

**·5-9-5 setting****·5-9-5-1 calibration**

Same operation as shortcut menu

·5-9-5-2 picture in picture

Same operation as shortcut menu

·5-9-5-3 Hot spot tracking

Same operation as shortcut menu

·5-9-5-4 screen Brightness

Screen brightness level can increase or decrease the screen brightness of eyepiece display.

 The thermal imager is equipped with 1-10 screen brightness options, and the 1-10 screen brightness ranges from weakest to strongest. Users can choose appropriate screen brightness according to their personal visual habits.

Note: The brightness of the screen is too high, and long-term use may cause damage to vision.

**·5-9-5-5 Automatic sleep**

The automatic sleep function is turned on and off, and the automatic sleep time is set;

After the automatic sleep is turned on, the device will automatically enter the sleep state after the thermal imager is not used for a long time and reaches the automatic sleep time.

In the sleep state, most functions of the device will be turned off, and the device can be turned on quickly after waking up the sleep.

·5-9-5-6 automatic OFF

The automatic shutdown function is turned on and off, and the automatic shutdown time is set;

After the automatic shutdown is turned on, the equipment will automatically shut down after the thermal imager has not been used for a long time to reach the automatic shutdown time.

·5-9-5-7 Reset

Restore the factory default settings;

**• 5-9-6 Advanced settings****• 5-9-6-1 Reticle Type**

The thermal imager is provided with 8 types of dividing lines to choose from.

• 5-9-6-2 Reticle color

The thermal imager is provided with five kinds of dividing line colors to choose from. They are white, black, red, green and yellow.

• 5-9-6-3 Model

The thermal imager is equipped with 6 modes, which can preset the brightness and contrast in different scenes, and can quickly switch during use.

**• 5-9-6-4 Zeroing**

When the thermal imager is installed on different equipment, the zero position will be different.

When the thermal imager is replaced with assembly equipment, zero calibration is required.

Zero calibration can be carried out at 25m, 50m and 100m distances respectively.

- X: move the dividing line left and right;
- Y: move the dividing line up and down;

• 5-9-6-5 language

Switch the operating language of the thermal imager.



• 6 Analysis and elimination of common faults

If your instrument fails, first check the common failures shown in Table 5. If the causes are not listed below, please contact our company as soon as possible.

Fault detect	Fault location	Solution measure
The thermal imager does not start after pressing the power button for a long time	When the battery installed correctly Whether the battery charged enough The battery cover is not tightened	Open the battery cover and check whether the battery is loaded in the opposite direction Take out the battery and charge it Tighten the lens cover



Fault detect	Fault location	Solution measure
The image quality is poor and the image is blurred after starting up	Scene correction is not aligned with the uniform temperature correction target The lens is out of focus	Cover the lens cover, or use other targets with uniform temperature distribution for compensation and correction Rotate the lens focusing ring until the image is clear
The image appears bright lines, black edges and colorful screens	Image correction is not performed	Perform a compensation (correction) operation
Imaging blur	The lens is out of focus Contamination of infrared lens	Rotate the lens focusing ring until the image is clear Clean the lens with a special lens cloth
Observe different distances	The lens is out of focus	Rotate the lens focusing ring, Until the image is clear
Uncle ar interface	Inappropriate eyepiece vision	Adjust the visual acuity according to the instructions



Fault detect	Fault location	Solution measure
During use, the thermal imager suddenly shuts down	Loose battery compartment cover	Tighten the battery compartment cover
In the process of use, the precision drops obviously	Loose connecting seat	Check whether the connecting seat is completely locked
Unable to shut down normally	Unable to shut down	Press and hold the power button for forced shutdown

• 7 maintaining

If the target is not observed for a long time after the observation is finished or started, it should be shut down in time to prolong the effective utilization time of the thermal imager.

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The lens of thermal imager is an important optical component. During installation and use, avoid oil stains and various chemical substances from contaminating and damaging the lens surface. After use, please cover the lens cover.

When the thermal imager is not in use and during transportation, please take out the battery and place the thermal imager in the safety box.

When the thermal imager is stored for a long time or does not work, it should be stored in a cool and dry environment as much as possible.

Do not scrub the thermal imager housing with chemical solvents, thinners, etc., but clean, soft and dry flannelette.

The thermal imager lens only needs to be cleaned when it is obviously dirty. Please avoid touching the lens surface. The acidic substances on the skin left by fingerprints will damage the coating and lens surface. Only use special lens cloth to clean the lens.

When it is not used for a long time, it should be checked and corrected once every six months.

Thank you for choosing this product. In order to fully enjoy the perfect after-sales service support, please carefully read terms of product warranty card after purchase and keep it properly.

We will provide you with after-sales service according to the product standard warranty commitment. Please refer to official website for details of after-sales service policy. Some information is extracted as follows:

1. The warranty period starts from the first purchase date of the product, and the purchase date is subject to the invoice date of the purchased product. If there is no valid invoice, the warranty period will be calculated from the product delivery date. If the invoice date of the product is later than the actual delivery date of the product, the warranty period shall start from the actual delivery date of the product

2. No warranty scope (only excerpts, please refer to the after-sales service policy for details):

- ① beyond the prescribed warranty period;
- ② Faults or damages caused by misuse, accident, modification, inappropriate physical or operating environment, natural disasters, surge and improper maintenance or storage;
- ③ Faults or damages caused by third-party products, software, services or behaviors;

- ④ normal decolorization, wear and consumption during product use;
- ⑤ The product can run normally without interruption or error;
- ⑥ Data loss or damage;
- ⑦ Consume spare parts, unless it is a failure due to material or process defects;
- ⑧ Unable to produce valid product warranty certificate and valid original purchase invoice or receipt, the original serial number label of the product is altered, replaced or torn, the product has no serial number or the product model or number on the warranty certificate is inconsistent with the real product;
- ⑨ The product is not used according to the attached instructions and operation manual, or the product is not used for the intended function or environment, which has been confirmed by NNPO lithography

After that, determine any other circumstances in which you violate the operation manual.

3. The Company is not responsible for the extra promises made by the seller or any third party, and you should ask these third parties to honor them.

protection to fix card

User name	
Detailed address	
Tel	
Product model	
Product number (S/N)	
Purchase date	
Seller	
Tel	

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Note:

1. Enjoy free warranty during the warranty period and preferential services outside the warranty period with this card.
2. This warranty card is only applicable to the products in this warranty card, and is valid only after being stamped by the sales unit.
3. The product warranty clauses of special projects shall be subject to the specific purchase and sale contract.

FCC RF exposure statement:

The equipment complies with FCC Radiation exposure limit set forth for uncontrolled environment.

Warning: Changes or modifications to this unit not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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Brand: NNPO
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