

# Optical-Fiber Line Fault Locator (OTDR)



Minion



Minion Mobile App

## Features

- Pocket OTDR
- Portable, small design
- Chargeable battery
- Mobile App. GUI

## Applications

- Wireless Access Network
- Wired Access Network
- Optical Cable Network
- Optical line characteristics
- Optical line distance measurement

Minion, a brand launched by GCI Inc., a company specializing in OTDR with a vision of connecting customers' broken values, is an IoT-based pocket OTDR. In 5G mobile communication and CCTV networks, where communication demands are increasing exponentially, OFIX quickly finds the point of failure when an optical fiber that constitutes the network is disconnected.

It has a light weight of 240g and a compact size of 130x70x30mm, powered by chargeable battery, so it is easy to carry in your pocket. In addition, since measurement results are stored indefinitely on a smartphone, measurement results can be conveniently transmitted anytime, anywhere. Therefore, Minion is an essential optical-fiber line measurement equipment for telecom service providers or companies that build, operate and maintain optical cables.

## Models

Brand	Product	Model	Fiber Mode	No. WL	WL (nm)	DR (dB)	Event/Atten. DZ (m)
Minion	GM-1000 OTDR	MO10-O28	Single Mode	1	1310	28	1.6/5
Minion	GM-1000 OTDR	MO10-S26	Single Mode	1	1490	26	1.6/5
Minion	GM-1000 OTDR	MO10-T26	Single Mode	1	1550	26	1.6/5
Minion	GM-1000 OTDR	MO10-P26	Single Mode	1	1625	26	1.6/5

### General Specifications

Parameters	Values	Etc.
Emitter Type	LD	
Safety Class	Class 1M	
Optical Wavelengths	cf. previous page	nm
Wavelength Tolerance	3	%
*Dynamic Range (SNR = 1)	cf. previous page	dB
**Event Dead Zone	cf. previous page	m
**Attenuation Dead Zone	cf. previous page	m
Pulse Width	Auto/5/10/20/50/100/200/500/1000/2000/5000/10000	ns
Range Settings	Auto/0.5/1/5/10/20/30/40/50/100/150/200	km
Sampling Points	up to 32,000 (normally 12,500)	points
Minimum Data Point Spacing	1	m
Distance Accuracy	±1	m
Loss Resolution	0.001	dB
Optical Connector	SC/APC, SC/PC, can be customized	
Trace File Format	Telcordia Universal (.SOR), issue-2 (SR-4731)	
Display	Mobile application	
Electric Power	USB micro-C	
Data Storage	Up to smartphone	
Interface	I2C, USB, UART, Bluetooth (optional wi-fi)	
Working Temp	- 10°C~+ 50 °C	
Storage Temp	- 20°C~+70 °C	
Humidity	≤ 95% (non-condensation)	
Dimension	130(L) x 70(W) x 30(D) mm	
Weight	<230 g	

\* Dynamic Range Test Settings: Span 50km, Pulse width 10us, Fiber Spool 25km, Average time 4min.

\*\* Dead Zone Test Settings: Span 10km, Pulse width 5ns, Fiber Spool 0.3km + 0.3km, Average time 4min.

### Accessories

Description	No.	Etc.
Power Adaptor (USB micro-C)	1	option
User Manual	1	
Mobile App. (Android)	1	