

# HIGH-END OTDR

*Model: QX65*



## Product overview

QX65 OTDR comes with an iLOA test function that enables complex front-line test work with less-experience, to support a variety of applications, including installation and maintenance (I&M) of mainline fiber (core network, metropolitan area network, mobile forward, mobile backhaul) and troubleshooting of access networks and FTTx. And combines industry-leading OTDR technology with OPM, VFL, SLS, network testing and fiber end inspection capabilities in one powerful handheld device.

## Features

- Wide dynamic range 32dB
- 7-inch color LCD touch screen
- Generate PDF reports quickly
- F/P analytical judgment function

- Smart map to analyze links graphically
- Maximum sampling points 250,000
- Minimum sampling resolution 0.04m
- $\leq 1$ m event blind zone,  $\leq 3$ m attenuation blind zone
- 4-points test, Bidirectional testing and Multi-Trace Analysis
- 10x3m Jumper Test
- Up to 12h battery life
- Rubber sheath design: effective shock absorption, anti-fall and anti-bump

## Specifications

OTDR	
Model	QX65
Wavelength (nm)	1310/1550/1625 $\pm$ 20
Dynamic range (dB)	32/30/28
Event blind spot(m)★①	$\leq 1$
Attenuation blind zone(m)★②	$\leq 3$
Number of optical port	2
Splitters Measurement	Max 1:32
Multi-fiber Measurement	✓
Multi-pulse Measurement	✓
Applicable fiber	SM
Maximum measuring distance	320km
Range(Km)	0.1/ 0.3/ 0.5/ 1.3/ 2.5/ 5/ 10/ 20/ 40/ 80/ 120/ 160/ 260/ 320
Pulse width(ns)	3, 5, 10, 30, 50, 100, 200, 300, 500, 1000, 2500, 5000, 10000, 20000
Distance accuracy(m)	$\pm(0.75 \text{ m} + \text{Measurement distance} \times 2 \times 10^{-5} + \text{Sampling resolution})$
Number of sampling points	Max 250000
Sampling resolution	Min 0.04m
Loss accuracy	$\pm 0.03 \text{ dB/dB}$
Reflection accuracy	$\pm 2 \text{ dB}$
OPM	
Wavelength	800 ~ 1650nm
Measure range	-70 ~ +6dBm
Measurement accuracy	$<(\pm 0.2 \text{ dB} \text{ or } \pm 5\%)$
Display resolution	0.01dB
Optical input port	2.5mm Universal ferrule for FC, SC, ST/ UPC

	LS
Wavelength (nm)	1310/1550/1625
Output power	≥-10dBm
Modulation frequency	CW, 270Hz, 1kHz, 2kHz
Laser safety rating	Class 1M or Class 1
Optical input port	OTDR port
	VFL
Wavelength (nm)	650±10nm
Output Power	10mW
Modulation mode	CW, CHOP (2 Hz)
Laser safety rating	Class 3R
Optical input port	2.5 mm Universal ferrule type for FC, SC, ST
	RJ45
Applicable network cable	CAT5, CAT6
Distance of Cable Collation	300m
Distance of emitting signal	300m
	WIFI Module
Data transmission	✓
Remote Control	✓
	GPS Module (Option)
Location accuracy	< 50m
Real-time Monitoring	support
	Fiber Inspection Probe (Option)
Pass / Fail	✓
Magnification	400X
Resolution(um)	≥1.0
Electrical interface	USB2.0
Optical Connector	FC/UPC, SC/UPC, ST/UPC
CMOS size	1/3 inch
	General parameters
Link Map	✓
Pass/Fail judgment	✓
Distance unit	m, km, mile, kf
PC Analysis Software	✓
Language	English, Español, Chinese, Português, Français, Русский, ภาษาไทย, Korea
Optical connector	FC/UPC (SC/UPC/APC, LC/UPC/APC, FC/APC Optional)
Display screen	7-inch touch screen (Resolution: 1024 × 600)
Port	Charge port × 2, 12V - 2.5A & Type C

Operating temperature	-10 ~ 50°C (0 ~ 40° C when AC adapter is being used. 0 to 35°C when battery is being charged)
Storage temperature	-20 to 60° C
Altitude	4000 m
Humidity	0 to 90% RH (20 to 90% with 739874 AC adapter, non-condensing)
Power requirements	100-240V AC, 50/60 Hz (AC adapter)
Battery	7.4V, 10500mAh, ≥77Wh
LED Light illumination	>15000mcd
Operating time★③	12 hours
Data Storage	Internal storage: ≥10000 traces, External storage: USB memory
Dimensions	232 mm (W) × 161 mm (H) × 70 mm (D)
Weight	1.6 kg (including internal battery and protectors, excluding OTDR unit and options)

Notes:

★①. Minimum pulse width, return loss: ≥55 dB (≥40 dB for 850/1300 nm), group refractive index: 1.5, the unsaturated peak level <1.5dB.

★②. Minimum pulse width, group refractive index: 1.5, the backscatter level is >0.5dB of the normal level. For SMF, at 1310nm, return loss: ≥55dB. For MMF, at 850nm, return loss: ≥40dB.

★③. New Battery

All specifications valid at 23° C ± 2° C (73.4° F ± 3.6° F) unless otherwise specified.

## Packing

NO.	Name	Quantity	Remarks
1	OTDR host	1	
2	Fiber Optic Clean Pen	1	
3	Shoulder strap	1	
4	Power cord	1	
5	Touch pen	1	
6	Quick guide, Calibration certificate, Test report...	1	
7	Carrying bag	1	