

Optical Network Tester

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 wavelength, it will cause damage to the internal devices 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 $0^{\circ}C \sim 50^{\circ}C$. 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 $-20^{\circ}C \sim 45^{\circ}C$. 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 **4.3** 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

O OTDR/LS port ② OPM port ③ VFL port ④ Laser ranging port

Left side

① TF Card Port ◎ Type C USB

Bottom view O RJ45 Remote tester

Main view

① Dust Cover ② 4.3 inch Color LCD ③ Function Keys ⊕ LED Charging indicator

Right side

① RJ45 Tracker port ② RJ45 Sequence port

Back view

① Flashlight ② Loudspeaker

Functional Keys



Expert OTDR: set parameters such as wavelength, range and pulse width.

FastSet: quickly set the test parameters of OTDR Measurement mode: OTDR scanning event mode, AutoTest/RealTest/Avg.Test

Wavelength: select the test wavelength of OTDR Test range: usually choose about 2 times of the length of the optical fiber to be tested

Test pulse width: 3ns ~ 20000ns optional, different range, the optional pulse width is different

There are five types of events:





OTDR Setting

Set: Avg.Time and IOR are the same as those in Auto OTDR. Sample Rate: Standard: test with standard accuracy High: test in high precision mode, the test

time will be extended

Event Loss Thre .: set the loss threshold of connection point, fusion point in the link that can be tested, between $0.2 dB \sim$ 30dB, and the default value is 0.2dB. Loss value larger than the setting value will be listed in the event list, or it will be ignored.

Return Loss Thre .: set the return loss threshold of the link reflection events that can be tested, ranging from 10dB to 60dB, the default value is 40dB.

End Loss Thre.: set the loss threshold at the end of link that can be tested, ranging from 1dB to 30dB, the default value is 10dB.

RealTest Analyse: turn on or off the automatic analysis

OK: save the set parameters

Restore: restore factory settings

13:24 Test Settings

OTDR-File Save

Press the **[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 Press **[File]** to enter the file list.

Head: back to the first page Delete: delete the current file or folder Rename: change the name of the current file or folder Open: open the selected file or folder



The 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 270/330/1000/2000Hz optical signal.

Wave: switch the working wavelength Reference: set current power as reference power

CAL: enter the user calibration mode and <u>Absolute Power</u>

nal. Reference Power

13:24		
	ОРМ	
1310nn	n _{Ref}	:0.00 dBm
ОРМ	-0.01	dBm

8.



RJ45 Sequ	uence	15.
RJ45 line sequence measurement. Measure the sequence of 8-core wires inside the network cable. Please connect to the remote module when measuring. Standard: select different network cable	13:24 RJ45 Sequence Port:1 Port:2 Unkr Port:3 Port:4 Unkr	
Test: standards Test: start cable sequence test Exit: exit the cable sequence test and return to the main interface Warning	t Results Port:5 - Unkr Port:6 - Unkr Port:7 - Unkr Port:8 - Unkr	own own own own
Please do not test online!	Tips Tips: Do not online test! Please connect the remote devic	e.
The cable sequence port is designated as the lower interfa displayed in yellow. Incorrect connection will cause dama	face Randard Test	Exit
RJ45 Ler	ngth	16.
RJ45 Length test:Test the length of the network cable.	13:24 RJ45 Length	
Standard: select different cable standards Unit: switch different units	Port:1 200 Port:2 200 Port:3 200	Im Om Om
CAL: adjust the test result according to the actual length, and display length = last test result \times correction	Port:4 200 Port:5 200 Port:6 200	Im Dm
Warning	Port:7 200 Port:8 200)m)m
Please do not test online!	Tips: Do not online test! Unlug the other end of the cable	!
The cable length port is designated as the lower interface displayed in yellow. Incorrect connection will cause dama	age! Standard Unit CAL	Test
Laser Rar	nging	17.
Laser Range: the maximum test distance is 40 meters Mode:single/Continuous/Additio/Subtraction/An- gle/Pythagorean/Height1/Height2/Triangle area/Rectangular area/Volume/Speed measurement The solid line in the measurement mode icon is the parameter to be tested Reference plane: select a different reference plane $\stackrel{*}{=}$ — Starting from the bottom of the instrument, the test length includes the length of the instrument; $\stackrel{*}{=}$ — Starting from the laser emission port of the instrument, the test length does not include the length of the instrument; $\stackrel{*}{=}$ — Use as laser pen Unit: switch units, with m and ft options View / save: save the current test results and view the saved test results Test: start length test	S Laser Ranging Single Continuous Ac Subtraction Angle Pyth Light 1 Height 2 That Height 2 Tha	Addition Addition Ageorean Age Area
System se	ettings	18.
	12:24	

Auto OFF: Set auto shutdown time Backlight brightness: Setting backlight brightness Sound: turn the touch tone on or off Flashlight: turn the flashlight on or off Date & Time: set the instrument time and date Language: displays the native language type Auto Save: automatically save the curve file after opening

13:24		
	System	
Aoto OFF		15min »
Back Light		60% »
Веер		
Flashlight		
Date & Time	2020-0)2-15 20:18 »

USB connection: connect to the computer after opening and transfer data **Restore factory settings:** restore default parameter values

Upgrade: software upgrade **Version information:** view local information and alarm records

Language	English »
Auto Save(otdr)	
USB Connection	
Factory Data Reset	
Update	
Version Information	