

Smart optical time-domain reflectometer

Smart OTDR series

NK5000/NK5200



5 inch
5 inch color touch LCD

MAP
Event Map

1m
1m Event blind zone

15H
15h Super long standby



Succinct operation
Easy to operate



Event Map
Visual analysis



Signal optical detection
Effective protection of APD



Remote upgrade
Latest technical support



SOR Batch processing
Fast data processing

NovKer® | Smart OTDR series

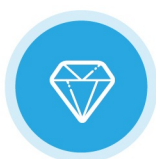
NovKer--- Quality assurance promises, technology to create future

NK5000 Smart series optical time domain reflectometer is a new generation of portable and intelligent measuring instrument designed by NovKer Communication Technology for testing optical fiber communication system. Adopt 5 inch color touch screen, button/touch dual operation; It integrates the functions of optical time domain reflectometer and visual fault location, has a simple interface and is easy to operate, and can carry out field test and maintenance quickly and efficiently. Intelligent power-saving management, 15 hours long standby, efficient protection of test dimension Continuous

Applications: It is mainly used to measure the length, loss and connection quality of all kinds of optical fibers and cables, and can be widely used in engineering construction, line maintenance and testing, emergency repair, and the development and production of optical fibers and cables.

Simple and intuitive operation mode, precise testing and precise analysis of the design concept to make on-site testing operations simple.

Product features



5 inch touch / key dual mode
Effective protection of APD



OTDR
VFL
1m event blind area



Event Map
OPM/ Stable laser source
NovKer IOT Cloud platform



One key automatic test
Unique diagnostic function
Quick setup



Automatic data storage
SOR Batch processing
Remote upgrade function



15h Super long standby
1.5 meter drop test
-10°C~50°C

Technical Specifications

Model	NK5000	NK5200
OTDR		
Fiber Type	G.652	
Wavelength	1310nm±20nm/1550nm±20nm	
Dynamic Range	28dB/26dB	32dB/30dB
Event Blind Zone	1.5m	
ATT Blind Zone	8m	
Test Range	500m/1km/2km/4km/8km/16km/32km/64km/128km	
Pulse Width	5ns/10ns/30ns/50ns/80ns/160ns/320ns/ 500ns/800ns/1000ns/3000ns/5000ns/8000ns/10000ns	
Ranging accuracy	± (0.75m+ Sample interval +0.005%×Test distance)	
Loss accuracy	±0.05dB/dB	
Sampling Points	16k~128k	
Sampling resolution	0.05m~16m	
Reflection accuracy	±3dB	
File format	SOR Standard file format	
Loss Analysis	4-point method /5-point method	
Laser Safety Level	Class II	
Data Storage	Internal: ≤1000 curves; External: 4G bit	
Connector	FC/UPC (Interchangeable SC、ST)	
Refresh Rate	3Hz (Typ.)	
Data Interface	USB	
VFL		
Wavelength	650nm±20nm	
Output Power	≥ 10 mW	
Mode	CW/1Hz/2Hz	
Connector	FC/SC/ST	



VFL	
Wavelength	650nm±20nm
Output Power	≥2mW
Mode	CW/1Hz/2Hz
Connector	FC/SC/ST
Others	
Display	5 inch Color LCD + Touch Screen
Power Supply	AC/DC Adapter: Input: 100V~240V, 50/60Hz, 0.6A Output: 12V~19V, 1.5A Li-Battery: 7.4V, 5200mAh
Battery working hours	≥10h
Operating Temperature	-10℃~+50℃
Storage Temperature	-40℃~+70℃
Relative Humidity	0~95%Non Condensing
Weight	≤1kg
Size	165mm×155mm×58mm
Functions of Host: OTDR/Event Map/VFL	

NOTE:

- ① Test temperature is 25℃±2℃, the maximum pulse width, average time is more than 100s.
- ② Test conditions of Event Blind Zone are minimum range, minimum pulse width, reflection loss of optical fiber end surface (> 45dB), typical value.

Configuration List

NO.	Name	Quantity	Remarks
1	Host	1	Battery included
2	AC/DC Adapter	1	
3	User's Manual	1	
4	U-disk (including analysis software/User's manual)	1	
5	Touch pen	1	
6	SC adapter	1	
7	Calibration Certificate	1	
8	Qualification Certificate/ After-sales Service Guarantee Card	1	
9	Clean cotton slices	10	
10	Leather knob	1	
11	Instrument backpack (with straps)	1	