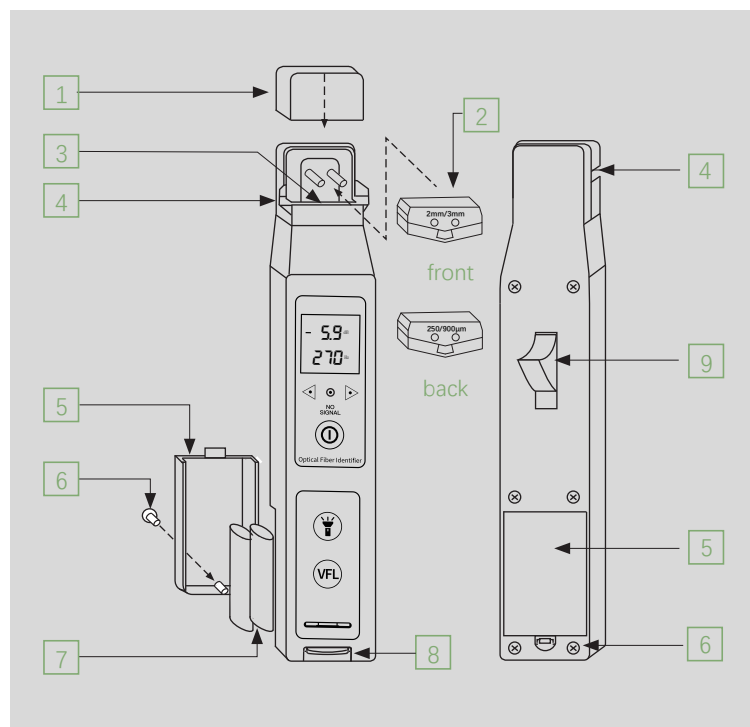


TFI-40 Fiber Identifier User Manual

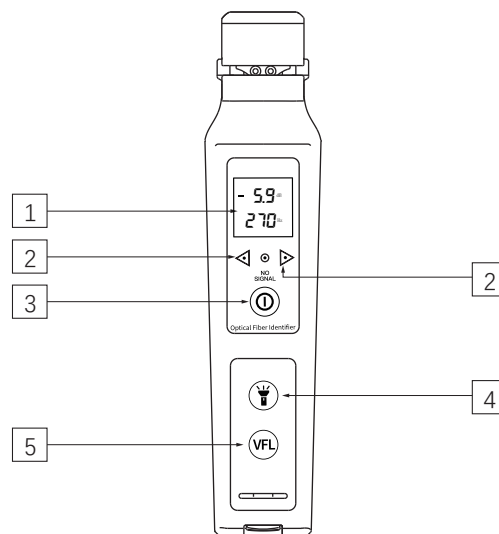
Products introduction

The fiber identification instrument is an essential tool for fiber maintenance. It is used for non-destructive fiber identification. It can be detected at any position of single-mode and multi-mode fiber. During maintenance, installation, wiring and recovery, it is often necessary to continue without interruption. In the case of business, find and separate a specific optical fiber, by injecting a 1310nm or 1550nm band modulation (270Hz, 1KHz, 2KHz) signal into the optical fiber at one end, and use the recognizer to identify it on the line, and it can also indicate the signal direction. This product integrates VFL red light function and LED lighting function. The VFL uses a 2.5mm universal interface with an output power of up to 1mW, which can detect fiber breaks or corners within 5KM. The VFL red light source supports pulse and continuous wave operation. Equipped with LED lighting function, convenient for construction in the dark.



- ① Fixture cover
- ② Plunger detachable, use on the front and back, choose the corresponding surface according to the thickness of the fiber
- ③ Optical components
- ④ Fiber groove
- ⑤ battery cover
- ⑥ Fixing screws
- ⑦ 2×1.5V alkaline battery
- ⑧ Dust cover: built-in VFL interface (2.5mm universal interface) and LED lighting
- ⑨ Lock button

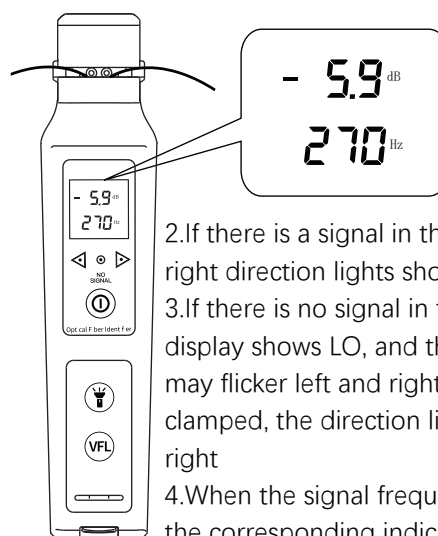
1 Panel features open



- ① LCD display--display power value, frequency.
- ② Direction indicator--indicating the direction of the optical fiber light source under test.
- ③ Power--power on/off.
- ④ Backlight--Switch the backlight function [On] or [Off].
- ⑤ VFL key-- turn on/off the VFL function.

2 Fiber signal recognition

1. Put the fiber to be tested into the groove of the fixture, push the button to lock the fixture, and install the fixture cover .

