

Optical Probe

An excellent equipment in optical measurement



With the rapid development of optical fiber communication technology, optical fiber communication has become the main transmission mode of various communication networks. DIMENSION optical probe integrates OPM (optical power meter), VFL (visual fault locator), RJ45 cable tracker and sequence test and other functions. The optical probe is easy-to-use, and it can easily handle with the construction of various communication networks and different test scenarios. Thanks to the unique probe-type and non-contact universal interface design, field engineers do not need to carry a wide variety of other fiber patch cords, all tests can be completed with one optical probe.

Key Features

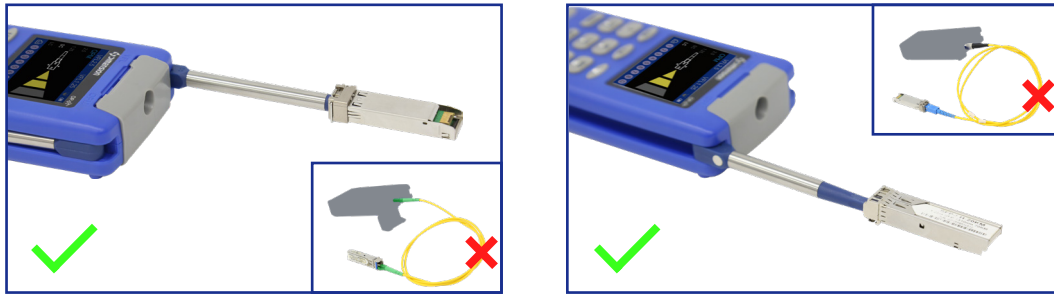
- Non-contact and probe power test
- No extra patch cords required
- Ultra-fast power ON, always ready for use
- Integrated with visual fault locator
- Support RJ45 cable sequence test
- Unique LED lighting
- Compatible with USB transfer, allowing to save data to PC

Applications

- Optical fiber network installation and maintenance
- Optical fiber communication teaching and research
- FTTX network installation

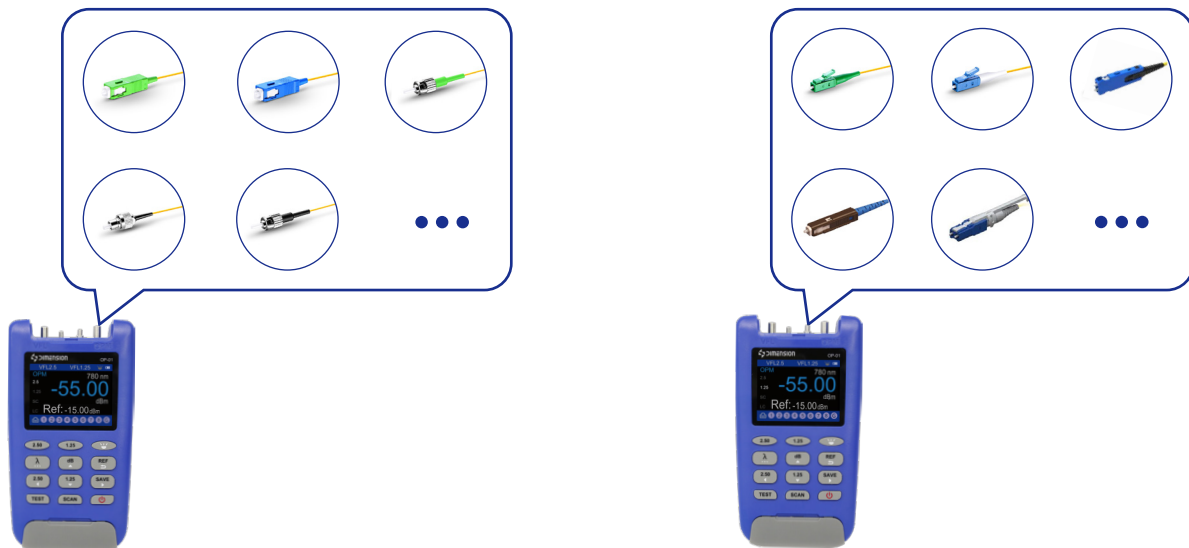
◀ Non-contact and probe power test

The Optical Probe equipment uses non-contact probe power detection. It can be tested without touching ports or cables to reduce the risk of fiber contamination or damage.



◀ No extra patch cords required

In order to adapt to all common test scenarios on the market, the optical probe integrates 2.5mm universal adapter, 1.25mm universal adapter, SC probe-type adapter and LC probe-type adapter. When need to complete measurement tasks at various levels and different fiber connectors/bulkheads are used, the user doesn't need to carry extra conversion patch cords.



◀ Ultra-fast power ON, always ready for use

The optical probe can be turned ON ultra-fast, having an intuitive graphical user interface for direct access to test functions. From shutdown to restart, the overall time does not exceed 0.8s.

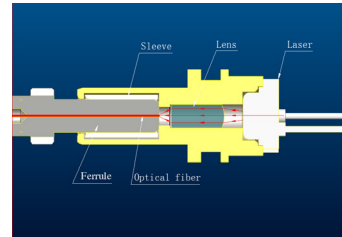


◀ Integrated with visual fault locator

The optical probe is equipped with 2.5mm and 1.25mm non-contact red light output ports. The non-contact design will not damage the end face due to plugging and unplugging, and the design of 2.5mm and 1.25mm red light output ports is suitable for most application scenarios. The device has two modes of emitting optical signals (continuous, flashing) to identify fibers, breaks, and macro-bends.



To identify fibers, breaks, and macro-bends



2.5mm non-contact red light output ports



1.25mm non-contact red light output ports

◀ Support RJ45 line sequence function

The users can discover the current line sequence arrangement of network lines through orderly signal transmission, verifying that the line sequence is correct or not through the device to complete the network installation.



◀ Support RJ45 line tracking function

In a complex field environment, it is difficult to determine the head and tail of a wire. The optical probe integrates RJ45 line tracking function. User can plug one end of the network line into the OP-01, and use the receiver to find the other end of the network line.



Unique LED lighting

In order to meet the needs of use in the field environment with insufficient light and bring a convenient experience to users, the optical probe has added LED lights to both the main device and the receiver, which can be turned ON by pressing.



Compatible with USB transfer, allowing to save data to PC

The optical probe allows to store maximum 1000 measurement results, which can be saved to PC via USB.



Specifications

| OPM* | | |
|---------------------------|--------------------------------------|-----------------------|
| Fiber adapter | 2.5mm and 1.25mm universal adapters | LC, SC Folding probes |
| Detector type | InGaAs | |
| Wavelength range | 780nm~1650nm | |
| Power range | + 6~-70dBm(Typ.) | + 6~-55dBm(Typ.) |
| Maximum input power meter | + 13dBm | |
| Linearity | ±0.5dB (+5~-60dBm) | ±0.5dB (+5~-50dBm) |
| Repeatability | ±0.05dB | ±1.00dB |
| Uncertainty | ± (5%+500pW) | |
| Test type | dBm、dB、mW、uW、nW | |
| Display resolution | 0.01dB | |
| Return loss | >55dB | |
| Test result storage | 1000 | |
| Fiber type | SM/MM | |
| VFL | | |
| Wavelength | 650nm±30nm | |
| Output power | ≥1mW | |
| Fiber adapter | 2.5mm and 1.25mm universal adapters | |
| Power Supply | | |
| Power supply | Built-in Li-ion battery (chargeable) | |
| Battery life | > 8h | |

*It is necessary to control the variables of test conditions to ensure the consistency of test conditions/interfaces

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