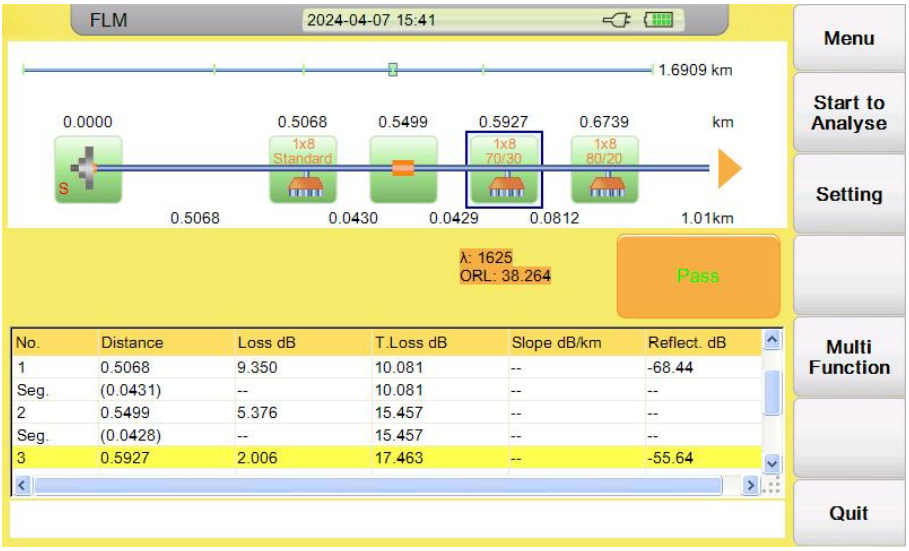
New Intelligent Fiber Link Map *(FLM)*

Testing three levels and unbalanced Splitters

Based on OTDR principle, automatic pulse width configuration, more accurate fiber link testing



FLM is a more advanced and intelligent OTDR test, combined with new hardware and advanced algorithms. With just one button, it can automatically perform multiple pulse width tests and merge analysis, Complete the detection of fiber optic links with higher dynamics and resolution.

Main Features

Adaptively adjust multiple pulse width tests based on link, merge and analyze

No complex settings, testing can be completed with just one button

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

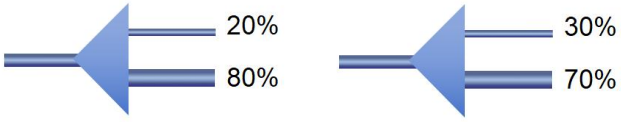
Splitter identification, shortest distance between splitters is as short as 30m

1 FLM license can test any PON structure

1: Cascaded(two levels or three levels splitters)

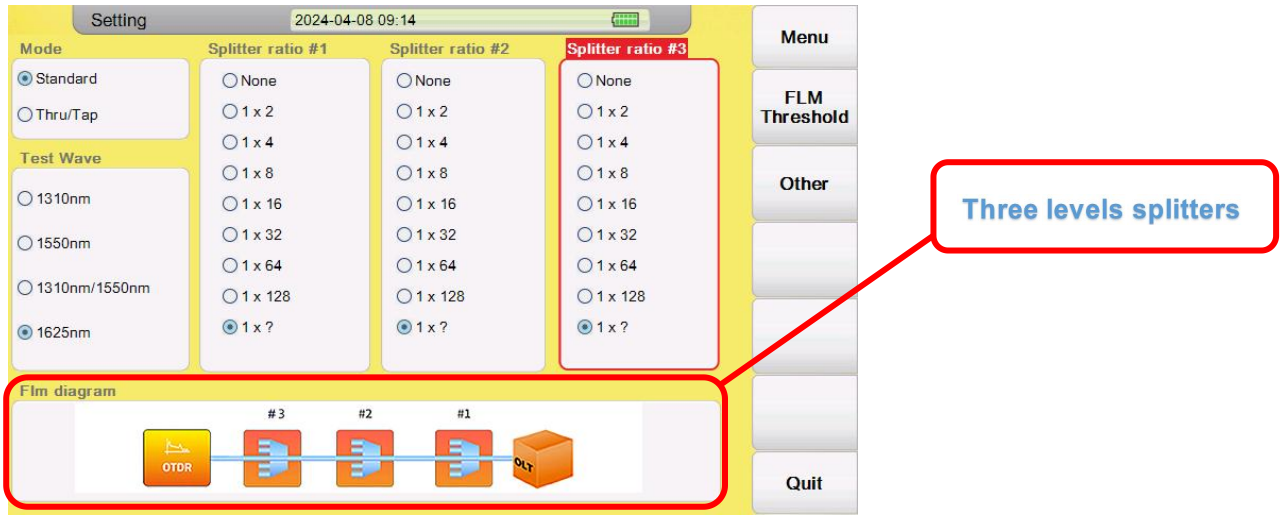
2: Centralized(One big ratio splitter, maximum 1x128 splitter)

