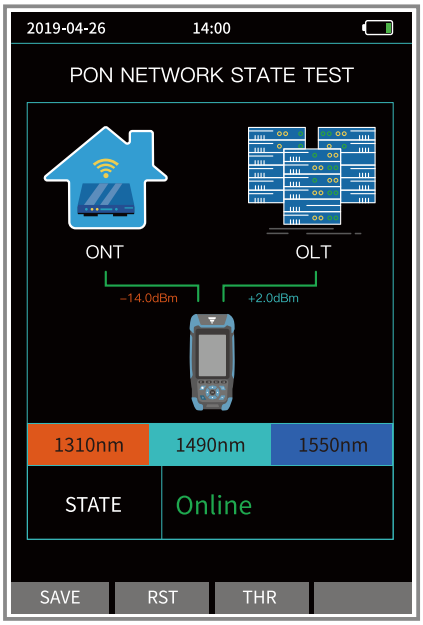
NETWORK STATE TESTER

Ver1.03

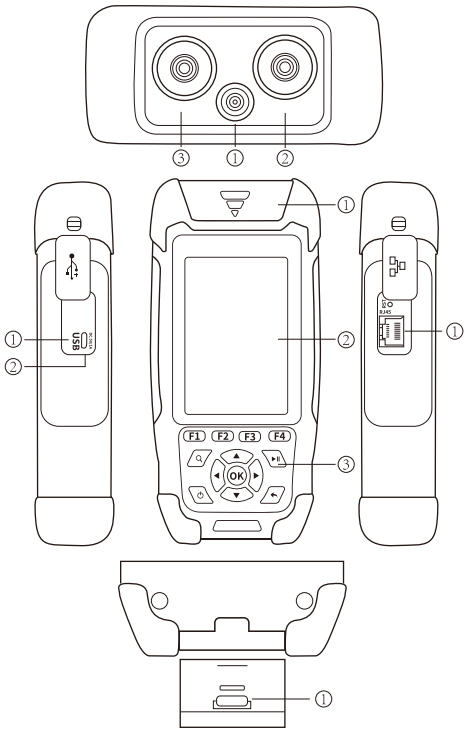
An All-rounder Fiber Network State Tester
ONT/ONU State Tester, GPON/EPON Power Meter
Visual Fault Locator, RJ45 Cable Sequence/Length/Tracking

- ONT/ONU STATES
  - > ONLINE
  - > OFFLINE
  - > ONT FATAL
  - > ONT BAD
  - > ONT NO POWER
  - > FIBER FALL OFF
- PON POWER METER
- VISUAL FAULT LOCATOR
- Rj45 Cable Sequence
- Rj45 Cable Length
- Rj45 Cable Tracking

PON-NST



Drawings



Top

① VFL port
② OLT (1490/1550nm) port
③ ONT (1310nm) port

Left

① Micro USB
② LED Charging indicator

Right

① RJ45 port

Bottom

① RJ45 remote tester

Main view

① Dust cover
② 3.5 inch color LCD
③ Function keys

Request a Remote Demo
sales@FirstFiber.cn

General

Size/Weight	173x82x37mm/ 350g
Display	3.5 Inch TFT LCD, 320x480 Resolution
Interface	Micro USB
Power Supply	5V DC, 2A; 4000mAh/3.7V Lithium battery (with air traffic certification)
Working Time	>12 hours (Continuous measurement); Standby>20 hours
Language	Chinese, English
Environmental Conditions	Operating temperature and humidity: -10℃~+50℃, ≤95% (non-condensation) Storage temperature and humidity: -40℃~+70℃, ≤95% (non-condensation)

Network State Tester

ONT States	Online, Offline, ONT Fatal, ONT Bad, ONT No Power, Fiber Fall Off
Insertion Loss	<1.5dB
Connector	FC/SC/ST

PON Power Meter

Testing Range	-35 to +10dBm @1310nm (upstream) -40 to +12dBm @1450nm (Downstream) -40 to +25dBm @1550nm (Downstream)
Unit	mW/uW/nW/dBm/dB (REF)
Accuracy	0.5dB
Resolution	0.01dB

Visual Fault Locator

Wavelength	650nm
Output Power	10mw, CLASSIII B
Range	12km
Launching Mode	CW/1Hz/2Hz
Adapter Type	2.5mm Universal Adapter for FC SC ST Connectors

Rj45 Cable Tracking

Range	300m
Signal Type	Analog signal/Digital Signal
Signal Receiver	Optional
Warning Sound	Support
Cable Type	568A, 568B

