

# 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
Spliters 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	$<(\pm 0.2 \text{ dB or } \pm 5\%)$
Display resolution	0.01dB
Optical input port	2.5mm Universal ferrule for FC, SC, ST/ UPC

	<b>LS</b>
Wavelength (nm)	1310/1550/1625
Output power	$\geq -10\text{dBm}$
Modulation frequency	CW, 270Hz, 1kHz, 2kHz
Laser safety rating	Class 1M or Class 1
Optical input port	OTDR port
	<b>VFL</b>
Wavelength (nm)	$650 \pm 10\text{nm}$
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
	<b>RJ45</b>
Applicable network cable	CAT5, CAT6
Distance of Cable Collation	300m
Distance of emitting signal	300m
	<b>WIFI Module</b>
Data transmission	✓
Remote Control	✓
	<b>GPS Module (Option)</b>
Location accuracy	< 50m
Real-time Monitoring	support
	<b>Fiber Inspection Probe (Option)</b>
Pass / Fail	✓
Magnification	400X
Resolution(um)	$\geq 1.0$
Electrical interface	USB2.0
Optical Connector	FC/UPC, SC/UPC, ST/UPC
CMOS size	1/3 inch
	<b>General parameters</b>
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 be 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	