



# KI 7300C SERIES

OPTICAL LOSS TEST SET

The KI 7300C series is a single directional loss test set which displays link loss in real time, at multiple wavelengths. Bi-directional testing is supported by PC software.

Featuring zero warm up, high speed and high accuracy, results can either be stored in internal memory, or inserted directly into a customized acceptance report on a PC, with one mouse click.

This is a reliable, robust and easy to use test instrument for single mode fiber optic cable and transmission systems.

Light Source and Power meter options cover a wide range of connector types, all CWDM wavelengths, and power measurements from +27 to -70 dBm with 1% Traceable Accuracy.

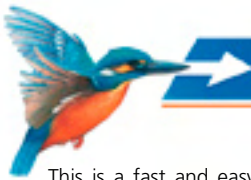
## OPTICAL COMMUNICATIONS TEST APPLICATIONS

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

## FEATURES

- ✓ Zero warm up & high accuracy
- ✓ Autotest compatibility with other instruments
- ✓ Fully traceable CWDM test capability
- ✓ 3 year calibration cycle
- ✓ 3 ~ 7 year warranty
- ✓ Interchangeable connectors
- ✓ Long battery life
- ✓ Large memory
- ✓ Flexible real-time PC software
- ✓ Up to 4 laser sources
- ✓ Compact & light weight





This is a fast and easy to use one way loss tester. From start of test to acceptance report takes 2 seconds and one mouse click.

Autotest is compatible with all other Autotest instruments, which simplifies training and operational issues.

The instrument provides instant accurate and traceable measurements, with zero warm up and a very high stability light source.

High availability is the result zero warm up, 190 hour battery life, patented interchangeable optical connectors, 3 year calibration cycle and superior reliability.

Interchangeable connectors include small form factor LC and MU styles, in addition to most other styles.

Flexible KITS™ PC software is a real-time measurement, Pass/Fail assessment and reporting solution. Easily customized for any language and reporting format, it also supports memory download, data logging, label printing, legacy instruments and enterprise level data management.

### POWER METER SPECIFICATIONS

Detector Type	Response $\lambda$ nm	Damage level dBm	Calibration $\lambda$ nm	Power Range dBm	Autotest sensitivity dBm	Mid range linearity <sup>1</sup> dB	Calibration Accuracy <sup>2</sup> %	Polarization Sensitivity dB	Total Uncertainty <sup>3</sup> dB
InGaAs	600 ~ 1700	+15	780, 820, 850, 980, 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650	+5 to -60 +5 to -70	-45 -50	0.02	1 % (0.06 dB)	< 0.005	0.3
H3B (InGaAs)	800 ~ 1700	+30 <sup>4</sup>	820, 850, 980, 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650	+27 to -40 +27 to -50	-25 -30	0.02	1 % (0.06 dB)	< 0.005	0.35
H5 (InGaAs)	800 ~ 1700	+25	820, 850, 980, 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650	+15 to -50 +15 to -60	-35 -40	0.02	1 % (0.06 dB)	< 0.005	0.3
					typical	typical		typical	max

Note 1: Mid range linearity excludes top 3 dB & bottom 10 dB of range.  
 Note 2: Calibration condition: non coherent light, -35±5 dBm, 23±1°C, ±1 nm, 10±3 nm FWHM, PC ceramic connector, 100µm fiber.  
 Note 3: Includes contributions due to: varying optical connector types, calibration uncertainty, full temperature, dynamic range and fiber type up to 200 µm core diameter.  
 Note 4: H3B can sustain the damage level for 2 minutes

### LIGHT SOURCE SPECIFICATIONS

	1310/ 1550 nm	Other lasers	Comments
2 $\lambda$ source power	-0 dBm	-4 dBm	± 1 dB
3 or 4 $\lambda$ power	-7 dBm	-7 dBm	
Short term stability	0.03 dB	0.05 <sup>5</sup> dB	15 min, max, no warm up, $\Delta$ 3°C
Stability, over temp	0.2 dB	0.2dB	Max, over temperature
$\lambda$ initial tolerance	20 nm	6.5 nm	At 25 °C
$\lambda$ width	3 nm	< 1 nm	FWHM, typical
$\lambda$ nm/°C	0.4	0.1	typical
Reconnection Repeatability	0.1 dB		95 % confidence
Modulation	270 Hz, 1, 2 KHz, ± 2 %		
Laser output	Adjustable over 6 dB in 0.01 dB steps		

Note 5: For ORL < -25 dB.

