FHO5000 Series OTDR

- Dynamic range from 26dB to 50dB, small deadzone 0.8m/3m
- Optimized PON test capability to pass through 1x128 splitter, the minimum distance between splitters is 30 meters
- Excellent FLM(Fiber Link Map) testing performance
- Built-in OTDR trace and FLM testing PDF report
- Remote control on PC software is available
- Multi function Integrated design, smart and rugged
- Bluetooth and mobile APP is available on PRO version

FHO5000-D26	1310/1550nm±20nm	26/24dB	1/4m
FHO5000-D35		35/33dB	1/4m
FHO5000-D40		40/38dB	0.8/3m
FHO5000-D43		43/41dB	0.8/3m
FHO5000-D45		45/43dB	0.8/3m
FHO5000-D50		50/48dB	0.8/3m
FHO5000-TP35	1310/1490/1550nm±20nm	35/33/33dB	1/4m
FHO5000-T26F	1310/1550/1625nm±20nm	26/24/24dB	1/4m
FHO5000-T35F		35/33/33dB	1/4m
FHO5000-T40F		40/38/38dB	0.8/3m
FHO5000-T43F		43/41/41dB	0.8/3m
FHO5000-T45F		45/43/43dB	0.8/3m
FHO5000-T50F		50/48/48dB	0.8/3m
FHO5000-TC35F	1310/1550/1650nm±20nm	35/33/33dB	1/4m
FHO5000-TC40F		40/38/38dB	0.8/3m
FHO5000-TC43F		43/41/41dB	0.8/3m
FHO5000-TC45F		45/43/43dB	0.8/3m
FHO5000-M21	850/1300nm±20nm	19/21dB	1/4m
FHO5000-MD21	850/1300nm±20nm	19/21dB	1/4m
	1310/1550nm±20nm	35/33dB	1/4m
FHO5000-MD22	850/1300nm±20nm	19/21dB	1/4m
	1310/1550nm±20nm	40/38dB	0.8/3m

Other Functions
★ Built in multi-language OTDR/FLM PDF report generation
★ Live Fiber detect: Verifies presence communication light in optical fiber
★ Dual wavelength(1310nm/1550nm) analysis-Macro bending detection
★ Built-in Bidirectional test analysis function
★ Trace overlay and comparison (most 8 traces)
★ Define the Pass/Fail result of each event through threshold settings
★ Powerful PC analysis software “OTDRviewer”
★ Remote control on PC software “Server” via RJ45 cable
★ Bluetooth and Android mobile APP is available on PRO version
★ OTDR trace and Fiber link map conversion
★ Start launching cable and end receiving fiber function

Items	Specifications
Pulse Width	3ns, 5ns, 10ns, 30ns, 50ns, 100ns, 275ns, 500ns, 1us, 2us, 5us, 10us, 20us
Distance Range	500m, 2km, 5km, 10km, 20km, 33km, 40km, 80km, 120km, 160km, 265km
Sampling Resolution	Minimum 5cm
Sampling Points	Maximum 256,000 points
Linearity	≤0.05dB/dB
Loss Threshold	0.01dB
Loss Resolution	0.001dB
Distance Resolution	0.01m
IOR Setting	1.2000~1.7000, 0.0001 step
Distance Accuracy	±(0.75m+test distance×3×10^{-5}+sampling resolution) (excluding IOR uncertainty)
Memory Capacity	16G TF card