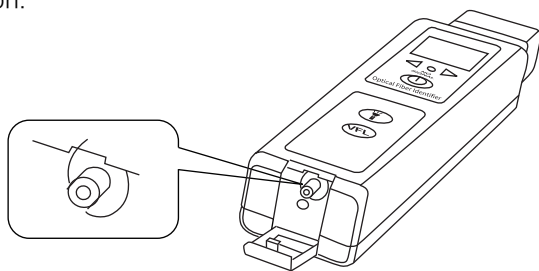


- 2.If there is a signal in the optical fiber, the left and right direction lights show the signal direction.
- 3.If there is no signal in the optical fiber, the LCD display shows LO, and the direction indicator light may flicker left and right. When the fiber is not clamped, the direction light may also flicker left and right
- 4.When the signal frequency is 2KHz, 1KHz, 270Hz, the corresponding indicator light is on, accompanied by a buzzing sound (when the signal is too weak, it will not be correctly identified).

Note: This product does not specify power accuracy and should not be used to determine the actual signal strength in the fiber.

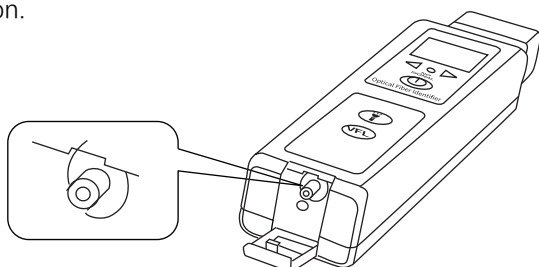
3 VFL red light test

Turn on the power, open the dust cover, and insert the fiber interface under test into the laser connector. Press the VFL button, the laser will output continuous wave, press the VFL button again, the laser pulse. Rush output, short press again to turn off the VFL function.



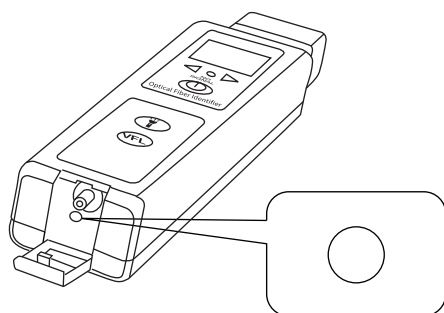
4 VFL red light test

Turn on the power, open the dust cover, and insert the fiber interface under test into the laser connector. Press the VFL button, the laser will output continuous wave, press the VFL button again, the laser pulse. Rush output, short press again to turn off the VFL function.



5 LED lighting

Turn on the power, open the dust cover, click the "☼" button to turn on the flashlight, which is convenient to use in a dark environment and realize the lighting function; short press the "☼" button to turn off the flashlight.



6 Products features

- The three-in-one universal fixture design is suitable for a variety of optical fibers. Mechanical damping design to ensure no harm to light
- LED backlight display, suitable for various environments without auxiliary lighting.
- Recognize 270Hz, 1Hz, 2KHz modulation signal.
- Online testing, no need to interrupt the business, one-touch operation mode, simple and convenient.
- Be equipped with LED light, more convenient to work in the dark.
- Integrated VFL function, 2.5mm universal interface.

7 Products Specification

Wavelength recognition range	800nm to 1700nm
Signal recognition type	CW, 270 Hz \pm 5%, 1 kHz \pm 5%, 2 kHz \pm 5%
Detector type	ϕ 1mm InGaAs 2 pcs
Adapter fiber type	universal ϕ 0.25mm (fiber), ϕ 0.9mm, ϕ 2.0mm, ϕ 3.0mm optical fiber sheath
Optical power reading range	-40 dBm to 10 dBm
Signal frequency range	270Hz, 1kHz, 2kHz
Power type	AA*2
range of working temperature	-10°C to 60°C
Storage temperature range	-25°C to 70°C
Product size/weight	219mm*45mm*28mm/235g
VFL power range	1mW
VFL test distance	3-5km
VFL wavelength range	650nm
VFL laser type	LD
LED flashlight	Support

➤ Use environment

- **Operating environment altitude:** areas below 2000m above sea level

8 Tips

- ⚠ **Please read all instructions and warnings before using this product. Irregular use will cause it will damage the product or personal safety.**

- 1) Equipment should be kept free of dirt and other contaminants
- 2) Do not store this product in high temperature, strong light and strong magnetic fields, and do not place it in other harsh environments such as fire sources.
- 3) Personal and property damage caused by improper use of consumers in violation of the product manual. The harm will bear all consequences by itself, and the company will not bear any legal responsibility.
- 4) The user should carefully place the optical fiber in the provided optical fiber slot. Incorrectly pressing the optical fiber into the head assembly or misalignment of the optical fiber with the fiber groove may cause the optical assembly to deform
- 5) To avoid serious eye injury, never directly look at the optical output of fiber optic network equipment, test equipment, jumpers or test jumpers
- 6) Avoid strong physical effects, including knocking, throwing, trampling, squeezing, etc.
- 7) Non-professionals are strictly prohibited from disassembling this product.

➤ Standard configuration

- **Packing carton, host, certificate, instruction manual.**

Contact us

NANJING ORIENTEK OPTICAL COMMUNICATION LTD
TEL: +86 17312230635

Mail: info@orientekot.com

Add: Jianshan Industry Park, Liuhe District, Nanjing, Jiangsu, China

Web: www.orientekot.com