



JONARD TOOLS®

MADE FOR LIFE®



MULTI-FUNCTION OTDR-1000

INSTRUCTION MANUAL

SOFTWARE DOWNLOAD:

URL: <https://jonard.com/OTDR-1000>

WARNING

To avoid eye damage, DO NOT look directly at the optical interface or the end of the optical fiber.

To reduce the risk of fire or electrical shock, do not use this device in thunderstorms or humid environments.

Do not attempt to open the housing of this device. If repairs are needed, it must be repaired by the manufacturer.

ATTENTION

Battery: The charging voltage of the battery is 5V between 0°C ~ 50°C. If ambient temperature exceeds this range, charging will terminate.

The device should also be charged at least once every month to maintain battery performance.

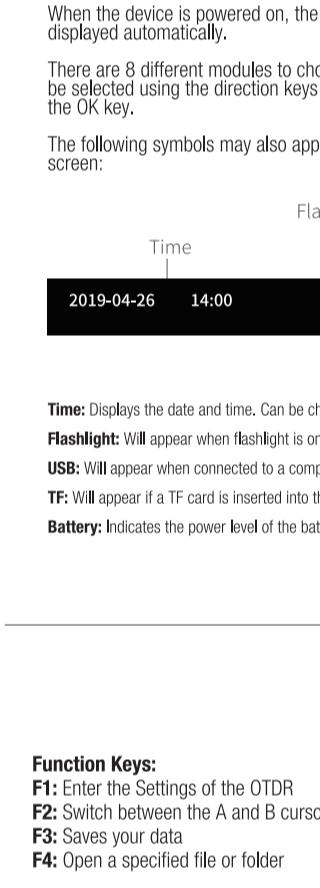
Use the included power supply (or another one that's 5V) to prevent any damage to the battery.

Fiber End Face Cleaning: Before testing, clean the end face of the fiber optic cable using cleaning solution or alcohol and a cotton swab.

LCD screen: The display of this series of instruments is 3.5 inch color LCD. In order to maintain good viewing effect, please keep the LCD screen clean and clean. When cleaning, the LCD screen can be cleaned by wiping with soft fabric.

Brief

1.



Top view

- ① OTDR/LS Port
- ② OPM Port
- ③ VFL Port
- ④ Flashlight

Left side

- ① Micro USB
- ② Charging LED Indicator
- ③ TF Card Port

Right side

- ① RJ45 Interface
- ② Reset button

Bottom view

- ① RJ45 Remote tester

Main view

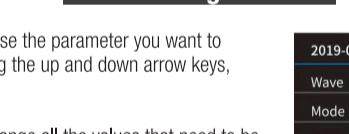
- ① Dust Cover
- ② 3.5 inch Color LCD
- ③ Function Keys

2.

Key Overview

Function keys

Correspond to the operations on the bottom of the screen



F1 F2 F3 F4

OK

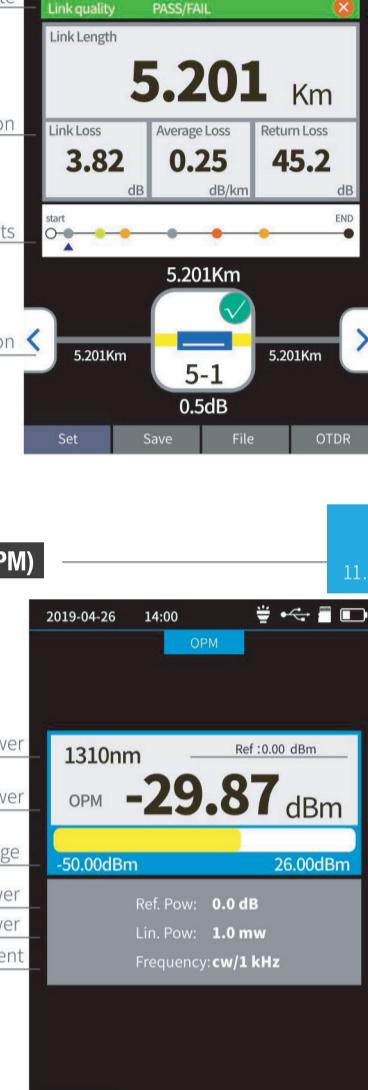
OTDR-File Save

8.



OTDR-File Operation

9.



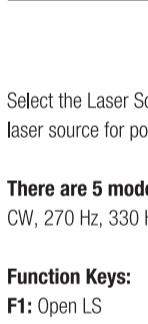
Event Map (iOLM)

10.

