

ACLF420 Optical Network Tester



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ACLF420 series optical network tester is the first multi-functional intelligent and high-precision test instrument of Android system style. It uses "Android" UI design, adopts 4.3-inch capacitive touchscreen, supports multi-point touch, and is more comfortable and simple to operate. It has 12 functional modules: AUTO OTDR, Expert OTDR, event map, optical power meter, visual fault location, stable laser source, RJ45 cable tracker, RJ45 cable sequence, RJ45 cable length test, optical loss test, flashlight. It can meet various test requirements in different occasions. OTDR has 1m ultra short event blind area, the maximum dynamic range is 32dB, 8G of storage which can store 200000 curves; it uses 4000mAh high-density and high-capacity polymer lithium battery, and operating time is more than 10 hours under high brightness. It has accurate test precision and information collection ability, and the powerful internal analysis software can provide accurate data service for terminal testers.

ACLF420 series are used to measure the fiber and cable length, loss, connection quality and other parameters. They are widely used in the construction of Metropolitan area network communication system, line maintenance and emergency repair test, research and production measurement of optical fiber and cable.



- Optical Power Meter
- Stable Laser Source
- Multi task simultaneous operation

- Support frequency/wave identification, data acquisition
- Support CW/modulation/twins output, power is adjustable
- VFL and LS run in the background

Function configuration

Remote upgrade

AUTO OTDR, Expert OTDR, event map, OPM, VFL, LS, RJ45 cable tracker, RJ45 cable sequence, RJ45 cable length test, optical loss test, flashlight

Technical Specifications

OTDR	
Model	ACLF420
Type	G.652 SM
Wavelength	1310/1550nm
Dynamic Range	28/26dB
Event Blind Zone	1.2m
ATT Blind Zone	5m
Test Range	500m/1km/2km/4km/8km/16km/32km/64km/100km
Pulse Width	3ns/5ns/10ns/20ns/30ns/50ns/80ns/160ns/320ns/500ns/800ns/1μs/2μs/3μs/5μs/8μs/10μs/20μs
Ranging Accuracy	± (1m+Sample interval+0.005%×Test distance)
Linearity	≤0.05dB/dB
Sample Points	16k-256k
Sample Resolution	0.05m-8m
Loss Resolution	0.001dB
Loss Threshold	0.01dB
Range Resolution	0.001m
Refractive Index	1.00000~2.00000, 0.00001 Step
Reflection Accuracy	±3dB
File Format	SOR Standard File Format
Loss Analysis	4-point method /5-point method
Laser Safety Level	Class II
Connector	FC/UPC (Interchangeable SC, ST)
Refresh Rate	3Hz (Typ.)
Multitasking	Support

OPM	
Wave Range	800nm~1700nm
Calibration Wave	850/980/1300/1310/1490/1550/1625/1650nm
Test Range	-70~+10dBm/-50~+26dBm
Resolution	0.01dB
Uncertainty	±5%
Frequency Identification	CW/270/330/1k/2kHz(Use inner LS)
Connector	Universal FC/SC/ST
Wave Recognition	Support
Optical Loss Test	
Wavelength	Consistent with LS
Test Range	Consistent with OPM
IL Test	Support
RJ45 Cable Length	
Test Distance	≥300m

LS	
Wavelength	Consistent with OTDR
Laser Type	FP-LD
Power	≥-5dBm
Stability	CW, ±0.5dB/15min (After 15min of preheating)
Connector	FC/UPC (Interchangeable SC, ST)
Mode	CW/270Hz/330Hz/1kHz/2kHz
Wave Recognition	Support
VFL	
Wavelength	650nm±20nm
Output Power	≥10mW
Mode	CW/1Hz/2Hz
Connector	FC/UPC (Interchangeable SC, ST)
Laser Safety Level	Class III
RJ45 Cable Tracker	
Mode	Digital/Analog Tracking
Distance	≥300m
Online/Line Pair Tracking	Support

Others	
Display	4.3 inches 800×480 IPS TFT - LCD Multi touch capacitive touch screen
Power Supply	AC/DC adapter: input: 100V~240V, 50/60Hz, 0.6A output: 5V, 2A, Lithium battery: 3.7V, 4000mAh
Battery Working	High brightness, Continuous test > 8 hours
Data Storage	Internal storage: 8GB, ≥20 thousand curves
Data Interface	USB Type C
Fingerprint Identification	Optional
Working Temperature	-10°C~+50°C
Storage Temperature	-40°C~+70°C
Relative Humidity	0~95% Non Condensing
Weight	About 0.4kg (Battery included)
Size	174mm×92mm×45mm