

## 1020A/B



### Overview

OTDR-1020A/B is a mini and portable OTDR designed for testing and troubleshooting during placing overall optical telecommunication network. It is of high cost-effective ratio. It has the same function as the traditional table-board OTDR, and it can be brought to spot for its portability. OTDR-1020A/B is an ideal instrument during fiber installation, maintenance, testing and other troubleshooting and analysis on the spot. The report format has been simplified and documented so that the staff can achieve high efficiency to get a satisfied result on the spot.

### Functions

- Smart, portable overall OTDR can complete diversified test, including:
  - Joint Loss: test loss value of diversified joint in fiber segment.
  - Optical Fiber attenuation rate: Test the attenuation rate in a whole or a segment of optical fiber to confirm whether the optical fiber achieve the criterion.
  - Circuit test: Determine whether the optical fiber cable is well-connected.
- Fault location: Locate the fault point of the optical fiber cable fast and accurately.
- Fiber total length: measure the total length of fiber cable or fiber.
- Online monitor: real-time monitor the cable case.
- Fiber identification: The inner optical power probe can test the optical signal (for average power lower than -30dBm), by which it test if active light source exists.
- Collect, store and display data with industrial standard format.
- Fiber analysis.
- Reflex results as fiber's detailed location for analysis.

Address : Perpa Ticaret Merkezi, A Blok No.516 Şişli/İstanbul | Tel : +90 212 3204030 | Fax : +90212 3200255 | e-mail : info@telkolink.com

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## Features

- Event analysis: the reflection event blind area less than 3m, and the precise collecting leads to accurate location.
- Real-time display: real-time scan and it can report the placing and maintenance process of fiber cable.
- Touch screen: easy and accurate operation.
- High resolution and dynamic scope: High resolution is helpful to determine short-distance event, and high dynamic scope make an easy operation for long-distance test possible.
- Portable and easy-to-use.
- Mapping function: Display the real location of faults, match the event spot and the real fault location correspondingly, and accelerate the troubleshooting.
- USB port: Store the scan curve or update software through USB line or U memo discs. Rechargeable lithium battery: work more than 6 hours with full charging.
- Visible fault location: provide serial and pulse light mode, 5km fiber fault location.
- PC simulating software: Synchronize PC and the inner data of OTDR, and achieve editing, printing on PC, and complete updating software.
- Shockproof, sealed instrument protect itself in austere environment.

## Configuration

| Item \ Model | Spec                         | Remark |
|--------------|------------------------------|--------|
| OTDR-1020A   | 1310/1550±20nm Portable OTDR |        |
| OTDR-1020B   | 1550/1625±20nm Portable OTDR |        |

### Accessories:

- One power adaptor (AC 110-240V / DC 15V 2.66 A)
- Two touch pens
- One package
- One USB line
- One CD with data analysis software (manual) / unit instruction manual
- One pack of cotton swabs
- Two bumper covers
- One calibration certificate

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## Specifications

| General        |                         |
|----------------|-------------------------|
| Spec           | 220 x 170 x 80 (mm)     |
| Weight         | 3kg                     |
| Language       | Chinese, English        |
| Screen         | 7" Color TFT LCD        |
| operation      | Touch Screen, USB mouse |
| Interface      | FC, VFL, USB x 2, Power |
| Battery        | Li                      |
| Endurance time | >6h                     |
| Data storage   | inside 1GB SD Card      |
| VFL            | Fault Location>5 km     |