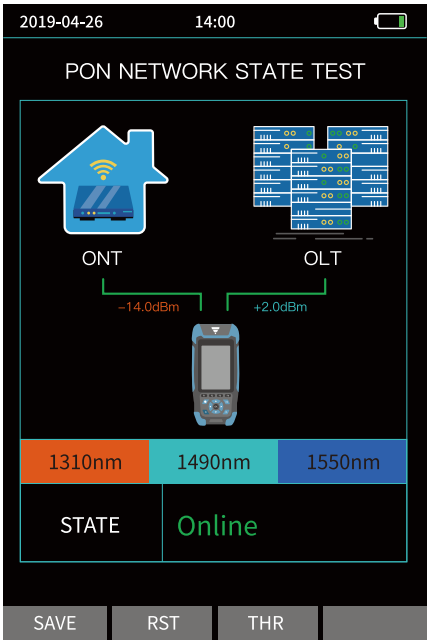
Rj45 Cable Sequeence

Range	300m
Signal Type	Analog Signal/Digital Signal
Active Cable Test	Not Support
Testing Time	Less Than 15 Seconds
Remote Unit	Can be took out from bottom of the device

Rj45 Cable Length

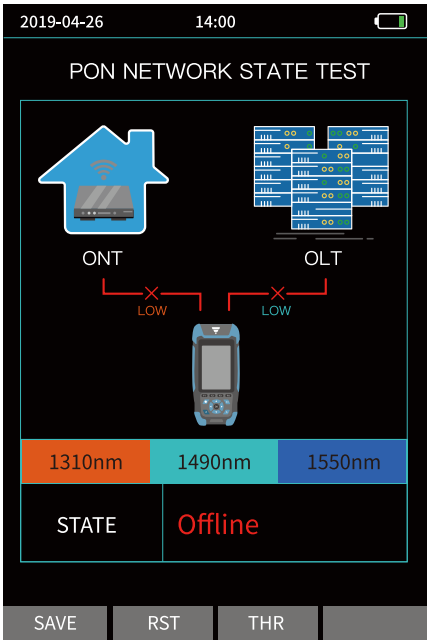
Range	300m
Signal Type	Analog signal/Digital Signal
Active Cable Test	Not Support
Testing Time	Less than 15 seconds

Functions & Settings



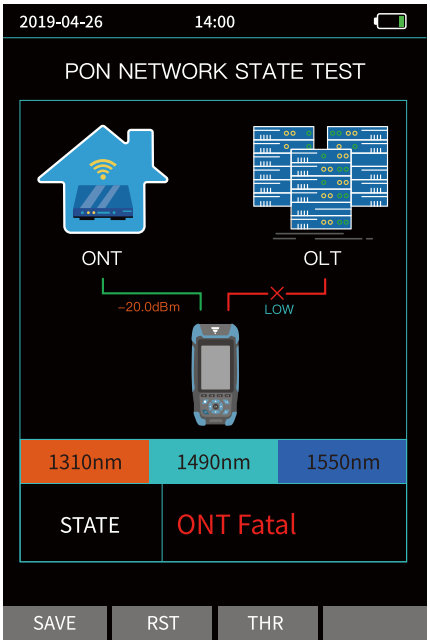
Online

The connection between OLT, tester and ONT is in green state.



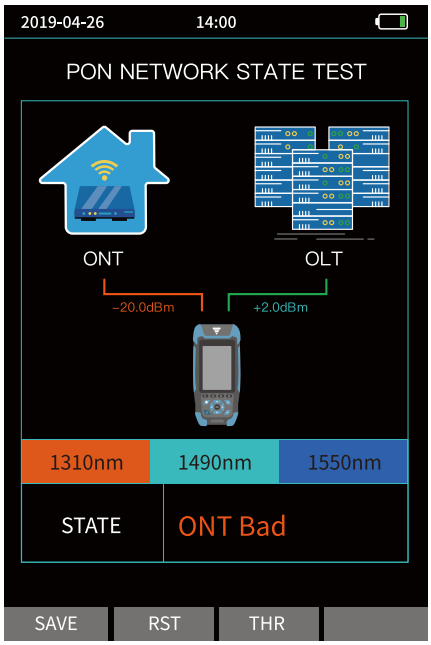
Offline

The connection between OLT and tester is red, and the connection between tester and ONT is red. The ONT is gray.



