

## CLR-FR-1550

Fiber Ranger - Mini OTDR  
with Visual Fault Locator  
function



### Overview

CLR-FR-1550 Fiber Ranger is newly designed fiber optic tester, it is useful at fiber network installation, fiber network acceptance tests and fiber network maintenance issues. It can detect faulty location in fiber line accurately and quickly, and is designed for field usage. Furthermore CLR-FR-1550 fiber ranger is an economical tester instead of OTDRs in the test and maintenance of fiber lines.

### Features

- Identification of faulty locations is very easy.
- Reflection events and attenuation events are analysed automatically.
- Build-in visual fault locator function.
- Automatic Pulse Width Control design ensures a convenient operation.
- Up to 1000 measurement results can be stored in the unit.

## Specifications

### General

Operating Wavelength	- 1550 ± 20nm
Fiber Type	- 9/125um SM
Optical Connector	- FC/PC
Detector Type	- InGaAs APD
Pulse Width	- Auto adjustment
Max.Distance ①	- Reflection Event: 60km (≥1dB) - Non-reflection Event: 20km (≥2.5dB)
Distance Accuracy (Reflection Event) ②	- $\pm(3m + 2 \times 10^{-4} \times \text{distance})$
Reflection Event Dead Zone ③	- 15m
Power Supply	- AA 3pcs
Battery Operating Time	- >2500
Auto Power-off time (min) ④	- 10
VFL output power	- >1mW
Data Storage Capacity ⑤	- 2000

### Environmental

Working Temperature	- -5~40°C
Storage Temperature	- -10~70°C
Dimensions	- 175*90*44.5 mm
Weight	- 278g

### Notes

- ① The max test distance 60km means CLR-FR-1550 can detect the reflection events , where loss is >1dB in 60km of dynamic range; The detection distance of non-reflection event is 40km (>1dB).
- ② Distance accuracy depends on the length of measured distance, if measured distance is 30km, the accuracy is  $\pm(3m + 2 \times 10^{-4} \times 30 \times 10^3) = \pm 9m$
- ③ Reflection Event Dead Zone means that the minimum dead zone of reflection event under the minimum pulse width.
- ④ Auto power-off time is 10 minutes. If fiber ranger is turned on and no operation in 10 minutes, then the unit will turn off automatically. If turned on 30s later and no operation, the back light will be off, then press any key, back light will be on again.
- ⑤ Fiber ranger can save up to 2000 measurement results in the unit; The data saved in the unit is showed by the mode of date. No, user will know the test time clearly when they check the data,.
- ⑥ The bare unit weight without battery, according to customer's request for different customized wavelengths, the unit weight may vary slightly.