

# ILH-100

## Handheld Insertion Loss Meter



### Product Overview

The Santec ILH-100 Insertion Loss Tester is an easy-to-use and rugged test set combining a multi-wavelength optical power meter and a mix of laser and LED sources in a compact handheld package. Designed for single direction measurements, the ILH-100 can incorporate up to 6 different laser and LED sources and provides fiber optic administrators, installers, and technicians an ideal cost-effective solution for testing single-mode and multi-mode systems. Built-in multi-fiber ID identifies up to 12 different test tones from multiple sources for simplified continuity and polarity testing. Multiple insertion loss test results can be stored in internal memory with a timestamp and user-specified cable name and then transferred to an external USB drive with a single press of a button for analysis and record keeping. The ILH-100 is available in a wide range of configurations to meet virtually any fiber optic measurement requirement, and can be ordered with an optional VisiTester active fiber identifier and ultrastable zero warm up light sources for added utility and accuracy.

#### Features

- Maximum versatility in a rugged, compact package
- More than 25 calibrated wavelengths available
- Up to 4 SM lasers or 2 MM LED sources in each instrument
- Optional VisiTester identified active test fibers
- Compatible with other Santec handheld instruments
- Multi-fiber ID
- Large internal memory
- Interchangeable connectors are protected against drops and impact



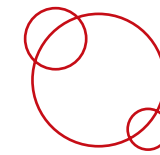
#### Applications

- Field insertion loss testing
- Field polarity testing
- Simplex, Duplex and MPO/MTP IL testing
- Fiber identification



#### Compliance

- IEC-61300-3-4

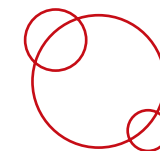
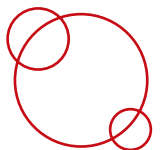


### Maximum Versatility in a Rugged, Compact Package

The ILH-100, housed in a rugged and shock-resistant polycarbonate casing, is the perfect tool for outdoor operations in remote areas. It is equipped with either 4 single-mode or 2 multi-mode sources and a multi-wavelength optical power meter. Its compliance with the MIL PRF 28800F standards ensures its ability to withstand harsh and uncontrolled environments.

### More than 25 Calibrated Wavelengths Available

A fast and accurate optical power meter that measures absolute power, relative power, and detects up to 12 test tones. Displays mW,  $\mu$ W, nW, dB, and dBm to 0.01 dB resolution without range changing delays. Separate references for each wavelength are stored and displayed on a large backlit LCD screen that is easily readable in bright sunlight.

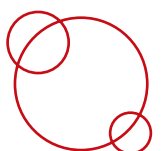


### Up to 6 Laser and LED Sources in Each Instrument

The ILH-100 simplifies testing with its integrated laser and LED source options. It supports CWDM compliant laser sources for testing fiber cable in O, E, S, C, and L bands, including the water absorption peak and 1625/1650 nm. The ultra-stable zero warm-up laser sources eliminate drift for accurate single-mode measurements. Additionally, the LED sources are compliant with Encircled Flux standards and include mandrel wraps to ensure consistent and dependable results. This means you can spend more time testing and less time managing multiple pieces of equipment.

### Optional VisiTester Identifies Active Test Fibers

The ILH-100 can be ordered with a VisiTester option that blinks the active test fiber, making it obvious to the user. The test signal is mixed with a test tone for use with clip-on fiber identifiers. The VisiTester output also works as a standard visual fault locator (VFL), and quickly flags fiber breaks, bad splices, pinched fibers, bending losses, and cracked connector ferrules with bright red light escaping from the defect.

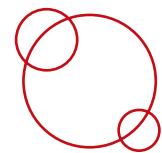




## In the Box

### **ILH-100** - Handheld Insertion Loss Meter

- ILH-100
- Optical power meter adapter
- 2 AA batteries
- Rugged case
- Lanyard

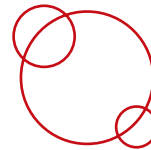


## Compatible With Other Santec Handheld Instruments

The ILH-100 is fully compatible with Santec's OPH-100 handheld optical power meters and SLH-100 handheld optical light sources with matching wavelengths, extending your range of test capabilities with fewer equipment upgrades.

## Multi-fiber ID

The ILH-100 can identify up to 12 different fibers, in addition to standard optical test tones, i.e., 270 Hz, 1 KHz, and 2 KHz, when used by itself or with another ILH-100 handheld insertion loss meter, BRH-100 handheld bidirectional loss tester, or SLH-100 handheld optical light source. This makes continuity testing, polarity testing, and fault finding fast and reliable.

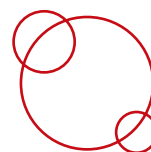


## Large Internal Memory

The large ILH-100 internal memory records the date, time, and essential information including the reference value in dBm, detected wavelength in nm, autotest nominal source power, remote instrument serial number, and pass/fail status. Users can input and store up to 20 cable text ID tags using the front panel controls and recall them for easy reference.

## Interchangeable Connectors are Protected Against Drops and Impact

The ILH-100 accommodates a wide variety of industry standard fiber optic connectors, including FC, ST, LC, MU, HFBR, LSADIN47256, and E2000. Built-in bumpers and an integral dust cover protect the connector interface against damage and contamination. The dust cover doubles as a stand when used on a benchtop or other surface.



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