OPTICAL TIME DOMAIN REFLECTOMETER

AR-HH-OTDR FTTx

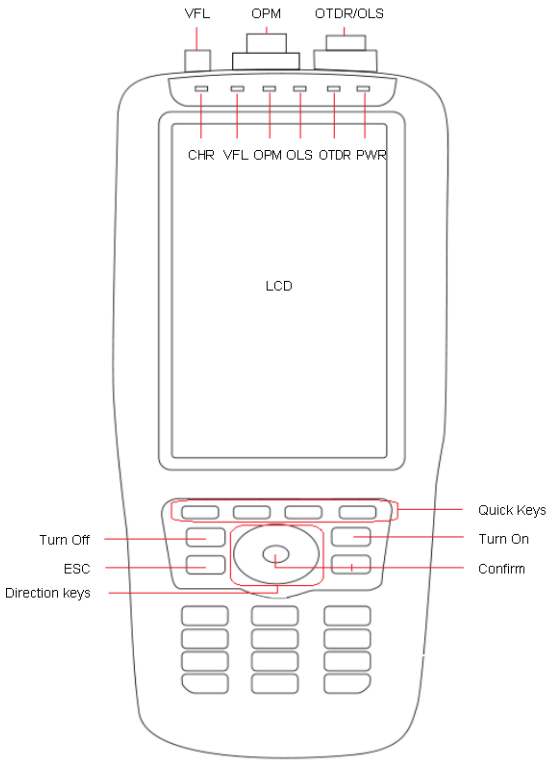
1. FEATURES

> High Precision
> Integrated design, smart and rugged
> Shockproof, outdoor enhanced
> FC / ST / SC /LC Connectors exchangeable > Automatic and manual test function
> OTDR Viewer software for data analysis >Multi-Functions, 4 in 1

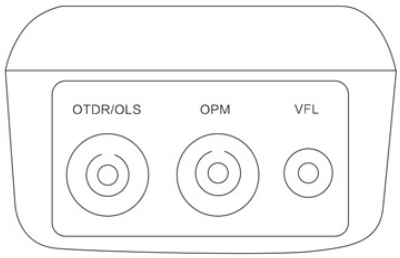
Comparing with a regular OTDR, the AR-HH-OTDR FTTx is more compact in size and easier for field use. Handheld design, compact and lightweight, easy to carry. Event information through IPS color display and data storage capabilities. Through the USB interface, the test data can be uploaded to the PC, to facilitate the post-processing, archiving and printing.

2. STRUCTURE

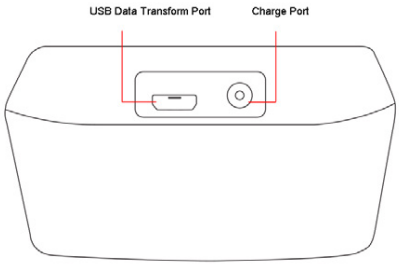
Front Panel



Top Interface



Bottom Interface



3. GENERAL SPECIFICATION

OTDR	
Wavelength(nm)	1310/1550nm
Dynamic Range	22/20dB
Measurement Distance	0-60 km
Type of Fiber	9/125um SM
Type of Connectors	FC/PC; SC/PC;FC/APC; SC/APC (Optional)
Peak Value of laser	>=30mW
Unit	Meter/ inch/ mile
Dead Zone of Reflection	2m
Dead Zone of attenuation Event	12m
Accuracy Distance(Reflection)	About ±(1m+2 *10(-4)* distance)
Storage of records	200 groups

Visual Fault locator (VFL)	
Wavelength(nm)	650nm
Output power	>=10mW
Mode	CW, 1Hz, 2Hz
Fiber type	SM, MM

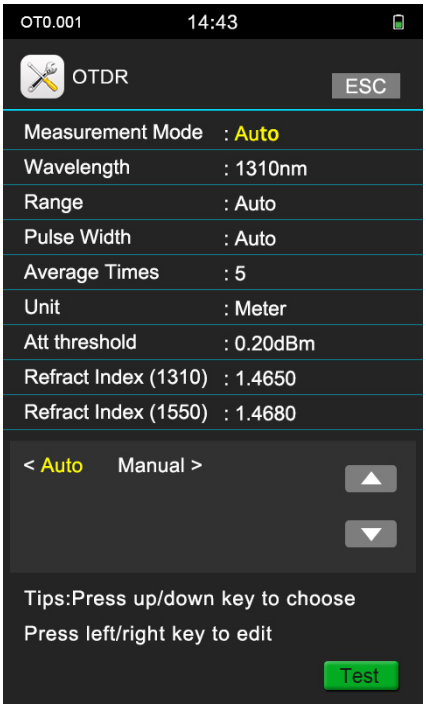
Optical Power Meter		
Measurement range dBm	-70～+10 dBm	-50～+26 dBm
Wavelength range (nm)	800～1650	
Calibrated wavelength	850、1300、1310、1490、1550、1625	
Detector	InGaAs	
Accuracy	<±3% （ 10dBm 22℃）	
Resolution	Linearity：0.1%, Non-linearity：0.01dBm	
Connector	Changeable FC/PC SC/PC, (ST as Optional)	

