and other hazardous substances.

5.2 Keep laser connector head face clean, please do not use dirty and nonstandard adapter connector, do not insert bad polished surface head face, otherwise the laser head face will get hurt. Before using, please use absorbent cotton with alcohol to clean fiber ceramics core, after drying to test.

5.3 When not using the visual fault locator, please cover dust cap to keep head face clean, which can ensure enough power output.

5.4 Please take battery out if not use, which can ensure the battery working life.

5.5 Note: when this visual fault locator is working, it is forbidden that eyes stare output end of the laser which will hurt eyes and skin.

6. Simple faults and solutions

Faults	Reasons	Solutions
No output when power on	low voltage	Replace battery
Small output power	Laser head face is dirty or low voltage	clean laser head face or replace battery

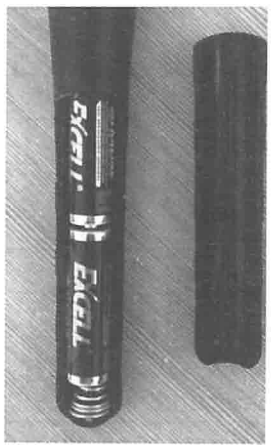
Visual Fault Locator

User Manual

V3.0

1. Summary

650nm visual fault locator is used to identify fiber and locate faults of SM or MM fiber, it is a helpful assistant to dead zone of OTDR, it also a basic maintenance tool for fiber network, LAN, ATM fiber system and telecom network system.



2. Functions and features

2.1 Support CW and 2Hz modulation work mode
2.2 The fall proof Design: use special laser end design to avoid damage when dropping on the floor.
2.3 Long working hours: use effective laser drive circuit to ensure 1mW/650nm locator can work more than 60 hours continuously.
2.4 Stable power output: use special laser driver circuit, which can ensure stable power output in the low battery.
2.5 2.5mm universal adapter: use 2.5mm universal adapter, can match SC/LC adapters.

3. Specifications

Wavelength	650nm±10nm
Light source	FP-LD laser
Output power	1mW, 3mW, 10mW, 20mW (optional)
Connector	2.5mm universal adapter
Working mode	CW or 2Hz modulation
Operating temperature	0～+40 °C
Storage temperature	-25～+70 °C

Power	2pcs AA battery
Working hours	≥ 60(1mW)
Weight	100g（excluding batteries）
Dimension (mm)	Φ:30; L: 185

4. Operation

Put 2 pcs AA battery into the locator, and then press "PWR" key upward and downward to switch on/off the VFL. The LED indicator can show the working condition at the same time.
4.1 Push the "PWR" button upward to output continuous laser light: the LED indicator will always light and the laser outputs continuous 650nm red laser light.
4.2 Push the "PWR" button downward to output modulation laser light: the LED indicator and laser device will blink at the same time and the frequency is about 2Hz.
4.3 Press the "PWR" button at the middle of VFL to switch off the tester.

5. Maintenance

5.1 This visual fault locator should avoid collision, drop and other mechanical injury, also should avoid strong acid, alkali