

ES1000-100 BLACKBODY AND TEMPERATURE CONTROLLER

System Use and Description

The EOI ES1000-100 cavity type blackbody is designed for laboratory or field use and comes complete with a built-in controller installed in its housing. It provides a stable and uniform radiation source for test and calibration of infrared sensors and systems. The ES1000-100 blackbody and temperature controller features digital PID control which provides display of both the set temperature and actual temperature simultaneously.

Special Features

The ES1000-100 blackbody and temperature controller unit is compact, portable and light weight. The digital controller provides the following features:

- ◆ PID closed loop compensation techniques for fast slew rates and settling times
- ◆ LED display of actual temperature and set temperature.
- ◆ Easy-to-operate input/display keypad

Calibration

Each ES1000-100 is individually calibrated at EOI prior to shipment. Recommended calibration cycle is six months. Calibration is traceable to ITS-90 via the National Institute of Standards and Technology (NIST).

Calibration services are provided by EOI at the factory.

Specifications	
Temperature	50 to 1000°C
Set Temp Resolution:	1°C
Stability:	±0.5°C
Cavity Diameter:	1 inch
Cavity Emissivity:	≤0.99
Dimensions:	11.4" x 11.4" x 14.3"
Power Requirements:	100-240 VAC, 50-60 Hz

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ES100-100-102006-JDS



ES1000-100 Blackbody Features:

- ◆ **Compact – Built-in Controller**
- ◆ **Light Weight – Only 22 lbs.**
- ◆ **High stability and Accuracy**
- ◆ **Closed Case Calibration**
- ◆ **2 Year Warranty**

Warranty

EOI Instrumentation is warranted for a period of two years. See EOI warranty for complete details.

Specifications subject to change without notice.

