Gooch & Housego
ENABLING PHOTONIC TECHNOLOGIES

DESIGNED SPECIFICALLY WITH HIGH-BRIGHTNESS LEDS IN MIND:

Gooch and Housego's OL 771

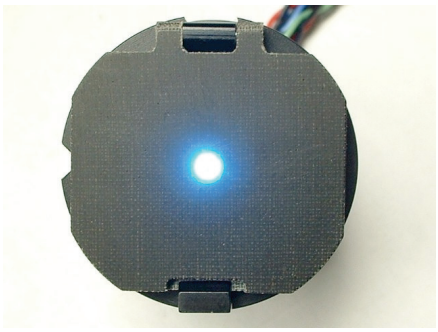
The OL 771 is a high performance, portable spectroradiometric LED test and measurement system with powerful, user-friendly software. Fast and accurate, the OL 771 is part of the most comprehensive line of LED test and measurement solutions!

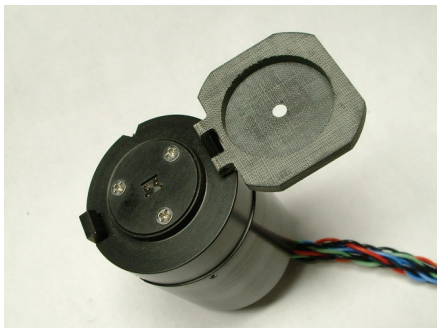
Features

The OL 771 High Speed HB-LED Measurement System is optimized to perform all critical measurements of LEDs, LED clusters, LED chips, and more. Specifically designed for fast spectroradiometric measurement of high-brightness LEDs, the system provides the necessary accuaracy to characterize components for R&D purposes, while being economical and compact enough to perform rapid QC checks on the production floor.

Features include:

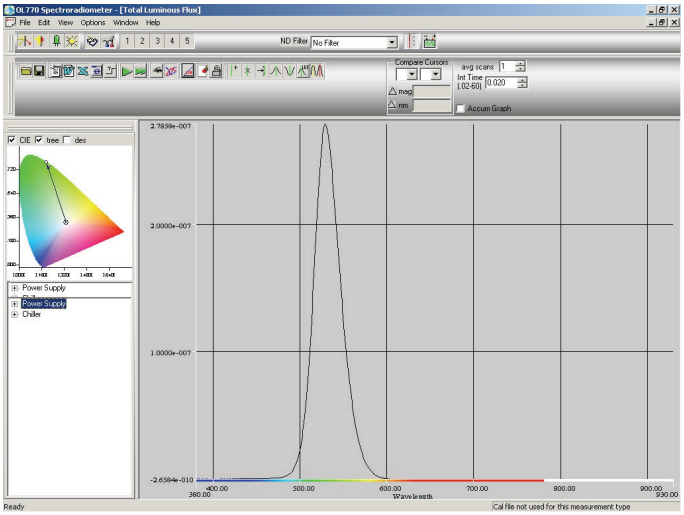
- Convenient USB interface
- 25+ spectral scans/ second
- Compliant with CIE 127 guidelines with accessories for various collection geometries:
  - Averaged intensity in Conditions A & B
  - Total luminous & spectral flux
  - Goniometric profiling
- Low stray light performance
- High spectral resolution
- High dynamic range
- 0.5 nm wavelength accuracy
- Research-grade precision
- Compact, lightweight portable enclosure
- Rugged fiber optic interface with strain relief and self-centering adapter





Software

The OL 771 Application Software is highly intuitive. It shares the convenient, well-proven OL 770 software platform. The OL 771's software allows for turnkey automated operation while providing the user with easy and complete access to the system's full power and capabilities.



Software features include:

- Windows XP/2000® platform
- Real-time graphics utility
- Custom report templates
- MS Excel and Word-compatible direct reporting
- Display, log, and store resultant data
- Comparison cursors
- Cursor snap to peak/ valley
- Value Monitor for real time pass/fail display of any calculated values
- Software triggering for data acquisition
- Dominant wavelength
- Peak wavelength
- Spectral bandwidth (FWHM)
- Spectral purity
- Power
- Color Temperature
- Color rendering index
- Total luminous flux
- Averaged LED intensity
- Tristimulous – 2° XYZ, 10° XYZ
- 1931 Chromaticity – 2° xyz, 10° xyz
- 1960 Chromaticity – 2° uv, 10° uv
- 1976 Chromaticity – 2° u'v', 10° u'v'
- Lab Luv – Illuminants A, B, C, D65; 2° Lab Luv, 10° Lab Luv
- Intensity profile polar plots (w/ OL 700-30)
- High-resolution CIE plots with accumulating coordinates, zooming, and dominant wavelength tracking
- Accumulation graphs for time studies
- LabVIEW example utilizing ActiveX control
- Optional ActiveX Control Software Development Kit

Specifications

OL 771 Spectroradiometer Specifications	
Wavelength Range (standard)	380 - 780 nm
Wavelength Accuracy	± 0.5 nm
Optical Bandwidth (w/ 100 micron slit)	2.0 nm
Spectral Resolution	≈ 0.4 nm
Optical Focus Length	140 mm
Optical Input	fiber optic
Optical Aperture	f/2
Operating Temperature	0 to 30° C
Operating Humidity	0 to 90% (non-condensing)
Detector Technology	photodiode array
Integration Time	20 ms - 60 s
Dimensions	7¼" W (18.4 cm) x 13½" H (33.6 cm) x 13" D (33.0 cm)
Weight	21.0 lbs (9.5 kg)

All Gooch & Housego products are supported by outstanding factory customer service and a worldwide network of representatives and distributors. Put our 40 years of expertise in precision light measurement to work for you.

Night vision cockpit images used with permission from United Rotocraft.