

Optical Communications Testing Applications

- General testing & maintenance
- Singlemode & multimode
- Fibre identification
- Fault Location

Features

- Compact and rugged
- Simple to operate
- 20 hour battery life
- Versatile test tone generator
- Wide range of options
- Inexpensive

Inexpensive Handheld Source for Testing

Optical Communications Systems



www.kingfisher.com.au



Applications

The KI 8000 light source is a convenient test source for attenuation measurement, fault location and fibre identification on optical communications systems. It is inexpensive and easy to operate.

The instrument is available with one or two emitters, using any combination of LEDs, lasers and connectors. All laser options are fibre connected for superior stability and safety. This source is suitable for diverse multimode and singlemode applications.

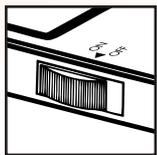
Over 20 hours operation is obtained from one 9V battery, with a user selectable 10 minute timeout. The source can be modulated at 1 Hz for visible fault location, 270 Hz for lock-in amplifiers, and 1 or 2 KHz for fibre identifiers.

Singlemode lasers: the 1310 or 1550 nm emitters are ideal for singlemode testing, providing good coupled power and stability.

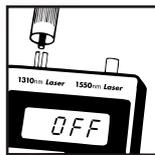
Multimode LEDs: the 850 and 1300 nm emitters are ideal for multimode testing, featuring equilibrium model distribution.

Visible laser fault finder: the powerful 635 nm red laser emitter appears eight times brighter than the old 670 nm type, and is useful for fault location on singlemode and multimode fibre. A fibre break shows as a bright red spot on normal 3 mm cable. Visible lasers also make excellent companions to OTDRs, to locate faults hidden within an OTDR dead zone. This option has a shutter and fibre connection for added safety.

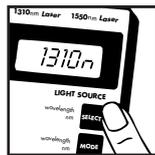
Kingfisher offers a full range of accessories and companion sources, meters, loss & ORL test sets, attenuators, talk sets, visible lasers, and the Cold Clamp fault locator.



1 Turn the unit on.



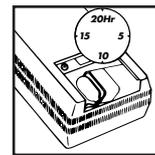
2 Plug your optical connector into the appropriate port.



3 Activate the desired optical emitter.



4 Set the modulation.



5 Battery operation is very efficient.

Specifications

Emitter Type	Power SMF dBm	Power MMF dBm	FWHM nm typical	SMF application	MMF application
635 nm visible laser	-3	-3	3	✓	✓
850 nm LED	-35	-20	35		✓
1300 nm LED	-35	-20	100		✓
1310 or 1550 nm Laser	-7	-7	5	✓	✓

Battery life	20 hrs typ
Size	35 x 150 x 80 mm, 1.4 x 5.9 x 3.1"
Weight	185 gm, 0.4 lbs
Shipping	500 gm, 1.1 lbs
Operating	-5 to 55 °C.
Storage	-20° to 75 °C.
Power	One 9V alkaline cell, low battery indicator, 10 minute timeout.
Stability	LED 0.02 dB, Laser 0.04 dB. ±2 °C, for 15 min, typical, after warm up, ORL < 25 dB. Tested with 9.5/125 or 62.5/125 µ fibre.
Modulation	1 Hz, 270 Hz, 1 KHz, 2 KHz.

Single Port Connector Options

ST	OPT520	SC	OPT521
FC	OPT522	E2000	OPT523
LSA / DIN	OPT524	MU	OPT525
LC	OPT526	D4	OPT527
FC/APC	OPT540	SC/APC	OPT541
E2000/APC	OPT542		

Custom types on request

Two Port Instrument p/n

850 / 1300 LED	KI 8013	635 / 1550 nm laser	KI 8024
635 / 850 nm laser / LED	KI 8014	1310 / 1550 nm laser	KI 8025
635 / 1300 nm laser / LED	KI 8015	850 / 1310 LED / laser	KI 8031
635 / 1310 nm laser	KI 8023		

Two Port Connector Options

ST	OPT550	SC	OPT551
FC	OPT552	E2000	OPT553
LSA / DIN	OPT554	MU	OPT555
LC	OPT556	D4	OPT557
FC/APC	OPT570	SC/APC	OPT571
E2000/APC	OPT572		

Custom types on request

Ordering Information

To Order, specify: Instrument + one connector style + optional accessories.

Instrument includes manual and battery.

Single Port Instrument

850 nm LED	KI 8010	1300 nm LED	KI 8011
850 / 1300 nm LED	KI 8012	1310 nm Laser	KI 8020
1550 nm Laser	KI 8021	635 nm Laser	KI 8030



Technical Data is subject to change without notice as part of our of continuous improvement program. Therefore please verify critical parameters before ordering. Class 1 & Class 2 laser products, comply IEC60825-1 and 21CFR1040.10

Optional Accessories

Rubber Holster	OPT171
Soft Pouch for one instrument	OPT181
Hard Case for two instruments	OPT142
External Power Input 9V	OPT126A
Mains Power Pack 90-240V IEC	OPT103
Wavelength calibration (perλ)	CAL007



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