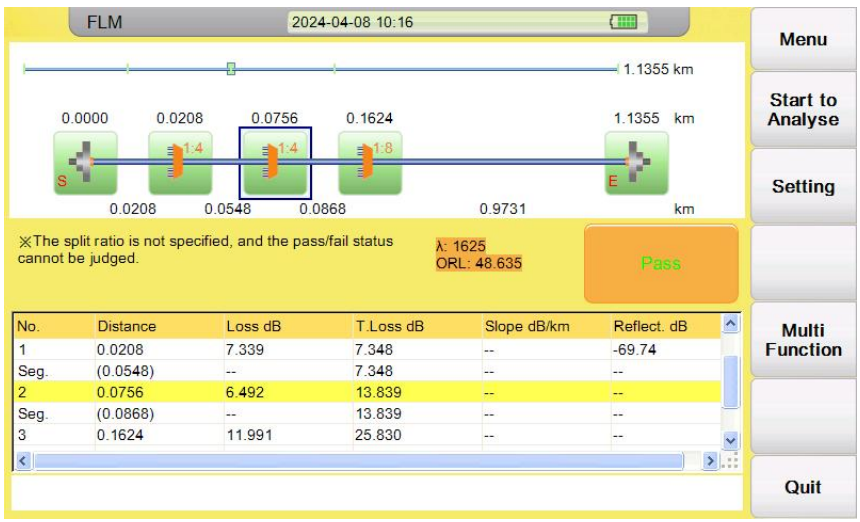
3: Unbalanced(Up to 12x unbalanced splitters with different uneven ratio)



Three levels splitters testing

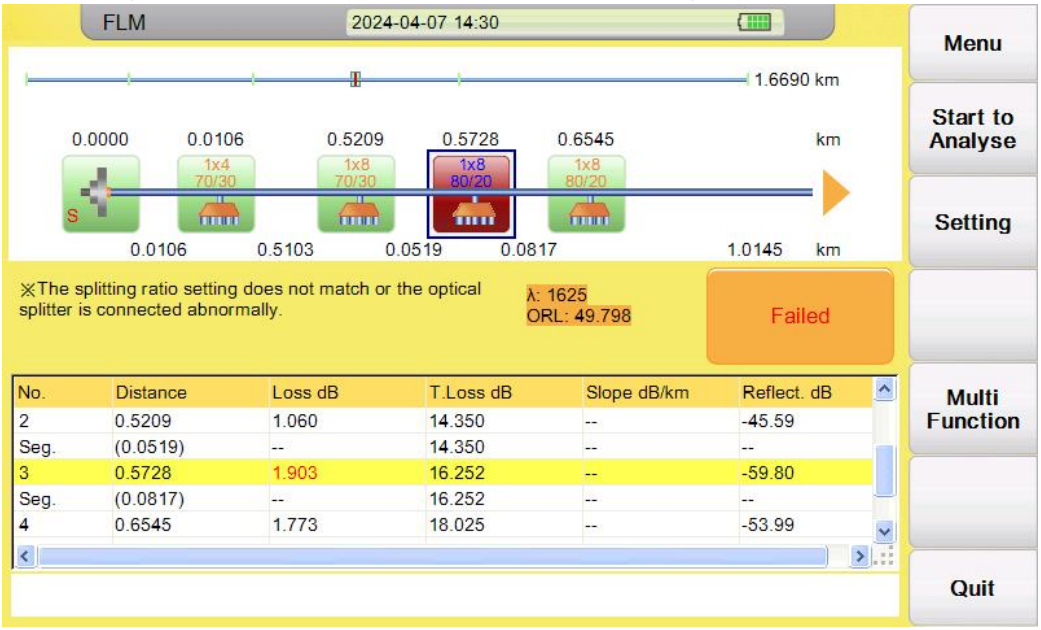
When there are multi-level standard splitters in the PON line, FLM can also easily identify splitters and analyze the overall performance of the network.





