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RG55 Series Night Vision Monocular

Specifications

Customer :	
Customer Part NO :	
Maker Part No :	
Maker Part Name :	
Release Rev. :	
Date Submitted :	2017/5/24

Specification submitted			Please confirm your acceptance of this approve sheet return to send by post.
Specification <u> 1 </u>			
Others:			Customer's signature :
Approved	Checked	Prepared	
			DATE :

RG55 Series Night Vision Monocular



Product overview:

Night Vision monocular was designed to provide enhanced viewing capabilities in low light conditions, including complete darkness. Night vision does not enquiry additional light source, although an integrated hazard-free infrared illuminator (7) will greatly enhance the scope's effectiveness in complete darkness.

Night vision scope's application:

- Wildlife observation
- Astronomy
- Boating and hunting
- Search and rescue

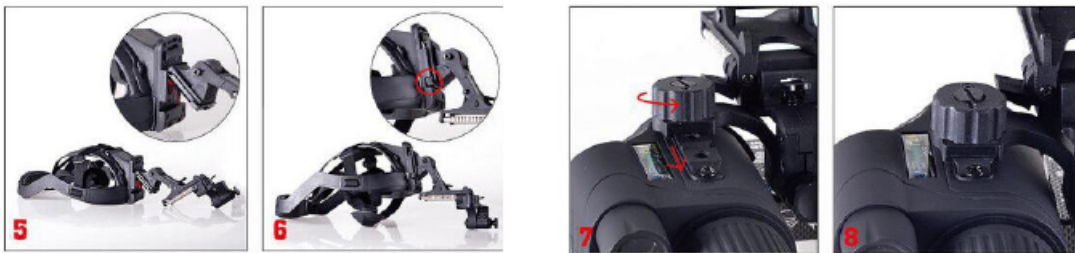
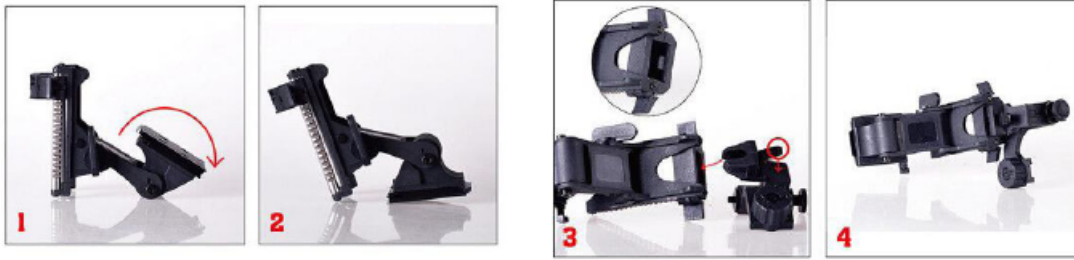
Battery Installation:

Night vision runs on one CR123 battery. To install the battery, unscrew the battery compartment cover (6), insert the battery compartment with the negative (-) terminal being on the top, Screw the battery compartment cover (6) back. Do not over tighten

Guide photo reference



Optional: follow below steps to assemble head mount, bracket and NVM.



Use and Testing

- To test your night vision device in light condition, be sure the objective lens cover (1) is in place, covering the lens, prior to pressing the “on” button. The lens cap has a pinhole opening to transmit a little of light for testing.
- Night vision device can be used without lens cover (1) only in dark condition.
- Remove the lens cover (1) and place it inside the carrying case.
- Activate the device by pushing the “on” button (3).
- If the object is viewed in a complete darkness, activate the infrared illuminator by pressing “IR” button (2). Nearby ‘No’ button. (3)
- Direct night vision at the observed object, to focus, adjust objective lens (5) and ocular lens (4) until

the image get be clear and sharp. To see the different distance target, just need to adjust the objective lens (5) properly.

- Green LED (8) means the unit is working, red LED(9) means the IR(7) is on. Please turn off the unit and keep the lens cover closed after using.

CAUTION!

Your night vision can be used at a cold condition, however if it is brought to a warm condition, the unit should be held on at least 3 hours before use it again. Otherwise the unit shall be damaged by the temperature difference.

