

LES600 / LES800 SERIES EXTENDED AREA SOURCES

The EOI Laboratory Extended Area Source Series LES600 / LES800 provide stable and uniform blackbody radiation. The proprietary coating applied to the emitting surface yields emissivity of 0.94 ± 0.02 ($2\mu\text{m}$ to $20\mu\text{m}$). Emissivity of 0.985 ± 0.020 ($2\mu\text{m}$ to $20\mu\text{m}$) is achieved by EOI's proprietary micro-groove surface plate.

Fast slew rates and high stability are the result of EOI's 40+ years of blackbody/controller design experience. The temperature controller utilizes a proprietary adaptive control loop to provide fast settling times, zero set point drift and excellent temperature stability.

High Accuracy in the displayed temperature reading is assured with the use of extremely stable probes and high resolution, precision processing electronics.

Emitting surface sizes range from 2x2 inch (51x51 mm) to 30x30 inch (762x762 mm). Custom sizes are also available upon request.

Ethernet LAN and RS-232 Interfaces are included as standard equipment with the LES600 / LES800 Series controller, at no additional cost, allowing greater flexibility for integration into automated test systems. IEEE488 interface is optional.

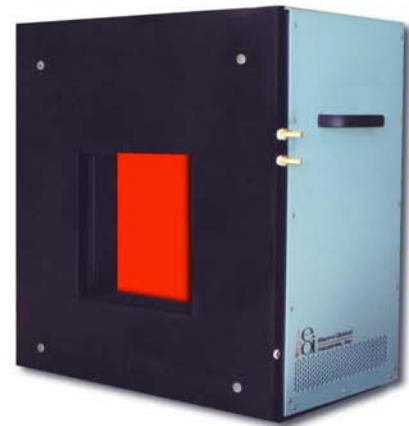
A user-friendly menu system, accessed with a keypad on the front panel of the controller, allows for easy configuration and operation of the LES600 / LES800 Series system.



Calibration

Calibration of the LES600 / LES800 Series is a quick and easy procedure with the actual temperature measured with a thermocouple standard traceable to the National Institute of Standard and Technology (NIST). These thermocouples are also available from stock for the user to facilitate in-house calibration.

The calibration procedure may be easily automated using EOI's calibration kit, which includes calibration software. The recommended calibration cycle for the LES600 / LES800 series is six months.



The LES600 / LES800 Series Sources are suitable for laboratory or field use and feature:

- ◆ **Fast Slew Rates**
- ◆ **High Stability and Accuracy**
- ◆ **Many Standard Sizes**
- ◆ **Multiple Computer Interfaces**
- ◆ **2 Year Warranty**



Standard Models		
Model	LES600	LES800
Temperature	50° to 600°C	50° to 800°C
Stability	±0.05 to ±0.25	±0.1 to ±0.25
Emissivity	0.94 ± 0.02 (2µm to 20µm)	0.94 ± 0.02 (2µm to 20µm)
Display Resolution	0.0001	0.0001
Setpoint Resolution	0.0001	0.0001
Total System Uncertainty	2°C	2°C
Communication	RS232 Ethernet LAN	RS232 Ethernet LAN

Model 50° - 600°C	Model 50° - 800°C	Emitting Surface Size in Inches (mm)
LES600-02	LES800-02	2 x 2 (51 x 51)
LES600-04	LES800-04	4 x 4 (102 x 102)
LES600-06	LES800-06	6 x 6 (152 x 152)
LES600-08	LES800-08	8 x 8 (203 x 203)
LES600-10	LES800-10	10 x 10 (254 x 254)
LES600-12	LES800-12	12 x 12 (305 x 305)
LES600-14	LES800-14	14 x 14 (356 x 356)
LES600-24	Call for Availability	24 x 24 (610 x 610)
LES600-30	Call for Availability	30 x30 (762 x 762)

Options

- Microgroove Emissivity 0.985 ± 0.020 (2µm to 20µm)
- IEEE 488 (GPIB)