Optical Network Tester

Innovation in OTDR

SALUKI TECHNOLOGY

Best Choice for Field Engineer on Multi- Core Cable Test

iONM -Removing the complexity from OTDR Testing

Intelligent file management. One-click upload to Cloud Platform

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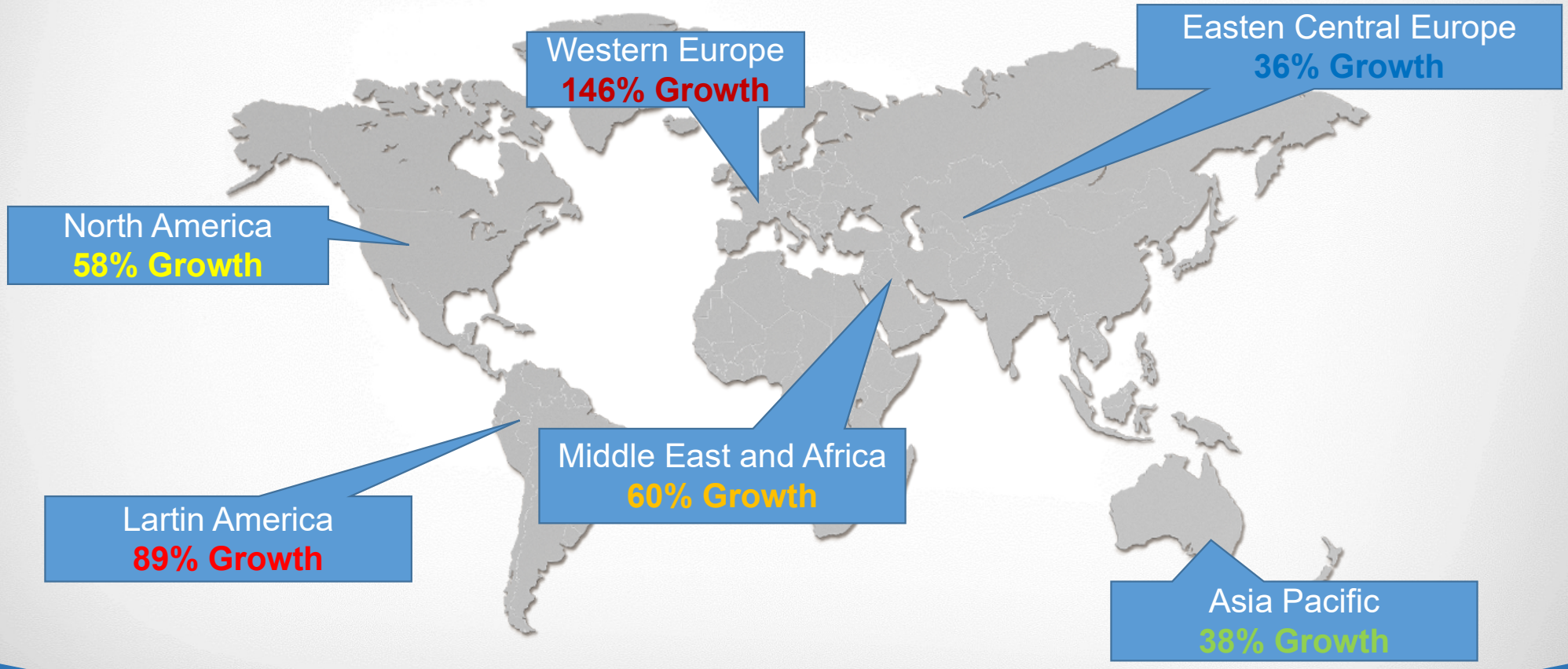
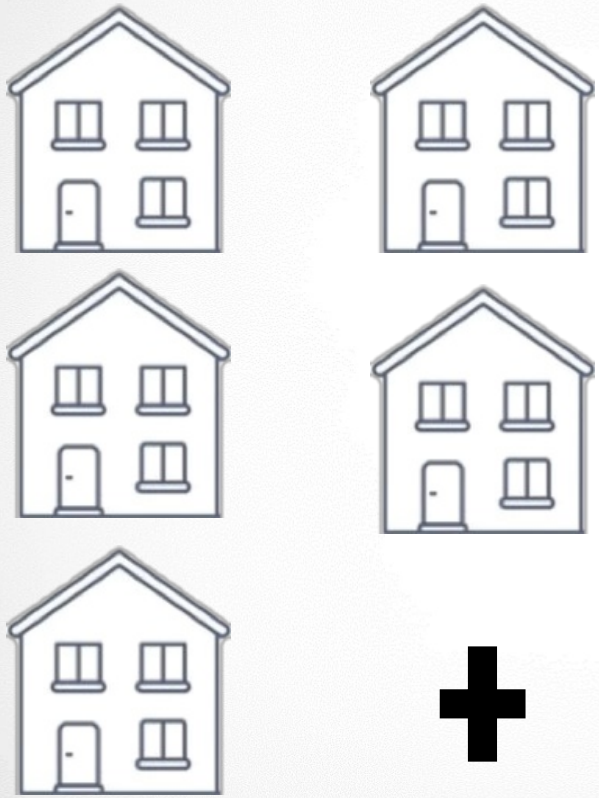
Saluki Technology Inc. | www.salukitec.com

CONTENTS

The Need For Optical Fiber – FTTx now and in 2021



The Solution is FTTx



35%

of Operators say they will transition the majority of network users to FTTH between 2018-2021

An additional 25% of operators expect to have made the transition by 2025

Challenges and Concerns for each Department

Executives

- How to ensure the TRUTH of field test results?
- How to IMPROVE the efficiency of engineers and reduce labor costs?

Keep abreast of the network operation status in time

Realize the automation of business process management

Enginees

- How to manage the complex test results?
- How to do multitask?
- How to reduce the tools for field testing?
- How to quickly and clearly record the on-site test situation?
- How to quickly generate a report and submit it to the supervisor?

In the event of quality deterioration or failure, it can accurately locate and shorten the troubleshooting time

Network Operations Centers (NOCs)

- How to deal with complex data?
- How to quickly form an organized report?

These data can be saved and processed by scientific means

We Care what you Concern

- Like a Windows 10 GUI
- **Connects anywhere:** USB, WiFi, Bluetooth, mobile and virtual private network (VPN)
- iONM： intelligent and dynamic application that turns complex OTDR trace analysis into a one-touch task
- Upload file to Cloud Platform Freely

7-inch, outdoor-enhanced touchscreen

Max 12-hour autonomy

Build the optical cable project according to the wizard

Support up to 2000 Fibers test data

Support Multi-Fiber Test

RJ45 Digital Tracker

40M Laser Ranging ±1mm Accuracy

Remote assistance one-click repair

We considered all your Needs

Laser Source
Continuous
Modulation
TWINS multi-mode
Adjustable output power

Optical Power Meter
Suport Frequency ID
Wave ID
Data Collection

Laser Ranging
Max. 40M
±1mm Accuracy

Cloud Platform
Data Analysis
File upload
Remote Assistence
Support Android

RJ 45 Tracker
Digital radar search
Strong anti-interference ability
Support live search
Search by wire pair

We considered all your Needs

- OTDR
- iONM
- Laser Light Source
- Optical Power Meter
- VFL
- Multi-Fiber Test
- Fiber Face Detect
- Laser Ranging
- RJ45 Tracker
- Camera
- File Brows

All as Standard Configuration

Part 01 OTDR

See What is Difference

An OTDR which meets all your NEEDS

Multi Tasks at one time

OPM, VFL, Light Source shows at the same time

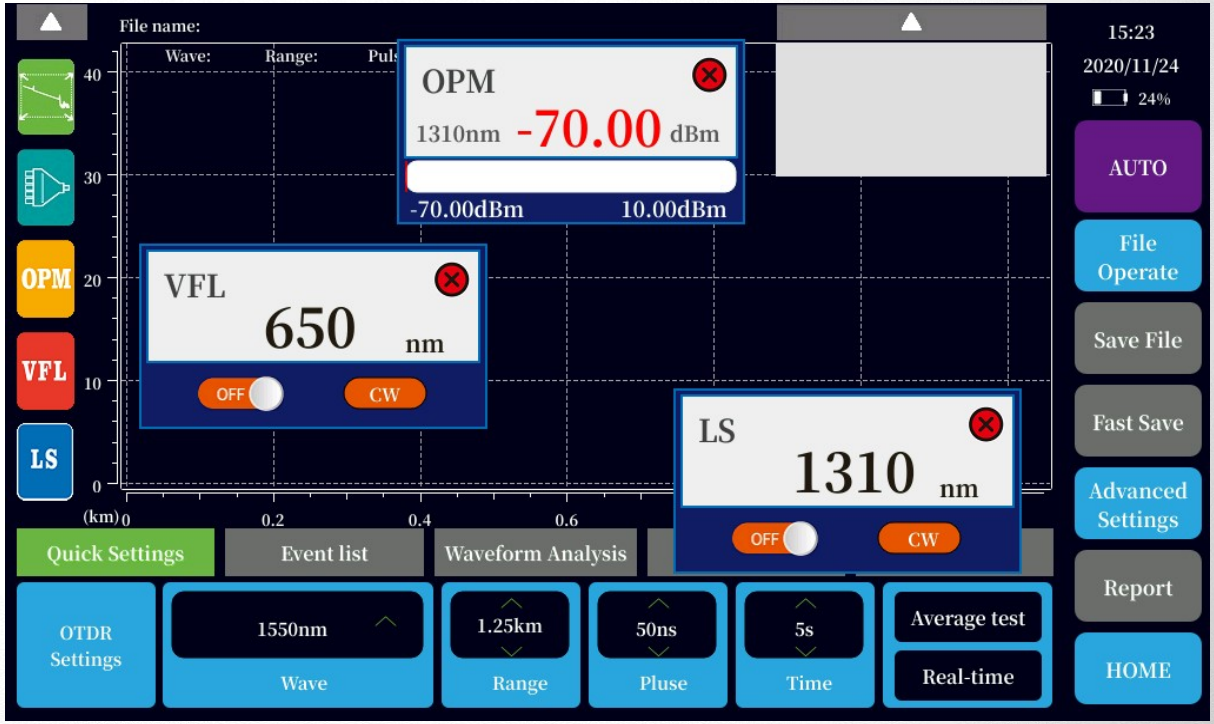
Quick Setting and Check

Modify the test conditions without stopping,
all conditions can be modified freely.

