

# Operation manual (Night Vision Monocular NVT-M01-2X24/3X42/4X50)

This product possesses high performance condenser and high-resolution images. You will have brighter eyes with it in darkness. It is ideal for police, border patrol, maritime operations, search and rescue, security and all activities at night. An anti-shock bag, manual, color box and inner box are included.

## Technical data

Image intensifier tube	Gen 1
Magnification	2X / 3X / 4X
Objective lens diameter	20 / 42 / 50 mm
Field of view	30 ° / 20 ° / 15 °
Visual range	110 / 150 / 170 m
Diopter	+/-4
Battery (working power)	CR123 A(3V)
Tripod interface	1/ 4 inch
Dimension	140×55×83 / 165×55×83 / 195×55×83mm

## 1. Knowing the product

- 1 Electrical Power Button: Power on/off
- 2 IR Power Button: IR Power on/off
- 3 IR light: Emitting IR
- 4 Objective lens : Adjusting the distances
- 5 Eyepiece : Adjusting the clearness of images
- 6 Battery house: A piece of CR123A battery



## 2. Use and tests

**Caution: under no circumstance can you turn the device to the direction of lights exceeding 1 lux, such as headlights or other bright light. Under no circumstance can you place the device in brightness for a long time which may destroy it.**

2.1 This product needs one piece of CR123A battery. It works at temperature between subzero 30°C and 40°C. The humidity in the working environment should be under 65%.

2.2 Please remove the cover of battery house before installing the batteries. Please install them in correct polarities and replace the cover.

2.2.1 If you want to test the product in brightness, please make sure the objective lens covered before powering it on. There is a hole about  $\phi 1.5$  on the cap of objective lens. Through the hole, it gets light for testing.

2.2.2 Take off the objective lens cap in dark places to start your test or use.

2.3 After entering the darkness, please remove the objective lens cap.

2.3.1 Press the electrical power button.

2.3.2 Please turn on the IR light by pressing the IR Power Button in darkness. If there is starry light, you don't need to turn it on.

2.3.3 When viewing through the eyepiece, please adjust the Eyepiece Rotator to see the screen more clearly.

2.3.4 In the valid range, according to the different target distances, adjusting the Objective Lens Rotator can help you see the targets more clearly.

2.3.5 After seeing the targets, please slightly adjust the Eyepiece Rotator and Objective Lens Rotator to ensure the best performance.

2.36 The green indicator means the device is working, and the red one means the IR is working. After using the device, please confirm that you have cut off both powers, and recover the cap of objective lens.

2.37 If necessary, please use it on the tripod.

### **3. Instructions**

Please follow the instructions to ensure the best performance of your device.

3.1 Under no circumstance can you turn the device to the direction of lights exceeding 1 lux, such as headlights or other bright light. Under no circumstance can you place the device in brightness for a long time which may destroy it.

3.2 Under no circumstance can you disassemble the device.

3.3 Please keep the device in a cool and dry place.

3.4 Please keep the device from heating, cooling and ventilation machines, direct sunshine and humidity.

3.5 Please avoid shock or drop in use. The device is composed of precise optoelectronic components. Any abuse is harmful.

3.6 Please wait for 5 hours to use the device in warm environments after use in cold environments. Otherwise, the inner circuits will get destroyed because of sudden heat and coldness.

3.7 Please use professional cleaning products to clean the optics. Please use soft and neat cloth to clean the case.

3.8 Please keep the device clean and apart from the pollution of dust, corrosive gas and liquid.

3.9 Please store the device in environment with temperature around 10°C and humidity below 70%. Please take away the battery if you do not use it over one month.

### **4. Cautions**

4.1 If you cannot power on the device, please check whether the batteries are correctly installed, such as whether the batteries are in the correct direction of polarities, whether the batteries and battery house are clean. If necessary, please clean the polarities and metal pieces.

4.2 The device is a hi-tech product with microcomputer circuit board, which is different from mechanical ones in markets. It takes 1-2 seconds for delayed memory after pressing the button. If you press too quickly, the device may fail to work. Under such circumstance, batteries need to be taken away. Then, restore the battery and power on.

4.3 Rotate the eyepiece and objective lens until the image is clear. If still unclear, please clean the lens.

4.4 Flashlights:

4.4.1 In bright environments, the device has a self-protection flashlight. The lasting time depends on the time the device is placed in such environments. Please recover the cap and use in the dark places.

4.4.2 In the first few seconds, even in the darkness, the flashlights may occur because the device starts self-adjustment.

4.4.3 If you use in dark places after in bright environments, the flashlights may occur for a few seconds.

### **5. Guarantee**

The product is guaranteed with reliable 3-year warranty from the date of purchase. Whether it is a free warranty depends on the manufacturer identification. Man-made damage and damage mentioned above are not included.