USER'S GUIDE

OPTICAL FIBER IDENTIFIER

English(GB)



You are cautioned that changes or modifications not espressly approved in this document could void yout authority to operate this equipment. To reduce the risk of fire or electric shock, do not expose this apparatus to

To reduce the risk of fireor electric shock, do not expose this apparatus to rain or moisture.

To avoid electrical shock, do not open the cabinet. Referservicing to qualified personnel only.



As the laser isharmful to the eyes, do not attempt to disassemble the cabinet.



CLASSILASER PRODUCT

Precautions for Use

Use batteries

At the same time, can not usedifferent style ordifferent capacitance batteries.

And only charge therechargeable batteries.

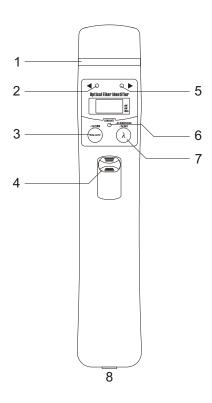
Avoiding condensation problems

As much aspossible, avoid sudden temperature changes. Do not attempt to use the drive immediately after moving it from a cold to a warm location, to raising the room temperature suddenly, as condensation may form with in the drive. If the temperature changes suddenly while using the drive, stop using it and take out batteries for at least an hour.

Storage

When long time no use, must take out the batteries to avoid destroying the device.

Description



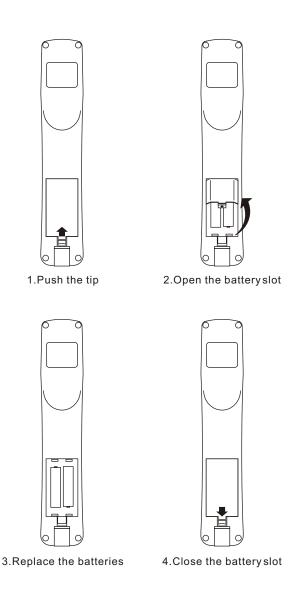
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|---|----|---|---|-----|----|----|----|---|---|
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2-Left indicative led

- 3-Power key of visual fault locator and optical power meter
- 4-Trigger of the fiber identifier
- 5-Right indicative led
- 6-Power indicative led
- 7-Calibration button
- 8-Connector of OPM/VFL(optional)

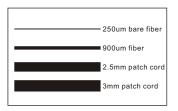
Battery set

Warning:At the sametime, can not usedifferent style and different capacitance batteries.

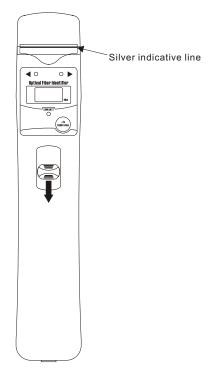


Availaber for different Fiber

- 1.Available for 800nm~1700nm laser signal
- 2.Based on non-destructive technology
- 3. No need to replace the clamp block for different fiber

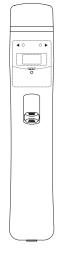


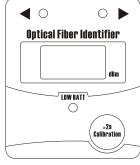
Availaber for different Fiber



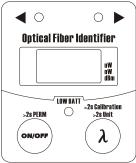
When testing 2.5mm and 3.5mm patch cord, the silver indicative line need to be seen to ensure a correct measurement

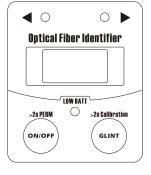
Fiber Identification models





a.standard Optical Fiber Identfier



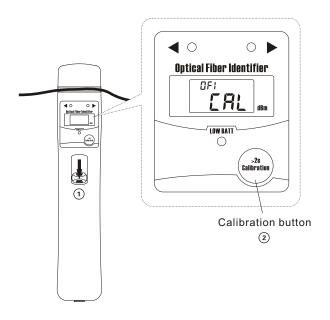


b.Optical Fiber Identifier with OPM mode

c.Optical Fiber Identifier with VFL mode

AFI430 serial has three models, include standard Optical Fiber Identifier, Optical Fiber Identifier with OPM mode and Optical Fiber Identifier with VFL mode. Different models with different buttons, which shown in the pictures above.

Environment Light Calibration



Push down the trigger of the fiber identifier and hold, then long press the " button. Until the beep be on and the the screen shows "CAL", the environment light calibration is finished.

Operation



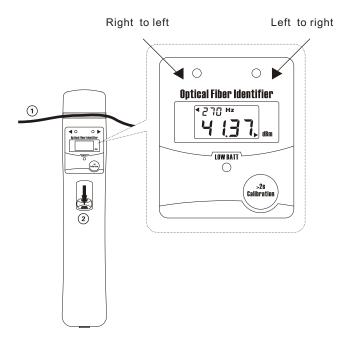
Put the fiberinto the fiberlocation and pushdown the trigger to begin testing. After 1~3 seconds, it output the results.