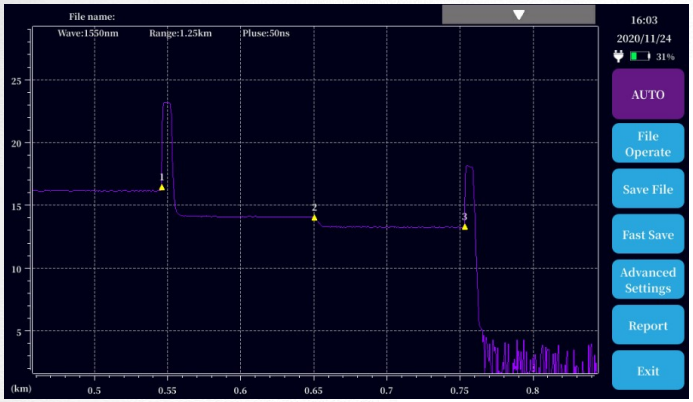
Powerful File Management

One-click to test reports
Automatic diagnosis of test results

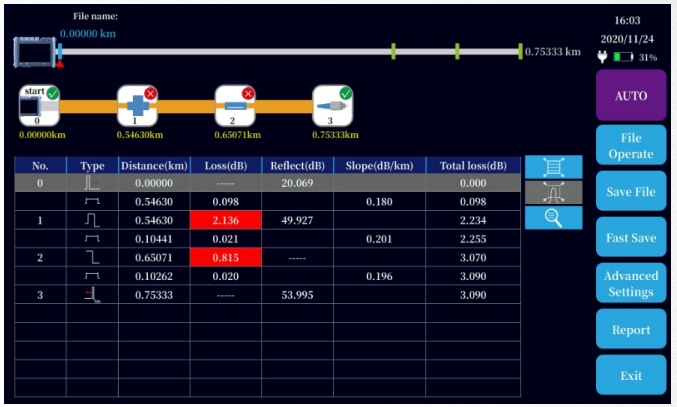
Thumbnail, full-screen curve, double-click zoom, one-key event zoom etc.



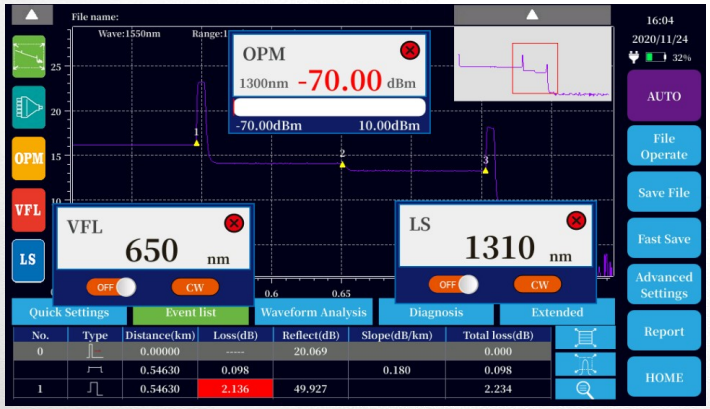
An OTDR which meets all your NEEDS



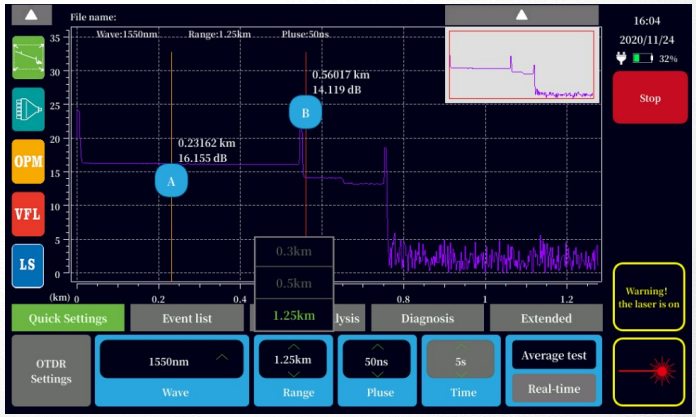
Full-screen display, two-finger touch for arbitrary zoom



iONM: Display the test results graphically

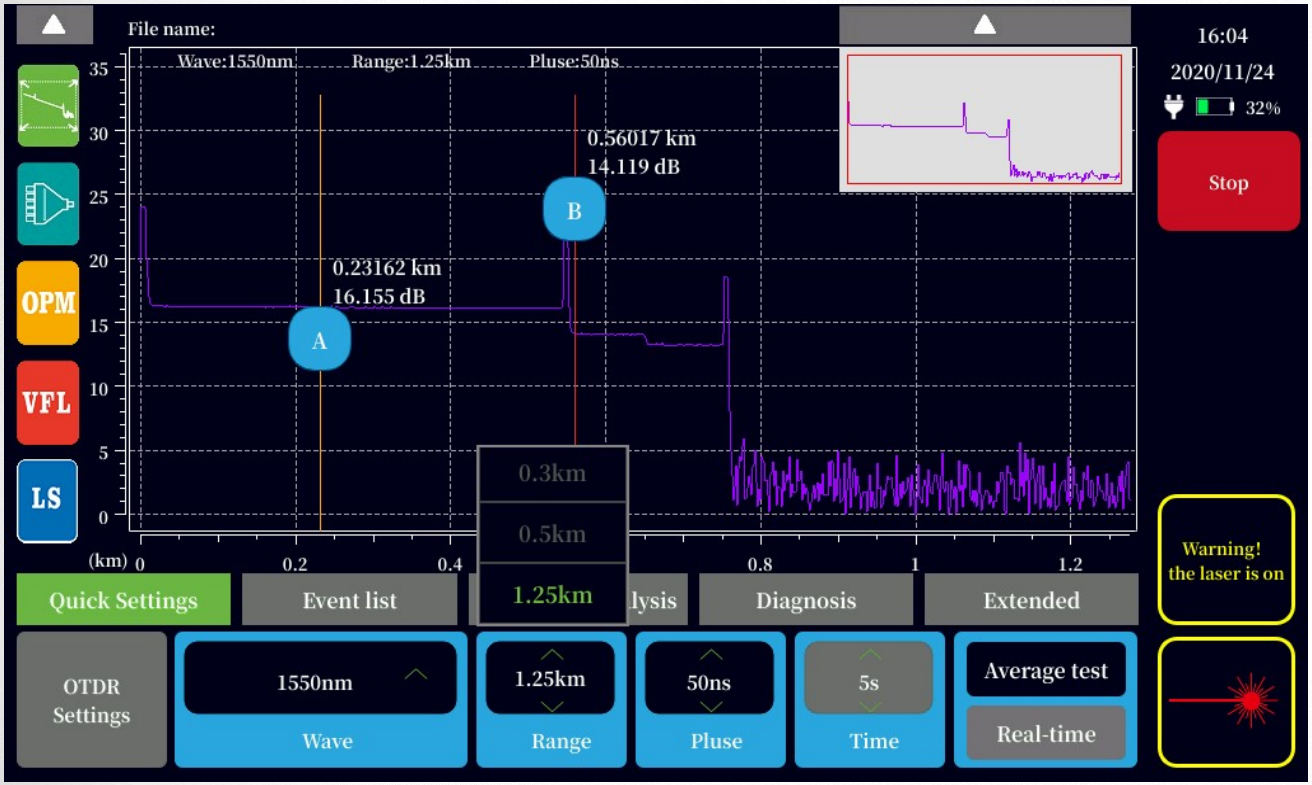


Multi tasks at one time, Cursor move freely



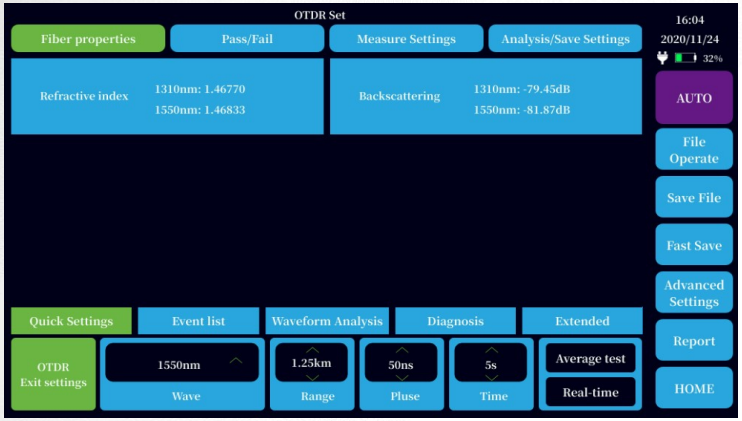
Quick Setting: No need to Stop, change freely.

