

# BL690 LARGE AREA BLACK BODY CALIBRATION SOURCE

## SPECIFICATION



Part Number	BL690-350	BL690-500
Emitted target size	300 x 300 mm	500 mm diameter
Temperature range	50°C to 350°C	50°C to 500°C
Emissivity	0.95	0.95
Resolution	0.1°C	0.1°C
Stability (10 min)	± (0.1~0.5) °C	± (0.1~0.5) °C
Uniformity (2/3 area)	(0.2~0.8) °C	(0.5~1.2) °C
Environment	(5~40) °C, <85%RH	(5~40) °C, <85%RH
Power Supply	220V AC 10A	220V AC 10A
Power Consumption	3000 W	5000 W
Control	PID	PID
Communication	RS485	RS485
Dimension	48*21*53mm	68*21*73mm
Net Weight	Approx. 25kg	Approx. 43 kg

The BL690 series large area calibration source combines high temperature, unchangeable stability and perfect uniformity. The multi-segmentation temperature control provides a very precision and stable performance. Emitter source temperature control is carried out by a precision digital PID controller. Users can pre-set 10 set parameters to fast heat up the emitter. Eight different plate sizes are available, also custom design is possible.

## FEATURE

- Large area plate black body
- Emissivity is better than 0.95
- Aluminum surface, high heat uniformity
- Design heat size is much bigger than actual emitted size, that ensures the blackbody has a very high temperature uniformity.
- Pre-set 10 sets of PID parameters can control each temperature range separately, this technology provides fast heating up time, fast stability and long temperature stable time
- Tri-segmentation temperature control technology minimizes the temperature uniformity error from air cross ventilation
- Over temperature protection technology helps heating system turned off automatically in case of measuring temperature is higher 5°C~10°C than upper limit range
- Custom designs are available.

## TYPICAL APPLICATION

- Infrared temperature sensors
- Infrared thermal imaging systems
- Spectrographic analyzers

## SCOPE OF DELIVERY

- BL690 Large area black body calibration source
- Power cord with adapter
- User manual

## OPTIONAL ACCESSORIES AND SERVICE

- Accredited calibration certificate
- Customized size

## ORDERING MODEL NUMBER

- BL690-350
- BL690-500