



KI7400 SERIES

PREMIUM OPTICAL LIGHT SOURCE

The KI 7400 series Ultra Stable Light Source is a premium instrument for field or laboratory testing of optical communication systems at 2 to 4 wavelengths from one port. It features zero warm up, superb productivity and ease of use, with an ergonomic and rugged design.

OPTICAL COMMUNICATIONS TEST APPLICATIONS

- ✓ Construction & commissioning
- ✓ Standards laboratories
- ✓ High throughput quality assurance

FEATURES

- ✓ Zero warm up & ultra stable
- ✓ High productivity testing of multiple wavelengths
- ✓ CWDM options
- ✓ Autotest compatibility with other instruments
- ✓ Interchangeable connectors including SFF styles
- ✓ Long battery life
- ✓ Up to 4 laser sources from one port
- ✓ Compact, rugged & light weight
- ✓ 3 ~ 7 year warranty





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PREMIUM OPTICAL LIGHT SOURCE

The KI 7400 premium Optical Light Source is used with a power meter for measuring optical loss on singlemode and multimode fiber cable.

Ultra high laser stability is guaranteed, with zero warm up. Unlike most other sources, power output is unaffected by varying back reflection.

Up to 4 laser sources can be specified per instrument, with one output port.

These sources can be used with Autotest compatible meters and Loss tester to automate loss testing functions, and provide automatic λ identification. A 4 λ source and meter in Autotest mode automatically measures 4 λ attenuation in one direction providing associated equipment is calibrated at all relevant λ .

Options compliant with CWDM standards cover typical cable

qualification for O, E, S, C, & L bands, including the water absorption peak.

All emitters are fiber connected for improved stability..

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.

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

	1310/1550 Laser	Other lasers	1300/1550 LED ²	Comments
Fiber type	SMF 9/125 μ m	SMF 9/125 μ m	SMF 9/125 μ m	
2 λ source power, dBm	-4	-4	-20	± 1 dB
3 or 4 λ power, dBm	-7	-7		
Stability, short term dB	0.03 ¹	0.05 ¹	0.03	15 min, max no warm up $\pm \Delta 3^\circ\text{C}$
Stability, long term dB	0.2	0.2	0.2	Max, over temperature
λ initial tolerance, nm	20	6.5	20	At 25°C
λ width, nm	3	< 1	35/48	FWHM, typical
λ nm/°C	0.4	0.1		typical
Reconnection repeatability, dB		0.1		95 % confidence
Modulation	270 Hz, 1, 2 KHz, $\pm 2\%$			
Laser output	Adjustable over 6 dB in 0.01 dB steps			

Note 1: ORL < -25 dB. Note 2: 1300/1550 LED operating temperature is 0 to 55°C.

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 °C (Operating) / -25 to 70 °C (Storage)
Hidden keypad	For setting advanced functions
Case	Polycarbonate, 1 metre drop tested
Power	2 alkaline C cells (7.6 A/Hr), 2 AA cells using AA-to-C battery converter or external 9V DC with 2.5 mm +ve pin. Selectable auto-off, low battery indicator, backlit display

OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS

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

This instrument is supplied with metal-free optical interchangeable 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.

OPTIONAL ACCESSORIES

Description	P/N
Option, Carry Case for 2 Instruments	OPT153
Option, Carry Case incl Cletop, Cleaning Sticks & Microscope	OPT154
Option, KI7x Series Power Pack IEC 100-240V 2.5 mm Plug	OPT103B

AUTHORIZED DEALER

ORDERING INFORMATION

Please enquire for other combinations.

Description	Port	P/N
1310/1550 nm ultra stable laser, PC	1	KI 7402
1310/1550 nm ultra stable laser, APC		KI 7402-APC
1490/1625 nm laser, PC	1	KI 74014
1490/1625 nm laser, APC		KI 74014-APC
1550/1625 nm laser, PC	1	KI 74013
1550/1625 nm laser, APC		KI 74013-APC
1310/1390/1550/1625 nm laser, PC	1	KI 74015
1310/1390/1550/1625 nm laser, APC		KI 74015-APC
1310/1490/1550 nm laser, PC	1	KI 7427
1310/1490/1550 nm laser, APC		KI 7427-APC
1310/1490/1550/1625 nm laser, PC	1	KI 74016
1310/1490/1550/1625 nm laser, APC		KI 74016-APC
1310/1550/1625 nm laser, PC	1	KI 74010
1310/1550/1625 nm laser, APC		KI 74010-APC
1300/1550 nm LED, PC	1	KI 7419

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

STANDARD ACCESSORIES

Description	Quantity
Metal-free interchangeable connector adaptors:	
SC (OPT046)	1
FC (OPT051)	1
ST (OPT040)	1
Operation manual	1
C cell batteries & AA-to-C battery size converter	2
NATA (ILAC) traceable calibration certificates	1
Carry Pouch, Carry strap & Leather protective holster	1

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



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DEFENCE

EDUCATION

AUTOMOTIVE