Warning and precaution:

Night vision monocular is designed to provide many years of reliable service, to ensure night vision long-term performance, please follow the below operate tips:

- Cannot be used at such a condition with strong light, aiming at car light or street ling is forbidden.
- Do not open the device housing if you are not professional, do not try to self-service the device.
- Always store the unit in a dry, well-ventilated place.
- Keep the unit away from any heat devices, direct sunlight and moisture.
- Clean lenses with lens cleaning solution and soft cloth, do not pour liquid. Cleaning solution directly onto the lens surface. Never use paper products for lens cleaning.
- Clean the interior of night vision with soft clean cloth

CAUTION!

Damage to this device from failure to observe these warnings may avoid the night vision' warranty.

Night Vision Imaging Target Sheet

You may see small blemishes in the image, there are cosmetic blemishes within the intensifier tube, which are not a defect and are normal for this unit class as long as they do not exceed the following:

- Zone 1

Up to 4 very small and 2 small spots are acceptable.

No medium-sized spots are acceptable.

- Zone 2

All very small and up to 6 small spots and 3 medium spots are acceptable, it is in the zone that images clarity reduces.

- Zone 3

All spots are acceptable in the outer zone since this is outside the area of clearest vision.

Please noted that spots/blemishes do not affect the performance of an image intensifier tube.

Technical specification

Lens magnification, X	1	3	5
Lens systems, mm	24	44	50
FOV at distance 100m/110 yds(m)	30m/F1.1	50mm/F1.2	80mm/F1.7
Field of view(°)	30	18	12.5
Focus range (m)	0.5 to ∞	1.0 to ∞	1.5 to ∞

Exit pupil diameter(mm)	6		
Eye relief(mm)	15		
Eyepiece Diopter adjustment,	+4 -4		
Power supply	3V lithium battery		
Battery life IR on(hour)	20		
Battery life IR off(hour)	60		
Over dimensions, LxHxW(mm/in)	140x81x61	183x81x61	203x81x61
Weight(g)	320	530	613
EFFECTIVE DISTANCE			
Detection range(m)	200/120	220/175	
IR Power(mW)	25≤		
IR Wavelength(mm)	850		
IR Effective distance(m)	25		
IP Standard of water-resistance	IPX4		
Humidity (%)	93		
Operating temperature(°C)	-30 to +45		

Night vision Kit includes:

1. Night vision monocular
2. Protective carrying case
3. Wrist strap
4. User manual
5. Warranty card
6. Lens cap
7. Lens cleaning cloth

*Maximum distance at which a human figure can be detected under ideal viewing conditions; defined as clear conditions (Full moon, no fog, no dust, etc.).

Troubleshooting

Night vision dose not turn on

1. Re-install the battery with the correct polarity orientation.
2. Install a fresh battery.
3. Clean the battery compartment, focusing on the contact points.

The observed images flicker or flashes

If the images flicker or flashing, there is too much light. Turn off the unit or place the objective lens Cover (1). Noted, that is normal if the flicking occurs for a few seconds when the unit is activated in the dark conditions. If the flicking continues, redirect the unit to the dark areas, if the flicking does not stop, there is excessive light.

The images is not focused.

1. Adjust the monocular according to the instructions in section titled Use and Testing.

2. Check the surface of eyepiece (4) and objective lens (5) and clean if the necessary, from dust, condensation, frost, etc.

3. Replace the battery if the battery voltage less than 2.0V.

Image brightness decreases or disappears.

This can be caused by unit being exposed to bright light sources. Turn the unit off or redirected to the darker area.

Storage

Always store the unit in its carrying case in a dry, well-ventilated space, long-term storage recommended at temperature above 50°F and at humidity level no more than 70%, for prolonged storage, remove the battery!

Limitation of liability

The manufacture will not be liable for any claims, actions, suits, proceedings, costs, expenses, damages or liabilities arising from the use of this products. Operations and usage of the products are the sole responsibility of the user, the provision of the products sold services performed by manufacture to the user should not be interpreted, construed, or regarded, either expressly or implied, as being for the benefit of creating and obligation toward any third party of legal entity outside manufacture and user.

The remedies of the purchaser set forth herein are exclusive and the total liability of manufacturer should not exceed the purchase price of unit, the user is solely responsible to comply with local and national laws regarding use of this product. In no event shall manufacturer be liable for consequential, incidental, special or other damages.