Pen-type Visual Fault Locator (VFL)

OSA1-VFLH-650

This Pen-type VFL is specially designed for field personnel who need an efficient and economical tool for fiber tracing, fiber routing and continuity checking in optical networks. It finds breakpoints, poor connections, bending or cracking in fiber optic cables; and it can find faults in an OTDR dead zone and is used for end-to-end visual fiber identification.

The Visual Fault Locator launches 650nm visible laser light into the fiber. When the light encounters a breakor sharp bend, it scatters, and the scattered light can be observed emerging from the cable. The Visual Fault Locator can locates breaks in short patchcords, which an OTDR cannot detect due to their operating dead zone. A fault locator is also much cheaper than an OTDR.

However, they are not recommended for using with dark-colored or armored cables.The Pen-type Visual Fault Locator can be operated in either continuous wave mode (CW mode) or in pulsed mode. Pulsed mode aids in locating faults under high ambient light conditions and improve battery life. It also could be used in checking connector quality. Often a connector may appears to be perfect. But inside the connector ferrule itself, poor gluing or dirty may create a microbend in the fiber. This microbend will produce excess insertion losses or return losses, and may result in premature failure of the connector. As the visual light launches through the fiber, it emerges from the connector in question, one can readily see the distortion as a series of rings superimposed on a normal output. Bending or twisting the fiber may affect the overall intensity pattern, but not the ring pattern itself.

KEY FEATURES

- 2.5mm universal connector, for 1.25mm connectors,
- FC(male)-LC(Female) adaptor also can be provided on request
- Operates either in CW or Pulsed mode with constant output power
- Low battery warning
- Long battery life (up to 60 hours)
- Drop-resistant and dust-proof design of laser head
- Laser case ground design prevents ESD damage
- Portable and rugged
- Easy to use

Strong LD light, long jumper detection still visible

Applications

- Maintenance in telecom, CATV
- Test Lab of optical fibers
- Fiber routing and continuity checking in optical networks
- Other fiber optic measurements

Bright spot detection LD

Technical Specifications

Model	OSA1-VFLH-650		
Central wavelength	650nm±10nm (635nm is available on request)		
Emitter type	FP-LD		
Output power	5mw	10mw	20mw
Laser Range	≥5km	≥10km	≥20km
Optical connector	2.5mm universal connector, for 1.25mm connectors, FC (Male)-LC. (Female) convertor can be provided on request		
Operating model	Both CW and Pulse available		
Pulse frequency	2Hz to 3Hz / 9Hz		
Power supply	2AAA alkaline batteries		
Operating temperature	-20°C to 60°C		
Storage temperature	-40°C to 85°C		
Dimension	Ø13 x 181mm		
Weight	106g (without battery)		

Standard Package

Model	Includes
OSA1-VFLH-650	Main unit, User Manual, Individual packing or Black Gift Box packing

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