

NOVKER NK6800 OTDR – Technical Comparison

Technical Specification	NK6800-D0	NK6800-T2	NK6800-T3
OTDR Type	High-Performance	High-Performance	High-Performance
Fiber Type	Single Mode G.652	Single Mode G.652	Single Mode G.652
OTDR Wavelengths	1310 / 1550 nm	1310 / 1550 / 1625 nm	1310 / 1550 / 1625 nm
Dynamic Range @ 1310 nm	32 dB	32 dB	42 dB
Dynamic Range @ 1550 nm	30 dB	30 dB	40 dB
Dynamic Range @ 1625 nm	—	30 dB	40 dB
Maximum Dynamic Range	32 dB	32 dB	42 dB
Event Dead Zone	0.8 m	1 m	0.8 m
Attenuation Dead Zone	4 m	5 m	4 m
Maximum Test Range	420 km	420 km	420 km
Pulse Width	3 ns – 20 μ s	3 ns – 20 μ s	3 ns – 20 μ s
Maximum Sample Points	256k	256k	256k
Sample Resolution	0.05–4 m	0.05–4 m	0.05–4 m
Ranging Accuracy	$\pm(0.75 \text{ m} + \text{sample interval} + 0.005\% \times \text{distance})$	$\pm(0.75 \text{ m} + \text{sample interval} + 0.005\% \times \text{distance})$	$\pm(0.75 \text{ m} + \text{sample interval} + 0.005\% \times \text{distance})$
Loss Accuracy	$\pm 0.01 \text{ dB}$	$\pm 0.01 \text{ dB}$	$\pm 0.01 \text{ dB}$
PON Testing	Up to 1:32	Up to 1:32	Up to 1:64
Live Fiber Testing	—	Yes, 1625 nm	Yes, 1625 nm
Live Port Filter	—	Yes	Yes
Event Map	Yes	Yes	Yes
Optical Loss Analysis	Yes	Yes	Yes
Optical Power Meter (OPM)	Yes	Yes	Yes
OPM Measurement Range	-50 to +26 dBm	-50 to +26 dBm	-50 to +26 dBm
OPM Wavelength Range	800–1700 nm	800–1700 nm	800–1700 nm
Optical Light Source (OLS)	Yes	Yes	Yes

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Visual Fault Locator (VFL)	650 nm	650 nm	650 nm
SOR File Support	Yes	Yes	Yes
PDF Report Generation	Yes	Yes	Yes
End-Face Detection	Optional	Optional	Optional
Ethernet Remote	Yes	Yes	Yes
Network Test	Yes	Yes	Yes
Internal Storage	≥12 GB	≥12 GB	≥12 GB
Display	7" HD	7" HD	7" HD
Display Resolution	1024 × 600	1024 × 600	1024 × 600
Touchscreen	Multi-Touch Capacitive	Multi-Touch Capacitive	Multi-Touch Capacitive
Processor	Quad-Core	Quad-Core	Quad-Core
Operating System	Linux	Linux	Linux
Wi-Fi / Bluetooth	Yes	Yes	Yes
USB Interfaces	2× USB-A + Type-C	2× USB-A + Type-C	2× USB-A + Type-C
Ethernet Interface	RJ45 100/1000 Mbps	RJ45 100/1000 Mbps	RJ45 100/1000 Mbps
Battery	7.4 V / 5200 mAh	7.4 V / 5200 mAh	7.4 V / 5200 mAh
Power Consumption	≤6 W	≤6 W	≤6 W
Operating Temperature	-10 to +50 °C	-10 to +50 °C	-10 to +50 °C
Storage Temperature	-40 to +70 °C	-40 to +70 °C	-40 to +70 °C
Operating Humidity	0–95%, non-condensing	0–95%, non-condensing	0–95%, non-condensing
Dimensions	227 × 160 × 70 mm	227 × 160 × 70 mm	227 × 160 × 70 mm
Weight	≤1.2 kg	≤1.2 kg	≤1.2 kg

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Key Differences

Feature	NK6800-D0	NK6800-T2	NK6800-T3
Main Advantage	1310/1550 nm OTDR	1310/1550/1625 nm + Live Fiber	42 dB + 1:64 PON
OTDR Wavelengths	2	3	3
Live Fiber Testing	—	Yes	Yes
Live Port Filter	—	Yes	Yes
Maximum PON Split Ratio	1:32	1:32	1:64
Maximum Dynamic Range	32 dB	32 dB	42 dB
Best Suited For	FTTH PON	FTTH PON Live Fiber	High-performance PON Backbone Long-distance networks

In short:

NK6800-D0 → standard 1310/1550 nm professional OTDR

NK6800-T2 → adds **1625 nm Live Fiber Testing**

NK6800-T3 → adds **higher 42 dB dynamic range** and **1:64 PON support**