

# **SimpliFiber®**

## *Optical Power Source*

### *Instruction Sheet*

The SimpliFiber optical power source provides optical power for testing fiber optic cables. You can use the source with any loss test set.

This instruction sheet covers the following models:

- The SimpliFiber 850/1300 Source, which provides 850 nm and 1300 nm optical power for testing multimode fiber.
- The SimpliFiber 1310 Source, which provides 1310 nm optical power for testing singlemode fiber.
- The SimpliFiber 1550 Source, which provides 1550 nm optical power for testing singlemode fiber.

A SimpliFiber source comes with the following:

- Holster with connector cover
- Dust cap(s)
- 2 AA batteries (installed)
- Instruction sheet
- Warranty registration card

### ***Registration***

Registering your product with Fluke Networks gives you access to valuable information on product updates, troubleshooting tips, and other support services. To register, fill out and return the postage-paid card provided, or fill out the online registration form on the Fluke Networks website at [www.flukenetworks.com/registration](http://www.flukenetworks.com/registration).

## **Contacting Fluke Networks**

Visit the Fluke Networks website at [www.flukenetworks.com](http://www.flukenetworks.com). Send email to [support@flukenetworks.com](mailto:support@flukenetworks.com).

For operating assistance in the USA, call 1-800-283-5853.

To order accessories or get the location of the nearest Fluke Networks distributor or service center, call:

- USA: 1-888-99-FLUKE (1-888-993-5853)
- Canada: 1-800-363-5853
- Europe: 00800 632 632 00 or +44 1923 281 300
- Beijing: 86 (10) 6512-3435
- Japan: +81-3-3434-0181
- Singapore: +65-6738-5655
- Anywhere in the world: +1-425-446-4519

Visit our website for the latest list of phone numbers.

## **Precautions and Safety Information**

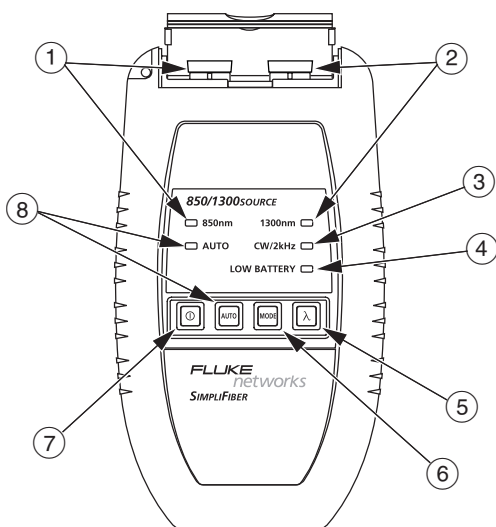
- Always clean the fiber optic connectors before use.
- Before testing, let the source stabilize for 5 minutes after you turn it on.

### **Warning: Class 1 Laser Product**

**To avoid possible eye damage caused by hazardous radiation:**

- **Never look directly into optical output connectors. Some sources produce invisible radiation that can permanently damage your eyes.**
- **Do not open the case, except to change the batteries. No user-serviceable parts are inside.**
- **Do not modify the source.**
- **Do not magnify or otherwise modify the source output. Use only approved connectors and adapters.**
- **Do not use controls, adjustments, or procedures not documented or approved by Fluke Networks.**

## 850/1300 Source Features



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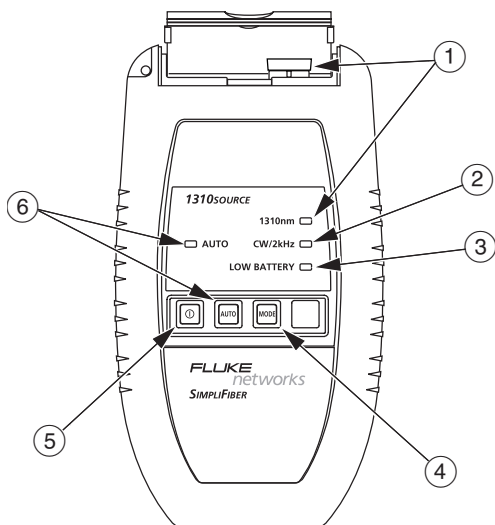
### Warning

Read "Precautions and Safety Information" before using the source.

