

MP-TB01

Blackbody for Temperature Correction

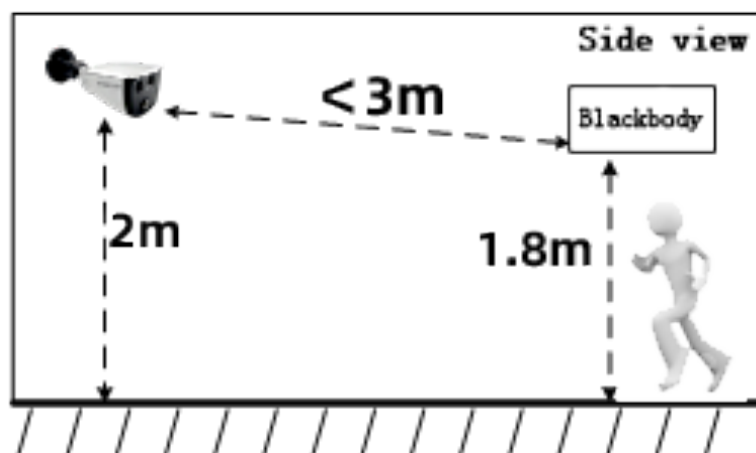


Introduction & Application

Blackbody is a calibration device and a standard temperature source. The thermal camera with blackbody can be calibrated in real time, which can keep the temperature measurement accuracy at a high level of $\pm 0.1-0.3^{\circ}\text{C}$.

Set Up Tips:

- Keep the distance between target and camera about 2.5-3m;
- The blackbody is used together with thermal camera, 1.5-3m away from the camera, camera installation should be higher than the blackbody, and the top view angle is the best ;
- Make sure that the blackbody would not be blocked by other targets during temperature measurement;
- Recommend to set up the solution in a stable environment without wind in the indoor space.



Effective Radiation Area	80mm x 80mm
Emissivity	0.97 ± 0.02
Temperature Range	(Ambient temperature +5°C) – (50°C)
Temperature Resolution	0.01°C
Measuring Accuracy	± 0.2°C (Temperature range 35°C-37°C, ambient temperature 23°C ± 3°C)
Temperature Stability	±0.1°C
Operating Ambient Temperature/Humidity	Ambient temperature 10°C-40°C Humidity ≤80%RH
Power Supply	110V-220V AC;50Hz-60Hz
Power Consumption	≤80W
Heating Process	<15minutes
Overall Size	200x150x110mm
Weight	<2KG