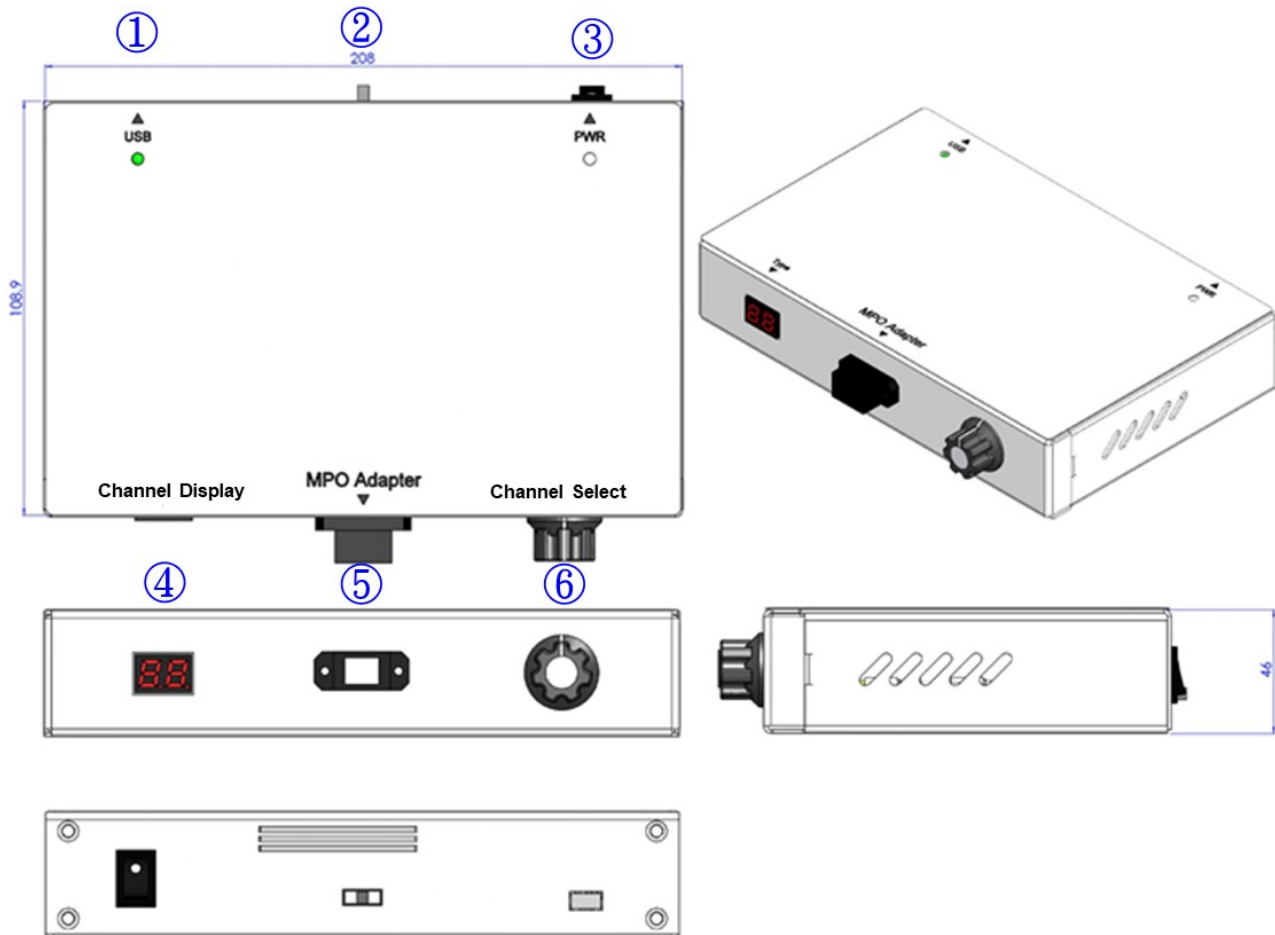
2. Features:

- No warm up time required
- 12F/16F/24F independent stable emitting laser of 850 nm、1310nm、1490nm or 1550nm Laser
- 12F、16F、24F MPO Connector for testing additional
- Operating in Continuous Wave (CW) Mode or Scan Mode or Manu Mode
- Handheld and rechargeable via USB cable

3. Specification

MM MPO Light Source	
Wavelength	850 nm $\pm$ 10 nm @ 25°C
Output Power	> 1 mW @ 25°C into 50 μ m Multi mode Fiber
MPO Adaptor	Male / PC with MM
SM MPO Light Source	
Wavelength	1310 nm $\pm$ 10 nm @ 25°C 1490 nm $\pm$ 10 nm @ 25°C 1550 nm $\pm$ 10 nm @ 25°C
Output Power	> 1 mW @ 25°C into 9 μ m Single mode Fiber
MPO Adaptor	Male / APC with SM
MPO Fiber Core	12F / 16F / 24F
Operating Temp.	0°C ~ 50°C
Storage Temp.	0°C ~ 70°C
Dimension	208 x 109 x 46 mm

4. Dimension (in mm)



1. **Mini USB Type** : DC charge , Input 5.0V/1.0A.
2. **Output Mode**: CW Mode 、 Scan Mode or Manual Mode switching .
3. **Power Switch** : Power On/Off.
4. **Display** : Show Laser emission channel. (by Manual Mode)
5. **Output**: Transmit output for MPO Adaptor.
6. **Knob**: Laser emission channel selection. (by Manual Mode)

5. Operating Manual

1. To connect MPO Light Source to USB to charge the internal battery.
2. Connecting the MPO fiber (DUT, Device Under Test) to the MPO Adapter.
3. Turn on the MPO Light Source.
4. To check if the MPO fibers output power performed well and fine.
6. To turn off the MPO Light Source.
7. To disconnect the DUT for MPO Adapter.
8. You can switch the Mode to CW Mode or Scan Mode or Manu Mode.
9. To disconnect the USB.
10. To store the MPO Light Source properly.

Warning:

Laser Product!

Please do not stare at the laser beam directly.

To shut off the Laser urgently, please turn off the Switch or to cover the cap directly.

6. Maintenance

Like any other type of electronic equipment, this MPO Light Source should be kept away from water, high humidity, dust, electricity, and environments of extreme temperatures. Do not drop this tool on any hard surface. Internal modification of any of the MPO Light Source components can cause a malfunction and will invalidate the manufacturer's warranty.

7. Warranty

The manufacturer warrants this product to be free of defects in workmanship and materials for a period of 1 year after purchase. This warranty is solely limited to the repair or replacement of the original parts. All other costs are the sole responsibility of the owner. This warranty does not cover any defects, damage, or deterioration due to misuse, alteration, or negligence.

8. Ordering Information:

Part Number	Description		
	Wavelength	Cores	Output Power
S20101210850	850 nm	12F	> 1 mW
S20102210850	850 nm	16F	> 1 mW
S20103210850	850 nm	24F	> 1 mW
S20101111310	1310 nm	12F	> 1 mW
S20102111310	1310 nm	16F	> 1 mW
S20103111310	1310 nm	24F	> 1 mW
S20101111490	1490 nm	12F	> 1 mW
S20102111490	1490 nm	16F	> 1 mW
S20103111490	1490 nm	24F	> 1 mW
S20101111550	1550 nm	12F	> 1 mW
S20102111550	1550 nm	16F	> 1 mW
S20103111550	1550 nm	24F	> 1 mW

9. Service Contacts:

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Record of Revisions		
Rev.	Date	Description of Change
Ver 1.0	2022.10.19	Preliminary Released
Ver 2.0	2024.12.02	Add 1490nm Laser & 1550nm Laser