Quick Setup

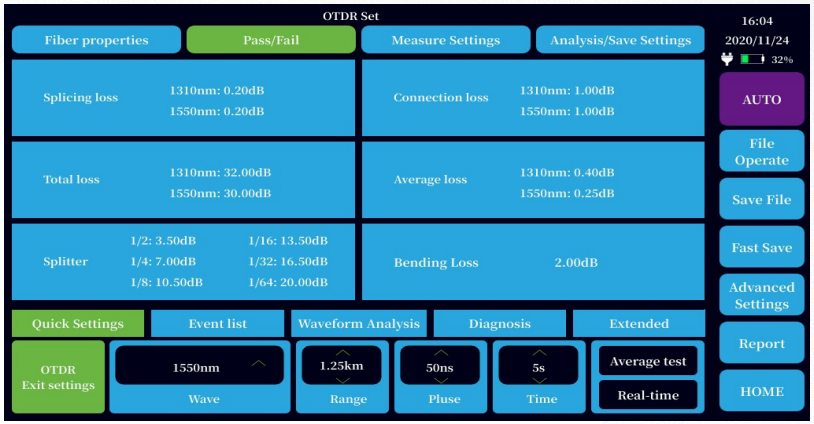


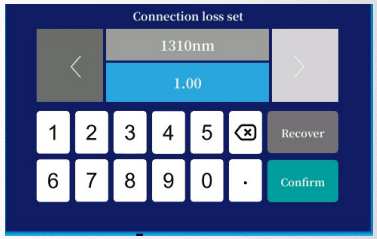
- Wavelength: Select freely
- Range set: 100m-420km
- Pulse: 3ns – 20μs
- Time set: 5s - 180s
- Average Test, Real Time
- Refresh Rate: Max. 10Hz

OTDR Setup

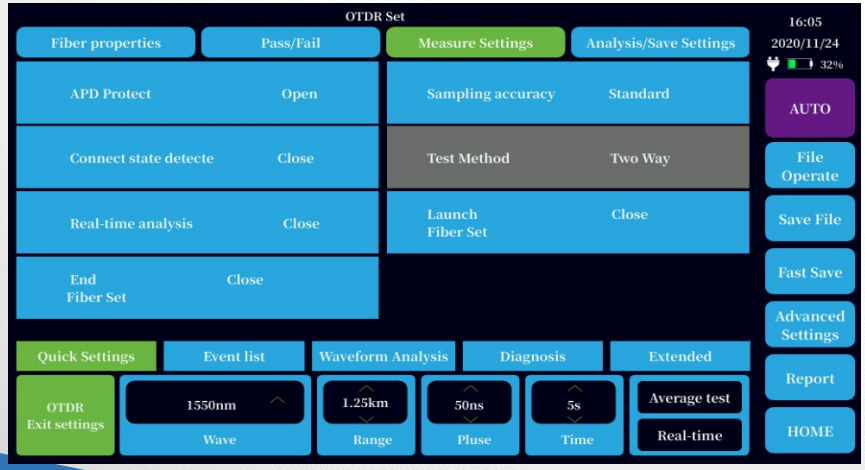


Fiber Properties Setting





Pass/Fail Setting：Give a Pass/Fail result directly

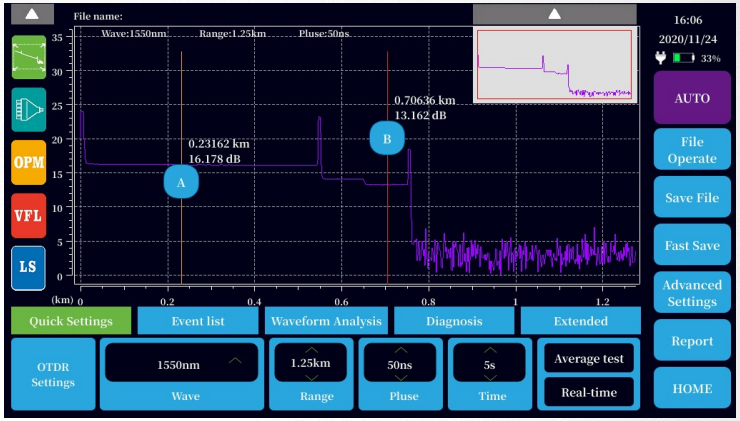


Measurement Settings

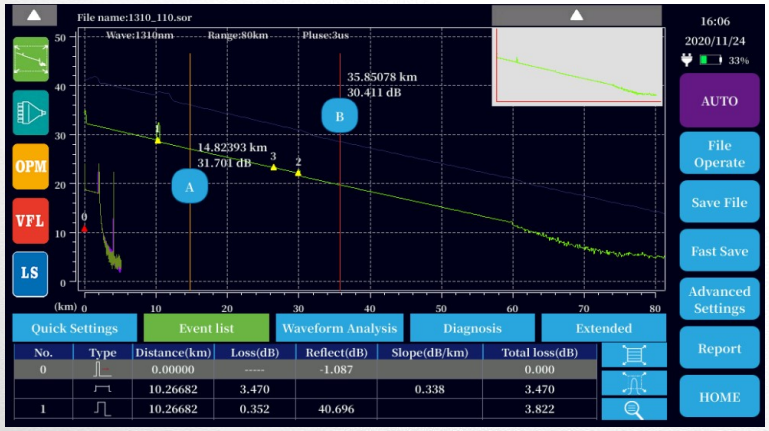
- APD Protect
- Connect State detect
- Real Time Analysis
- Launch Fiber Set, make your test result more clear

More Advantages

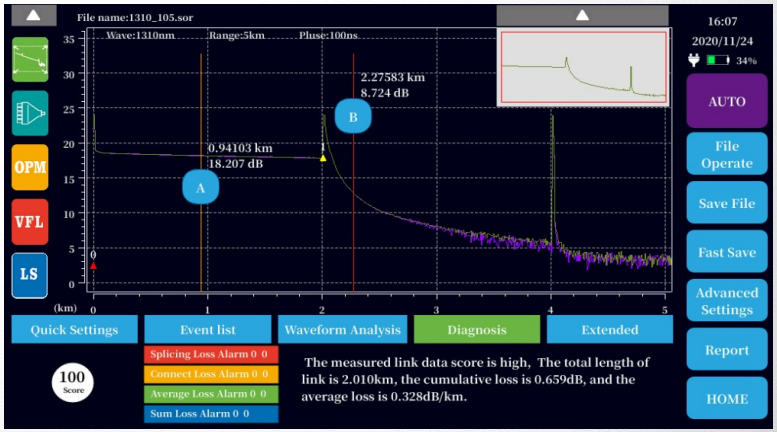
One Click Upload files to the cloud platform



Waveform Analysis: to meet the needs of professionals

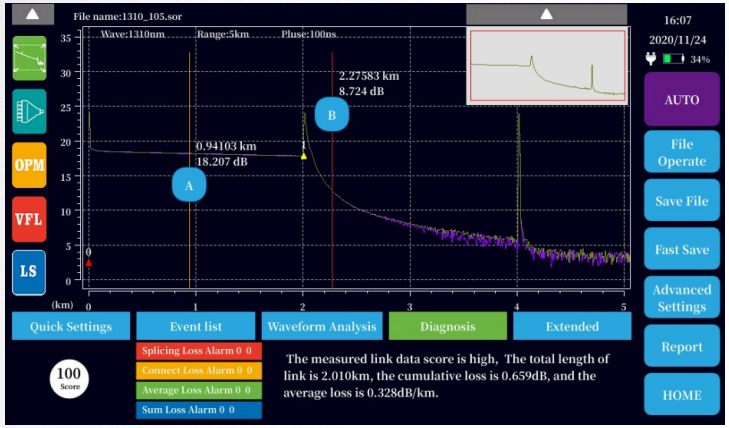


Open Max.10 curves at one time

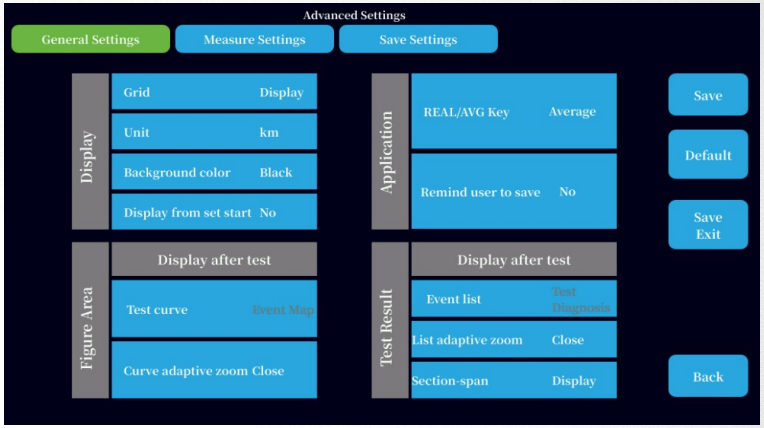


Reference Curve Setting:
Comparative analysis with historical test data

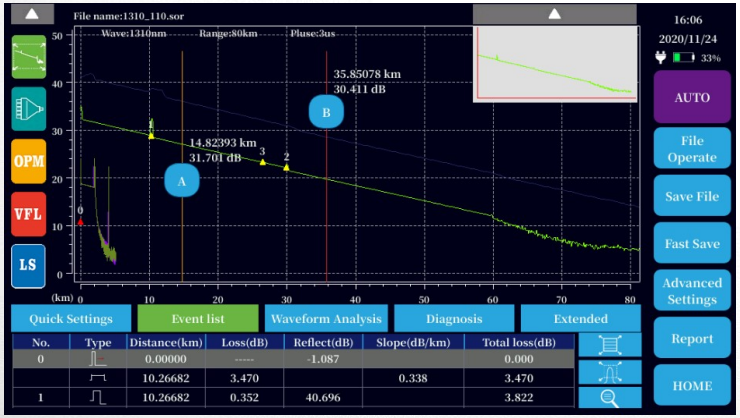
More Advantages



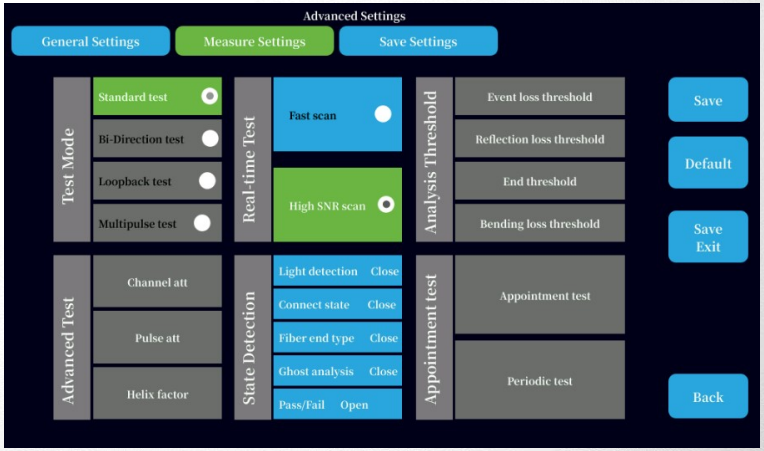
Diagnosis: Comprehensive description of fiber quality



