



Multi-function optical time-domain reflectometer

NK6000 serials Multi-function optical time-domain reflectometer



5.6 inch
5.6 inch color touch LCD

8
8 functional modules

45 dB
45dB dynamic range

20H
20h Super long standby

8 function modules
meet all your test

iOLM
Intelligent Optical
Link Mapper

Signal detection
Effective protection
of APD

Remote upgrade
latest technical
support

SOR Batch processing
Data fast processing



Product features

High performance test

5.6 inch color TFT LCD display, touch / key dual operation
Dynamic range: 35/33dB, maximum to 45dB
Less than 0.8 meters ultra short event blind area, testing optical fiber jumper freely.
Link optical nondestructive testing
Signal optical detection function (Effective protection of APD)

Multifunctional test - Standard configuration

OTDR
Stable laser source
Visual red light fault location (VFL)
Optical power meter (OPM)

Multifunctional test - high configuration

Intelligent Optical Link Mapper [iOLM]
Optical fiber end face detection
Optical loss test
Fault location

Convenient operation

One key automatic test
Unique diagnostic function for test results
Multi wavelength simultaneous testing function
Ethernet Remote control function

Convenient data processing

English and Chinese input function
Automatic data storage
SOR Batch processing
Remote upgrade function
NovKer IOT Cloud Platform

High reliability

20h Super long standby
1.5 meter drop test
Waterproof and splash proof
Operating temperature -10°C~50°C

Technical Specifications

OTDR															
Model	S1	S2	S3	S4	T1	T2	T3	T4	T5	T6	F1	M1	SM1	SM2	
Type	SM											MM	SM/MM		
Wavelength	1310/1550nm				1310nm /1490nm /1550nm		1310nm /1550nm /1625nm		1310nm /1550nm /1650nm		1310nm /1490nm /1550nm /1625nm		850nm /1300nm	850nm /1300nm /1310nm /1550nm	
MaxDynamicRange(dB)	35/33	38/36	42/40	45/43	32/30/30	37/35/35	32/30/30	37/35/35	32/30/30	37/35/35	37/35/35/33	26/28	26/28/35/33	26/28/37/35	
Event Blind Zone	1m						0.8m						1m		
ATT Blind zone	6m						6m						6m		
Test Range	500m/1km/2km/4km/8km/16km/32km/64km/128km/256km														
Pulse Width	3ns/5ns/10ns/30ns/50ns/80ns/160ns/320ns/500ns/800ns/1000ns/3000ns/5000ns/8000ns/10000ns/20000ns														
Ranging accuracy	± (0.75m+ Sample interval +0.005% × Test distance)														
Loss accuracy	±0.05dB/dB														
Sample Points	16k~256k														
Sample 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														
Refresh Rate	3Hz (Typ.)														
Data Storage	Internal storage: ≤3000 curves; External storage: 4G bit														
Connector	FC/UPC (Interchangeable SC、ST)														
Data Interface	USB、Mini-USB、10M/100M Ethernet Port														
OPM															
Wavelength range	800nm~1700nm														
Connector	Universal FC/SC/ST														
Test scope	-50dBm~+26dBm														
Uncertainty	±5%														
Calibration wavelength	850nm/980nm/1300nm/1310nm/1490nm/1550nm/1625nm/1650nm														



LS	
Wavelength	Consistent with OTDR output wavelength
Output power	≥-5dBm
Stability	CW, ±0.5dB/15min (Test after 15 minutes of preheating)
Connector	FC/UPC (Interchangeable SC、ST)
VFL	
Wavelength	650nm±20nm
output power	≥ 10 mW
Mode	CW/1Hz/2Hz
Connector	FC/UPC (Interchangeable SC、ST)
The Optical Loss Test index refers to the above light source and optical power meter index.	
Others	
Display	5.6 inch color LCD + touch screen
Power supply	AC/DC adapter: Input: 100V~240V, 50/60Hz, 0.6A, Output: 12V~19V, 1.5A, Lithium battery: 7.4V, 5200mAh
working temperature	-10°C~+50°C
Storage temperature	-40°C~+70°C
relative humidity	0~95%, Non Condensing
Weight	≤1.2kg
Size	227mm×160mm×70mm
Functions of Host: OTDR/OPM/VFL/LS/Event Map/Fiber End Detection (Additional purchase detector) /Optical Loss Test	

NOTE:

- ① Test temperature is 25°C±2°C, the maximum pulse width, average time is more than 30s.
- 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	U disk (including analysis software/ User's manual)	1	
4	Touch pen	1	
5	Data line	1	
6	OTDR SC adapter	1	
7	OPM SC adapter	1	
8	Instruction manual	1	
9	Calibration certification	1	
10	Certificate/ Warranty card	1	
11	Clean cotton piece	10	
12	Leather knob	1	
13	Special backpack for instrument	1	