



Setting the Standards

OTA-420A



All in One Complete Optical Tester and Analyzer

Description

Oxin OTA series Optical Time Domain Reflectometer (OTDR) is the new generation of intelligent meter for the detection of fiber communications systems. With the popularize of optical network construction in cities and countrysides, the measurement of optical network became short and disperse, OTA is specially designed for that kind of application, its economic and also have outstanding performance.

Features and Benefits

1. 7 inch TFT-LCD (touch screen)
2. 1625nm online detection module with filter is available as a option for a online FTTx/PON detection
3. Multi-measuring mode, simple to use, finish measurement by just one button
4. Realtime measuring function, convenient to monitor the splicing process
5. Internal large power visual laser source for accurate positioning the closer fault point
6. Optical power meter function is offered as a option
7. Warning function could prevent module of OTDR damaged by optical signal
8. Integrated with 2 main USB and one sub USB port, for controlling by PC or connect external instrument
9. Integrated with Screenshot function
10. PC remote access and control function is available via RJ45 interface or the optional WIFI module
11. Support chinese and english input, friendly interface, analog keyboard capable
12. Integrated with 4G internal memory. Storage more than 40000 groups curve
13. Provide data simulation software to process,generate and print report
14. Long working hours for outdoor operation

Applications

- Measure the loss of splicing points, optical connectors and adapters
- Measure the loss of single fiber or cable
- Measure the length of cable, set different refractive index for various fibers
- Locate the position of broken point, optical connector and adapter
- Measure the discrete reflection ratio between SR points
- Measure return loss for whole fiber circuit including connecting points and s points

SM OTDR OTA-420A

- ✓ Testing 1490 nm FTTH Solutions
- ✓ Testing 1625 nm WDM Solutions
- ✓ Testing 1550 & 1310 nm
- ✓ Power Meter
- ✓ VFL



	Parameter	Value
VFL Characteristics	Wavelength	650nm
	Power / Modulation	10mW / CW-2Hz
	Output power	-5 dBm
	Range	12 Km
	Connector	FC/UPC
	Parameter	Value
Power meter Characteristics	Wavelength Range	800 ~ 1700 nm
	Calibrated wavelength ($\pm 10\text{nm}$)	850 / 1300 / 1310 / 1490 / 1550 / 1625 / 1650 nm
	Test Range	Type A: -65 ~ +5 (standard) Type B: -40 ~ +23 dB (optional)
	Resolution	0.01 dB
	Accuracy	$\pm 0.35\text{dB} \pm 1\text{nW}$
	Modulation identification	270 / 1k / 2kHz, $P_{\text{input}} \geq -40\text{dBm}$

OTDR OTA-420A Standard Package



1. SM OTDR OTA-420A
2. AC/DC Adapter & Cable
3. Strap

4. Trace Analyzing Software (CD)
5. External Battery
6. Carrying Case



SM OTDR OTA-420A

Ordering Information	Description	Part Number
	Optical Time Domain Reflectometer (OTDR)	OTA-420A
Packaging	Description	
	Cardboard box, 1 unit per box	
OTDR Characteristics	Parameter	Value
	Applicable fiber	SM
	Optical interface	FC/UPC (PC, and APC are selectable)
	Operating wavelength	1310 / 1490 / 1550 / 1625 nm
	Event dead zone	4m
	Attenuation dead zone	1m
	Distance range	0.5, 2, 5, 10, 20, 40, 80, 120, 160 Km
	Distance Resolution	0.01 m
	Distance uncertainty	$\pm(1 \text{ m} + 3 \times 10^{-5} \times \text{distance} + \text{sampling resolution})$
	Reflectance Accuracy	$\pm 4\text{dB}$
	Dynamic range	35/ 35/ 35/ 35 dB
	Pulse width	3, 5, 10, 20, 50, 100, 200, 500 ns 1, 2, 5, 10, 20 μs
	Linearity	$\leq 0.05 \text{ dB/dB}$
	Loss threshold	0.01 dB
	Loss resolution ratio	0.001 dB
	Sampling resolution	$\geq 0.25 \text{ m}$
	Sampling point	$\geq 128,000 \text{ points}$
Physical Characteristics	Parameter	Value
	Dimensions	253 mm x 168 mm x 73.5 mm
	Weight	1.5 Kg (battery included)
	Power supply	7.4V/4.4Ah Lithium battery Operating time: 12 hours Charging time: < 4 hours
	Interfaces	RJ45 port, USB port
	Data storage	Internal memory: 4GB (40,000 groups of curve)
Mechanical Characteristics	Parameter	Value
	Operating temperature	-40 ~ +50 °C
	Storage temperature	-20 ~ +75 °C
	Relative humidity	$\leq 95\%$ (non-condensation)



Oxin Group S.A.

Head-office: 5, bd du General Martial Valin,
75736 Paris Cedex 13 - France

Web: www.OxinGroup.net

E-mail: info@oxingroup.net

OTA-420A Data Sheet
VER 2.2EN 2017-08-09

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