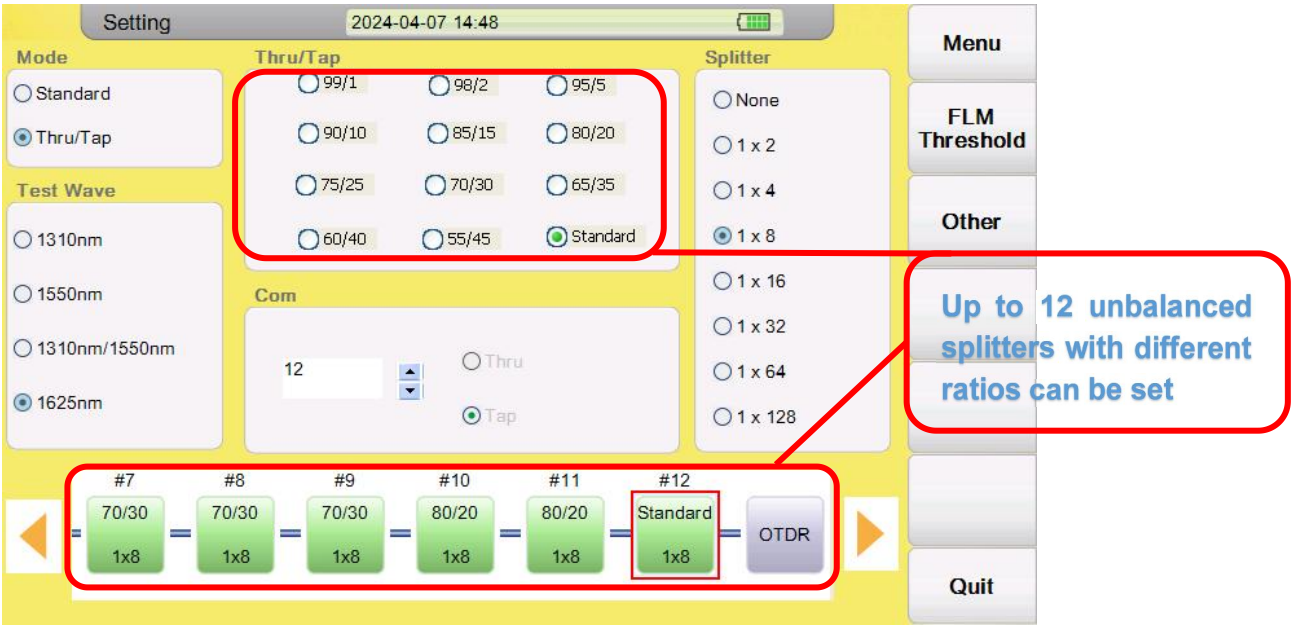
Unbalanced splitters testing

Some areas with uneven population density and Rural FTTH network often deploy unbalanced spltters, Traditional OTDR testing will not be able to display such unbalanced splitter, and often mistaken the splitter for a faulty connector or micro-bending. This will pose a huge PON verification and maintenance challenge for on-site testers.



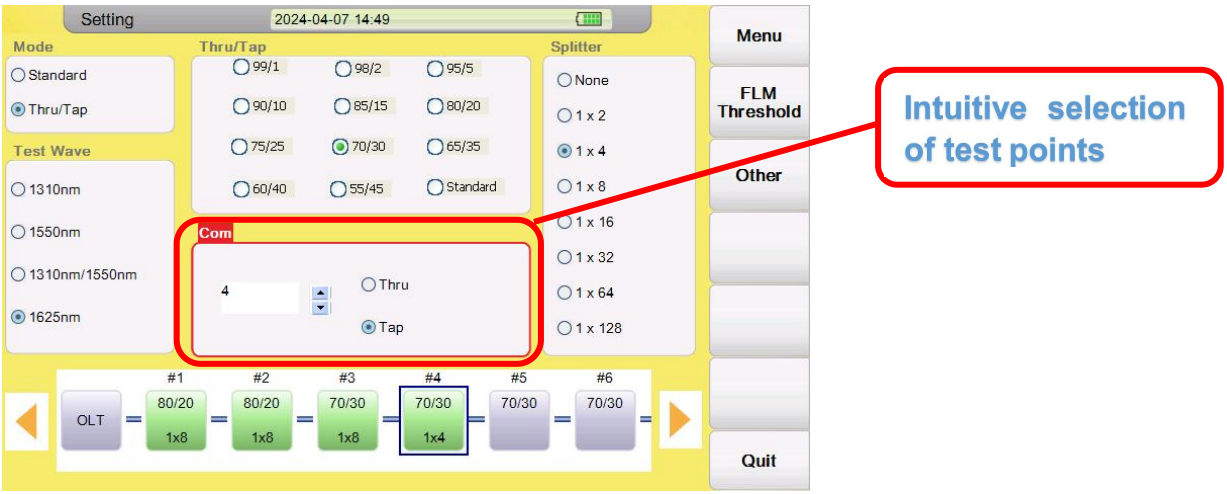
➢ Up to 12 can be deployed

Any unbalanced ratio can be tested, 90/10, 85/15, 80/20, 70/30, 60/40, etc, Up to 12 levels of splitters can be set, including unbalanced and standard splitters.