Set up according to your requirements

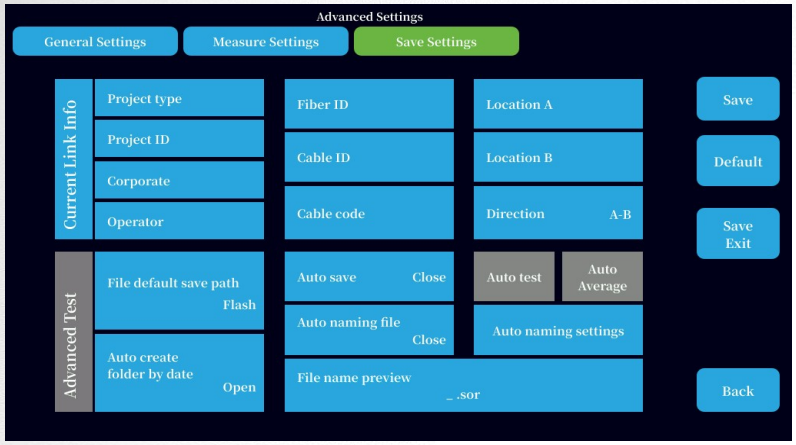


The section selection makes your curve look more intuitive

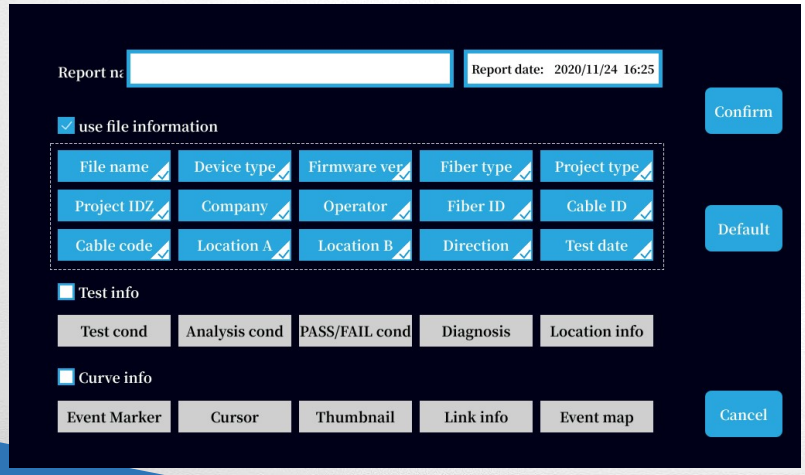


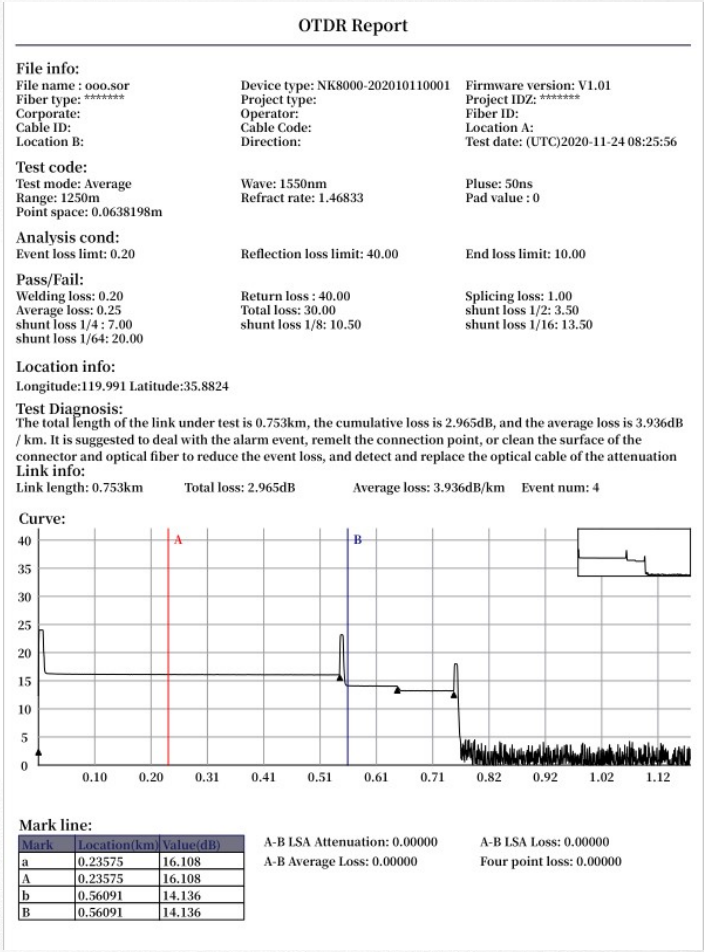
Advanced Settings meets all your needs

More Advantages



Save Test: Save File as you need





OTDR Report

File info:

File name : ooo.sor
Fiber type: *******
Corporate:
Cable ID:
Location B:
Device type: NK8000-202010110001
Project type:
Operator:
Cable Code:
Direction:
Firmware version: V1.01
Project IDZ: *******
Fiber ID:
Location A:
Test date: (UTC)2020-11-24 08:25:56

Test code:

Test mode: Average
Range: 1250m
Point space: 0.0638198m
Wave: 1550nm
Refract rate: 1.46833
Pluse: 50ns
Pad value : 0

Analysis cond:

Event loss limt: 0.20
Reflection loss limit: 40.00
End loss limit: 10.00

Pass/Fail:

Welding loss: 0.20
Average loss: 0.25
shunt loss 1/4 : 7.00
shunt loss 1/64: 20.00
Return loss : 40.00
Total loss: 30.00
shunt loss 1/8: 10.50
Splicing loss: 1.00
shunt loss 1/2: 3.50
shunt loss 1/16: 13.50

Location info:

Longitude:119.991 Latitude:35.8824

Test Diagnosis:

The total length of the link under test is 0.753km, the cumulative loss is 2.965dB, and the average loss is 3.936dB / km. It is suggested to deal with the alarm event, remelt the connection point, or clean the surface of the connector and optical fiber to reduce the event loss, and detect and replace the optical cable of the attenuation

Link info:

Link length: 0.753km Total loss: 2.965dB Average loss: 3.936dB/km Event num: 4

Curve:

Mark line:

Mark	Location(km)	Value(dB)
a	0.23575	16.108
A	0.23575	16.108
b	0.56091	14.136
B	0.56091	14.136

A-B LSA Attenuation: 0.00000
A-B Average Loss: 0.00000
A-B LSA Loss: 0.00000
Four point loss: 0.00000

Select information which you want to show on report.

Part 02
Other Functions

iONM -REMOVING THE COMPLEXITY FROM OTDR TESTING

WRONG OTDR TRACES

COUNTLESS TRACES TO ANALYZE

REPEATING THE SAME JOB TWICE

COMPLEX INSTRUMENT TRAINING/SUPPORT

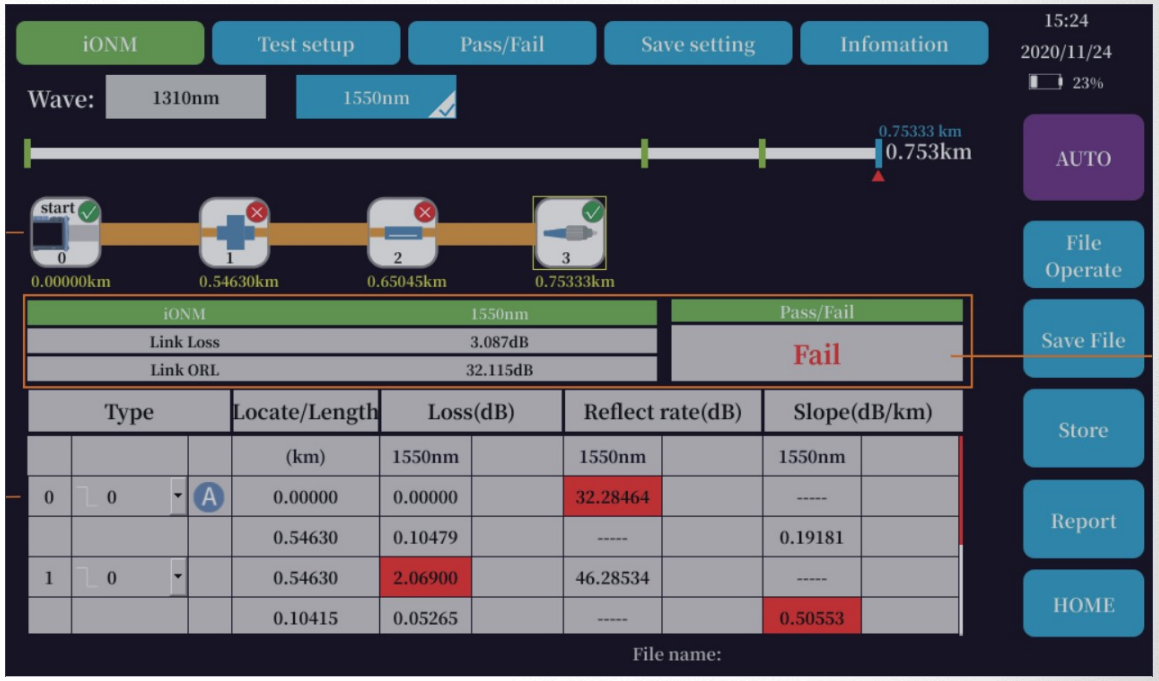
The iONM is an OTDR-based application designed to simplify OTDR testing by eliminating the need to configure parameters, and/or analyze and interpret multiple complex OTDR traces.

How does it work?

