



KI7800 SERIES

OPTICAL LIGHT SOURCE

The KI 7800 series Optical Light Source is used with an Optical Power Meter to test loss on mixed single mode and multimode optical fiber systems, at 2 to 4 wavelengths.

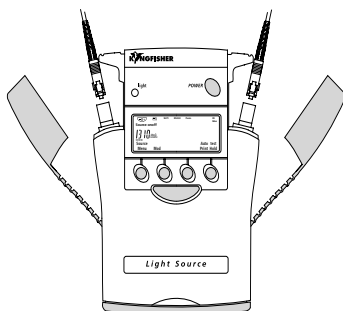
High productivity, high availability and ease of use combine to achieve superior measurement confidence.

OPTICAL COMMUNICATIONS TEST APPLICATIONS

- ✓ Single mode & multimode loss testing
- ✓ Cabling contractors

FEATURES

- ✓ Ideal for mixed MMF & SMF testing
- ✓ Multimode standards compliance option
- ✓ Autotest compatibility with other instruments
- ✓ 3 ~ 7 year warranty
- ✓ Optical test tone source
- ✓ Interchangeable connectors including SFF styles
- ✓ Very long battery life
- ✓ Up to 4 LED / Laser sources
- ✓ Compact, rugged & light weight



ISO 9001

TRACEABLE CALIBRATION



3 ~ 7 YEAR WARRANTY



FTTx

TELCO / CATV

LAN / WAN

DEFENCE

EDUCATION

AUTOMOTIVE



The KI7800 Optical Light Source is used with a power meter for measuring optical loss on singlemode and multimode fiber cable.

When used with an Autotest compatible power meter, automated multi-wavelength loss testing is achieved.

The test tone function can be used with a compatible optical power meter or clip on identifier for fiber detection, continuity testing and fault finding.

Up to 4 mixed LED / laser sources can be specified per instrument, making this the ideal test source for mixed multimode / single mode fiber testing.

Multimode LED emitters are optionally compliant with TIA/IEC

standards for Coupled Power Ratio (CPR), Center Wavelength and Spectral Width.

All emitters are fiber connected for improved stability. Switchable λ options give switched wavelengths through one connector.

The long battery life of nearly 5 working weeks eliminates the requirement for rechargeable batteries and time consuming re-charging procedures.

Interchangeable optical connectors are dust and drop protected. Instruments come with 3 popular connector adaptor styles and all general accessories. Metal free adaptors avoid contamination of connectors in high power systems.

SPECIFICATIONS

	Laser	LED	Comments
Output Power, dBm	-6	-23 to 62.5 μ m -38 to 10 μ m	± 1 dB
Short term, stability dB	0.04 ¹	0.01	15 min, typ $\pm \Delta 2^\circ\text{C}$, after warm up
Stability over temp dB	0.6	0.35	Typical, over temperature
λ initial tolerance, nm	20	30	At 25 $^\circ\text{C}$
λ width, nm	3	35 / 100 850 / 1300	FWHM, typical
λ nm/ $^\circ\text{C}$	0.4	0.4	Typical
Reconnection repeatability, dB	0.1	0.05	95 % confidence
Modulation	270 Hz, 1, 2 KHz, ± 2 %		
Laser output	6 dB in 0.01 dB steps		

Note 1: ORL < -25 dB.

GENERAL SPECIFICATIONS

Battery life	190 hrs at Autotest
Size	190 x 130 x 70 mm, 7.5" x 5.1" x 2.8"
Weight	500 gm, 1.1 lb. Shipping 1.5 Kg, 3.3 lb
Temperature	-15 to 55 $^\circ\text{C}$ (Operating) / -25 to 70 $^\circ\text{C}$ (Storage)
Hidden keypad Case	For setting advanced functions Polycarbonate, 1 metre drop tested
Power	2 alkaline C cells (7.6 A/Hr). AA size batteries accommodated. External 9V DC with 2.5 mm +ve pin. Selectable auto-off, low battery indicator, backlit display.

OPTIONAL ACCESSORIES

Description	P/N
Carry case for 2 instruments	OPT153
Power pack, 90-240V IEC	OPT103B

Australian and international patents, technical data is subject to change without notice as part of our program of continuous improvements. Class 1 Laser/LED product, complies IEC60825-1 and 21CFR1040.10

ORDERING INFORMATION

Please enquire for other combinations.

Description	Ports	P/N
850 nm LED & 1310 nm laser, PC	2	KI 7804
850 nm LED & 1310 / 1550 nm laser, PC	2	KI 7823
850 nm LED, PC, 1310 / 1550 nm laser, APC	2	KI 7823-APC
850 / 1300 nm LED & 1310 / 1550 nm laser, PC	2	KI 7824
850 / 1300 nm LED, PC, 1310 / 1550 nm laser, APC	2	KI 7824-APC

Please enquire for warranty extension options, traceable re-calibration services, non-standard connectors, wavelengths, and other specification

STANDARD ACCESSORIES

Description	Quantity
SC metal-free interchangeable connector adaptor	2
FC metal-free interchangeable connector adaptor	2
ST metal-free interchangeable connector adaptor	2
Operation manual	1
C cell batteries & AA-to-C size battery converter	2
NATA (ILAC) traceable calibration certificates	1
Carry Pouch, Carry strap & Leather protective holster	1

OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS

Description	P/N	Description	P/N
D4	OPT055	LC / F3000	OPT072
E2000/LSH, green	OPT060G	MU	OPT080
E2000/LSH	OPT060	SMA 905/906	OPT082
LSA / DIN47256	OPT071		

This instrument is supplied with metal-free interchangeable optical connector adaptors. The ferrule type is fixed and customer specified as either PC or APC. Green is associated with APC. You can order any number of connector adaptors. Order quantity two of each type.

STANDARDS COMPLIANCE OPTION FOR LED SOURCE

Description	P/N
TIA/IEC standard compliance for LED sources: CPR & λ into 50 μ m fiber. Including 50 μ m mandrel wrap. Output power tolerance ± 3 dB.	OPT091
TIA/IEC standard compliance for LED sources: CPR & λ into 62.5 μ m fiber. Including 62.5 μ m mandrel wrap. Output power tolerance ± 3 dB	OPT093