

Calibration section operation instructions			File no.		Issued date		Version			
			JE-ENG-W288		2020.2.29		V1.00			
Product model	YC-E13	Product name	IR thermometer		Process name	Temperature check	Standard working hours	35	Standard capacity	103
Operation steps:					kill requirement	level 2	Process	1	Staffing	1
1					2					
3					4					
5					6					
Incubator+ black					Digital					
Products to be calibrated										
Forehead thermometer calibration method:										
a. After the forehead thermometer is produced and assembled, it is shipped in batches to a calibration room with a constant room temperature of 25℃±0.5℃. The product needs to stand still for 2H before calibration to make the product reach thermal equilibrium; Press and hold the measurement key and install the battery. After more than 3 seconds, "ntc2" appears on the screen, indicating that the forehead temperature gun has entered the factory calibration mode. At this time, the measurement key can be released (as shown in picture 4)										
b. Then press the "Memo" key, and the word "CB1" appears on the screen(as shown in picture 5).Align the forehead temperature gun with the blackbody at 29.0℃, press the measurement key to collect data. After the acquisition is completed, the word "CB2" appears on the screen(as shown in picture 6). Align the forehead temperature gun with the blackbody at 45.0℃, and press the measurement key to collect data;										
c. After the acquisition is completed, the calibration is successful after power off.										
										
approved by	checked by		QC:		Made by:					
Operating conditions:										
1. The operator wears anti-static gloves or finger cots and an anti-static wristband to work;										
2. The operator debugs and tests the required temperature in accordance with the operating specifications of the precision constant temperature water tank;										
Material description:										
Item	Name	Spec.	no.	Quantity						
1	thermomet			1						
2										
3										
fixture tools and equipment:										
Item	Name	Model	Quantity	Remarks						
1	Incubator		3							
2	Black body tooling		3							
Matters needing attention:										
1. The constant temperature water tank generally needs 1-2 hours to stabilize after opening, before calibration										
At the same time, the air conditioner needs to be turned on and adjusted to 25℃±0.5℃ to prevent										
Ambient temperature affects the water tank;										
2. Measure the temperature of the constant temperature water tank with a digital thermometer every 1 hour to ensure										
The actual water temperature is consistent with the set temperature;										
3. Minimize personnel entry and exit in the test room, so as not to affect the indoor temperature change										
Change leads to test accuracy;										
4. Avoid wind indoors, because wind will affect sensor calibration and measurement										
Temperature at										
5. The infrared forehead thermometer must be accurately inserted into the tooling position every time.										
Setting deviation will lead to inaccurate calibration and ultimately affect the test accuracy;										
6. Do not tear off the protective film on the transparent cover to prevent scratches on the transparent cover;										

Calibration section operation instructions

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YC-E13				JE-ENG-W/288	Standard working hours	35	Standard capacity	103	V1.00
					Process	2	Staffing	1	

Operation steps:

1

Incubator + black body

2

Digital thermometer

3

Product to be



Forehead thermometer inspection method:

- Perform temperature inspection after the calibration is completed. The temperature of the inspection constant temperature room is controlled at 15° C ± 2° C. The product must be static for 1.5H before the inspection, so that the product reaches thermal equilibrium before the inspection can be carried out.
There are two constant temperature baths in the constant temperature room (the temperature is set to 36° C and 39° C respectively);
- The first step: point the tip of the gun to the 36° C black body tooling, and press the measurement button,
After the screen is displayed, the operator presses the MEMO key to switch, and the forehead thermometer screen displays 36° C ± 0.2° C (as shown in picture 4);



Operating conditions:

- The operator wears anti-static gloves or finger cots and an anti-static wristband to work;
- The operator debugs and tests the required temperature in accordance with the operating specifications of the precision constant temperature water tank;

Material description:

Item	Name	Spec.	no.	Quantity
1	thermometer			1
2				
3				
4				
5				

fixture tools and equipment:

Item	Name	Model	Quantity	Remarks
1	Incubator		3	
2	Black body tooling		3	

Matters needing attention:

- The constant temperature water tank generally needs 1-2 hours to stabilize after opening, before calibration
At the same time, the air conditioner needs to be turned on and adjusted to 15°C±2°C to prevent ringing
The ambient temperature affects the water tank;
The actual water temperature is consistent with the set temperature;
3. Minimize personnel entry and exit in the test room, so as not to affect the indoor temperature change
Change leads to test accuracy;
4. Avoid wind indoors, because wind will affect sensor calibration and measurement
Temperature at
5. The infrared forehead thermometer must be accurately inserted into the tooling position every time.
Setting deviation will lead to inaccurate calibration and ultimately affect the test accuracy;
6. Do not tear off the protective film on the transparent cover to prevent scratches on the transparent cover;

approved by:	checked by:	QC:	Made by:
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