Dynamic multipulse acquisition → Intelligent trace Analysis → All results combined into a single link view → Comprehensive diagnosis

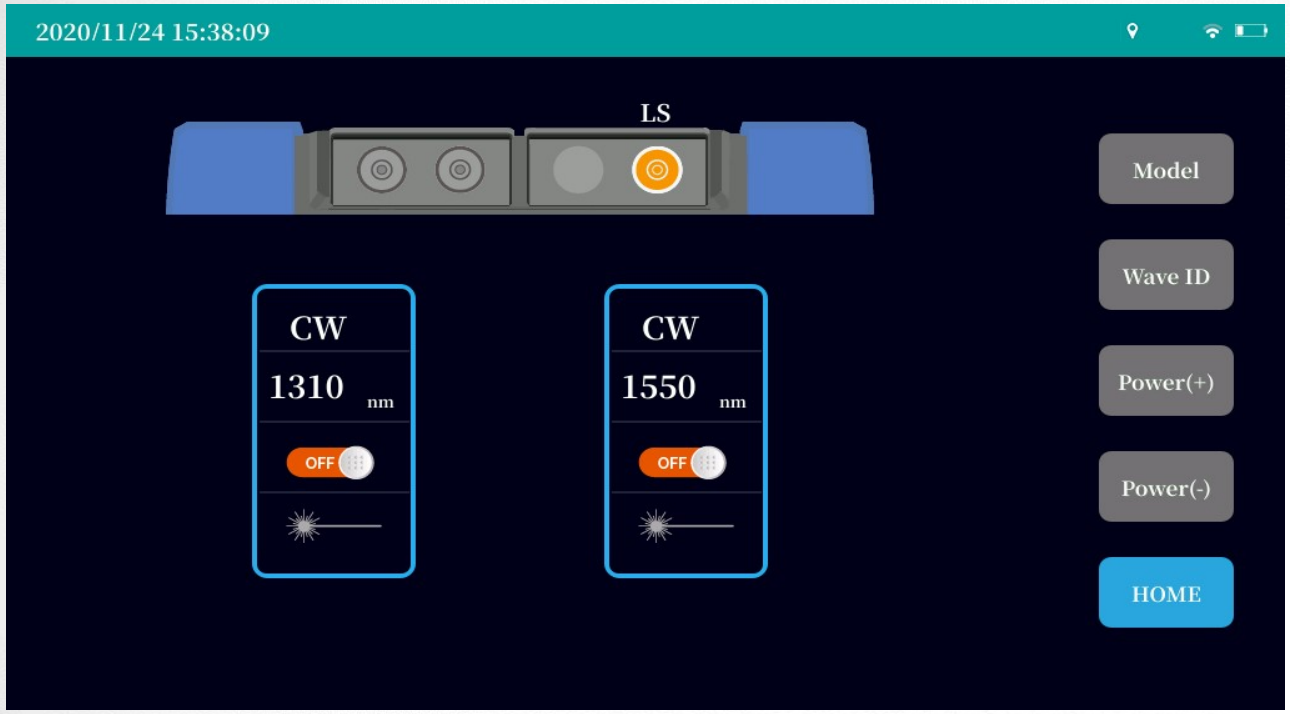
iONM (Your test expert)

- Auto save settings
- Generate .PDF reports
- Judge the connection status automatically
- Set launch fiber, end fiber
- Pass/Fail threshold can be set
- Wireless transmission of test data
- Create user directories



Its advanced algorithms dynamically define the testing parameters, as well as the number of acquisitions that best fit the network under test.
By correlating multipulse widths on multiple wavelengths, the iONM locates and identifies faults with maximum resolution—all at the push of **a SINGLE BUTTON**

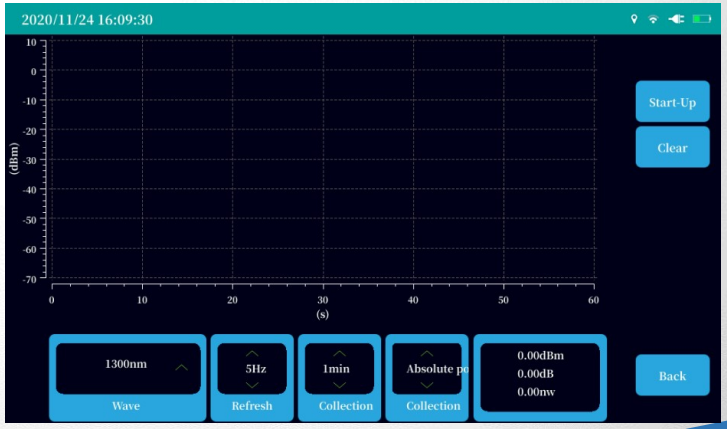
OLS



- Power Adjustable Stable Laser Source
- Output Power: -5dBm to +3dBm adjustable
- Output CW/270Hz/330Hz/1kHz/2kHz mode
- Support automatic wavelength recognition Wavelength ID mode

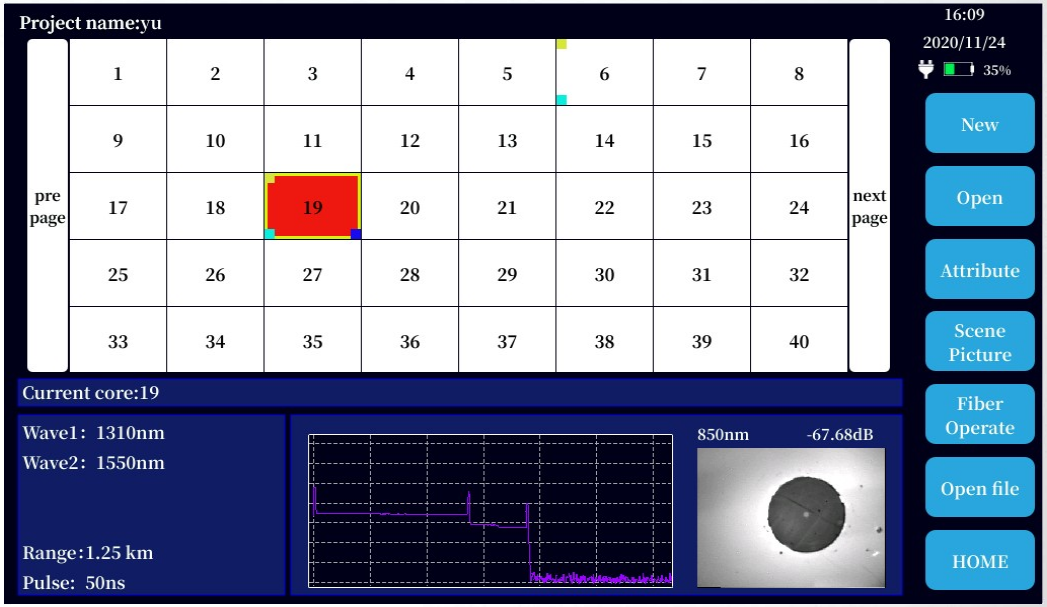
OPM

- Support frequency identification function
- Support pass / fail threshold setting
- Support Tone Detect function, namely frequency identification function
- User calibration
- Data acquisition
- Automatic wavelength recognition



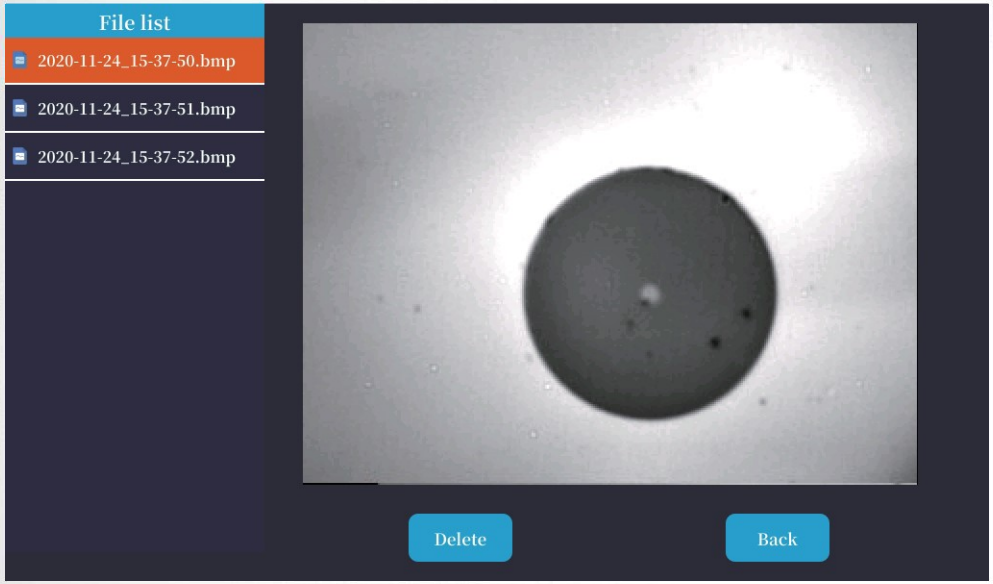
Multi Core Measurement

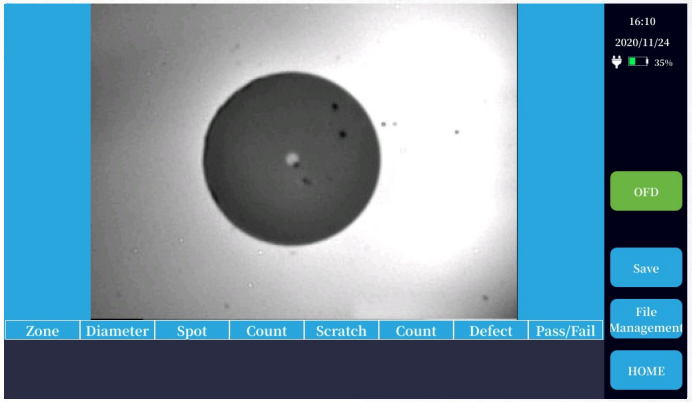
- Optical cable data management
- Waterfall view
- Optical cable health status comparison
- End face/optical power/distributed loss
- On-site test pictures can be taken directly and uploaded (5,000,000X high-definition camera)