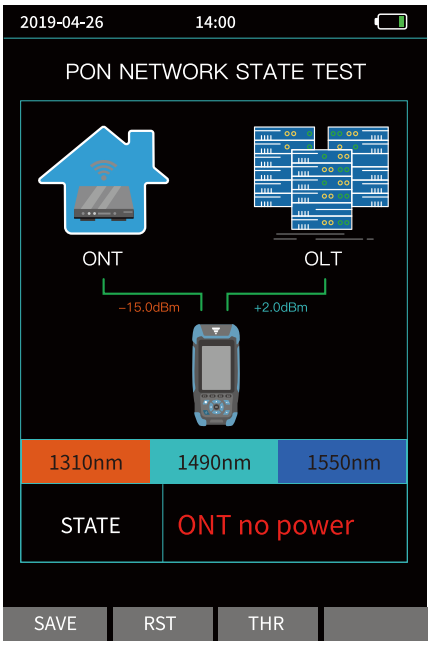
ONT Fatal

The connection between OLT and tester is red; the connection between tester and ONT is green



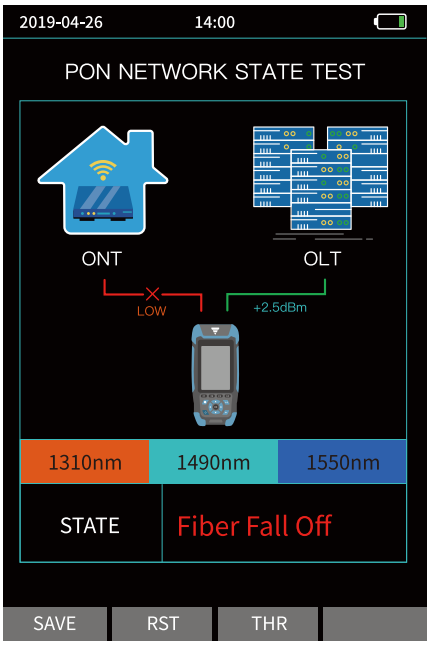
ONT Bad

The connection between OLT and tester is green, the connection between tester and ONT is orange.



ONT No power

The connection between ONT and tester is green; the connection between tester and OLT is green; ONT is gray.

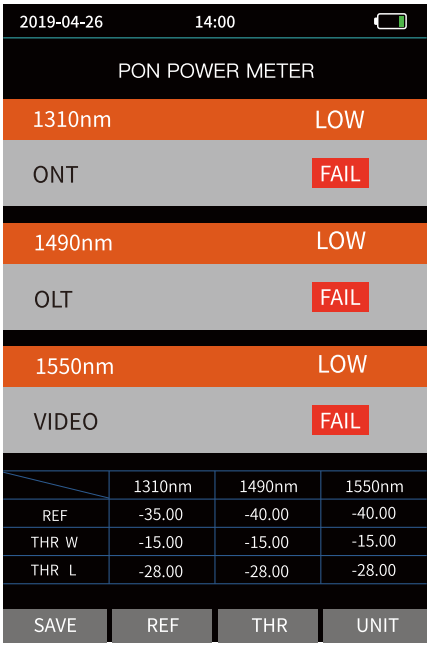


Fiber Fall Off

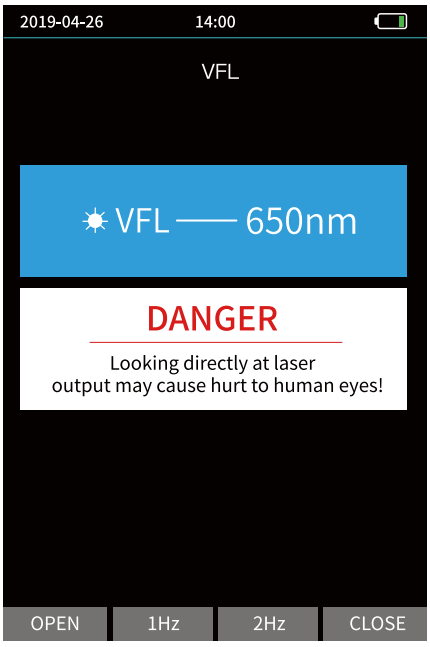
The connection between OLT and tester is green; the connection between tester and ONT is disconnected and in red state;

Please visit the link for more information
https://www.firstfiber.cn/pon-nst-network-state-tester.html

