



Optical Fiber Tester

USER'S MANUAL

Warning

When using this instrument, please do not look directly at the optical interface or the end of the optical fiber with your eyes, avoid eye damage! Except for 1625nm/1650nm, all the others are non-on-line test wavelengths, it will cause damage to the internal device of the instrument if it is used forcibly! Any change or modification not explicitly permitted in this manual will deprive you of the right to operate the equipment. To reduce the risk of fire or electric shock, do not expose the equipment to thunderstorm or humid environment. In order to prevent electric shock, do not open the shell, it must be repaired by the qualified personnel designated by the manufacturer.

Attention

Battery: The battery in the machine is a special lithium-ion polymer battery. The charging voltage is 5V, and the charging temperature ranges from 0°C~50°C. When the ambient temperature is too high, the charging will automatically terminate. The instrument battery should be charged every one month to avoid battery failure due to self-discharge after long time storage. The temperature range of the battery during long-term storage is -20°C~45°C. Please use the special AC adapter attached to this instrument and use the external power supply strictly according to the specifications, otherwise the equipment may be damaged.

Fiber End Face Cleaning: Before testing, clean the end face of the tested optical fiber joint with alcohol cotton.

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.

Due to the need of design improvement, the contents are subject to change without notice.

Brief

Top view

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

Right side

- ① RJ45 Interface
- ② Reset button

Main view

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

Left side

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

Bottom view

- ① RJ45 Remote tester

Functional Keys

Functional keys
Correspond to the operation menu below the screen.

F1 F2 F3 F4

Zoom key

Zoom function key, combined with direction keys to operate.

ON/OFF key

Short press to turn on, long press to turn off; after turning on, short press to turn on or off the flashlight.

OK key

Enter the next level of interface, Enter function

Measure key

Press to start or stop the test under the OTDR interface

Exit key

Return to the previous menu

Directional keys

Up and down choice, right and left choice

Main Interface

Turn on and enter the main menu. There are eight functional modules. Select the module by pressing the direction keys, and then press the "OK" key to enter the corresponding functional interface.

Flashlight TF USB Battery

Time 2019-04-26 14:00

OTDR

F1: Enter the parameter setting interface

F2: Switching A/B cursor

F3: Enter the save interface

F4: File or Folder operation

Link Information

Waveform

A/B cursor

A/B Information

Test Conditions

Event List

OTDR Setting Interface

OTDR setting interface

Enter the parameter setting interface. Multi-digit settings, through the left and right key positioning cursor, up and down selection.

▲▼: Choosing settings items.

Press OK button to confirm or edit corresponding measurement parameters.

F1: Test

F2: OK

F3: Recovery

F4: Cancel

Test Results

Link quality and information can be viewed from the top after the test is completed.

Link information includes length, total loss and number of events.

Detailed event information can be viewed from the event list.

There are Four types of events:

Reflective event

Non-reflective event

Fiber splitter

Fiber end

OTDR-Zoom mode

Press [OK] enter zoom mode

▲ X-axis direction zoom in

▼ X-axis direction zoom out

▲ Y-axis direction zoom in

▼ Y-axis direction zoom out

Press [OK] 1:1 display

OTDR-File Save

OTDR-File Save

Press [F3] (Save) key to save file after test complete, pop up the keyboard, enter the name of the file, and press Enter to save the file. If the automatic save (otdr) function is turned on in "System Settings", it will be saved automatically after the test complete without manual operation.

Auto-save function

Enter the system settings, open the auto-saving function, the instrument will automatically save the test files after the average or auto-test.

OTDR-File Operation

OTDR-File Operation

Press [F4] key to enter the file list.

Press the [OK] key to open a folder or file.

F1: Open file

F2: Delete file

F3: Rename file

F4: Return to the main menu

iLOM(Event Map)

The function can be tested automatically by one key, and the information of the length of the link, the type of event point and the position of event point can be displayed in a graphical form. The result is clear and easy to understand.

Link state

Link information

Link events

Current event information

Press left and right buttons to switch events

OPM

This function is used to test the power of optical signal and insertion loss of various devices and optoelectronic components. It can identify and measure the frequency of 270/330/1k/2kHz frequency optical signal.

F1: Switching wavelength

F2: Setting Reference Power

F3: Zero Reference Power

F4: Enter the Calibration Mode

Absolute power, relative power and linear power are converted as follows:

$P_{abs}=10lgP_{lin}/1mW$

$P_{rel}=P_{abs}-P_{ref}$

VFL

Visible red light (650 nm) is injected into the optical fiber, and the position of the optical fiber fault point can be judged conveniently and accurately by observing the leakage position on the measured fiber. It is suitable for the detection of bare optical fibers, jumpers and other high loss sections caused by near-end faults and micro-bending of optical fibers and cables which can leak red light.

Avoid looking directly at the laser output port. Laser can cause damage to human retina.

F1: Open VFL

F2: VFL flash at 1 Hz

F3: VFL flash at 2 Hz

F4: Turn off VFL

LS-Laser Source

The wavelength of stabilized laser source is the same as OTDR wavelength. It is used to measure the parameters of telecommunication, CATV, LAN cable, insertion loss, isolation loss and echo loss of optical passive devices, and wavelength responsiveness of detectors.

There are five modes of light source: CW, 270 Hz, 330 Hz, 1 kHz and 2 kHz.

F1: Open LS

F2: Turn off LS

F3: Switch LS Wavelength

F4: Switch LS Mode

RJ45 Sequence

RJ45 line sequence measurement.

F1: Start Test

F3: Switch Line Sequence Test Standard

F4: Return to the main menu

RJ45 Line Length & LineTracker

RJ45 Line Tracker

Used for RJ45 cable length testing and wire trackers. After the line-finding function is activated, the cable being searched is touched by the distal end of the line-searching, and the sound of continuous "drops and drops" is heard.

The Line-Tracker tests the cable length and wire trackers. After the line-finding function is activated, the cable being searched is touched by the distal end of the line-searching, and the sound of continuous "drops and drops" is heard.

RJ45 Line Length Test

F1: Start Line Length Test

F2: Switch Line Length Unit

F3: Switch Line Sequence Test Standard

F4: Start Line-tracker Function

System settings

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

F1: Optional for switching the current menu

F3: System Software Upgrade

F4: Confirmation Settings

Switch settings entry ▲▼

Switch options of current entry ►◀

Auto OFF 10 Min +

Back Light 50% +

Keep Date 2019-04-25 +

Time 20:14:28 +

Language English +

Auto Save (OTDR)

USB Connection

Factory Data Reset

Service Information

Set F2 F3 F4

Auto OFF 10 Min +

Back Light 50% +

Keep Date 2019-04-25 +

Time 20:14:28 +

Language English +

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