

NK6800 Technical specifications

| OTDR | | | | | | | | | | | | | | | | |
|--|---|----|-------------|-------|-------|-------|------------------------|----------|------------------------|----------|------------------------|-------------|--------------------------------|-------------|---------------|-------------------------------|
| Model | S1 | S2 | D0 | D1 | D2 | D3 | D4 | T1 | T2 | T3 | T4 | F1 | M1 | SM1 | | |
| Type | SM | | | | | | | | | | | | | MM | SM/MM | |
| Wavelength | 1650nm | | 1310/1550nm | | | | 1310nm /1490nm /1550nm | | 1310nm /1550nm /1625nm | | 1310nm /1550nm /1650nm | | 1310nm /1490nm /1550nm /1625nm | | 850nm /1300nm | 850nm /1300nm /1310nm /1550nm |
| MaxDynamicRange(dB) | 33 | 38 | 32/30 | 35/33 | 38/36 | 42/40 | 45/43 | 38/36/36 | 32/30/30 | 42/40/40 | 42/40/40 | 37/35/35/35 | 26/28 | 26/28/35/33 | | |
| Event Blind Zone ^a | 1m | | | 0.8m | | | 0.8m | 1m | 0.8m | 0.8m | 1m | 1m | | | | |
| ATT Blind zone ^b | 5m | | | 4m | | | 4m | 5m | 4m | 4m | 5m | 5m | | | | |
| Test Range | 100m/500m/1.25km/2.5km/5km/10km/20km/40km/80km/125km/260km/420km | | | | | | | | | | | | | | | |
| Pulse Width | 3ns/5ns/10ns/20ns/30ns/50ns/80ns/100ns/200ns/300ns/500ns/800ns/1us/2us/3us/5us/8us/10us/20us | | | | | | | | | | | | | | | |
| Ranging accuracy ^c | ± (0.75m+ Sample interval +0.005% × Test distance) | | | | | | | | | | | | | | | |
| Loss accuracy | ±0.001dB | | | | | | | | | | | | | | | |
| Max Sample Points | ≥256k | | | | | | | | | | | | | | | |
| Sample Resolution | 0.05m~4m | | | | | | | | | | | | | | | |
| Reflection Accuracy | 0.03dB/dB | | | | | | | | | | | | | | | |
| File Format | SOR Standard File Format | | | | | | | | | | | | | | | |
| Loss Analysis | 4-point method /5-point method | | | | | | | | | | | | | | | |
| Laser Safety Level | Class II | | | | | | | | | | | | | | | |
| Data Storage | ≥12GB | | | | | | | | | | | | | | | |
| Connector | FC/UPC (Interchangeable SC、ST) | | | | | | | | | | | | | | | |
| OPM | | | | | | | | | | | | | | | | |
| Wavelength range | 800nm~1700nm | | | | | | | | | | | | | | | |
| Connector | Universal FC/SC/ST | | | | | | | | | | | | | | | |
| Test scope | -50dBm~+26dBm (标配) /-70dBm~+10dBm | | | | | | | | | | | | | | | |
| Uncertainty | ±5% | | | | | | | | | | | | | | | |
| Calibration wavelength | 850nm/1300nm/1310nm/1490nm/1550nm/1625nm/1650nm | | | | | | | | | | | | | | | |
| LS | | | | | | | | | | | | | | | | |
| Wavelength | Consistent with OTDR output wavelength | | | | | | | | | | | | | | | |
| Output power ^d | ≥-5dBm | | | | | | | | | | | | | | | |
| Stability | CW, ±0.5dB/15min (Test after 15 minutes of preheating) | | | | | | | | | | | | | | | |
| Connector | FC/UPC (Interchangeable SC、ST) | | | | | | | | | | | | | | | |
| VFL | | | | | | | | | | | | | | | | |
| Wavelength | 650nm±20nm | | | | | | | | | | | | | | | |
| output power | ≥10mW | | | | | | | | | | | | | | | |
| 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 | 7 inch color touch screen, resolution 1024X600 | | | | | | | | | | | | | | | |
| Power supply | AC/DC adapter: Input: 100V~240V, 50/60Hz, 0.6A, Output: 12V~19V, 1.5A, Lithium battery: 7.4V, 5200mAh | | | | | | | | | | | | | | | |
| working mperature | -10°C~+50°C | | | | | | | | | | | | | | | |
| Storage temperature | -40°C~+70°C | | | | | | | | | | | | | | | |
| relative humidity | 0~95%, Non Condensing | | | | | | | | | | | | | | | |
| Weight | ≤1.2kg | | | | | | | | | | | | | | | |
| Size | 227mm×160mm×70mm | | | | | | | | | | | | | | | |
| Data interface | USB-A x 2, Type-C port, RJ45 LAN 100/1000Mbit/s | | | | | | | | | | | | | | | |
| Power dissipation | ≤6W | | | | | | | | | | | | | | | |
| Functions of Host: OTDR/OPM/VFL/LS/Event Map/Fiber End Detection/Optical Loss Test /Ethernet Remote/Network test | | | | | | | | | | | | | | | | |

Configuration list

Note: a.Using 3ns pulses, the reflection coefficient is typical of -35dB to -55dB.
 b.Using a 3ns pulse, the reflection coefficient is a typical value of -55dB (1310nm).
 c.Uncertainties caused by the refractive index of light are not included.
 d.The output power of the MM 850/1300nm light source is about -24dBm, and the output power of the special 1650nm (38dB) light source is about -24dBm.

| NO. | Name | Quantity | Remarks | NO. | Name | Quantity | Remarks |
|-----|--|----------|---------|-----|---------------------------------|----------|---------|
| 1 | Host | 1 | | 7 | User's Manual | 1 | |
| 2 | AC/DC power adapter | 1 | | 8 | Calibration certification | 1 | |
| 3 | U disk (containing analysis software/ User's Manual) | 1 | | 9 | Certificate/ Warranty card | 1 | |
| 4 | Data line | 1 | | 10 | Clean cotton piece | 10 | |
| 5 | OTDR SC adapter | 1 | | 11 | Leather knob | 1 | |
| 6 | OPM SC adapter | 1 | | 12 | Special backpack for instrument | 1 | |

NK6800 High performance OTDR

Product overview



NK6800 series high-performance OTDR adopts 7-inch color screen, which makes the operation easier. It integrates multifunction functions to help customers solve the communication link field test and later maintenance more effectively. The maximum dynamic range is 45dB. It can be penetrated through the light splitter to effectively improve the performance in PON network test. NK6800 series are mainly used to measure the length, loss and connection quality of optical fiber and cable. It is widely used in engineering construction, line maintenance test, emergency repair, development and production measurement of optical fiber and optical cable. It is mainly used in urban trunk line, backbone network and metropolitan area network.

Product features

- Quad-core processor, Linux system, smooth control
- HD multi-touch capacitive screen, resolution 1024X600
- The min event blind area is 0.8m, the max dynamic range is 45dB
- PON network splitter test, up to 1/64 support
- Large storage capacity, internal storage >12GB
- Standard SOR file output format
- Generate PDF test and diagnosis report with one click
- The file name can be output in both Chinese and English
- Integrate OTDR/VFL/LS/OPM/Event Map/Loss Test/End Face Identifie/Ethernet Remote/Network test



7 inch screen
Human-computer interaction enrichment



Detection of online test
Caution function



Support Chinese and English input



Report printing
Files batch processing



Multi wavelength simultaneous test
Results automatic analysis