The data in the LCD means the signal intensity, if the power value is over +5dBm, it will be "HI", if the value is less than -40dBm, it will be "LO".

Carrier frequency: 270Hz, 1KHz, 2KHz and OFI.

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Signal Direction



It is the main function to test the direction of the signal in the fiber. When signal is transporting in the fiber, the corresponding indicative led will be on.

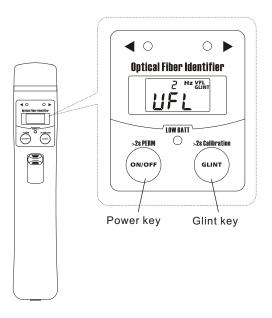
Optical Power Meter



When the optical fiber identifier has OPM mode, press " wey to turn on the device, short press " λ " key to select the laser source wavelength.

Open the cap in the bottom of the device and connect the fiber correctly, the device will calculate the power value automatically. The screen will show the corresponding wavelength and powervalue.

Visual Fault Locator

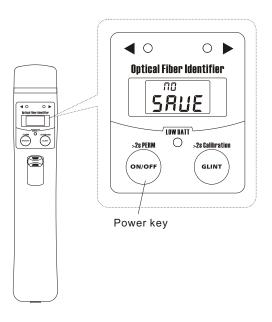


When the optical fiber identifier has VFL mode, press " (only)" key to turn on the device, press again to shut down.

Open the cap in the bottom of the device, and press the

" (GLINT)" key to open or close the flash laser.

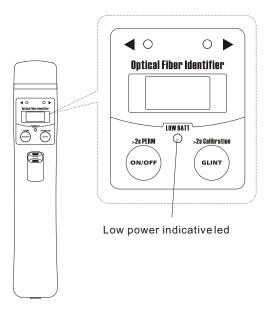
Power saving



Press " outer on the optical power meter or visual fault locator with auto power off(After 10 minutes no key pressed, it will auto power off.)

Press the " key for 2 seconds when turn on the device, the autopower off will be cancelled and the screen will show "NOSAVE".

Low power detecting



When the power indicative led turns to red, it means low battery energy, please replace the batteries, otherwise the device will autopower off.

Maintenance and calibration

Routine attention

- 1. Fiber-optical adapter should keep clean.
- 2. Please store the device in dry and ventilated place.
- 3. The long period no use , please take out the batteries.

Common malfunction

| Described | Malfunction cause | Handle way | | |
|-----------------------------------|---------------------------------------|-----------------------|--|--|
| Can □t turn on | No battery | Check battery setting | | |
| After turn on shut it immediately | Check battery capacities Change batte | | | |
| Wrong identification | Unavailable fiber | Change fiber | | |
| Display the messy code | Reset is incorrect | Reset | | |
| Can't identification | Wrong location | Testagain | | |

Detailed parameter

| | 250um fiber@1550nm=-35dBm | 250um fiber@1310nm=-30dBm | | | |
|---------------------|--|---------------------------|--|--|--|
| Accuracy-CW | 900um fiber@1550nm=-35dBm | 900um fiber@1310nm=-30dBm | | | |
| | 2.5mm fiber@1550nm=-30dBm | 2.5mm fiber@1310nm=-25dBm | | | |
| Max. Input | +5dBm | | | | |
| Detector Type | InGaAs | | | | |
| Wave respond | 800nm~1700nm | | | | |
| Insertion Loss | <2.5dB typical value | | | | |
| Frequency Identify | quency Identify 270Hz/1KHz/2KHz | | | | |
| Fiber Type | φ 250um/900um/2.5mm/3mm fiber | | | | |
| Sound Warn | Yes | | | | |
| Optical Power Meter | | | | | |
| Calibration Wave | 850nm,1300nm,1310nm,1490nm,1550nm,1625nm | | | | |
| Accuracy | ±0.02dB | | | | |
| Optical Adapter | 2.5mm UPP | | | | |
| Visual Fault Loca | ator | | | | |
| Wave Output | 635nm~670nm | | | | |
| Power Output | wer Output 1~30mW customized | | | | |
| Optical Adapter | 2.5mn | n UPP | | | |
| | | | | | |
| Battery Type | AA size Alkaline | cell or Ni-MH cell | | | |
| Battery life | >6000 times | | | | |
| Operate Temp °C | 0+50 | | | | |
| Store Temp ℃ | -20+70 | | | | |
| Size | 40 (L) *42 (| W) *230 (H) | | | |
| Weight | 25 | 250g | | | |

 $[\]varphi$ 3mm fiber measurement performance decreases 30%, fiber with black coating can not be measured, fiber with deep color coating performance decreases 10%~50%.