

FLIR 4" Black body

P/N # 285-0029-02



FLIR offers 4-inch blackbody sources for customers that need a low-cost, uniform temperature source when using FLIR's Alt Lens Cal software to field-calibrate lens-less Photon or Tau cameras with third-party lenses, or to take advantage of the Supplemental Flat Field Correction (FFC) option available in the Tau camera models.

1) Specification

Black Body Weight	1360 g
AC adapter weighs	170 g
Dimensions of the metal frame	203(W) x 6" H x 3.5" D (excluding handle and terminal posts)
Aperture opening	4" (~10.2cm) in diameter
Warm-up and cool down time	Dependent on temperature set point, Typical 30 minutes

2) Operating

The temperature is set by adjusting the input voltage applied to the black body.

A conversion table is provided for each blackbody (see attached example for reference).

Temperature vs. Input Voltage			
Voltage	Current	Power	Temperature
VDC	ADC	Watts	°C
2	0.2	0.4	23
4	0.4	1.6	28
6	0.6	3.6	33
8	0.8	6.4	41
10	1.0	10.0	50
12	1.2	14.4	61
14	1.4	19.6	74
16	1.6	25.6	84
18	1.8	32.4	96
20	2.1	42.0	109
21	2.2	46.2	115
Max Voltage 24VDC, Max Current 2.5 ADC			
Temperatures are for reference only and may vary depending on ambient air temperature			