Items	Specifications
Visual Fault Locator Module	
Working Wavelength	650nm±20nm
Power	10mw, CLASSIII B Laser
Launching Mode	CW/2Hz
Connector	Universal 2.5mm
Optical Power Meter Module	
Wavelength Range	800~1700m
Calibrated Wavelength	850/1300/1310/1490/1550/1625/1650nm
Test Range	TypeA:-60~+5dBm(standard); Type B: -40~+23dBm(optional)
Accuracy	±0.35dB
Resolution	0.01dB
Optical Laser Source Module	
Working Wavelength	Consistent with OTDR
Output Power	SM≥-10dBm; MM≥-15dBm
Output Mode	CW/270Hz/1kHz/2kHz
Others	
Interface	1×RJ45 port, 3×USB port (USB 2.0, Type A USB×2, Type B USB×1)
Display	7-inch touch screen TFT-LCD
Available Lanaguage	English, traditional Chinese, French, Korean, Russian, Spanish, Portuguese, Turkish, Italian, German, Thai, Hungarian, Czech, Vietnamese, Polish
Battery	7.4V/5.2Ah lithium battery (with air traffic certification)
Power Supply	10V(dc)/4A, 100V(ac) to 240V(ac), 50~60Hz
Temperature	Working Temp: -10℃~+50℃; Storage Temp: -20℃~+70℃
Humidity	≤95% (No-condensation)
Dimension	253×168×73.5mm
Weight	1.5kg (with battery)
Accessories	Main unit, Power adapter, Charge cord, Lithium battery, FC adapter, USB cable, Quick guide, Test report, Carrying bag, Wrist strap
Optional	SC/LC adapter, Fiber microscope, Launch cable box

Notes

1: Please consult us for more customized models

2: Model T26F/T35F/T40F/T43F/T45F/T50F/TC35F are integrated built-in filter, support live fiber testing

3: Dynamic range is measured with maximum pulse width, averaging time is 3 minutes, SNR=1;
The level difference between the RMS noise level and the level where near end back-scattering occurs.

4: Event dead zone is measured with pulse width of 3ns and return loss ≥-45dB. Dynamic range>5dB
Attenuation dead zone is measured with pulse width of 3ns and returen loss ≥-55dB. Dynamic range>5dB

FHO5000-XX-XX-XX-XX-XX-XX-XX-XX

Model

M	850/1300nm
MD	850/1300/1310/1550nm
D	1310/1550nm
T	1310/1550/1625nm
TC	1310/1550/1650nm
TP	1310/1490/1550nm
P	1650nm

Dynamic Range

21	19/21dB for Model M or 19/21/35/33dB for Model MD
22	19/21/40/38dB for Model MD
26	26/24dB for Model D
35	35/33dB for Model D or 35/33/33 for Model TP
40	40/38dB for Model D
43	43/41dB for Model D
45	45/43dB for Model D
50	50/48dB for Model D
26F	26/24/24dB for Model T with filter
35F	35/33/33dB for Model TC/T with filter
40F	40/38/38dB for Model T with filter
43F	43/41/41dB for Model T with filter
45F	45/43/43dB for Model T with filter
50F	50/48/48dB for Model T with filter
P26	26dB for Model P with filter
P38	38dB for Model P with filter

