

## 1.1 Description:

The Fiber Checker is used for checking the defects of a fiber cable. It sends a visible 650 nm wavelength red laser light through fiber optic cables, the breaks or faults 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 adapter, users can even test for 1.25 mm fiber LC / MU connector. The visibility is up to 3 Km.

Internally there is also a specifically designed power circuit included; the APC ( Auto Power Control ) circuit provides steady power which avoids unstable laser output when the battery is low.

The LD output signal can be switched on CW or Pulse Mode to obtain different visual effects. There is a dust proof cover which will prevent dust from getting into the inside of the LD connector. The cover also helps evade incidental exposure of the laser directly into your eyes.

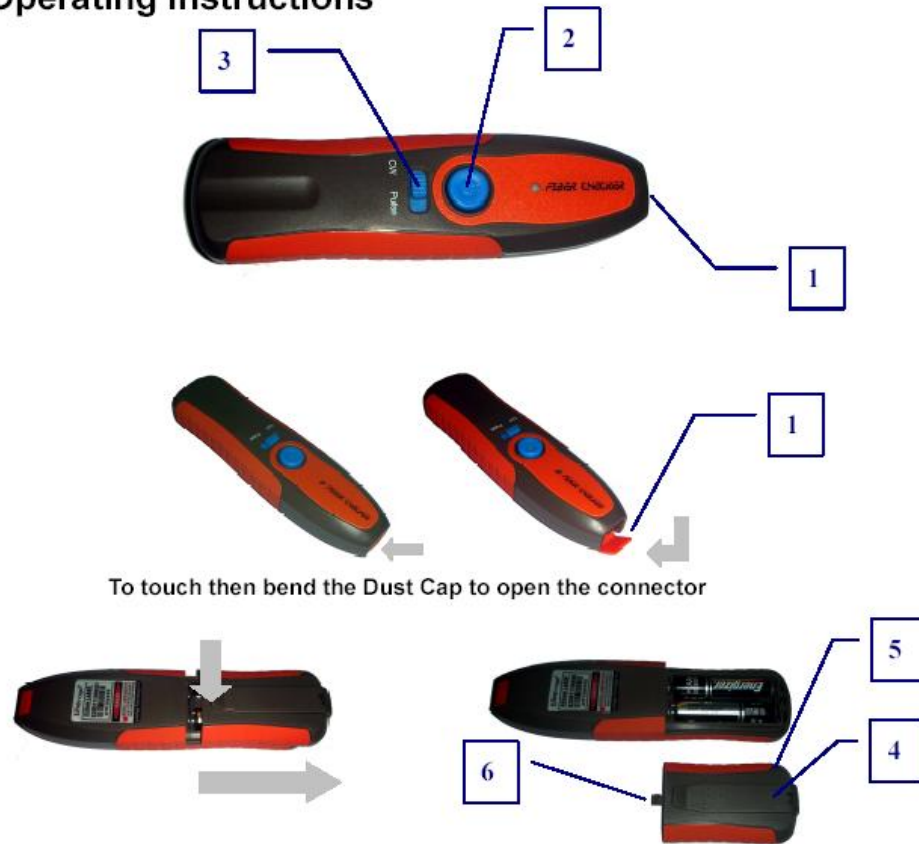
## 1.2 Features:

- Wavelength: 650 nm
- Range: visibility up to 3 Km
- Easy to check fiber faults with visual red laser light
- Universally Connector for test different ST, SC, FC, MC, LC interfaces
- Tests for both Singlemode and Multimode cables
- Highly effective power circuits allow for stable laser power
- Operates in both CW ( Continuous Wave) & Pulse Mode
- The dust-proof design keeps fiber connectors clean
- Two AAA-size alkaline batteries
- LED indicator for Power, Battery Low indicators

## 2. Specification

|                       |                                      |
|-----------------------|--------------------------------------|
| Laser Class           | Class 2M                             |
| Wavelength            | 650 nm $\pm$ 10 nm @ 25°C            |
| Spectral Width        | < 10 nm                              |
| Output Power          | > 0.5 mW @ 25°C into 9 $\mu$ m fiber |
| Mode                  | CW / Pulse Mode                      |
| Battery Type          | AAA 1.5 V x 2                        |
| Indicator             | Power / Battery Low                  |
| Output Power Reliable | +/- 0.2 mW                           |
| Emitting Range        | Visibility to 3 Km                   |
| Operating Temp.       | 0°C ~ 50°C                           |
| Storage Temp.         | 0°C ~ 70°C                           |

### 3. Operating Instructions



To touch then bend the Dust Cap to open the connector

To press to release Linchpin then to push Battery Lid backward. To open Battery Lid to change batteries.

1. Dust Cap : prevent dirt contaminates the LD
2. Button : pressing to Turn On / Turn Off the LD emitting.
3. Mode Switch : to select CW Continuous Wave Mode / Pulse Mode.
4. Pen Clip : a design to fasten the tool while put inside pocket.
5. Battery Lid : to open to change batteries.
6. Linchpin : a mechanical design to lock the Battery Lid.

1. The Fiber Checker is powered by two pieces 1.5 V AAA batteries
2. To check the power on please press the button and see if the LED is GREEN.
3. Lift the front of the dustproof up and insert on end of the fiber connector to the universal connector or directly insert to an output connector of the fiber or patch cord.

4. Switch to CW / Pulse Mode.
5. Press the Button and check if the fiber broken part.
6. When the LED is RED , this means that the batteries are almost drained out and is in low voltage status and you will need to replace the batteries right away.
7. Do not touch the fiber's interface to avoid dirt into the connector.
8. Keep the fiber connector capped at all the time when the device is not in use.
9. With proper cleaning tools to clean the fiber before testing so that to obtain the right tests results and make the service longer.

## 4. Maintenance

This tool requires no maintenance other than periodic battery charges. Like any other electronic equipment, this tool should be kept away from water, high damp, dust, electricity, and environments of extreme temperature. Do not drop this tool on hard surface. Modifying internally any of this tool components can cause a malfunction and will invalid the manufacturer's warranty.

## 5. 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 should be the sole responsibility of the owner. This warranty does not cover any defects, damage, and deterioration due to misuse, alteration, or negligence.

## 6. Ordering Information:

| Part Number   | Description                                 |
|---------------|---------------------------------------------|
| S200111- 0650 | 650 nm Fiber Checker                        |
| S200411       | 2.5 mm to 1.25 mm adapter for Fiber Checker |