Best.nr: 12-1142

Fiber Checker

Specification
&
User Manual

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1. Description

The Fiber Checker is a very useful tool designed for checking the defects of a fiber cable. It emits a visible 650 nm wavelength red laser light through fiber optic cables, then if there are breaks or defects in the fiber will refract the light, creating a bright glow around the faulty area.

The universal connector can be used for all the most widespread fiber interfaces such as ST / SC / FC connector. It is suitable to test both Singlemode and Multimode cables. With an optional 2.5 mm to 1.25 mm optional Adapter, you can easily test 1.25 mm diameter fiber LC or MU connector. The visibility is from 3 km to 5 km dependent upon the output power of the Fiber Checker.
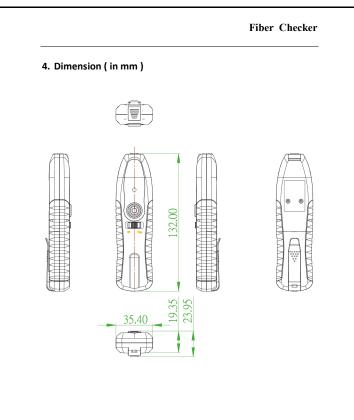
Internally there is also a specifically designed power circuit called an APC (Auto Power Control) circuit which provides steady power. The APC prevents unstable laser output when the battery is low.

The LD output signal can be switched to CW or Pulse Mode to obtain different visual effects. There is a dust cap which will prevent dirt from getting into the LD connector. The cover also prevents accidental exposure of the laser beam into anyone's eyes.
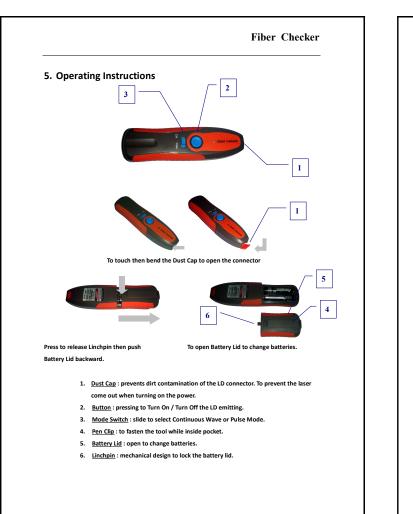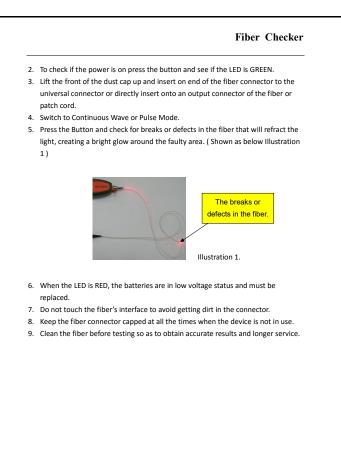
2. Features

- Easy to check fiber faults by using 650 nm visual red laser
- Range: visibility up to 3 ~ 5 km
- Universal Connector for testing additional (ST, SC, FC, MU, and LC interfaces when using our Optional Adapter
- Operates with both Singlemode and Multimode cables
- Highly effective power circuits designed for stable laser power
- Operating in both Continuous Wave (CW) & Pulse Mode
- Dustproof cap keeps fiber connectors clean
- Powered by two AAA-size alkaline batteries
- LED indicator for Power On, Battery Low alerts

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3. Specification

Laser Class	Class 2M
Wavelength	650 nm ± 10 nm @ 25℃
Spectral Width	< 10 nm
Output Power	> 0.5 mW @ 25℃ into 9 µm fiber
Output Power (Part number -1)	> 1 mW @ 25℃ into 9 µm fiber
Output Power (Part Number -2)	> 2 mW @ 25℃ into 9 µm fiber
Mode	Continuous Wave / Pulse Mode
Battery Type	AAA [1.5 V x 2]
LED Indicator	GREEN Light - Power On RED Light - Battery Low
Emitting Range	Visibility to 3 ~ 5 km
Operating Temp.	0℃ ~ 50℃
Storage Temp.	0℃ ~ 70℃
Weight	0.06 Kg
Dimension	132 * 34 * 19 mm

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4. Dimension (in mm)

5. Operating Instructions

3
2
1

1

To touch then bend the Dust Cap to open the connector

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6
4

Press to release Linchpin then push Battery Lid backward.

To open Battery Lid to change batteries.

1. <u>Dust Cap</u> : prevents dirt contamination of the LD connector. To prevent the laser come out when turning on the power.
2. <u>Button</u> : pressing to Turn On / Turn Off the LD emitting.
3. <u>Mode Switch</u> : slide to select Continuous Wave or Pulse Mode.
4. <u>Pen Clip</u> : to fasten the tool while inside pocket.
5. <u>Battery Lid</u> : open to change batteries.
6. <u>Linchpin</u> : mechanical design to lock the battery lid.

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2. To check if the power is on press the button and see if the LED is GREEN.
3. Lift the front of the dust cap up and insert on end of the fiber connector to the universal connector or directly insert onto an output connector of the fiber or patch cord.
4. Switch to Continuous Wave or Pulse Mode.
5. Press the Button and check for breaks or defects in the fiber that will refract the light, creating a bright glow around the faulty area. (Shown as below Illustration 1)

The breaks or defects in the fiber.

Illustration 1.

6. When the LED is RED, the batteries are in low voltage status and must be replaced.
7. Do not touch the fiber's interface to avoid getting dirt in the connector.
8. Keep the fiber connector capped at all the times when the device is not in use.
9. Clean the fiber before testing so as to obtain accurate results and longer service.

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6. Maintenance

This tool requires no maintenance other than periodic battery changes. Like any other electronic equipment, this tool should be kept away from water, high damp, dust, electricity, and environments of extreme temperature. **The Fiber Checker has an internal fiber stub that requires periodic cleaning with specific cleaning tools** (Shown in Illustration 2). The Fiber Checker is fragile and must not be dropped on a hard surface.   Modifying any of this tool's internal components can cause a malfunction and will invalidate the manufacturer's warranty.

Illustration 2. Fiber Stub Cleaning

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 (excluding batteries) is solely limited to the repair and replacement of original parts, which are defective in workmanship of materials. All other costs are the sole responsibility of the owner. This warranty does not cover any defects, damage, and deterioration due to misuse, alteration, or negligence.

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8. 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 take out the batteries directly.