### ● Test Interface Indicators

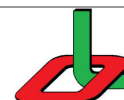
| Item \ Model          |           | OTDR-1020A  | OTDR-1020B      |
|-----------------------|-----------|---|-----------------|
| Wavelength            |           | 1310/1550±20 nm   | 1550/1625±20 nm |
| Dynamic Range(dB)     | Effective | 35/33 dB  | 33/31 dB        |
|                       | SNR=1     | 38/36 dB  | 36/34 dB        |
| Pulse Width           |           | 10, 30, 100, 300, 1000, 3000s, 10000, 20000 ns, Auto  |                 |
| Fiber Under Test      |           | 9/125µm Single Mode Fiber   |                 |
| Optical Connector     |           | FC/PC or SC/PC  |                 |
| Event Dead Zone       |           | < 2.8 m   |                 |
| Attenuation Dead Zone |           | < 9 m   |                 |
| Sampling Resolution   |           | 0.25, 0.5, 1, 2 m   |                 |
| Distance Accuracy     |           | ± (2 m + 3 x 10 <sup>-5</sup> × Distance + Marker Resolution) (Not include Fiber Coefficient Error) |                 |
| Loss Accuracy         |           | ± 0.05 dB/dB or 0.1 dB (Whichever greater)  |                 |
| Return Loss Accuracy  |           | ± 4 dB  |                 |
| Max. Display Range    |           | 240 km (150 mile)   |                 |
| Operating System      |           | Windows CE  |                 |
| Operation Temperature |           | 0 °C ~ +50 °C   |                 |
| Storage Temperature   |           | -10 °C ~ +60 °C   |                 |
| Humidity              |           | 0 ~ 85 % (non condensing)   |                 |

● Note: The above parameters are measured in 23 ± 2 °C ambient temperature.

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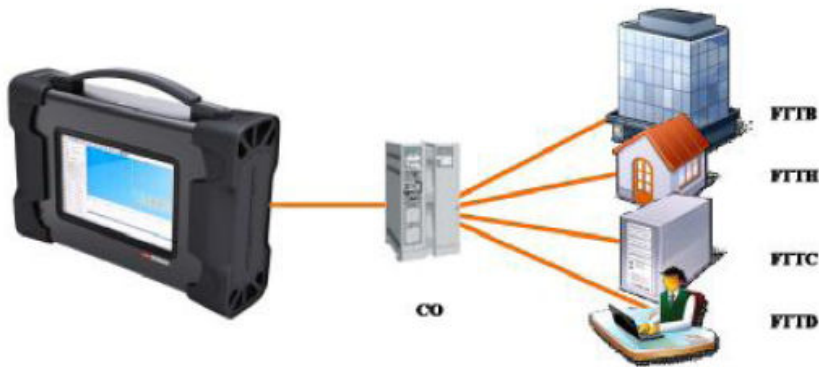
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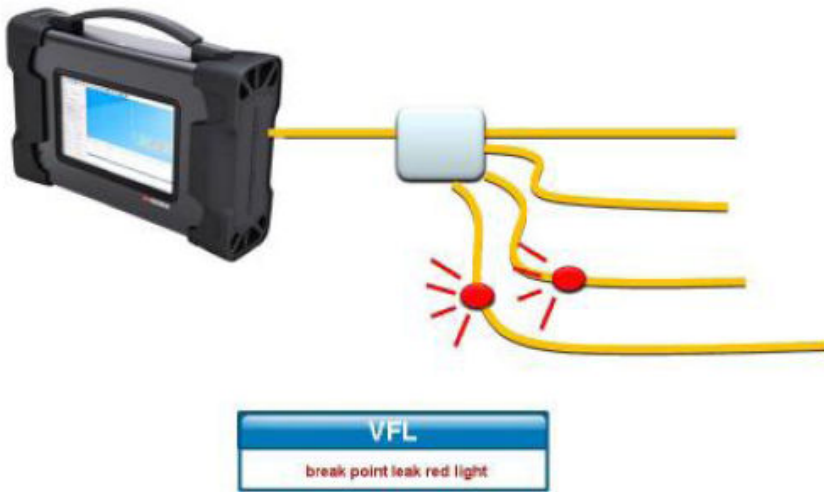


### Applications

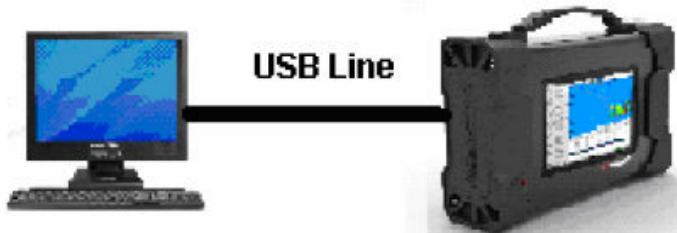
- OTDR cable and fiber test



- VFL(Visual Fault Locator)



- PC software sync-processing and software updating



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