The purpose of multi-core measurement to help customers manage and maintain multi-core optical cable data, Through the establishment of the project, to help customers more intuitive Manage and maintain fiber optic data. From the core matrix, the state of all the cores can be seen intuitively, Including whether it has been tested, does the test pass. Each fiber core contains OTDR data, optical fiber end face data, optical power data and test field pictures

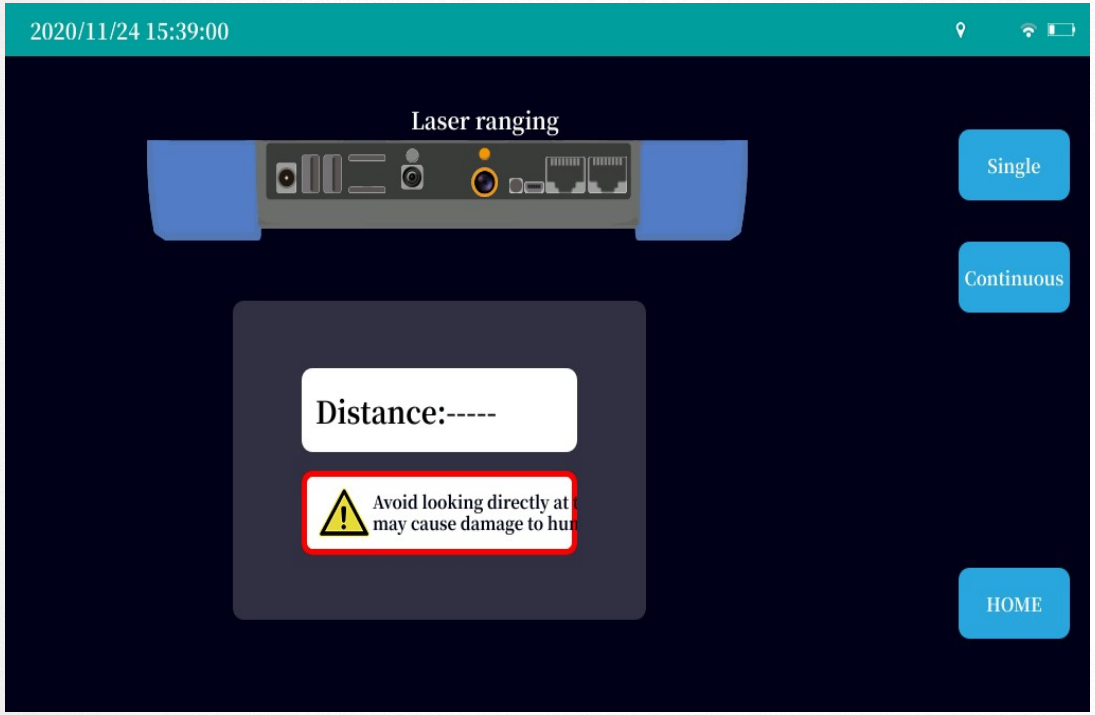
OFD (Optical fiber end face detection)





The core diameter of single-mode fiber is about 9um, it's thinner than human hair, if the end face is polluted, it will cause great connection loss, this leads to unstable communication state. It has great influence on the confidence of OTDR test results, therefore, the end face of optical fiber testing and cleaning are very necessary

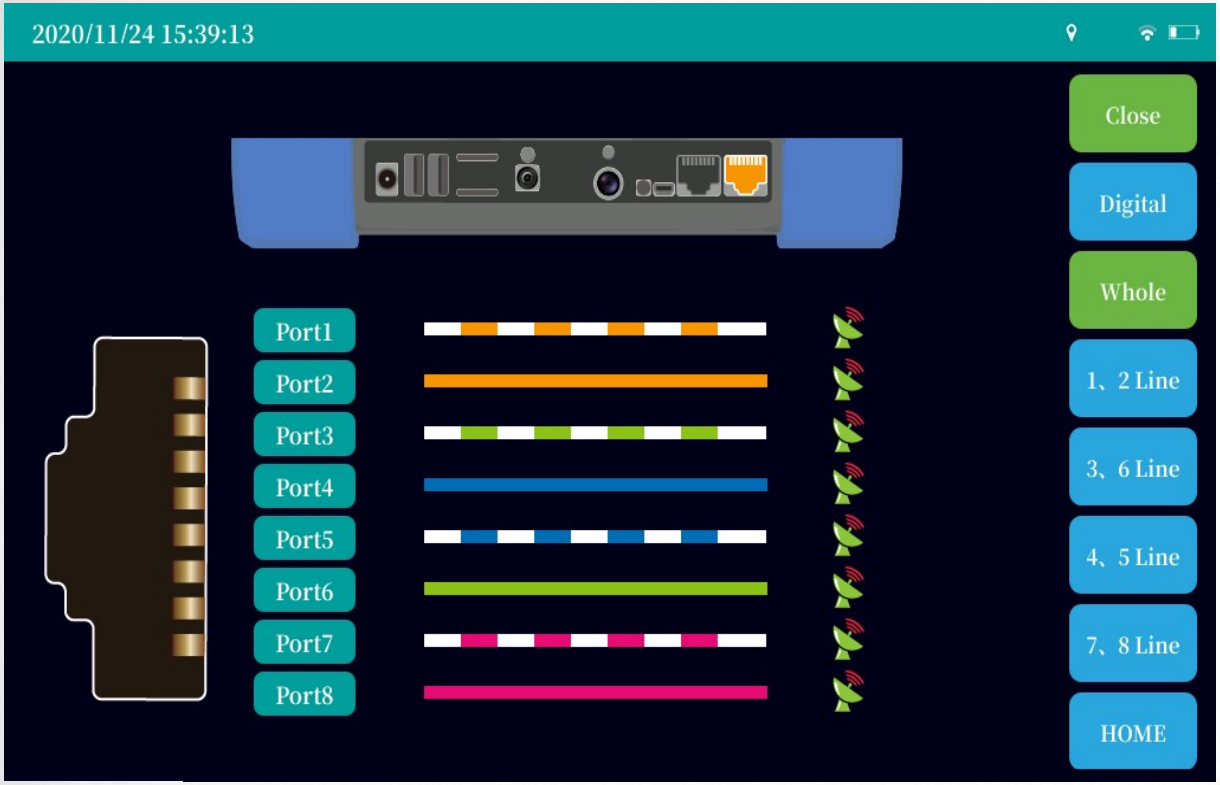
Laser Ranging



- Max. Length 40M
- Accuracy: ±1mm

- Length measurement for optical cable laying and broadband installation
- Accurate measurement,Your cables will no longer messy

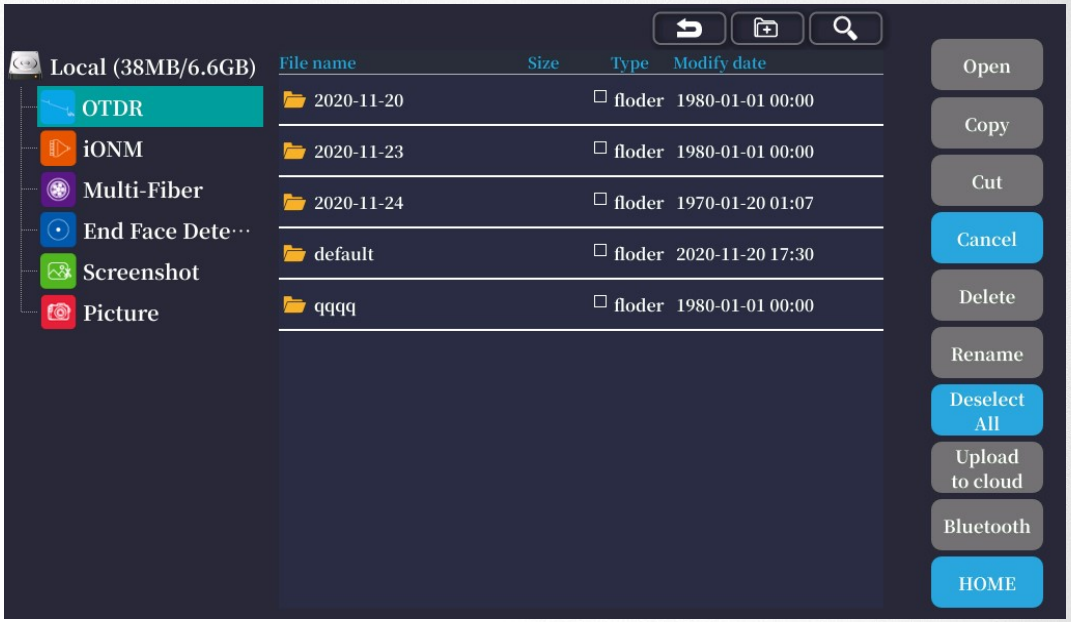
RJ45 Tracker

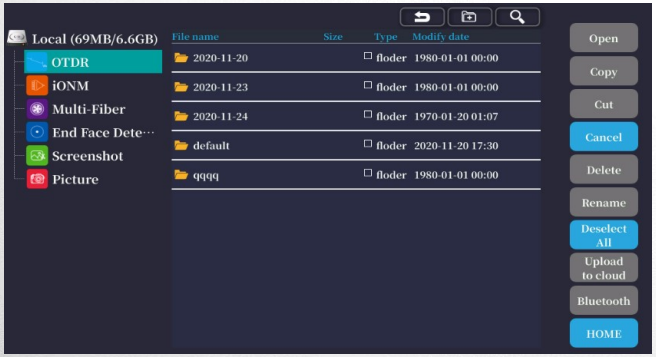


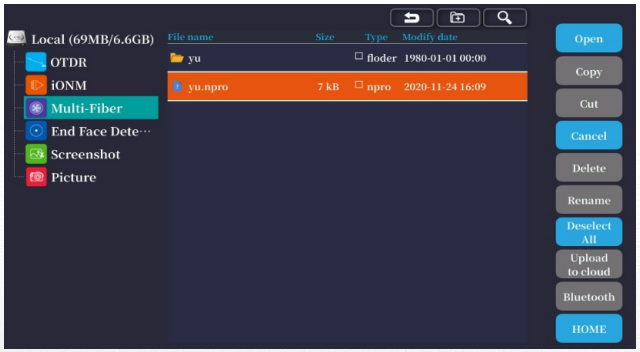
RJ45 digital radar tracking function can be used for digital line finding of network line, telephone line and other cables

