

Craftsman spirit, Legendary quality

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Hicloud



H430 Optical Network Tester

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H430 Optical Network Tester



Hicloud H430 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, laser ranging, optical loss test, flashlight. It can meet various test requirements in different occasions. OTDR has 1m ultra short event blind zone, 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.

Hicloud H430 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.

OTDR / Event Map

Curve List Event Map

Len	Loss	Link	AVL	Event
95.193km	18.469dB	0.19dB/km	Event	3

Auto OTDR: no complex settings, one key test; Expert OTDR: professional test mode, curve, list, map display at the same time; 50dB isolation, 1650nm on-line test

Laser Ranging

40m precision ranging, ±2mm test accuracy; Support area, volume, angle, speed etc; Multi test mode, store measurement data

RJ45 Cable Tracker

Digital radar tracking, strong anti-jamming ability; According to the distance of target, the prompt frequency is different; Support online tracking/tracking by line pair

RJ45 Cable Length

RJ45 cable sequence test, cable length test; The maximum distance is 300 meters

- 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, laser ranging, optical loss test, flashlight

Technical Specifications

		OTDR						
Model	H430-S1	H430-S2	H430-S3	H430-P1F1	H430-P1F2	H430-P2F1	H430-P2F2	H430-M1
Type	SM							MM
Wavelength	1310/1550nm			1625nm		1650nm		850/1300nm
Dynamic Range	30/28dB	32/30dB	35/33dB	26dB	28dB	26dB	28dB	24/26dB
Event Blind Zone	1.2m							1.5m
ATT Blind Zone	5m							6m
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

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

RJ45 Cable Length

Test Distance	≥300m
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Others

Display	4.3 inches 800×480 IPS TFT - LCD Multi touch capacitive touch screen
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Power Supply

AC/DC adapter: input: 100V~240V, 50/60Hz, 0.6A output: 5V, 2A, Lithium battery: 3.7V, 4000mAh
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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

Laser Ranging

Test Range	0.05~40m
Accuracy	±2.0mm
Laser Type	620~690nm
Laser Safety Level	Class II, <1mW

Optical Loss Test

Wavelength	Consistent with LS
Test Range	Consistent with OPM
IL Test	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