



KI7400C SERIES

PREMIUM OPTICAL LIGHT SOURCE

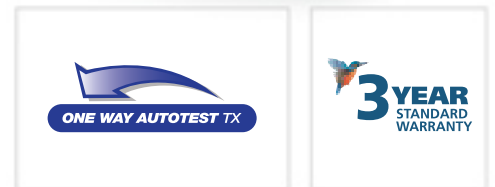
The KI7400C series Ultra Stable Light Source is a premium instrument for field or laboratory testing of optical communication systems at 2 to 4 wavelengths from one port. It features zero warm up, superb productivity and ease of use, with an ergonomic and rugged design.

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
- ✓ Single mode 1310, 1550 nm precision LED source option
- ✓ Compact, rugged & light weight
- ✓ 3 ~ 7 year warranty





KI7400C SERIES

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.

Optical true optically stabilised 1310 / 1550 nm LED source for high precision testing of single mode fiber. Proven loss testing repeatability of the order of 0.01 dB can be readily achieved by using Kingfisher InGaAs power meter for loss testing. It is ideal for acceptance testing PC and APC optical connectors with an average loss of around 0.1 dB.

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

Fiber type	1310/1550 Laser	Other lasers	1310/1550 LED ²	Comments
	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, ± 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
PC Interface	USB Type B
Power	2 alkaline C cells (7.6 A/Hr) External DC with 2.5 mm +ve pin or via USB port. 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, KI7000 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	KI7402C
1310/1550 nm ultra stable laser, APC		KI7402C-APC
1490/1625 nm laser, PC	1	KI74014C
1490/1625 nm laser, APC		KI74014C-APC
1550/1625 nm laser, PC	1	KI74013C
1550/1625 nm laser, APC		KI74013C-APC
1310/1390/1550/1625 nm laser, PC	1	KI74015C
1310/1390/1550/1625 nm laser, APC		KI74015C-APC
1310/1490/1550 nm laser, PC	1	KI7427C
1310/1490/1550 nm laser, APC		KI7427C-APC
1310/1490/1550/1625 nm laser, PC	1	KI74016C
1310/1490/1550/1625 nm laser, APC		KI74016C-APC
1310/1550/1625 nm laser, PC	1	KI74010C
1310/1550/1625 nm laser, APC		KI74010C-APC
1310/1550 nm LED, PC	1	KI7419C

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

STANDARD ACCESSORIES

Description	Quantity
SC connector adaptor OPT046 blue	1
FC connector adaptor OPT051	1
ST connector adaptor 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.



Kingfisher International Pty Ltd
30 Rocco Drive, Scoresby VIC 3179 Australia

T +61 3 9757 4100
F +61 3 9757 4193
E sales@kingfisher.com.au

0808-V15

FTTx TELCO / CATV LAN / WAN DEFENCE EDUCATION AUTOMOTIVE