### GENERAL SPECIFICATIONS

Battery life	360 hrs Power Meter / 190 hrs laser in 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 on concrete
PC interface	USB Type B
Memory	1900 dual $\lambda$ loss test results
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
Tone detection	150 - 9999 Hz ± 1 %
Max / min	Recording feature for stability testing



**MULTIPLE LANGUAGE / ANY STYLE OF CERTIFICATION REPORT**

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- KITS™** reporting and record keeping software
- ✓ Windows XP / Vista™ / .net compatible
  - ✓ Click results directly into your custom acceptance report
  - ✓ Data logging to help find intermittent faults
  - ✓ Real time data capture for any Windows PC.
- Also supports manual data entry for legacy gear
- ✓ Supports any language. Easily customised reporting
  - ✓ Familiar Excel™ user interface
  - ✓ Accommodates any work practices
  - ✓ Enterprise level IT solution for cable certification

**ANY INSTRUMENT WORKS WITH ANOTHER**

- ✓ Autotest is compatible with all KI7000, KI3000 or Agilent N397xA Handheld series testers

**LONG BATTERY LIFE**

- ✓ Battery life in excess of 190 hours on source and 360 hours on meter; Both C or AA size alkaline batteries are applicable

**ANY MODERN OPTICAL CONNECTOR**

- ✓ Quick-change, patented optical interchangeable connectors offer increased versatility and convenience; Dust and drop protected by a snap-on cover for improved performance

### AUTHORIZED DEALER

### ORDERING INFORMATION

Please enquire for:

- ✓ Other wavelength combinations
- ✓ High Power measurement
- ✓ Large area power meter detector options

Description	P/N
1310/1550 nm laser PC, InGaAs Meter	KI 7303C-InGaAs
1310/1550 nm laser APC, InGaAs Meter	KI 7303C-InGaAs-APC
1310/1550 nm laser PC, H3B meter	KI 7303C-H3B
1310/1550 nm laser APC, H3B meter	KI 7303C-H3B-APC
1310/1550 nm laser PC, H5 meter	KI 7303C-H5
1310/1550 nm laser APC, H5 meter	KI 7303C-H5-APC
1490/1625 nm laser PC, InGaAs Meter	KI 73014C-InGaAs
1490/1625 nm laser APC, InGaAs Meter	KI 73014C-InGaAs-APC
1550/1625 nm laser PC, InGaAs Meter	KI 73013C-InGaAs
1550/1625 nm laser APC, InGaAs Meter	KI 73013C-InGaAs-APC
1310/1490/1550 nm laser PC, InGaAs Meter	KI 7307C-InGaAs
1310/1490/1550 nm laser APC, InGaAs Meter	KI 7307C-InGaAs-APC
1310/1550/1625 nm laser PC, H3B Meter	KI 73010C-H3B
1310/1550/1625 nm laser APC, H3B Meter	KI 73010C-H3B-APC
1310/1390/1550/1625 nm laser PC, InGaAs Meter	KI 73015C-InGaAs
1310/1390/1550/1625 nm laser APC, InGaAs Meter	KI 73015C-InGaAs-APC
1310/1490/1550/1625 nm laser PC, InGaAs Meter	KI 73016C-InGaAs
1310/1490/1550/1625 nm laser APC, InGaAs Meter	KI 73016C-InGaAs-APC

Note: standard 3 year warranty for instrument only

### STANDARD ACCESSORIES

Description	Quantity
SC connector adaptor OPT046 blue	2
FC connector adaptor OPT051	2
ST connector adaptor OPT040	2
KITS™ Recording/Reporting software & USB A/B Cable	1
Operation manual	1
C cell batteries & AA-to-C size battery converter	2
NATA (ILAC) traceable calibration certificate including: Power Meter, Light Source	1
Carry Pouch, Carry strap & Leather protective holster	1

### INTERCHANGEABLE CONNECTOR OPTIONS

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

### OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS

Description	P/N	Description	P/N
E2000/LSH, green	OPT06 0G	MU	OPT080
E2000/LSH	OPT060	2.5mm universal	OPT081
LSA / DIN47256	OPT071	SMA 905/906	OPT082
LC / F3000	OPT072	D4	OPT055

### 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

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



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

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