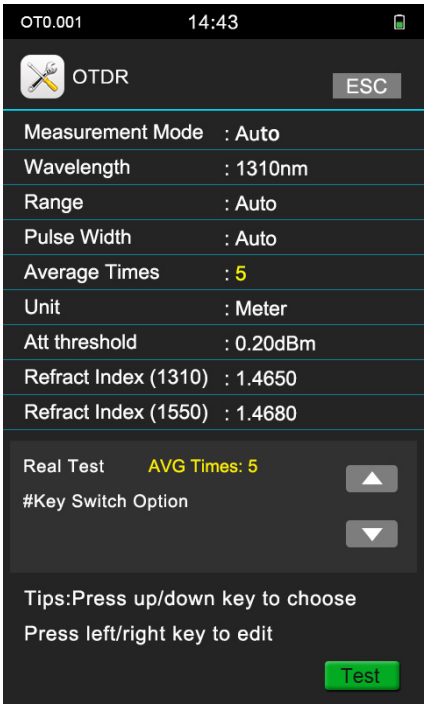
Optical Light Source	
Emitter	FP-LD
Wavelength (nm)	1310/1550nm
Connector	FC/PC (SC/ST as optional)
Output power	≥-5dBm
Output stability(dBm)	±0 04@20℃@15min
Modulation	CW/270Hz/1KHz/2KHz
Fiber type	SM

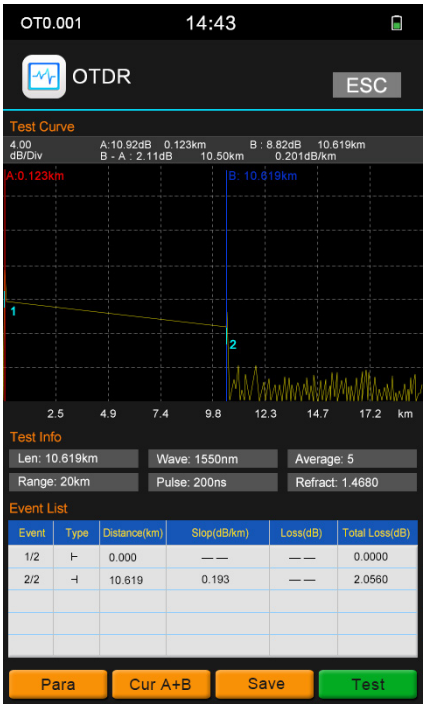
Others	
LCD	3.97inch,800*480pixels, IPS screen
Battery	7.4V/4400mAH Lithium-ion battery, >5000 tests
Temperature	Work temperature: -5 ~ 50 ° C, Storage temperature: -10 ~ 60 ° C
Humidity	0～85%(Non-condensing)
Dimensions (mm)	190×84×52
Weight(g)	375

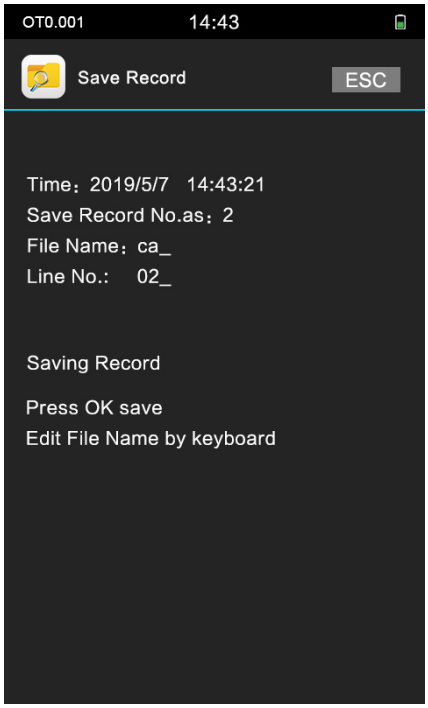
4. AUTOMATIC AND MANUAL TEST FUNCTION

Applications
> FTTH Testing & Maintenance
> CATV network testing
> FTTA troubleshooting
> LAN Network Testing
> Access Network Testing