File Management

- OTDR (.SOR)
- iONM (.emp，Saluki design）
- Multi-Fiber (File folder, including fiber end quality, photo and OTDR test data)
- Face Detect (.bmp)
- Screenshot （.bmp)
- Picture (.png)

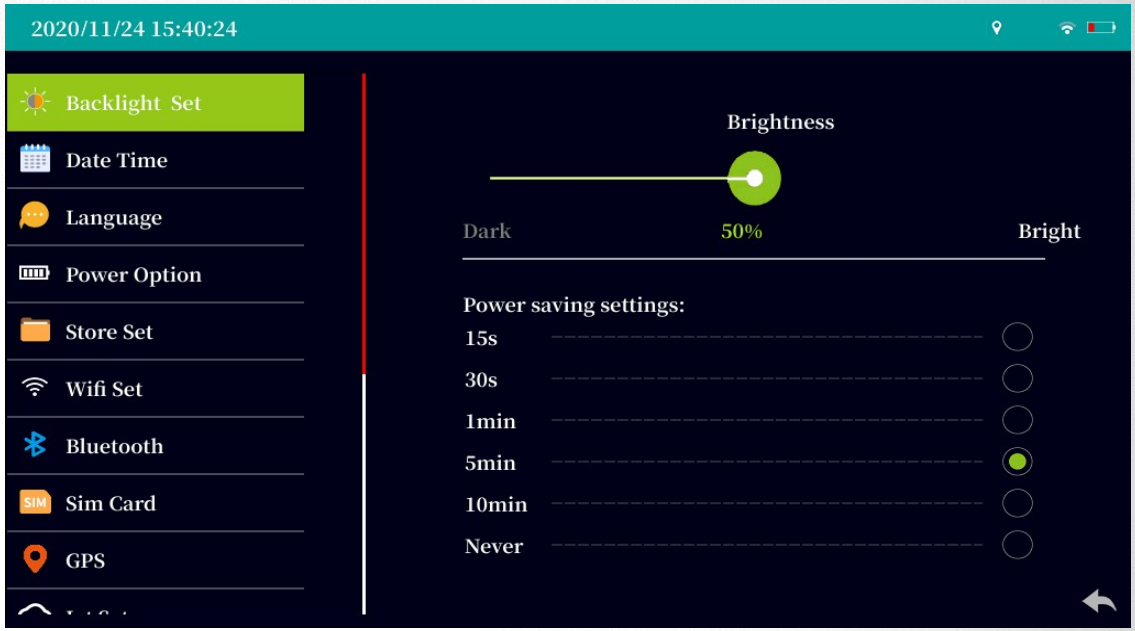


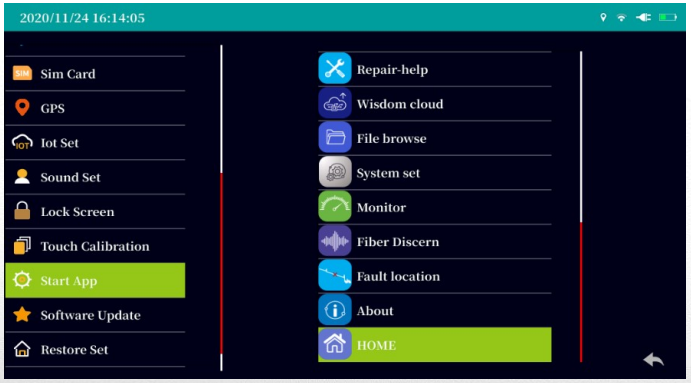


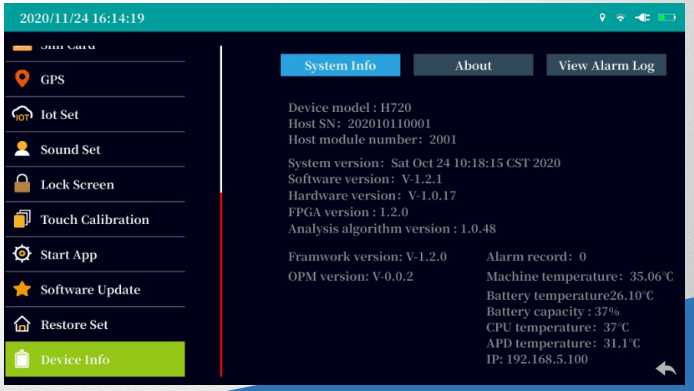


System Settings

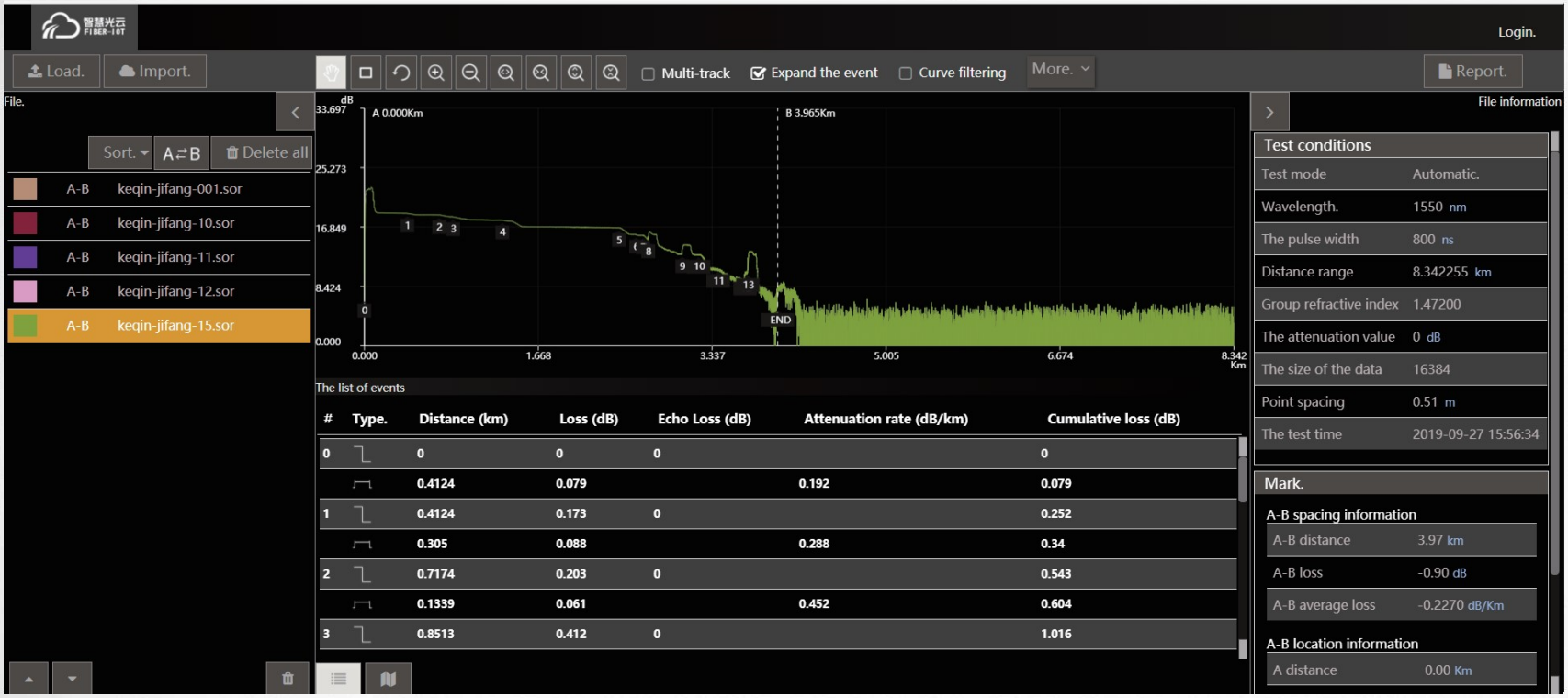
- Backlight Setup
- Power Setting (Sleep and automatic shutdown time can be set）
- WIFI (Help you upgrade remotely）
- Lock Screen（Password setup)
- Start App
- Device Info. (Detail version for all software and hardware, easy for maintenance)







