HD4102X OTDR

Optical Time Domain Reflectometer

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DATASHEEET/JAN 2018 **Test Equipment**

Overviews

This OTDR HD4102X has a 7-inch full touch screen and integrates automatic OTDR, expert OTDR, event map, OPM, VFL, LS and other functions. The OTDR has a standard dynamic range of 32dB and can achieve accurate testing up to 100km. It can achieve a minimum event dead zone of 3M and a maximum sampling resolution of 2.5cm. The OTDR is equipped with 4600mAh high density and large capacity polymer lithium battery, intelligent power saving management as well as power supply/charging by a power bank .
This can be used to measure length, loss, connection quality and other parameters of all kinds of optical fiber and cable. It is widely used in the engineering construction, line maintenance and emergency rescue test of FTTH, MAN and secondary backbone network communication system, as well as the development and production measurement of optical fiber and cable.

Application

- Standard 32dB dynamic range, 256k data sampling point；
- Automatic monitoring function of communication light；
- Support Bellcore GR196 and SR-4731file format；
- Expert OTDR： Simultaneously display of expert measurement, curve, list, MAP；
- Light source which supports continuous/modulated mode output；
- Automatic OTDR： One-click test with no complicated setup .

Welcome to Hondao Optic Ltd . If there are any question ,contact us anytime.

Specification

Model	HONDAO OTDR HD4102X
Wavelength	1310nm/1550nm±20nm
Dynamic Range	32dB/30dB
Event Blind Zone	1.5m
ATT Blind Zone	8m
Accuracy（m）	±（0.75m＋distance×0.0025％＋sampling period） （ Regardless of refractive error ）（m）
Resolution（m）	0.025, 0.05, 0.1, 0.2, 0.5, 1, 2, 4, 8, 16, 32
Distance（km）	0.4, 0.8, 1.6, 3.2, 6.4, 16, 32, 64, 128, 256, 512
Pulse width（ns）	5, 10, 30 ,80, 160, 320, 640, 1280, 5120, 10240, 20480
Max. sampling point	256k
Linearity（dB/dB）	0.03
Loss resolution（dB）	0.001
Refractive index setting range	1.00000～1.99999(0.00001 stepping)
Distance unit	Kilometers, meters, thousands of feet, feet
Display	800×480, 5.6 "TFT Color LCD(capacitive touch screen)
Optical output port	FC/UPC（standard，SC/UPC is optional）
Language	Simplified Chinese, English (please contact us for more language support)
External port	USB Type C, Micro SD
Power supply	AC/DC adapter： Input：AC100V～240V, 50/60Hz Output：DC/5V/2A Internal lithium battery：3.7V，4600mAh
Battery working time	High brightness，standby time≥6h
Environmental suitability	Working temperature：0℃～+40℃(battery charging：5℃～40℃) Storage temperature：-20℃～+60℃(battery：-20℃～60℃) Relative humidity：5%～95%，no condensing

OPTICAL POWER METER		
Wave Range	850nm~1650nm	
Interface Type	Universal Joint FC/SC/ST	
Test Range	-50dBm～+26dBm	
Uncertainty	±5%	
Frequency Identification	CW/270/330/1k/2kHz	
Calibration Wavelength	850/980/1300/1310/1490/1550/1625/1650nm	
OPTICAL LIGHT SOURCE		
LD Type	FP-LD	
Output Wavelength	1550nm±20nm	1310nm/1550nm±20nm
Output Power	≥-5dBm	
Modulation Frequency	270/330/1k/2kHz	
Stability	CW，±0.5dB/15min（Test after15mins of preheating）	
Connector	FC/UPC（Interchangeable SC、ST）	
VFL		
Work Wavelength	650nm±20nm	
Output Power	≥2mW	
Mode	CW/1Hz/2Hz	
Connector	FC/SC/ST	

Quick automatic test

Automatic testing function allows users don't need to know more details about the instrument operation which makes test steps much easier . You only need to enter the automatic test interface, connect optical fiber to corresponding OTDR port, then click on the 【Test】 button, the instrument will automatically set the corresponding test conditions and test results are given including test curve and event list etc.

Automatic light detection and alarm function

When OTDR tests fiber links, the test results will be inaccurate if there are communication optical signals in the fiber. It can even cause irrecoverable damage to the detector inside the instrument. It has the function of automatic monitoring of communication optical signals in the fiber under test. As long as the fiber under test is connected to optical port, it will automatically sense and monitor whether there is communication optical signals in the fiber in the test phase. Once the optical signals are detected, alarm information will be given in time to provide timely protection for the instrument.

Ordering

No.	Name	Comment
1	OTDR	Internal lithium battery
2	Power cord assembly	Input：AC100V～240V, 50/60Hz Output：DC/5V/2A
3	TF card	16G capacity，installed internally with analysis software
4	User's Manual	-
5	Certificate of conformity	-
6	Soft bag	-

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