

ACLF420

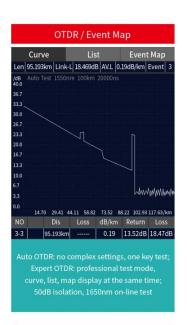
ACLF420 Optical Network Tester



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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



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	
Туре	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	\pm (1m+Sample interval+0.005% $ imes$ 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	

	ОРМ
Wave Range	800nm~1700nm
Calibration Wave 85	0/980/1300/1310/1490/1550/1625/1650nm
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	on 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, \pm	0.5dB/15min (After15min 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	
P I/	IS Cable Tracker	

Digital/Analog Tracking

≥300m

Support

Mode

Distance

Online/Line Pair Tracking

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