

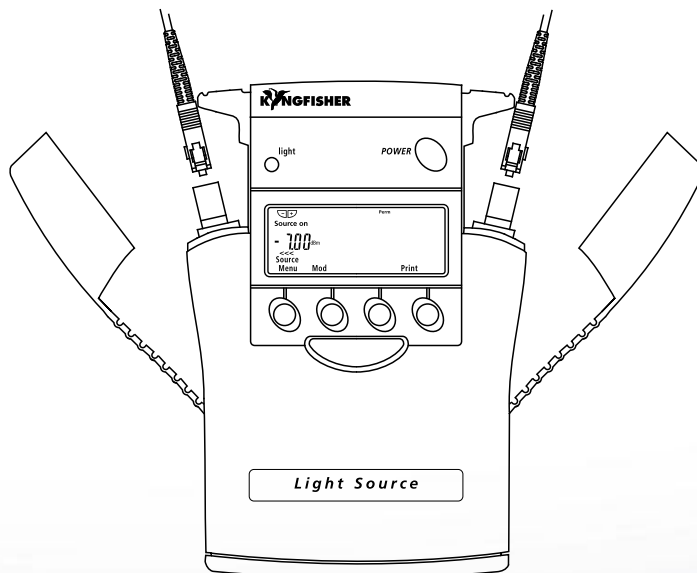
Optical Light Source

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 Year warranty & calibration
- Optical test tone source
- Interchangeable connectors including SFF styles
- Very long battery life
- Up to 4 LED / Laser sources
- Compact, rugged & light weight



KI 7800 Series Optical Light Source

KI 7800 Light Source

KI 7800 SERIES V20040227

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.

Source	Laser	LED	Comments
Output power, dBm	-6	-23 to 62.5 μ m -38 to 10 μ m	\pm 1 dB
Short term stability, dB	0.04 ¹	0.01	For 15 min, typ \pm Δ 2°C, after warm up
Stability, over temp, dB	0.6	0.35	Typical, over temperature
λ initial tolerance, nm	20	30	At 25°C
λ width, nm	3	35 / 100 850 / 1300	FWHM, typical
λ nm/°C	0.4	0.4	typical
Modulation		270 Hz, 1 KHz, 2 KHz, \pm 2%	
Laser output		6 dB in 0.01 dB steps	

Note 1: ORL < -25 dB.

Battery life	190 hrs in Autotest
Size	190 x 130 x 70 mm, 7.9" x 5.4 x 2.9"
Weight	500 gm, 1.1 lb. Shipping 2 Kg, 4.4 lb
Operating	-15 to 55 °C
Storage	-25 to 70 °C
Hidden keypad	For setting advanced functions
Case	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.

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

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.



AUTHORISED DISTRIBUTOR

Ordering Information Please enquire for other combinations

Instrument	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

Standard Accessories

ST, FC, SC metal-free optical connector adaptors, manual, batteries, AA-to-C size battery converter, output power and wavelength traceable calibration certificates, carry strap or tilt bail, leather pouch & protective holster, reporting software.

Interchangeable Connector Options

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.

Optional Interchangeable Connector Adaptors

E2000/LSH, green	OPT060G	E2000/LSH	OPT060
LSA / DIN47256	OPT071	MU	OPT080
LC / F3000	OPT072	Metal free	OPT090

To order metal free connector, specify: connector style + OPT090.

Optional Accessories

Carry case for 2 instruments	OPT153
Power pack, 90-240V IEC	OPT103B

Standards Compliance Option for LED source

TIA/IEC standard compliance for LED sources: CPR & λ into 50 μ m fiber. Including 50 & 62.5 μ m mandrel wraps. Output power tolerance \pm 3 dB.



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