

ILT ELMS

Endoscope Light Measurement System



**SEL033/Y/Q1/HNK15
WITH OPTIONAL LIGHT
PIPE & ADAPTERS**

SPECIFICATIONS

Endoscope Compatibility: ILT Light Pipe Kit (part #A1490LK) contains three custom adapters for remote testing of lamps inside housings. The Light Pipe Kit makes ELMS compatible with most major Endoscopy light sources including Wolf/Dyonics, Acmi and Olympus.

Endoscope System Part Number: ILT1490-ELMS

Dynamic Range: 3.57 e-1 to 1.25E+4 lumens (357 mlm to 12.54 Klum)

Measurement Range: 400-700 nm

(Note: New Y filter used in this detector was redesigned using proprietary composite filter design software to match the CIE V(λ) Photopic curve within 1% total area error.)

Linearity: 0.2%, ± 1 digit on the low end of the measurement range

Refresh Rate: 1/2 second

Power: Rechargeable batteries - requires USB cable (A male to A male)

USB Output: 2.0 (1200 Baud Rate)

ILT1400 LIGHT METER

The ILT1400 is a world-class, hand-held light meter with a proven 20 year track record for dependability and accuracy in the most demanding light measurement applications, now with a re-designed membrane keypad and backlit display.

Whether this rugged portable light meter is used in the field or in the research lab, the ILT1400 Hand-Held Radiometer/Photometer can meet your light measurement challenge with its seven (7) decade measurement range, autoranging and NIST-traceable accuracy.



Features

- End-to-End Testing of Light Throughput (Source/Fiber Bundle/Scope)
- Compatible with All Major Endoscopes
- Flexible & Rigid Endoscopic Compatibility
- Verify Performance Prior to Use
- Quick, Cost-Effective ID of Potential Light Issues
- Hand-Held Meter, Battery Powered
- USB Output for Datalogging on Computer
- Automatic Ranging and Shutoff
- Membrane Keypad with Backlit Display
- NIST-Traceable Calibration with Certificate
- Made in USA

DESCRIPTION

The ELMS endoscope-testing device is a hand-held instrument designed to measure the luminous radiation of standard medical endoscopic light sources, fiber bundles and endoscopes.

The Endoscope Light Measurement System (Part No. ILT1490-ELMS) consists of the ILT1400 light meter, SEL033/Y/Q1/HNCR1/K15 detector with NIST traceable ISO17025 accredited calibration for direct readout in lumens.

This system is very useful to Biomedical and Clinical Engineers responsible for the maintenance of endoscopy equipment. The system provides users with objective and repeatable measure of the light output from each of the components in the endoscopy chain.

The data can also be collected on a computer and used for predictive maintenance, endoscope performance tracking, and on-going QA programs.



InternationalLight
TECHNOLOGIES

**NIST Traceable Light Measurement
Systems and Sources**

ISO 9001 / ISO/IEC 17025

10 Technology Drive, Peabody, MA 01960

978-818-8160 978-818-6181 fax

www.intl-lighttech.com