



FH05000 PRO 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

Model	Wavelength	Dynamic Range	Dead-zone
FHO5000-D26 PRO	1310/1550nm±20nm	26/24dB	1/4m
FHO5000-D35 PRO		35/33dB	1/4m
FHO5000-D40 PRO		40/38dB	0.8/3m
FHO5000-D43 PRO		43/41dB	0.8/3m
FHO5000-D45 PRO		45/43dB	0.8/3m
FHO5000-D50 PRO		50/48dB	0.8/3m
FHO5000-TP35 PRO	1310/1490/1550nm±20nm	35/33/33dB	1/4m
FHO5000-T26F PRO	1310/1550/1625nm±20nm	26/24/24dB	1/4m
FHO5000-T35F PRO		35/33/33dB	1/4m
FHO5000-T40F PRO		40/38/38dB	0.8/3m
FHO5000-T43F PRO		43/41/41dB	0.8/3m
FHO5000-T45F PRO		45/43/43dB	0.8/3m
FHO5000-T50F PRO		50/48/48dB	0.8/3m
FHO5000-TC35F PRO	1310/1550/1650nm±20nm	35/33/33dB	1/4m
FHO5000-TC40F PRO		40/38/38dB	0.8/3m
FHO5000-TC43F PRO		43/41/41dB	0.8/3m
FHO5000-TC45F PRO		45/43/43dB	0.8/3m
FHO5000-M21 PRO	850/1300nm±20nm	19/21dB	1/4m
FHO5000-MD21 PRO	850/1300nm±20nm	19/21dB	1/4m
	1310/1550nm±20nm	35/33dB	1/4m
FHO5000-MD22 PRO	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	SM: 3ns, 5ns, 10ns, 30ns, 50ns, 100ns, 275ns, 500ns, 1us, 2us, 5us, 10us, 20us MM: 3ns, 5ns, 10ns, 30ns, 50ns, 100ns, 275ns, 500ns, 1us
Distance Range	SM: 500m, 2km, 5km, 10km, 20km, 33km, 40km, 80km, 120km, 160km, 265km MM: 500m, 2km, 5km, 10km, 20km, 33km, 40km
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	800~1700nm
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

- Please consult us for more customized models
- Model T26F/T35F/T40F/T43F/T45F/T50F/TC35F are integrated built-in filter, support live fiber testing
- 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.
- 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 return loss ≥-55dB. Dynamic range>5dB



FH05000-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

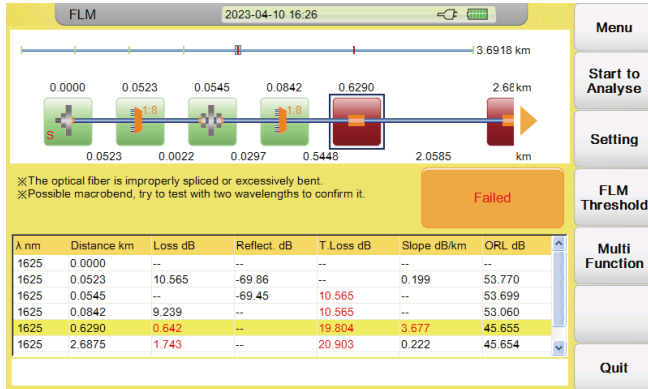
Touch Screen

/	Without touchscreen
TS	With touchscreen

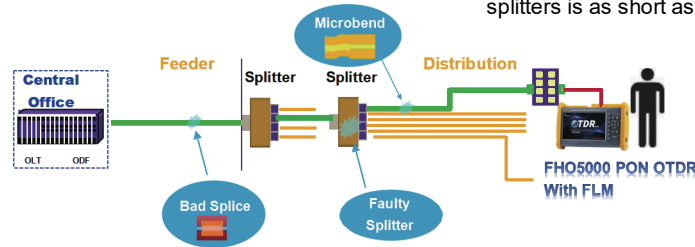
Power Meter

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

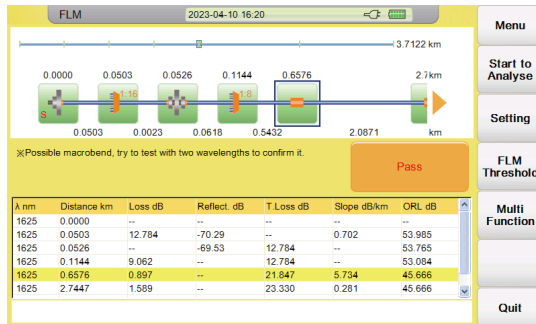
Intelligent Fiber Link Map (FLM)



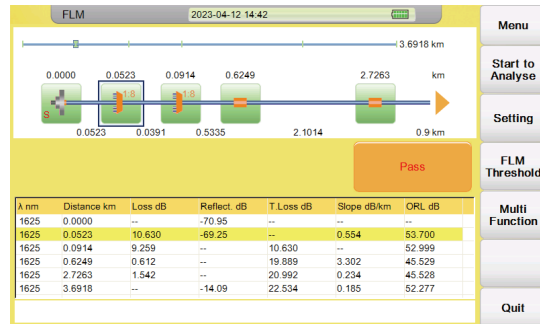
- Adaptively adjust multiple pulse width tests based on link, merge and analyze
- FLM can test any PON structure including balanced or unbalanced splitter
- No need to analyze curves, test results are displayed through icons, simple and clear
- Comprehensive fiber optic fault diagnosis and analysis
- 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



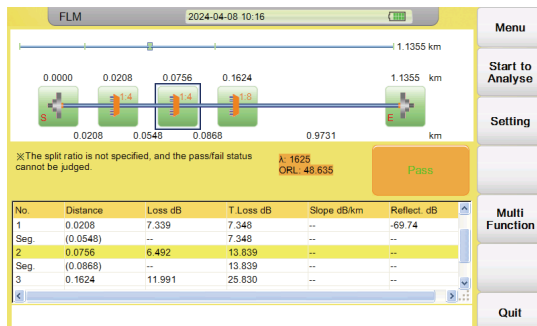
Optimized PON test capability through FLM



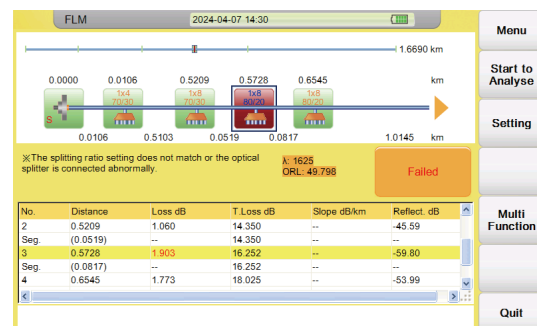
Test 1x16+1x8 splitters



Test 1x8+1x8 splitters



Test three levels splitters



Test unbalanced splitters