

IDL422 Mini OTDR

Ref.: IDL422



IDL422 Mini OTDR integrates fiber cable and Ethernet cable testing in one unit. It is a powerful tester for installers of fiber cable and network cable.

Features:

- Support screen capture
- Integrated design, smart and rugged
- FC/SC/ST connectors interchangeable
- Automatic and expert test function
- OTDR Viewer software for data analysis
- Cover plate type tempered glass panel, no worry about screen scratch
- Sink type optical port design for better protection
- Support USB Type C export data protection
- Intelligent power saving management

Applications:

- CATV network testing

Ideal Technology has a policy of continuous improvement. Specifications are subject to change without notice.

- Access network testing
- LAN network testing
- Lab and Factory testing
- FTTA troubleshooting

Multi-functions:

1. Auto OTDR

There is no need to do complicated settings, one button operation.

2. Expert OTDR

It provides professional measurement and displays curve, list and map simultaneously.

3. Event Map

Event Map is similar to EXFO's iOLM function, which can display events in user-friendly icons.

4. Optical Power Meter (OPM)

5. Visual Fault Locator (VFL)

Visual Fault Locator uses red laser of 650nm to locate broken fiber point and test fiber continuity.

6. Optical Light Source (Laser Source)

7. Optical Loss Test

OPM and OLS can be opened at the same time to test insertion loss.

8. RJ45 Sequene, RJ45 Length

It can check wire map, and measure the length of RJ45 cable.

9. RJ45 Digital Tracker

It can trace and locate the RJ45 network cable via digital rader with the features of stronger anti-jamming ability.

10. Endface Inspector

Endface Inspector is used to check fiber optic connector endface. The inspection probe is sold separately.

11. File Management

It can provide "computer-level" file management.

12. LED light

Specification:

1. OTDR

Model	IDL422-D26	IDL422-S26F①	IDL422-S24F②
Wavelength	1310/1550nm	1310nm with filter	1550nm with filter
Dynamic Range③	26/24dB	26dB	24dB
Fiber Type	SMF		
Event Dead Zone④	2.5m		
Attenuation Dead Zone	8m		
Measurement Range	500m, 1km, 2km, 4km, 8km, 16km, 32km, 64km, 100km		
Measurement Pulse Width	3ns, 5ns, 10ns, 20ns, 30ns, 50ns, 80ns, 160ns, 320ns, 500ns, 800ns, 1us, 2us, 3us, 5us, 8us, 10us, 20us		
Ranging Accuracy	$\pm(1m + \text{Sample interval} + 0.005\% \times \text{Test distance})$		
Sampling Resolution	0.05m~8m		
Samping Points	128,000 points		

Linearity	≤0.05dB/dB
Loss Threshold	0.2dB
Loss Resolution	0.001dB
Range Resolution	0.001m
Refraction Setting	1.00000~2.00000
Refraction Accuracy	±3dB
File Format	SOR standard file format
Laser Safety Level	Class II
Adapter	FC (Interchangeable SC adapter)
Multi-Languages	English, Russian, Spanish, French, Arabic, Hindi, Vietnamese, Portuguese

Note:

- ① IDL422-S26F with 1310nm with filter can do online testing for live fiber with 1490/1550nm signal. (optical power: ≤-5dBm)
- ② IDL422-S24F with 1550nm with filter can do online testing for live fiber with 1310/1490nm signal. (optical power: ≤-5dBm)
- ③ Testing temperature is 25°C±2°C, maximum pulse width, average time is more than 3 minutes.
- ④ Test conditions of Event Dead Zone are minimum range, minimum pulse width, reflection loss of optical fiber end surface (>45dB), typical value.

2. Optical Power Meter

Wavelength Range (±20nm)	800~1700nm
Calibrated Wavelength	850/980/1300/1310/1490/1550/1625/1650nm
Test Range	Type A: -50~+26dBm (standard); Type B: -70~+10dBm (optional)
Tone Detection	CW, 270, 330, 1k, 2kHz
Resolution	0.01dB
Uncertainty	±5%
Auto Wavelength Recognition	Support
Connector	Universal 2.5mm (FC/SC/ST)

3. Optical Light Source

Emitter Type	FP-LD
Working Wavelength	Same as OTDR
Output Power	≥-5dBm
Modulation Frequency	CW/270/330/1k/2kHz
Accuracy	CW, ±0.5dB/15min (Test after 15 minutes of preheating)
Auto Wavelength Recognition	Support
Connector	FC (Interchangeable SC adapter)

Note:

- 3.1. The wavelength of Optical Light Source is the same as OTDR wavelength.
- 3.2. Optical Light Source shares the same fiber port as OTDR port.

4. Visual Fault Locator

Wavelength ($\pm 20\text{nm}$)	650nm
Power	$\geq 10\text{mW}$
Mode	CW/1Hz/2Hz
Laser Safety Level	Class III
Connector	Universal 2.5mm (FC/SC/ST)

5. RJ45 Sequene, RJ45 Length

Test Range	300m
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6. RJ45 Digital Tracker

Mode	Digital tracking
Online/Line Pair Tracking	Support
Test Range	300m

Other Specification:

Display	4.3 inch full-view capacitive touch screen, support multi-touch, TFT 800x480 resolution
Power Supply	AC/DC adapter: input: AC: 100~240V, 50/60Hz, 5V, 0.6A; output: 5V, 2A. Lithium battery: 3.7V 4,000mAh
Battery Standby Life	$\geq 20\text{h}$
Battery Working Hours	$\geq 12\text{h}$
Data Interface	USB Type C
Data Storage	100,000 curves; 8G internal storage
Weight	500g (including battery)
Size	173*109*45mm
Operating Temperature	$-10 \sim +50^{\circ}\text{C}$
Storage Temperature	$-40 \sim +70^{\circ}\text{C}$
Relative Humidity	< 95% Non-condensation

Standard Accessories:

Item	Name	Quantity
1	OTDR with FC adapter for OTDR/LS port, Lithium battery and Simulation analysis software	1pc
2	AC/DC power adapter	1pc
3	Data line	1pc
4	SC Adapter for OTDR port	1pc
5	User manual	1pc
6	Calibration Certificate	1pc
7	Soft Bag with shoulder strap	1pc
8	Network Cable Tracker	1pc
9	Warranty card	1pc

Optional Accessories:

Item	Name	Quantity
1	LC Adapter for OTDR port	1pc
2	ST Adapter for OTDR port	1pc

Ordering Information:

Model	IDL422
Wavelength and Dynamic Range	D26: 1310/1550nm, 26/24dB S26F: 1310nm with filter, 26dB S24F: 1550nm with filter, 24dB
Power Meter	A: -50~+26dBm (default) B: -70~+10dBm
Connector	None: FC/UPC and SC/UPC (default) A: FC/APC and SC/APC