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FOTRIC
— Thermal Intelligence —

Blackbody User Manual



Installation



The Fotric blackbody calibrator can be easily installed on a tripod and is compatible with standard 1/4-20 tripod mounts.

If not being put on a tripod, the calibrator has four rubber feet for placement on a horizontal surface.



Photo shows tripod mounting of blackbody calibrator.

Quick Step

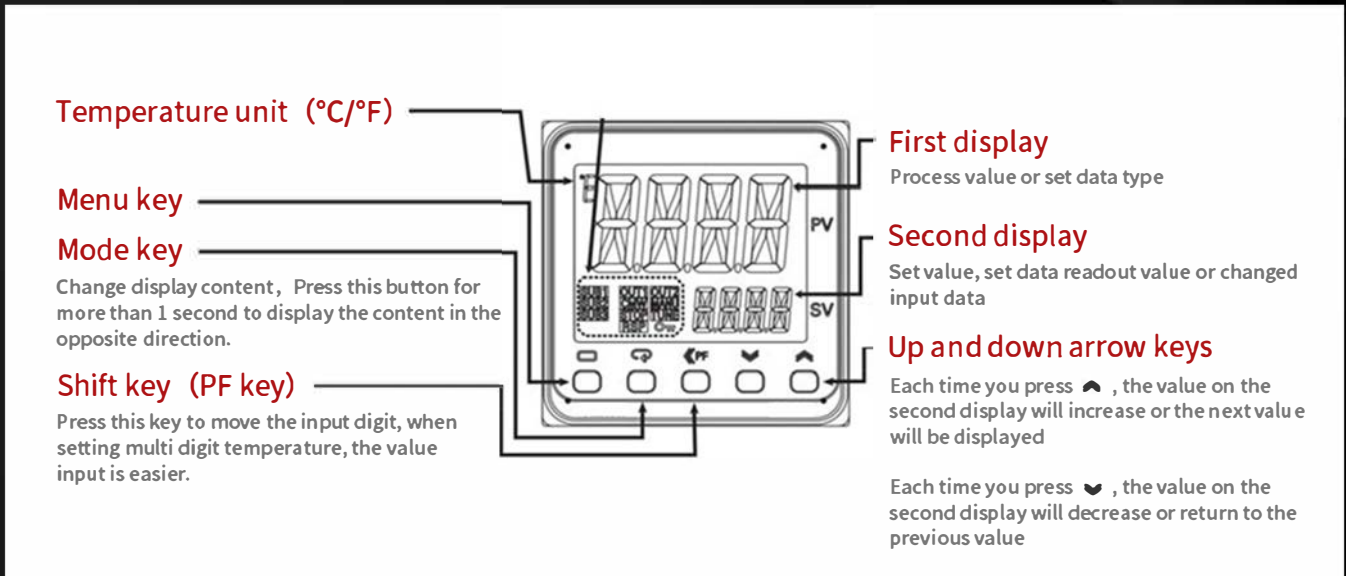


Connect the blackbody to a power supply and turn on the power switch.



The power indicator is on and the display shows the default temperature of 95°F. Set the blackbody temperature to 104°F (40°C) by using the up and down buttons on the unit's control panel. After 5 minutes of preheating, the blackbody is stable and ready for use.

Display Panel



Important

- Ensure power is connected properly
- To avoid burns, DO NOT touch the black target area
- To ensure accuracy of the device, it is preferable to use in an ambient temperature of approximately 77°F.
- Avoid using in environments exceeding the humidity and temperature recommendations. Using in environments outside of the recommended conditions will negatively affect accuracy of the device.

Product Parameters

Blackbody	
Working Voltage	AC100V~240V
Max Power Dissipation	260W
Working environment Temperature	0°C ~+40°C
Settable Temperature	RT+5°C ~100°C
Calibration Temperature	35°C ~40°C
Emissivity	0.97±0.02
Temperature Resolution	0.1°C
Settling Time	≤5min
Temperature Accuracy	±0.2°C @36°C
Temperature Stability	± (0.1°C ~0.3°C) /h
Effective radiation surface	3.94in*3.15in
Dimensions (LxHxW)	7.68in*5.90in*4.33in

Packing list:


Blackbody, power cord (one), product manual

Warranty:

The warranty period of this product is 1 year.



Unit Setting

1

HOLD the  MENU key for 3seconds, following interface as below.




3

Temperature unite adjusting by pressing buttons down  and  up (pressing down is Celsius, pressing up is Fahrenheit)



2

Click the  MODE key (one time) to see the following interface



4

Pressing the menu key for 2 seconds, and return to initial interface.

Then set the required temperature value, Wait until the display numbers is showing to be stable, the black body can work normally.

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