- ① 850 nm port with SC or ST connector. The LED lights when the port is active.
- ② 1300 nm port with SC or ST connector. The LED lights when the port is active.
- ③ The LED lights when the output is in continuous wave (CW) mode or blinks when the output is modulated at 2 kHz. Press **MODE** to switch modes. **Use continuous wave mode (LED on steady) for making loss or power measurements with a meter other than a SimpliFiber meter.** Use the 2 kHz modulated mode for identifying fibers with a fiber identifier.
- ④ Low battery LED. Replace the batteries when the LED lights.
- ⑤ Switches the output between 850 nm and 1300 nm.
- ⑥ Switches the output between continuous wave (CW) and 2 kHz modulated modes. See ③.
- ⑦ On/off key.
- ⑧ Switches the output to Auto mode, which is used only with the SimpliFiber meter. In Auto mode the output is encoded to tell the SimpliFiber meter which wavelength is being transmitted. Press **MODE** to exit Auto mode.

See the documentation for your fiber optic meter for details on setting a reference and making measurements.



## 1310 and 1550 Source Features



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### Warning: Class 1 Laser Product

Read "Precautions and Safety Information" before using the source.

- ① 1310 nm or 1550 nm port with SC or ST connector. The LED lights when the port is active.
- ② The LED lights when the output is in continuous wave (CW) mode or blinks when the output is modulated at 2 kHz. Press  to switch modes. **Use continuous wave mode (LED on steady) for loss or power measurements when using a meter other than the SimpliFiber meter.** Use the 2 kHz modulated mode for identifying fiber cables with a fiber identifier.
- ③ Low battery LED. Replace the batteries when the LED lights.
- ④ Switches the output between continuous wave (CW) and 2 kHz modulated modes. See ③.
- ⑤ On/off key.
- ⑥ Switches the output to Auto mode, which is used only with the SimpliFiber meter. In Auto mode the output is encoded to tell the SimpliFiber meter which wavelength is being transmitted. Press  to exit Auto mode.

See the documentation for your fiber optic meter for details on setting a reference and making measurements.

## Maintenance

Clean the case with a soft cloth and mild detergent. Do not use abrasives or solvents.

Clean the connectors with lint-free swabs, wipes moistened with isopropyl alcohol, or pre-moistened swabs or wipes approved for use on fiber connectors. Always dry the connectors immediately after cleaning.

Periodically inspect the connector endfaces with a fiber microscope, such as a Fluke Networks FiberInspector™ Video Microscope. If an endface is damaged, contact Fluke Networks for service information.

Replace the batteries when the **Low Battery** LED lights. The source uses 2 AA alkaline batteries. To access the batteries, remove the battery compartment cover on the back of the source.

## Replacement Parts


The following replacement parts for the SimpliFiber source are available from Fluke Networks. Visit the Fluke Networks website for a complete list of fiber test accessories.

Description	Fluke Networks Part Number
Yellow holster with connector cover	1705523
Battery door	1704450
Instruction sheet	2031600

## Specifications

Emitter type	850/1300 source: infrared LED 1310 and 1550 sources: laser
Laser classification for 1310 and 1550 sources	Class 1
Safety for 1310 and 1550 sources	Complies with ANSI/ISA S82.01-1994, CSA C22.2 No. 1010.1-92, EN61010.1:1993
Output power	850/1300 source: > -20 dBm 1310 source: > -10 dBm 1550 source: > -10 dBm
Power output stability (8 hours)	±0.25 dB at 73 °F (23 °C)

## ***Specifications (cont.)***

<b>Connector</b>	SC or ST, depending on model
<b>Battery type and life</b>	Two AA alkaline batteries (NEDA 15A or IEC LR6)  850/1300 source: 10 to 50 hours, depending on mode  1310 and 1550 sources: 20 to 100 hours, depending on mode
<b>Temperature range</b>	Operating: 32 °F to 113 °F (0 °C to 45 °C) Storage: -4 °F to +120 °F (-20 °C to +60 °C)
<b>Humidity</b>	Operating: 10 % to 90 % non-condensing Storage: 5 % to 95 % non-condensing
<b>Certifications</b>	
<b>Dimensions (in holster)</b>	6.25 in x 3.50 in x 1.13 in (15.88 cm x 8.89 cm x 2.87 cm)
<b>Weight (in holster)</b>	200 g (7 oz)

### **LIMITED WARRANTY & LIMITATION OF LIABILITY**

Fluke Networks products will be free from defects in material and workmanship for one year from the date of purchase. Parts, accessories, product repairs, and services are warranted for 90 days. This warranty does not cover disposable batteries, cable connector tabs, cable insulation-displacement connectors, or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Fluke Networks' behalf. To obtain service during the warranty period, contact your nearest Fluke Networks authorized service center to obtain return authorization information, then send your defective product to that Service Center with a description of the problem.

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. FLUKE NETWORKS IS NOT LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, ARISING FROM ANY CAUSE OR THEORY. Since some states or countries do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you.

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