



FIBERLINK[®]

**Three Wavelength
Handheld Light Source**

Model 6620

USER'S MANUAL



CSI

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Specialties, Inc.**

WORLD HEADQUARTERS

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OVERVIEW

The Fiberlink® Three Wavelength Light Source is a versatile, hand-held test instrument that allows for convenient on-site testing of optical fiber networks during both construction and maintenance procedures. It includes three types of light sources with different wavelengths.

- 850 nm: for multimode fiber
- 1310 nm: for multimode or single mode fiber
- 1550 nm: for multimode or single mode fiber

The instrument has the ability to generate an optical signal with wide dynamic attenuation range, stable output power and stable output wavelength. When used in conjunction with an optical power meter, the two units serve as a powerful, accurate test kit.

FEATURES AND USES

- Determines optical loss in a fiber cable when used with Fiberlink® Optical Power Meter, model 6615.
- Locates breaks and micro-bends, even through jacketed fibers
- End-to-end fiber identification
- Stabilized output power
- High reliability
- Battery powered

APPLICATIONS

- A/V system troubleshooting
- CATV networks
- Cabling systems engineering
- Research and education

SPECIFICATIONS

Operating Wavelength (nm)	850/1310/1550
Emitter	Fabry-Perot LD
Output Power (dBm)	-9/-7/-7 (Min)
Modulation at 850nm	CW/2Hz
Modulation at 1310nm & 1550nm	CS/2KHz
Fiber Type	SM/MM
Optical Interface	ST/FC/SC
Power Supply	8.4 V (rechargeable)
Recharging Time	12 hours (typical)
Operating Temperature	0 to +40°C
Storage Temperature	-10°C to 50°C
Battery Operating Time	4 hours (typical)
Weight	180 grams
Dimensions	150 x 76 x 26 mm

Class I Laser Product complies with FDA performance standard for laser products, Title 21, Code of Federal Regulations, Sub-Chapter J.

DANGER! The transmitting element in Fiberlink Three Wavelength Light Source contains a solid state Laser Diode located within the optical connector. This device emits invisible infrared electromagnetic radiation which can be harmful to human eyes. The radiation from this optical connector, if viewed at close range without a fiber optic cable connected to the optical connector, may be of sufficient intensity to cause instantaneous damage to the retina of the eye. Direct viewing of this radiation should be avoided at all times. The unit is only intended to be operated when dust caps or optical fibers are installed on output connectors.

BATTERY INFORMATION

This unit comes with a supplied 8.4 V rechargeable battery and recharger. In an emergency, a standard 9V alkaline battery may be substituted for temporary power, **but it may not be recharged.**

This unit's battery may be charged by plugging the supplied recharger into an AC wall outlet. The output of the recharger is then plugged into the small jack at the bottom of the unit. The green "recharge" LED will light, indicating that the unit is recharging. The LED will turn off when the battery is fully charged.

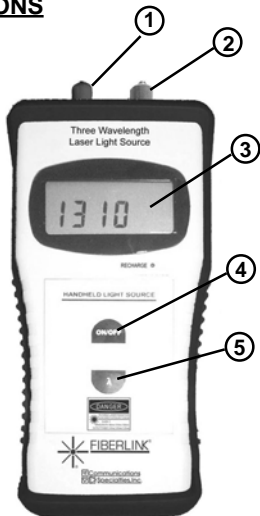
PRODUCT INCLUDES

The following components should be included with your product:

- Three Wavelength Handheld Light Source
- ST, FC and SC Adaptors
- Users' Manual
- Protective Holster
- 8.4V Ni-MH battery (rechargeable)
- Power Adaptor

PANEL FUNCTIONS

1. 850nm VCSEL output interface:
Connects to included ST, FC and SC adapters
2. 1310nm/1550nm laser output interface: Connects to included ST, FC and SC adapters
3. Liquid Crystal Display: Displays wavelengths
4. ON/OFF Button: Press it to turn on or off. Default wavelength is 850 nm.
5. λ Button: Press repeatedly to cycle through wavelength selections.



OPERATION

1. Press the ON/OFF button for about one second to switch the unit on.
2. Use the ST, FC or SC adaptor to connect the light source to the fiber being tested.
3. Use the λ button to select the output wavelength desired. Press repeatedly to cycle through the output options.
4. When finished using the unit, use the ON/OFF button to turn it off.

MAINTENANCE

1. When the Fiberlink Three Wavelength Handheld Light Source is not in use, it is important to place the dust cap over the light output to keep it clean and protected.
2. Over time and with use, the output port on the Fiberlink Three Wavelength Handheld Light Source may become dirty, resulting in a decrease in output power. Even minute specs of dust can interfere with performance. In most instances, a simple cleaning with alcohol, using a lint-free cloth, should resolve any problems. If this is not effective, the unit should be returned to the manufacturer for additional servicing.
3. If the unit will not be in use for an extended period of time, the battery should be removed.
4. If you are experiencing performance difficulties that cannot be resolved by the above steps, do NOT disassemble the unit yourself. Please contact the manufacturer for assistance.
5. If viewed directly, the laser output generated by this unit is harmful to human eyes and may cause permanent damage. When the light source is on, DO NOT look directly into its adaptors.

TROUBLESHOOTING

Problem: The output light is unstable or decreases rapidly while in operation.

Solution: Battery power is probably low. Try recharging the battery.

Problem: The output power is fluctuating.

Solution: The unit needs to be warmed up for 15 minutes before starting the test.

Problem: The output port is dirty.

Solution: Clean the connector with alcohol and a lint-free cloth or contact the manufacturer.

MANUFACTURER'S LIMITED WARRANTY

Communications Specialties, Inc. warrants that for a period of two years after purchase by the Buyer, the Fiberlink Three Wavelength Handheld Light Source will be free from defects in material and workmanship under normal use and service. A Return Material Authorization number must be obtained from CSI before any equipment is returned by the Buyer. RMA numbers may also be obtained via our web site. All material must be shipped to CSI at the expense and risk of the Buyer. CSI's obligation under this warranty will be limited, at its option, to either the repair or replacement of defective units, including free materials and labor.

In no even shall CSI be responsible for any incidental or consequential damages or loss of profits or good will.

CSI shall not be obligated to replace or repair equipment that has been damaged by fire, war, acts of God or similar causes, or equipment that has been serviced by unauthorized personnel, altered, improperly installed or abused.

Please have your serial number available when contacting us. (Contact information is located on the following page.)

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