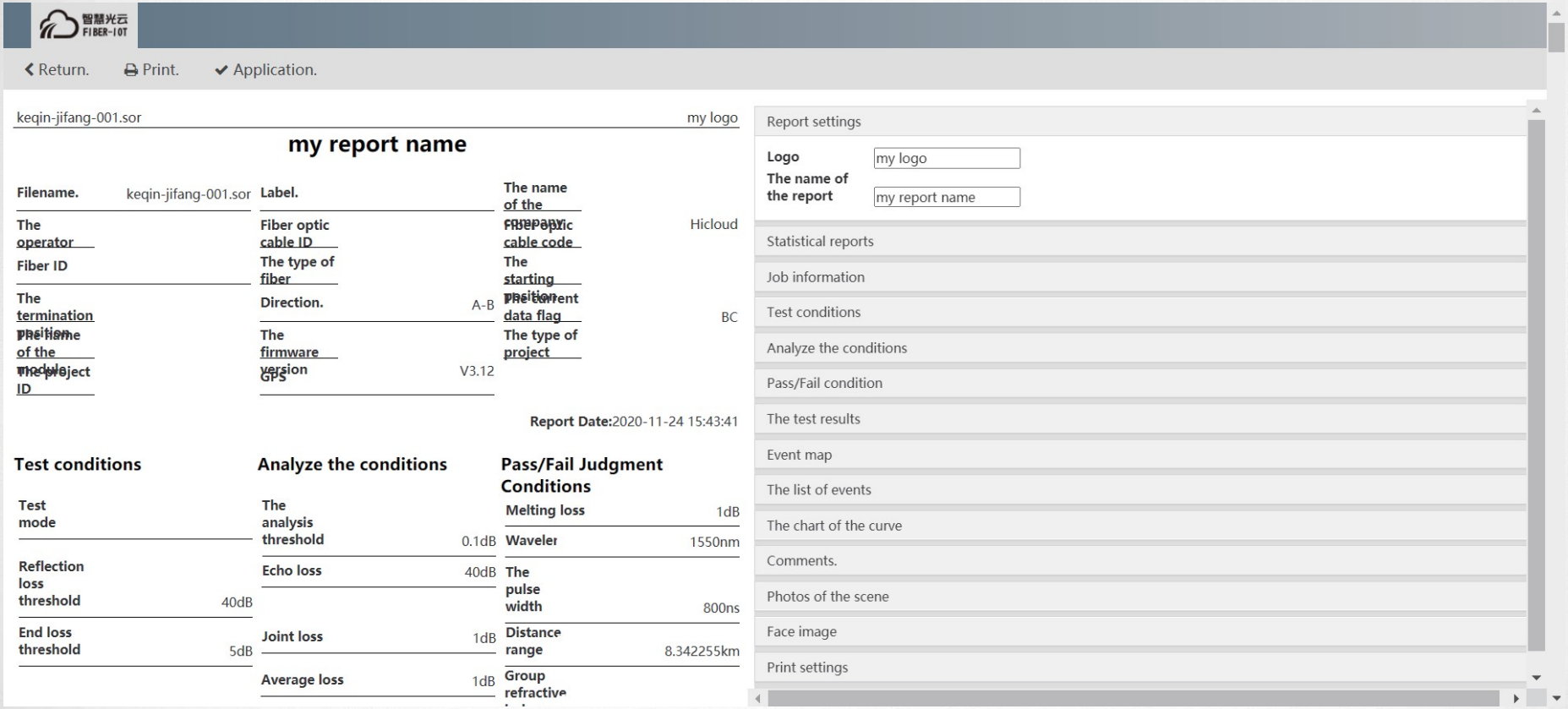
Fiber-IOT Simulation tools



Scan QR code
Sign in Fiber-IOT

You can log in directly at fiber-iot **WEB** or Scan **QR Code**.
Imagine the advanced simultion tool of OTDR, view OTDR data and generate reports
www.fiber-iot.com/tools/index.action?lang=en

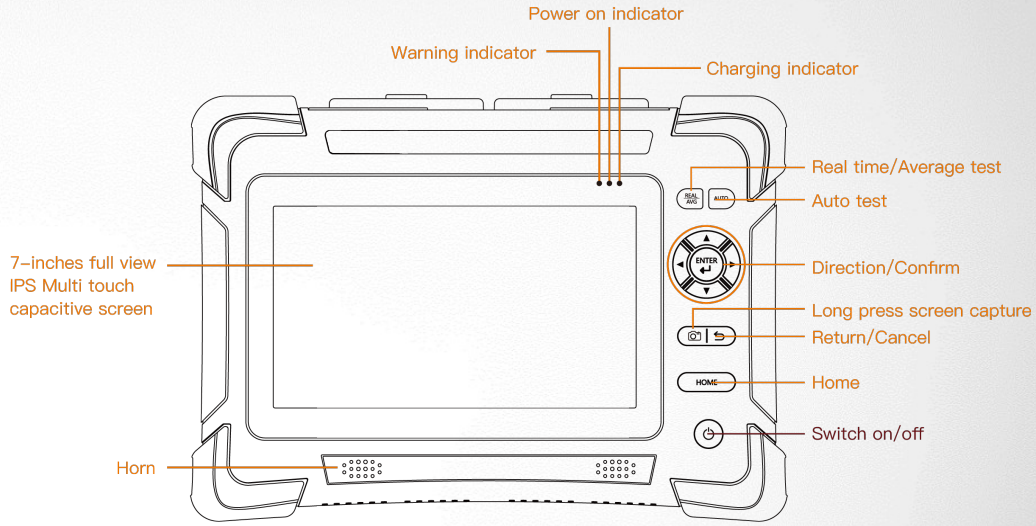
Fiber-IOT Simulation tools

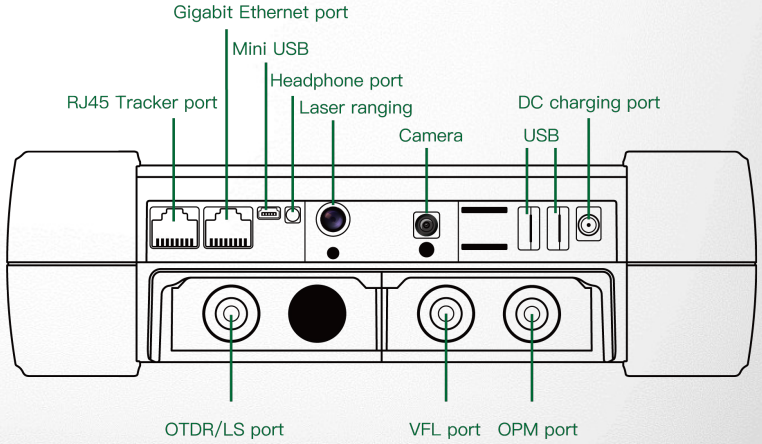


OTDR data can be viewed through cloud analysis, and generate reports. Powerful OTDR data report generator using smart cloud, add event map, annotation, on-site test photos, optical fiber end face photos and other detailed information in the report

Appearance


SALUKI
Optical Network Tester
2020/06/26
OTDR
iONM
LS
OPM
VFL
Multi-core test
End face detection
Status monitoring
RJ45 Track
Cable identification
Remote assistance
Onekey repair
Cloud platform
File management
System
REAL AVG
AUTO
ENTER
HOME


Power on indicator
Warning indicator
Charging indicator
Real time/Average test
Auto test
7-inches full view
IPS Multi touch
capacitive screen
Direction/Confirm
Long press screen capture
Return/Cancel
Home
Switch on/off
Horn


Gigabit Ethernet port
Mini USB
Headphone port
RJ45 Tracker port
Laser ranging
Camera
DC charging port
USB
OTDR/LS port
VFL port
OPM port

Ordering Information

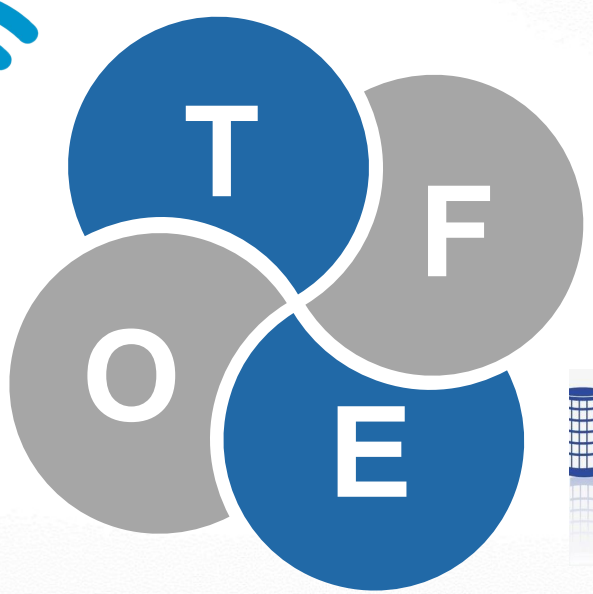
Model	S1	S3	S4	S5	P1F1	P1F2	P2F1	P2F2	T1F1	T1F2	T2F1	T2F2	M1	SM1	SM2
Fiber Type	SM												MM	SM/MM	
Wavelength (nm)	1310/1550				1625		1650		1310/1550/1625		1310/1550/1650		850/1300	850/1300/ 1310/1550	
Max. Dynamic Range (dB)	37/35	40/38	42/40	45/43	38	40	37	40	37/35/ 35	40/38/ 38	37/35/ 35	40/38/ 38	26/28	26/28/ 35/33	26/28/ 38/36
Event Blind Zone	0.8m												1.5m	1.5m/0.8m	
Attenuation Blind Zone	5m												6m	5m / 6m	

Main Specifications

Item	Spec.
Measuring Accuracy	± (0.75 + Sampling interval + 0.005% * Test distance) (Refractive error are not included)
Measurement Range	100m/300m/500m/1.25km/2.5km/5km/10km/20km/40km/80km/160km/260km/420km
Pulse Widths	3ns/5ns/10ns/20ns/30ns/50ns/80ns/100ns/200ns/300ns/500ns/800ns/1us/2us/3us/5us/8us/10us/20us
Sampling Points	3.2k - 320k
Sampling Resolution	0.03125m - 8m
Loss Accuracy	<= 0.05dB/dB
Loss Resolution	0.001dB
Loss Threshold	0.01dB
Distance Resolution	0.001m
IOR	1.00000 - 2.00000, 0.00001 step
Reflection Accuracy	±3dB
Optical Interface	FC / UPC (Interchangeable SC, ST)
Refresh Rate	10Hz (max.)
Data Storage	Internal: 8GB (>=200,000 curves)
Communication Interface	USB-A (2), Mini-USB (1), 1000M Ethernet, RJ45 Tracker port, 3.5mm Audio port
Data Archive	SOR (standard format)
Electronic Report	PDF reports can be generated on the device, and transmitted to the wireless terminal via Bluetooth

Who is Our Customers?

Telecom operators with high quality requirements



Optical fiber and cable research and production Factories

Operation and Maintenance company

Large Enterprises

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WE ARE A COMPANY

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OTDR Families
S2103 low cost solution
S2105 New
S2106 & S2106X: the most popular model

Fusion Splicers

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