

# ATN NVB8

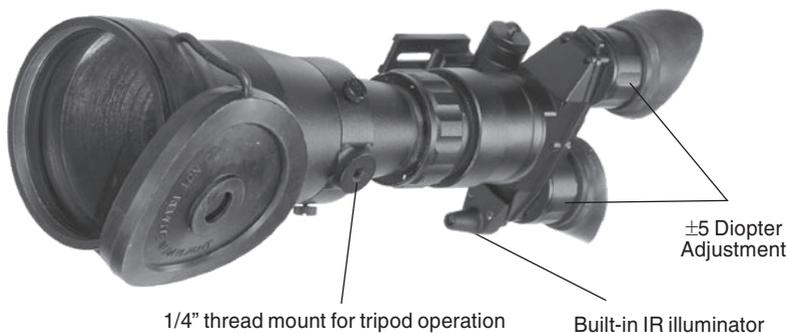
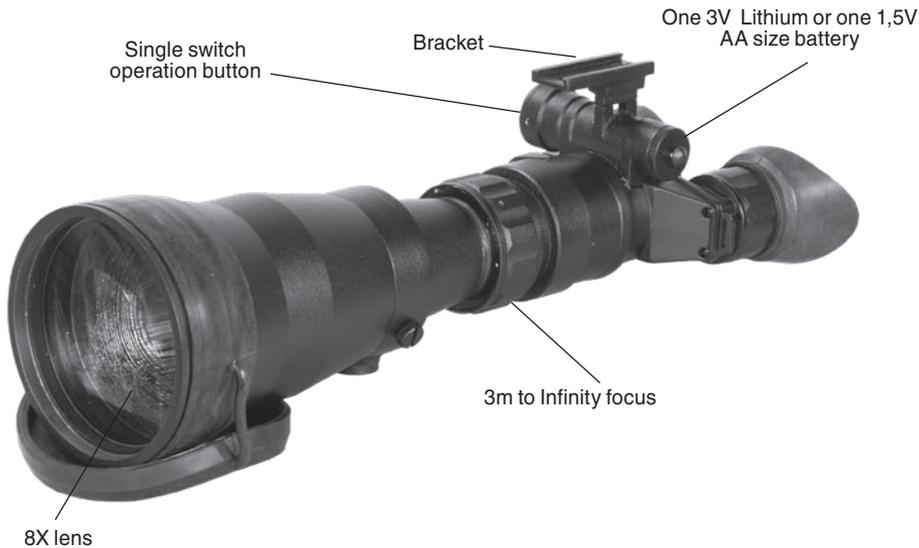


## *u s e r ` s g u i d e*

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**AMERICAN  
TECHNOLOGIES  
NETWORK  
CORP.**



**Infra-red illuminators IR450**



**NVB8 with IR450**

## CAUTION:

**THIS PRODUCT CONTAINS NATURAL RUBBER LATEX WHICH MAY CAUSE ALLERGIC REACTIONS.**

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# SPECIFICATIONS

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Magnification.....	8x
Intensifier tube .....	Gen. 2, CGT, HPT or Gen.3
Field of view .....	6.5°
Range of Focus .....	3 m to ∞
Power Supply .....	3 V, Lithium or 1.5V, AA type
Battery Life (CR123A type) .....	60 hours (20 hours w/IR illuminator)- Gen.2+; 50 hours (17 hours w/IR illuminator)- Gen.3
Operating Temperature .....	-40°C to +50°C
Storage Temperature .....	-50°C to +70°C
Dimensions .....	12.4" x 4.3" x 4"/ 315mm x 108mm x 102mm
Weight.....	2.6 lb/1.16 kg

\* ATN reserves the right to change the above specifications at any time without notice

# FEATURES

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- High Quality Gen. 2, CGT, HPT or Gen.3 image intensifier tube
- Super fast lens system provides the user with clear and sharp image
- Dual eye viewing system for long viewing sessions
- Built-in Infrared illuminator lets you see even in the total darkness
- Rugged and versatile design
- Easy-to-use digital controls
- Tripod mountable
- Weather and fog resistant
- Two-Year Warranty

# APPLICATION

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The NVB8 are powerful night vision bi-oculars. They are weather and fog resistant and can withstand the rigours of almost any environment. The NVB8 will give you the range and clarity that other bi-oculars simply can not touch.

The NVB8 have a built-in IR for total darkness with indicator "ON" light within the FOV.

The NVB8 are available with a wide range of image intensifier options to meet a wide array of specification requirements.

The NVB8 complex optoelectronic system for individual use. The device consists of an objective lens assembly, an eyepiece and a body. The body contains an image intensifier tube assembly with an integrated high voltage power source and a battery housing.