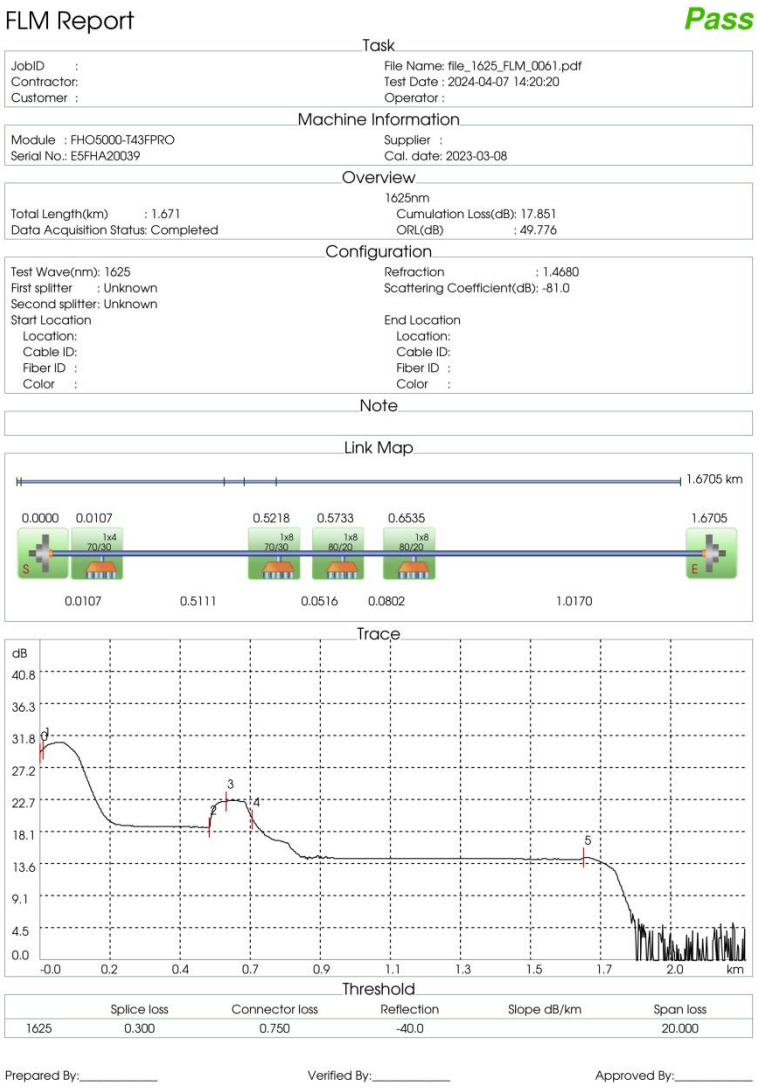


➢ Intuitively select the testing location

The unbalanced splitter has through output ports and tapered output ports, and FLM supports testing from any node(Through/Tapered). The test results will automatically perform pass/fail analysis according to the threshold setting.



Support on-site generation of FLM test reports



FLM Report **Pass**

Task

JobID :
Contractor:
Customer :
File Name: file_1625_FLM_0061.pdf
Test Date : 2024-04-07 14:20:20
Operator :

Machine Information

Module : FHO5000-T43FPRO
Serial No.: E5FHA20039
Supplier :
Cal. date: 2023-03-08

Overview

Total Length(km) : 1.671
Data Acquisition Status: Completed
1625nm
Cumulation Loss(dB): 17.851
ORL(dB) : 49.776

Configuration

Test Wave(nm): 1625
First splitter : Unknown
Second splitter: Unknown
Start Location
Location:
Cable ID:
Fiber ID :
Color :
Refraction : 1.4680
Scattering Coefficient(dB): -81.0
End Location
Location:
Cable ID:
Fiber ID :
Color :

Note

Link Map

Trace

Threshold

	Splice loss	Connector loss	Reflection	Slope dB/km	Span loss
1625	0.300	0.750	-40.0		20.000

Prepared By:_____ Verified By:_____ Approved By:_____