Laser Source

/	Without laser source
LS	With laser source

Connector

/	FC/UPC(default)
SC	SC/UPC
ST	ST/UPC

Fiber Link Map

/	Without fiber link map
FLM	With fiber link map

Fiber Microscope

/	Without fiber microscope
FM	With fiber microscope

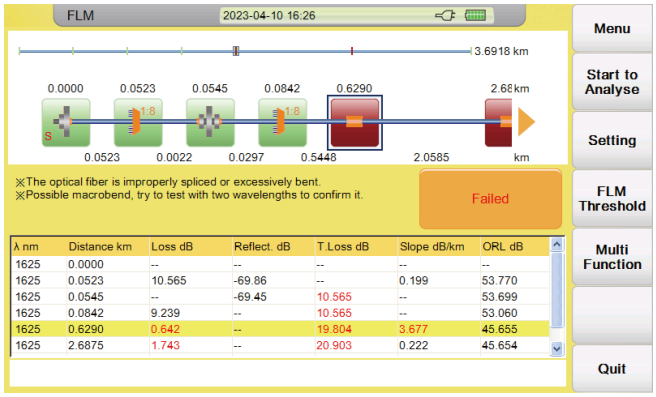
Touch Screen

/	Without touchscreen
TS	With touchscreen

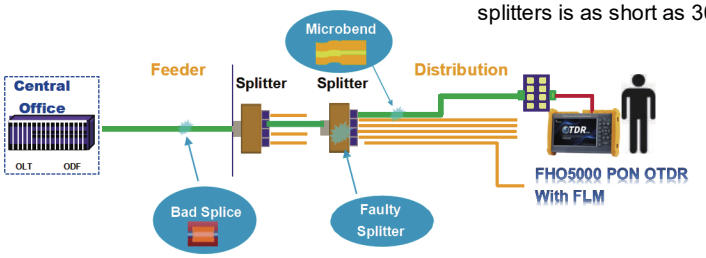
Power Meter

/	Without power meter
PMA	With power meter TYPE A
PMB	With power meter TYPE B

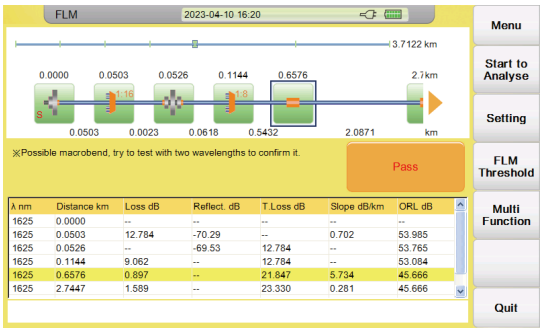
Intelligent Fiber Link Map (FLM)



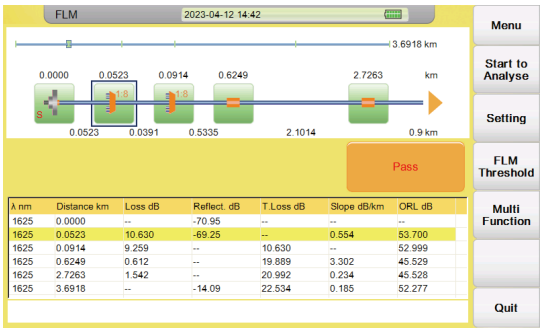
- Adaptively adjust multiple pulse width tests based on link, merge and analyze
- FLM can test any PON structure including balanced or unbalanced splitter
- No need to analyze curves, test results are displayed through icons, simple and clear
- Comprehensive fiber optic fault diagnosis and analysis
- User-defined Pass/Fail function and automatic FLM reports generation
- Suitable for PON network analysis, can pass through up to 1x128 splitters
- Splitter identification, shortest distance between splitters is as short as 30m



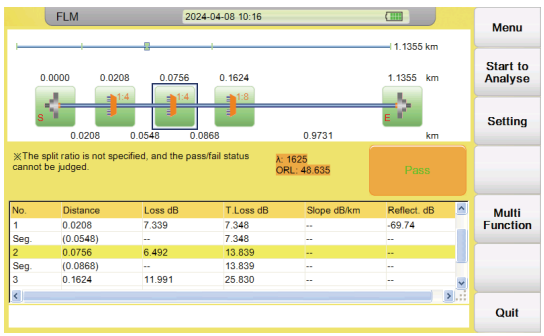
Optimized PON test capability through FLM



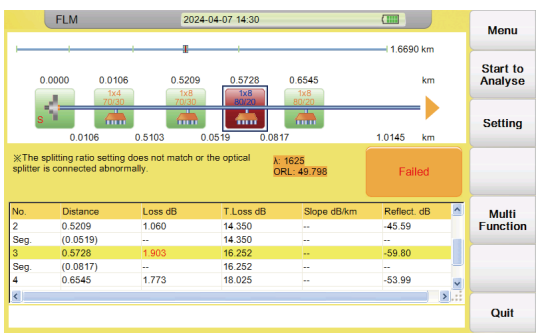
Test 1x16+1x8 splitters



Test 1x8+1x8 splitters



Test three levels splitters



Test unbalanced splitters