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## Caution

Pour éviter d'endommager l'instrument ou d'affecter la précision de mesure, veuillez suivre les instructions suivantes:

z Ne touchez pas la surface rayonnante du corps noir pour éviter les rayures sur la surface rayonnante du corps noir et affecter la précision de mesure de la température.

fl Utilisé l'intérieur uniquement. Il ne doit pas y avoir de convection d'air évidente et de forte irradiation lumineuse, pas

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de fortes interférences électromagnétiques et vibrations.

- Il est nécessaire de réserver un espace de dissipation thermique et de garder au moins 10 cm des objets environnants.
- **Garantie:** La performance de sécurité du corps noir ne peut être garantie après cinq ans à compter de la date d'achat (que le produit soit utilisé dans les cinq ans ou non). Au-delà de cette durée de garantie, les composants peuvent apparaître vieillissants et défectueux.

Afin d'assurer l'efficacité du fonctionnement du corps noir et la sécurité de la consommation électrique, il est recommandé aux utilisateurs de racheter ou de mettre au rebut le corps noir au-delà de la durée de garantie de sécurité.

## 1. Vue d'ensemble de produit et Caractéristiques

Corps noir de mesure de la température humaine (ci-après appelé corps noir). Les caractéristiques du produit sont les suivantes:

- Le compteur de contrôle de température intelligent importé est utilisé pour contrôler la température avec une haute précision et une bonne stabilité
- La surface cible est recouverte de revêtements aéronautiques à haute émissivité.
- Comparé au même type de produits, rentable.

## 2. Product pictures

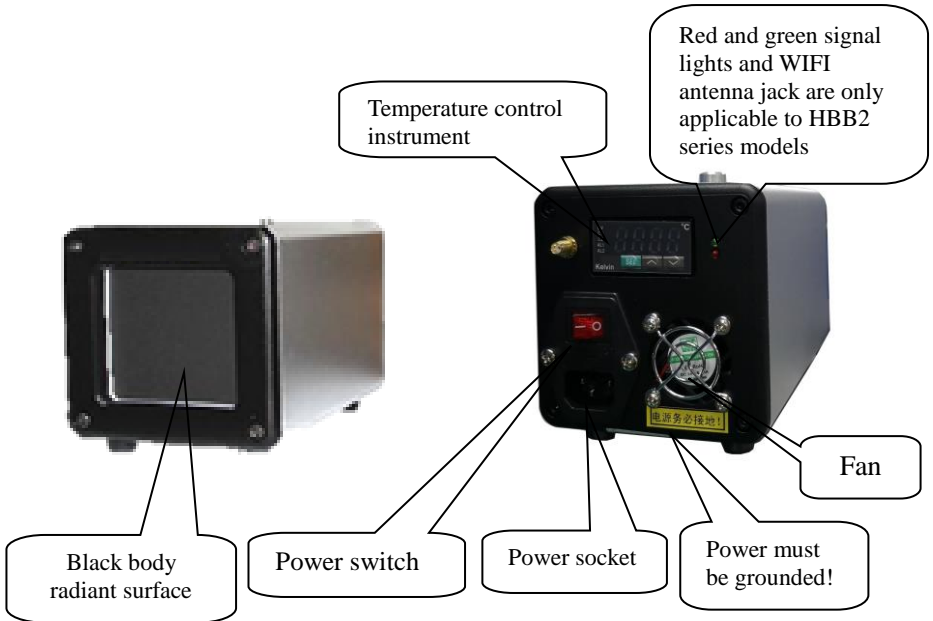


Figure 1: Product picture

### 3. Parameters

Working temperature	Factory settings □35.0°C □37.0°C □40.0°C (Environment temperature +5.0°C~50.0°C adjustable)
Effective radiant surface	70mm×70mm
Temperature resolution	0.1°C
Temperature accuracy	±0.2°C(single point)
Temperature stability	±(0.1~0.2)°C/30min
Effective emissivity	0.97
Temperature sensor	Pt100
Power supply	220VAC 50Hz 35W
Net weight	1.8 kg
Dimensions	W110 mm× H120 mm ×D180 mm
Ambient temperature/humidity	0°C~40°C/ ≤80%RH

## 4. Steps

### 4.1. Connect

Connect one end of the power cord configured by the factory to the power outlet on the back of the blackbody and the other end to the three-hole 220VAC/10A power outlet.

### 4.2. Temperature setting

- a. Turn on the power switch on the back of the blackbody and the red indicator light is on.
- b. See "3.Parameters" for the preset factory temperature of the boldface. The operation can start when PV value is stable and consistent with SV value.
- c. Blackbody operating temperature can be adjusted according to the need of the field. Press the "SEL" button (see figure 2), the "SV" indicator, press "^" or "v" button to increase or decrease the working temperature, and then press "SEL" to confirm. (See the table for the parameters of the control panel: temperature control instrument panel instructions.)
- d. At the end of the work, turn off the power switch on the back of the blackbody.

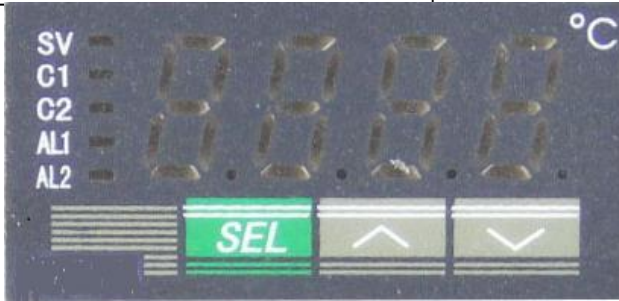


Figure 2: schematic diagram of temperature control instrument panel

### Temperature control instrument panel instructions

Parameter	Name	Function
C1	Control output 1 indicator light	This light is ON when control output 1 is ON
C2	Control output 2 indicator light	This light is ON when control output 2 is ON
AL1	Alarm lamp 1	When the alarm output 1 is ON, the light will be ON
AL2	Alarm lamp 2	When the alarm output 2 is ON, the light will be ON
SV	Set value display	Indicates the target temperature
SEL	Parameter selection key	Used to select and set the parameter set /Use to toggle display SV value /PV value
^	Increase key	Increase the SV value
v	Decrease key	Decrease the SV value

### 4.3. Common faults

Serial number	Fault phenomenon	Cause → solution
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1	No display on startup	Fuse is broken → replace the fuse
2	Display UUUU	Short circuit of sensor → return to factory for maintenance
		Temperature overrange → lower temperature
3	Display LLLL	Sensor break - return to factory for maintenance
4	Display FRL7	Control output is uncertain → return to factory for maintenance
5	Fan does not work	Fan is broken → return to the factory for repair
		Fan noise - add lubricating oil
6	After setting SV value, PV value does not respond.	The heating wire burns off → return to the factory for maintenance
		SV value is close to room temperature → change SV value
		Temperature control element failure - return to factory for maintenance

## 5. Calibration

To ensure the accuracy of blackbody temperature measurement, it is recommended to send the black body to Dahua for calibration regularly. The calibration cycle is usually one year.

## 6. Maintenance

a. The blackbody shall be managed and maintained by the designated personnel, keeping records of maintenance and use.

- b. When not in use, put the equipment into the packaging box, and ensure the storage environment temperature and humidity appropriate.
- c. It is recommended to use a neutral cleaner to clean the blackbody shell and a soft brush to clean the dust on the radiant surface of the blackbody.

The appearance and dimension of the product shall be subject to the actual delivery.