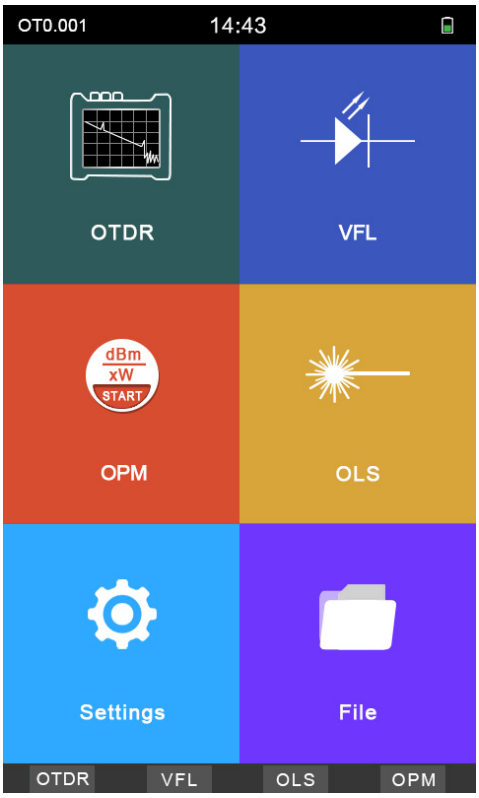


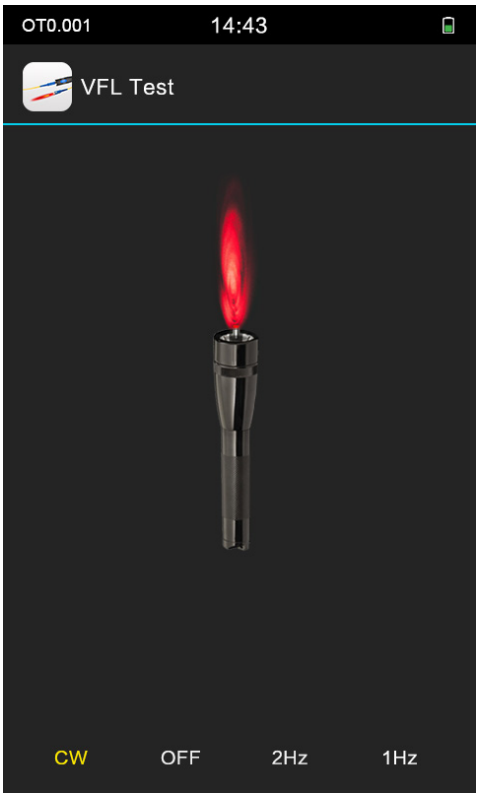


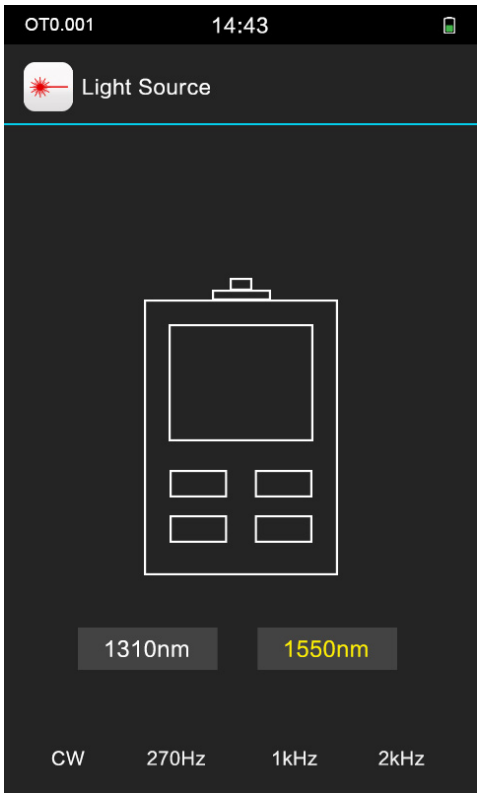


5. USER FRIENDLY MENU

The simplified menu helps customers use the Function of below: Visual Fault Locator, Light Source Function, Optical Power Meter

