

FFR-20

Fiber Ranger



FibreOptica's Fiber Ranger uses the same work principal as OTDR. Therefore, the Fiber Ranger can also be treated as simplified, non-curve displayed OTDR. FFR-20 series are designed for the identification of fiber break point and fault locations. It can quickly detect and identify fiber break and impairment in fiber installation and display the results - up to 8 points.

Depending on the fiber conditions, test environment and actual fiber length, FFR-20 series can automatically control the output power and choose the most suitable pulse width. Beside 1550nm wavelength, up to user's request, FFR-20 series can also support 1310nm wavelength. Its built-in 650nm visual fault locator for trouble-shooting fiber-optic cable up to 15km can identify faults in a fiber jumper cable, ODF, patch panels, splice trays and etc. It is an excellent complement to the Fiber Ranger since it can locate the faulty in the dead-zone.

Specifications

Model No.	FFR-20A	FFR-20B
Wavelength	1550nm	1310nm
Fiber Type	9/125 um Single Mode	
Connector Type	FC/PC	
Max. Output Power	60mW	
Max. Measurement Range	60km ($\geq 1\text{dB}$, Reflection event)	
	20km ($\geq 2.5\text{dB}$, Non-Reflection event)	
Distance Accuracy(m)	$\pm (2\text{m} + 0.2\% \times \text{distance})$ (Reflection event)	
Event Dead Zone	15m (Reflection event)	

VFL Function

VFL Wavelength	650nm
VFL Output Power	$> 1\text{mW}$ optional for higher power (3, 5, 10mW)

General

Power Supply	AA Batteries 3 pcs
Battery Life (Fiber Ranger)	$\geq 5,000$ times typical measurement
Battery Life (VFL)	> 10 hours
Operating Temp.	$-5 \sim +40^{\circ}\text{C}$
Storage Temp.	$-10 \sim +60^{\circ}\text{C}$
Relative Humidity	$0 \sim 85\%$ (non-condensing)
Dimension (mm)	$190 \times 100 \times 50$
Weight (g)	450

Note: Specifications subject to change without notice

Ordering Information

FFR-20X-AA-BB

X: Laser Source type	AA: VFL Output	BB: Connector Type
A = 1550nm	01 = 1mW	FCLC (FC-LC adapter)
B = 1310nm	03 = 3mW	SCLC (SC-LC adapter)
	05 = 5mW	STLC (ST-LC adapter)
	10 = 10mW	SE (Set of FC/SC/ST)

Example: FFR-20A-03-SE (1550nm, 3mW output, connector Set)

Key Features

- Cost-effective palm size test set designed for field troubleshooting
- Easy-to-use interface
- Support 1550nm and 1310nm wavelength
- Auto power output selection
- Auto pulse width selection
- Up to 5,000 times typical measurement
- Built-in Visual Fault Locator

Standard Package

- Main unit
- FC/PC connectors
- AA battery 3 pcs
- Operating Manual
- Soft carrying case

Related Products

FFR-30

Options

Part Number Descriptions

Connector-Set A connector set of FC, SC and ST

Hybrid Adapters

MFA-FCLC FC (Male) to LC (Female)

MFA-SCLC SC (Male) to LC (Female)

MFA-STLC ST (Male) to LC (Female)

Other types of connectors - upon request

FPP-Hard-case Aluminum case