



## Test the illumination of endoscopic systems, as a system or as individual components



EndoLume, the endoscope system light meter from Lighthouse Imaging, is designed to be simple to use, yet have enough versatility to measure all parts of your endoscopic illumination system. EndoLume identifies the true source of illumination problems by quantitatively measuring:

- Light output of endoscopic light source - all major brands & types
- Light transmission through fiberoptic light cable - all connector types
- Light transmission through optical fibers in flexible and rigid endoscopes.



**Lighthouse Imaging**

Because precision is everything

EndoLume is a portable handheld instrument, that consists of a custom-designed integrating sphere and light detector, precision light meter with digital display and adapters to connect with all endoscopic equipment common in medical institutions. Light values are displayed in lumens, the unit measure of luminous flux or the total amount of visible light.

## EndoLume™

### EndoLume improves the illumination quality of endoscopic systems by:

- Reducing "insufficient light" disruptions in the operating room
- Eliminating unnecessary and expensive lamp replacements
- Troubleshooting system illumination issues
- Verifying the performance of repaired endoscopic equipment
- Reducing unnecessary repairs
- Determining baseline specifications of new light sources, fiberoptic cables and endoscopes
- Tracking endoscopic equipment quality as a function of time for preventive maintenance

### Included with EndoLume:

- Integrating sphere assembly with integral light meter
- Endoscope clamping collar
- Optical Bridge™ assembly
- Adapters for Olympus (flexible and rigid), ACMI, Wolf, and Storz style light cables and endoscopes
- Protective rubber boot
- Hard carrying case

### Features:

- Rugged and compact design with 5 digit display
- Five foot cable to reach all areas of endoscopy rack
- Patented Optical Bridge™ technology provides accurate endoscopic lightsource measurements
- One button operation for ease of use
- Built-in color correction filter simulates the spectral response of the human eye
- Calibrated to NIST traceable standards
- 9V battery-powered with low battery indicator
- Auto off after four minutes
- Adapters for all standard lightsources, light cables and endoscopes included
- New ergonomic locking mechanism for adapters
- Measures light output of both rigid and flexible endoscopes



## Specifications

- Accuracy: 5% of reading
- Measurement range: 0-5,000 lumens
- Endoscope diameter range: 2-15mm with included clamping collar; 15-16mm direct connection
- Dimensions: 6.0x3.3x1.3" (150x83x32mm)
- Weight (Meter & Integrating Sphere): 13.0 oz (370g)

## We set a higher standard

Lighthouse Imaging Corporation is a leading provider of optical engineering and design services for the medical device industry.

We design, develop and manufacturer optical assemblies for the medical device industry and are the leading provider of test and measurement equipment for verifying the optical quality of endoscopes.

Lighthouse Imaging is an ISO 13485:2003 and ISO 9001:2008 certified, FDA registered medical device manufacturer specializing in minimally invasive surgical applications.



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