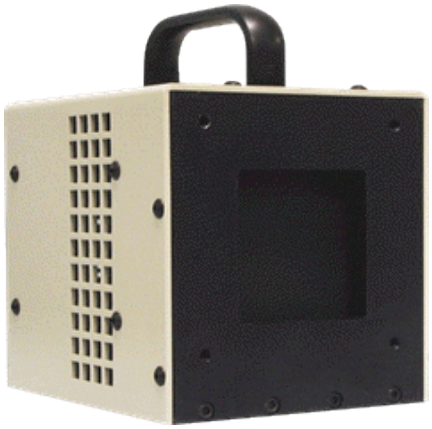
IR-2100/301

Extended Area Blackbody



2.5" x 2.5"
-5 to 145 °C

Specifications:

Temperature Range:	-5 – + 145 C
Emittance Watts/Cm^2 (Watts):	.17 (5.4)
Wavelength Range:	1-99 um
Emissivity:	0.96 +/- 0.02
Emitter Size: in (mm)	2.5” x 2.5” (63.5 x 63.5)
Source Type:	Extended Area
Temperature Resolution:	0.1 C
Calibration Accuracy:	+/- 0.2 C to NIST Standard
Stability: Short (Long) Term:	+/- 0.1 C (+/- 0.2C)
Response Time:	Ambient – Max <20 Min
Temperature Sensors:	Platinum RTD & Type T
Control Type:	Active Multi-Band P.I.D.
Line Voltage:	90 to 125 or 208-240 VAC 50-60 Hz
Power Requirements:	200 Watts Max
Cable Length:	8 Feet (2.4 m)
Dimensions: in (mm) Source:	4.25” H x 4.25” D x 5” W (108x108x127)
Controller:	5.1"H x 13.4"D x 12"W (130x340x304)
Warranty:	1 Year
Standard Apertures:	2.5” x 2.5” (63.5 x 63.5)
Remote Interface:	RS-232, RS-485 or IEEE-488/GPIB

Infrared Systems Development introduces a NEW Low-Cost Thermo-Electrically cooled / Heated blackbody source. The 0.375" Thick solid Copper Emitter plate provides superior uniformity and energy emission. Our Proprietary High Emissivity Black Coating provides >0.95 uniform Emissivity from 0.8 to 30 um. A Type "T" Thermocouple is embedded in the emitter plate to allow independent monitoring and calibration of the surface temperature. The IR-2100 series offers stability and uniformity comparable to competitive systems costing more than $20,000 for a fraction of their costs, providing the best cost to performance ratio.