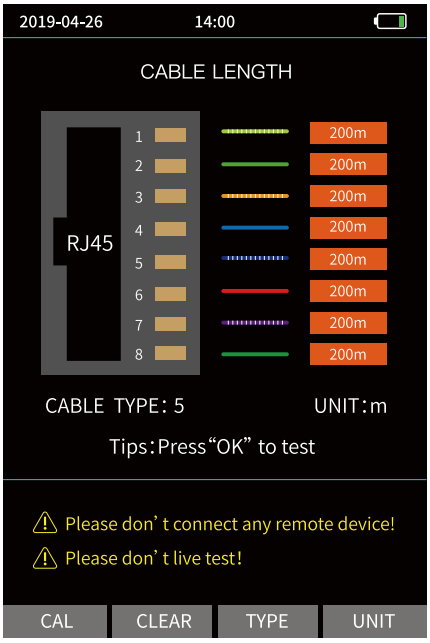
Functions & Settings



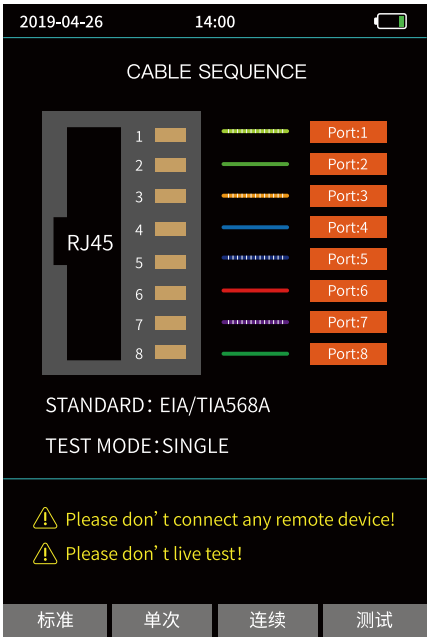
PON Power Meter



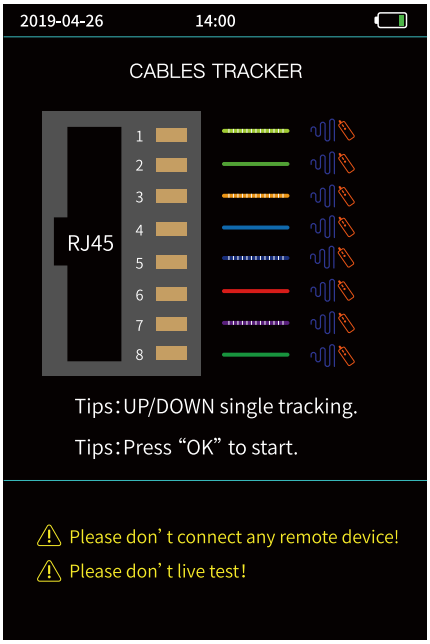
Visual Fault Locator



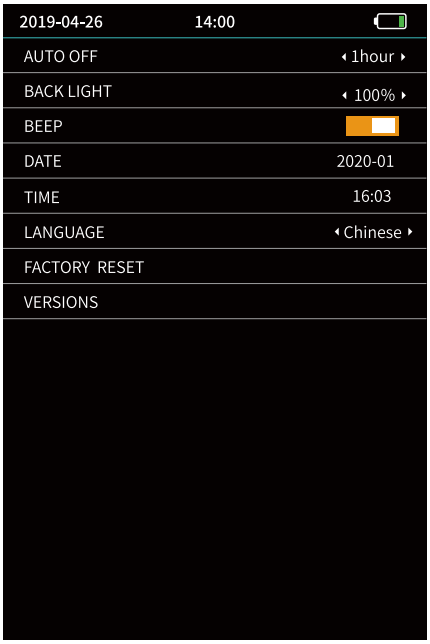
Rj45 Cable Length



Rj45 Cable Sequence



Rj45 Cable Tracker



Setting

Why the tester is needed?

With the popularity of PON network and the blowout development of optical network terminals, telecom operators need to have a new method to check the occupation of resources on optical ports to reduce the waste of port resources.
By a kind of traditional manual checking is extremely complicated, inefficient, and will bring huge trouble to subscribers.
The PON terminal state tester can intelligently check the resource state of optical network terminal and intelligently analyze the ONT and PON network without maintenance personnel entering the subsriber's house.
It is integrated with PON optical power meter, visual fault location, RJ45 cable sequence/length and digital cable tracker. The tester is an all-round helper in the field of current PON network maintenance and terminal resource checking.

Packing List

Item	Description	Quantity
1	The Tester	1
2	USB Cable	1
3	Power Charger	1
4	FC/SC/ST Adapter	1
5	Signal Receiver (Optional)	1
6	Carry Bag	1
7	User Manual	1
8	Warranty Card	1