

# NV/1-5



*u s e r ` s   g u i d e*



# FEATURES

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- High Quality 2<sup>nd</sup> or 3<sup>rd</sup> or 4<sup>th</sup> gen. light intensifier tube
- Super fast lens system provides the user with a clear and sharp image
- Dual eye viewing system for long viewing sessions
- Built-in Infra Red illuminator lets you see even in total darkness
- Interchangeable lenses for different magnification
- Head or helmet mounted for hands free use
- Rugged and versatile design
- Easy to use digital controls
- Two years warranty

# SPECIFICATIONS

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Magnification .....	1X (3X,5X optional)
Intensifier tube .....	Gen. 2 or Gen.3 or Gen.4
Detection range.....	150(Gen.2) or 200(Gen.3) or 300(Gen.4)m/y
Recognition range.....	100(Gen.2) or 180(Gen.3) or 225(Gen.4)m/y
Lens System .....	35 mm; F1:1.2
Field of view .....	40°
Range of Focus.....	0.25m to ∞
Power Supply .....	3 volt lithium
Battery Life .....	10 hours
Operating Temp .....	-30°F to +110°F
Dimensions .....	172x62x102 mm (6.7" x 2.5" x 4")
Weight .....	0.45kg (0.9 lb)

# APPLICATION

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Compact and lightweight, rugged (metal not plastic), and a top-notch performer the NV/1-5 is an exceptional choice for hands free usage.

The NV/1-5 goggles have a built in IR for total darkness with indicator "ON" light within the FOV and a flip-up headset.

The NV/1-5 is available with a wide range of image intensifier options to meet a wide array of specification requirements.

The NV/1-5 night vision goggles is a complex optoelectronic system for individual use. The device consists of the objective lens assembly, eyepiece and the body. The body contains a image intensifier tube assembly with an integrated high voltage power source and the battery housing.

Objective lens protective cover (not shown) is intended to protect the objective lens from dust and scratches. It also will act as a daylight filter, allowing you to test the scope in daylight or other bright light situations. The pinhole in the center of the protective cover allows the user to check the operation ability of the device in daylight conditions.

**NOTE:** Do not test the scope in daylight conditions even with the daylight filter/lens

cap on for more than ten (10) minutes.

## OPERATION

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- Take the monocular out of the case.
- Install the battery into the housing with the polarity order as shown on the scope. Battery Type: 3 Volt Lithium, #CR123A .
- Press the button (short press - less than 1.5 sec.) to turn the unit on by the protective lens cover still attached to the lens. **Do not turn the unit on in the daytime without the protective lens cap on.** You should see green glow in the eyepiece.
- Observe the scene and adjust the diopter for optimal image clarity.
- You may now enter a dark environment or simply shut the lights off in order to darken the room.
- Next, remove the lens cap/daylight filter. Adjust the front lens for the distance of the focus. You should not have to readjust the diopter.
- To turn the unit off, push the button again by short press (less than 1.5 sec).

## FOCUSING

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To focus the NV/1-5, first you will need to adjust the diopter. Simply turn the diopter clockwise until it stops. Then, while looking through the diopter at an object, slowly turn the diopter back counter clockwise until the grain in the image is sharp.

**NOTE:** We suggest that you focus the diopter during daylight with the filter on.

Next focus the front lens until the image and the grain are both sharp. When you are in low-light conditions and the daylight filter is off, you may focus the front lens to receive sharp image, the diopter should not be adjusted.

**NOTE:** The front lens should be readjusted as you view objects at different distances.

## INFRA-RED ILLUMINATOR

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Infra-red illuminators, or IR illuminators, are common to night vision. The IR light greatly enhances the performance of the NV/1-5 while remaining almost totally invisible to the naked eye.

The NV/1-5 goggles have a built in IR with indicator "ON" light within the FOV To turn the IR on, push the button by long press (more than 1.5 sec). It is important to remember that the IR illuminator is simply an infra red light source, and like any light source, it may loose its effectiveness over a great distance.

To turn the IR off, push the button again by long press (more than 1.5 sec).

**NOTE:** The IR will automatically turn off when the unit's power is turned off.

## FLIP-UP HEADSET

### fitting the headGear

- 1) Fit the headgear to your head size. Adjust the head gear fist before attaching the NV/1-5 to it.
- 2) Loosen all the straps and place the headgear on your head.
- 3) Tighten the straps until the headgear fits firmly.

### Goggles installation and adjustment

Now you are ready to mount the NV/1-5 on to your headgear.

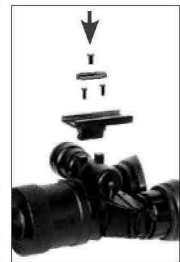
- 1) Remove the already adjusted headgear from your head.
- 2) Push button [1] and insert the bracket [2] of the NV/1-5 to the rail of the headset.
- 3) Place the headgear with NV/1-5 onto your head.
- 4) Loosen the screw [3] and move the unit along the rail for eye relief adjustment .

The NV/1-5 headset has a flip-up mechanism. Push the button [4] on the side of mount and lift the unit up until the unit fixates in the top position.

Push same button to lower NV/1-5 to viewing position.

If you need increase the eye relief of your goggles, you can displace the bracket on the top of NV/1-5.

- 1) Unscrew the screw and detach the end-cap from the bracket of NV/1-5.
- 2) Unscrew the 2 screws and detach the bracket from the NV/1-5 body.
- 3) Turn the bracket 180 degrees.
- 4) Screw the 2 screws back into place.



## HELMET MOUNT (optional)

mount fits securely onto helmet via a rugged strapping device and grooved hooks. With helmet mount, NV/1-5 can be positioned directly in front of user's eyes or flipped.

### Installation

Helmet mount for attachment of 's NV/1-5 to a standard PASGT helmet. Helmet

mount, NV/1-5 can be positioned directly in front of user's eyes or flipped.

- 1) Install the mount onto helmet as shown on the picture.
- 2) Tighten and fixate the straps [1]
- 3) Attach goggles to the rail. Push button [2] and insert the bracket of the NV/1-5 to the rail of the mount.
- 4) Place the helmet on your head.



#### aDJuStment

- 1) Loosen the screw [3] and move the unit along the rail for eye relief adjustment. Tighten the screw [3].
- 2) Loosen the top vertical fixation screw [4]. Adjust goggle vertical position. Tighten vertical position screw.
- 3) The NV/1-5 helmet mount has a flip-up mechanism. Push a button [5] on the side of mount and lift the unit up till fixation in the top position.

## 3X AFOCAL LENS (OPTIONAL)



The NV/1-5 with 3X or 5X front lens can be used as a powerful night vision bi-ocular.

To install 3X Afocal Lens screw it on the front lens of NV/1-5.

To install 5X lens unscrew the objective lens of NV/1-5 and screw F12 Lens to the free place (make sure that the unit is turned off).

## STORAGE AND CARE

- If the device is not to be used for extended period of time (more than 10 days) remove the battery.
- Avoid touching lenses. If fingerprints or traces of dirt or dust appear, clean their surface with a Photographic lens cleaning tissue.
- Keep lens cap/daylight filter on when not in use.
- The NV/1-5 is not harmful to the user or the environment.
- Do not disassemble except to clean the front lens and eyepiece: **it will void your warranty.**
- Evaluate the scope function by looking through it in a lit environment **with the daylight filter lens cap on. Never use in daylight without the daylight filter lens cap on.**
- **Never point the NV/1-5 at a bright light source.**
- Adverse atmospheric conditions such as fog, smog, or haze and a lack of ambient light (moon or starlight) may diminish the effective viewing distance.