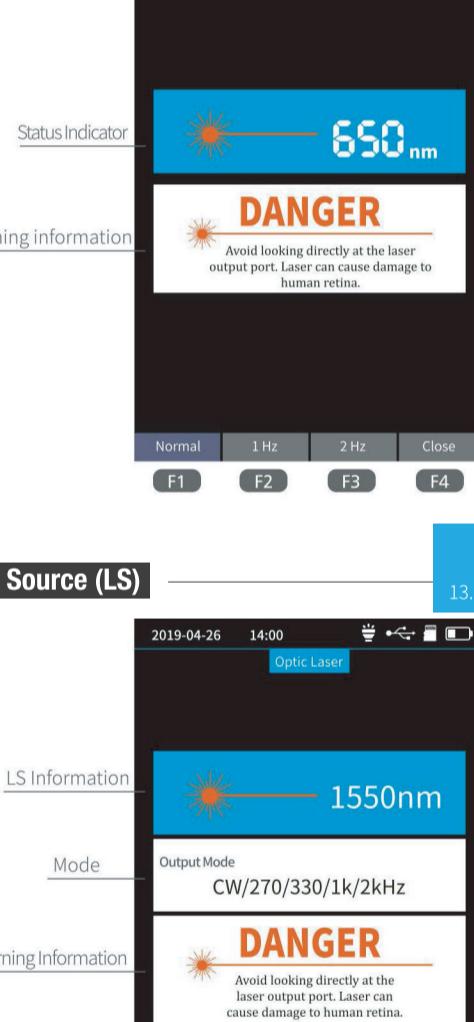
The Event Map displays the link quality, length, events, and other information clearly and easy to understand. In this module, the function keys can be used to perform different actions.

Function Keys:

- F1: Set the parameters and test
- F2: Save the results after testing
- F3: File Manager
- F4: Return to the OTDR module



Press left and right buttons to switch events



Power Meter (OPM)

11.

Select the OPM module to identify and measure the relative power of fiber optic cables using 270/330/1k/Zk/Hz frequencies.

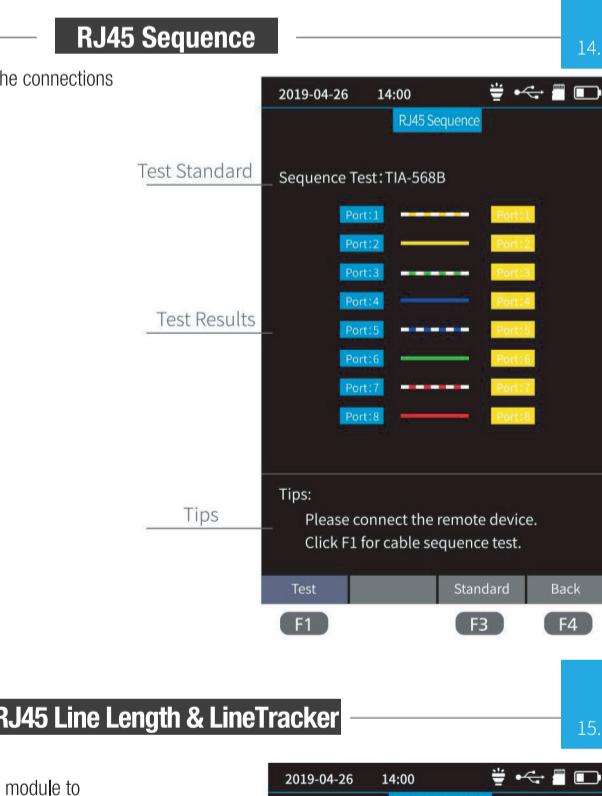
Function Keys:

- F1: Switching wavelength
- F2: Setting Reference Power
- F3: Zero Reference Power
- F4: Enter the Calibration Mode

Formulas for Absolute, Relative, and Linear Power:

$$P_{\text{Abs.}} = 10 \lg P_{\text{Lin.}} / 1 \text{mW}$$

$$P_{\text{Rel.}} = P_{\text{Abs.}} - P_{\text{Ref}}$$



Visual Fault Locator (VFL)

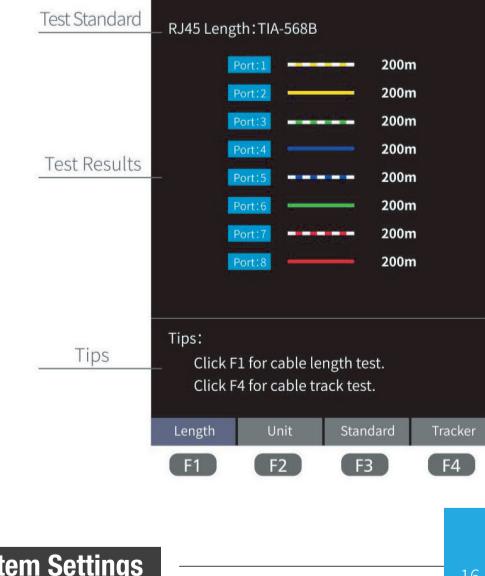
12.

Use the VFL module to shine 650 nm red light into fiber optic cables to detect faults.

CAUTION: Do not look directly into the laser output port. Laser can cause eye damage.

Function Keys:

- F1: Turn on VFL
- F2: Pulse Mode at 1 Hz
- F3: Pulse Mode at 2 Hz
- F4: Turn off VFL



Laser Source (LS)

13.