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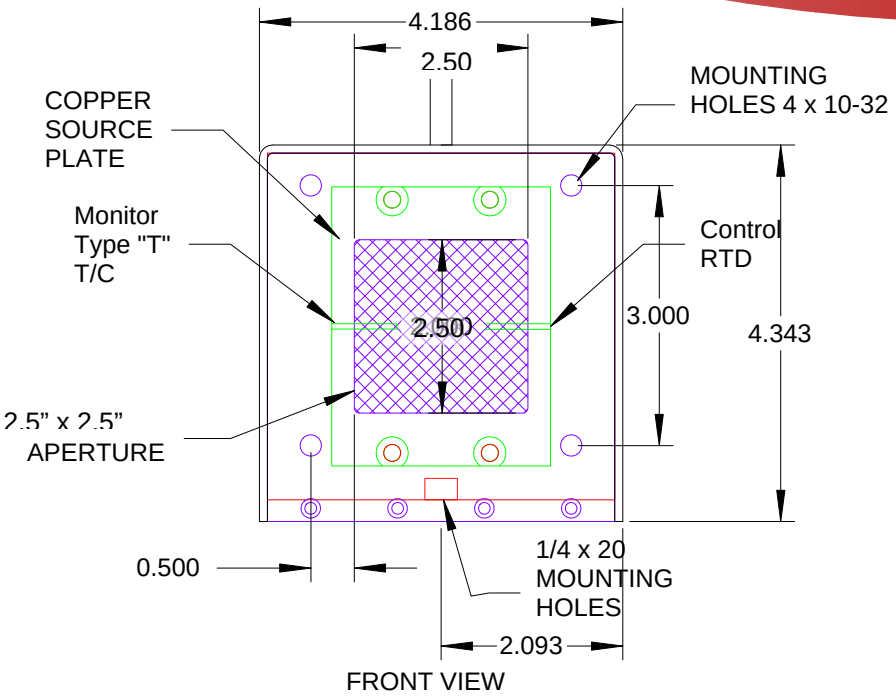
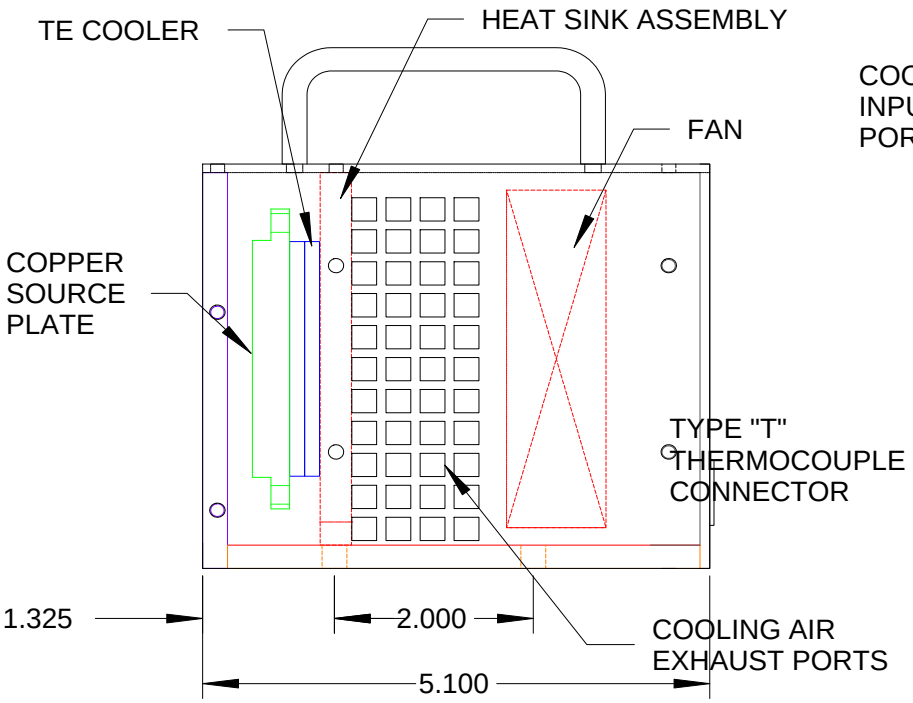
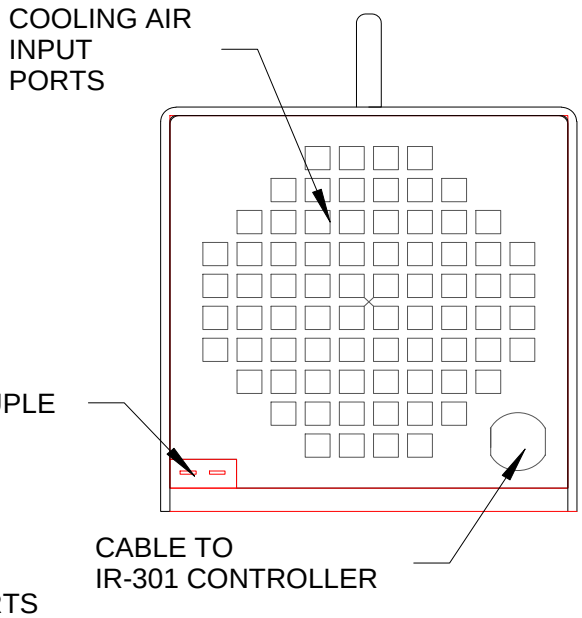
IR-2100/301 DIMENSIONS



FRONT VIEW



RIGHT SIDE VIEW (LEFT SIMILAR)



REAR VIEW

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