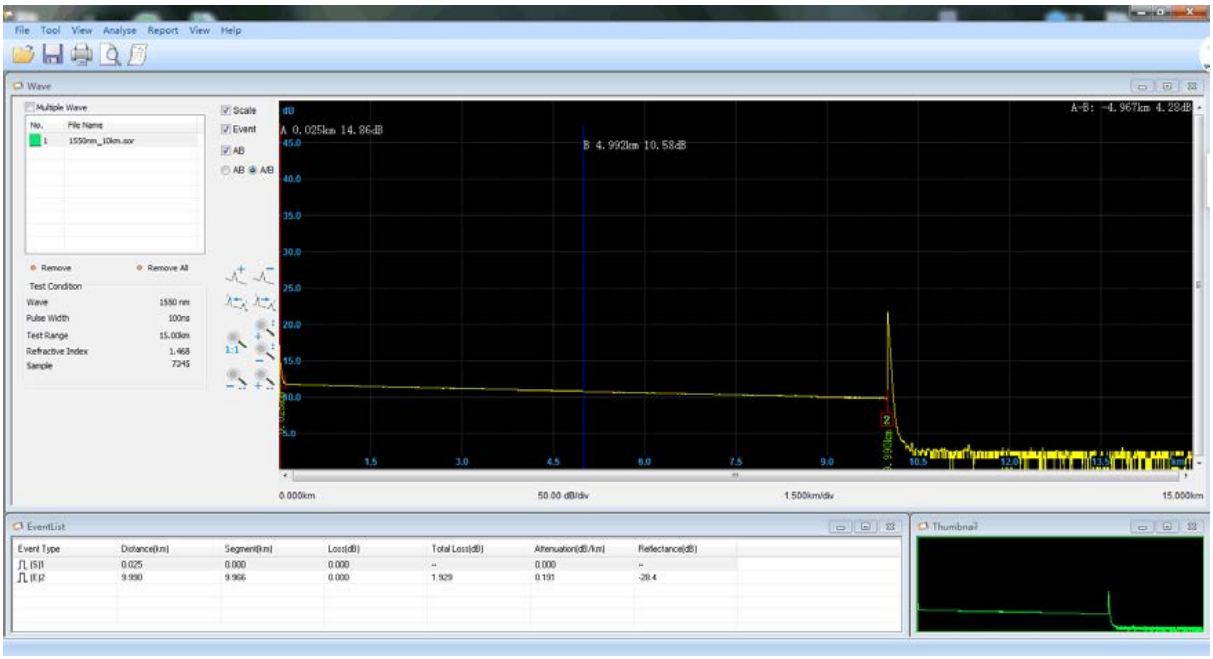






6. DETAILED REPORT

Use the OTDR Viewer simulation analysis software to view the OTDR test report through print preview. The test report contains information such as test conditions, test curves, link loss, average loss, event list, etc., and the test reports can be batch printed after confirmation.



OTDR REPORT

OTDR v2.23 2019-05-07 12:00:16

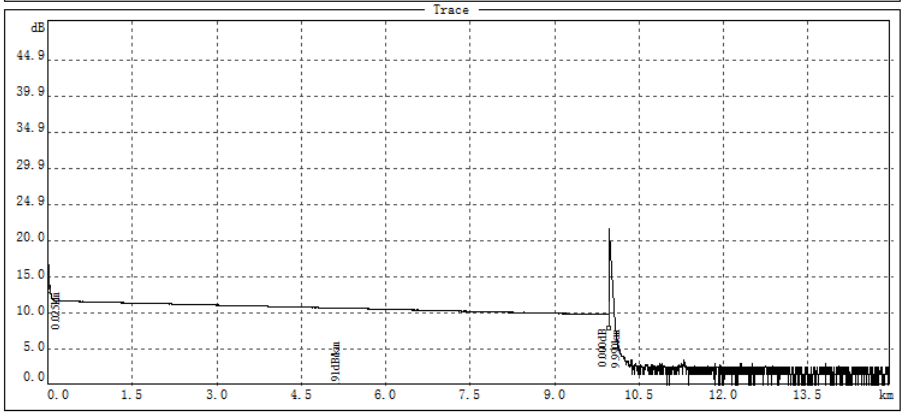
Job

Job ID : 900	File : 1550nm_10km.sor
Contractor:	Date : 2018-12-21 08:51:18
Customer :	Operator:

Configuration

Wavelength(nm): 1550	Range(m) : 15000	Backscatter coeff(dB) : Auto
Pulse(ns) : 100	Average Time(s): 10	Loss threshold(dB) : Auto
Origin	End	Reflectance threshold(dB): Auto
Location: 1	Location: 2	End of fiber threshold : Auto
Cable : 1	Cable : 2	Refractive Index : 1.468
Fiber : 1	Fiber : 2	
Color : 1	Color : 2	

Trace



Event

Event Type	Distance(km)	Segment(km)	Loss(dB)	Total Loss(dB)	Attenuation(dB/km)	Reflectance(dB)
1NonReflect(S)	0.025	0.000	--	--	--	--
2NonReflect(E)	9.990	9.966	--	1.929	0.191	-28.400