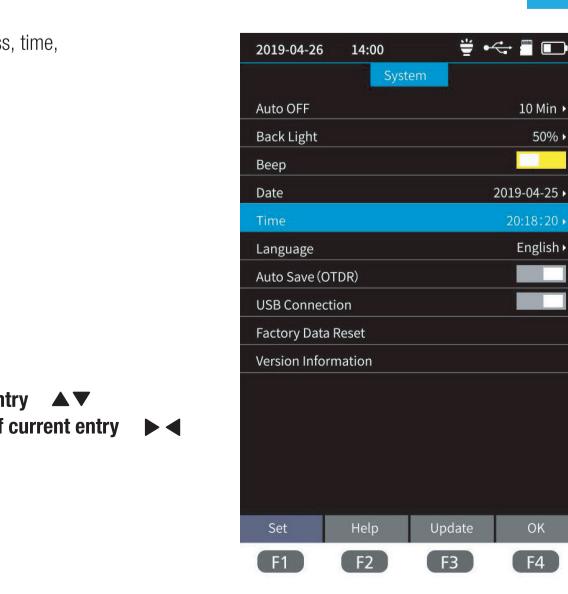
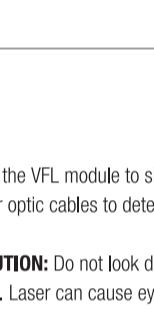
Select the Laser Source module if you need a stabilized laser source for power measurements or other tests.

There are 5 modes of this Laser Source:

CW, 270 Hz, 330 Hz, 1 kHz, and 2 kHz

Function Keys:

- F1: Open LS
- F2: Turn off LS
- F3: LS Wavelength Settings
- F4: LS Mode Settings



RJ45 Sequence

14.

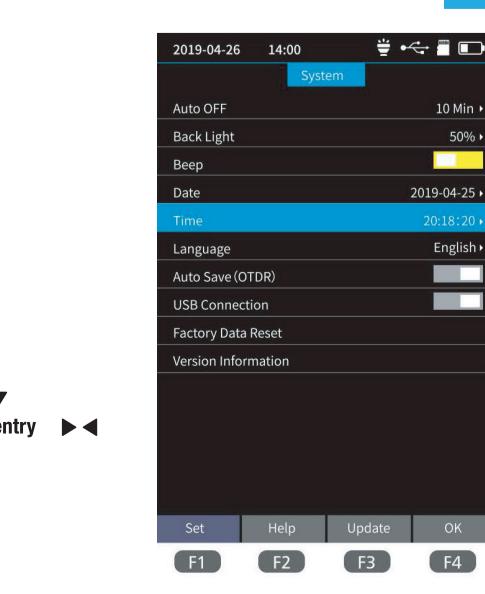
Select the RJ45 Sequence module to test the connections of CAT5/6 network cables.

Function Keys:

- F1: Start Testing
- F3: Change Sequence Test Method
- F4: Return to Main Menu



Do not test on live network cables.



RJ45 Line Length & LineTracker

15.

Select the RJ45 Line Length & LineTracker module to measure the length and trace network cables.

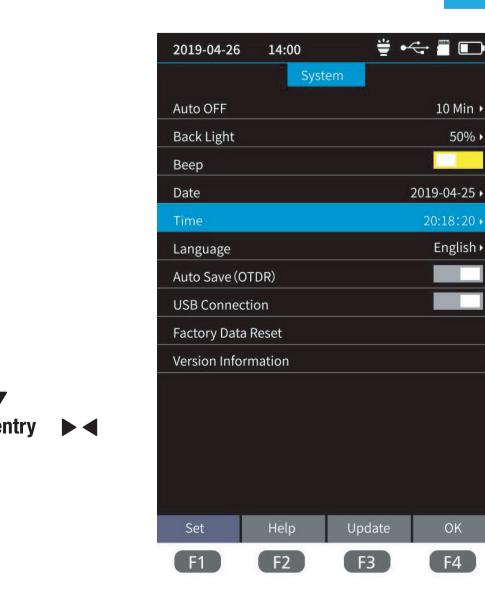
Note: A tracing probe is needed to trace the cables. The OTDR-1000 does not include a tracing probe.

Function Keys:

- F1: Start Line Length Test
- F2: Switch Line Length Unit
- F3: Switch Line Sequence Test Standard
- F4: Start Line-tracker Function



Do not test on live network cables.



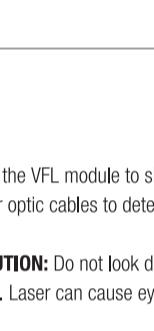
System Settings

16.

Set up automatic shutdown, backlight brightness, time, language, and other information.

Function Keys:

- F1: Change the chosen parameter
- F2: Open Help Dialogue
- F3: System Software Update
- F4: Confirm all changes to Settings



Switch Setting Entry ▲▼
Switch options of current entry ►◀