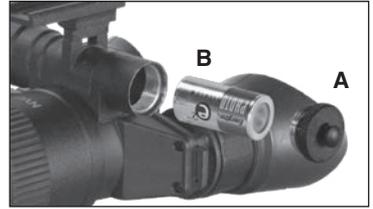
The objective lens protective cover is intended to protect the objective lens from dust and scratches. It will also function as a daylight filter, allowing you to test the scope in daylight or other bright light situations. The pinhole in the center of the protective cover allows the user to check the 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.

# BATTERY INSTALLATION

## Install standard CR123A batteries as follows:

1. Unscrew the battery cap(A).
2. Insert CR123 battery(B), observing the polarity as indicated.
3. Replace the battery cap and screw cap hand tight.



## Install AA batteries as follows:

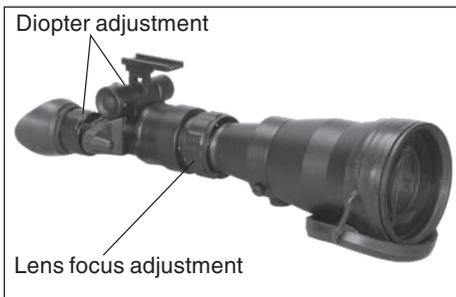
1. Unscrew the battery cap(A).
2. Screw the AA battery adapter(C) in to the battery housing.
3. Insert the AA battery(D), observing the polarity as indicated.
4. Replace the battery cap and screw cap hand tight.



# OPERATION

- Take the NVB8 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 with 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 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 focus. You need not change the diopter adjustments meanwhile.
- To turn the unit off, push the button again by short press (less than 1.5 sec.).

# FOCUSING



To focus the NVB8, first you will need to adjust the diopter. Simply turn the diopter clockwise until it stops. Then, while looking through the eyepiece at an object, slowly turn the diopter counter-clockwise until the grain in the image is sharp.

**NOTE:** We suggest that you focus the diopter in the 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 environment and the daylight filter is

off, you may focus the front lens to obtain the sharpness of the image, leaving the diopter adjustments unchanged.

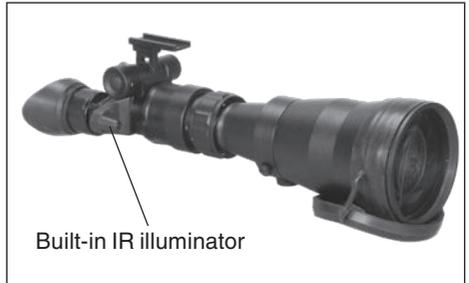
**NOTE:** The front lens may be readjusted as you view objects at different distances.

## INFRA-RED ILLUMINATOR

Infrared illuminators, or IR illuminators, are common for night vision. The IR light greatly enhances the performance of the NVB8 while remaining almost totally invisible to the naked eye.

The NVB8 have a built-in IR with indicator “ON” within the FOV. To turn the IR on, hold the button pressed for more than 1.5 sec. It is important to remember that the IR illuminator is but an infrared light source, and like any light source, it may lose its effectiveness over a great distance.

To turn the IR off, again hold the button pressed for more than 1.5 sec.

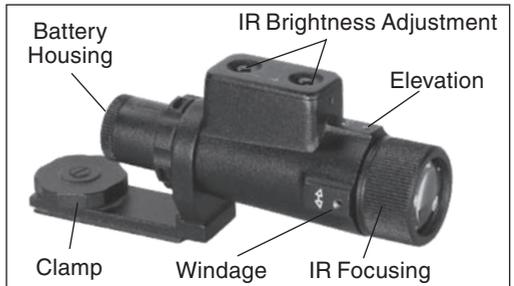


**NOTE:** The IR will automatically turn off when the unit's power is off.

## 450 MW INFRA-RED ILLUMINATOR

The 450 mW IR Illuminator is powered with its own separate battery. To install the battery unscrew the cap and insert the battery the way shown on the polarity diagram.

To mount the 450 mW IR Illuminator onto the bi-ocular loosen the IR illuminator clamp, insert the IR rail the bi-ocular mounting bracket and tighten the clamp.



The IR illuminator control buttons are located on its top. Pressing “+” and “-” buttons simultaneously works both to turn the Digital IR Illuminator on and to switch it off afterwards. When the IR illuminator is switched on you can see the green LED lit. By pushing the buttons “+” and “-” one by one you may adjust the IR brightness.

The IR beam is focusable to change the field of coverage. To change the beam width slightly turn the IR lens.

You may change the IR control panel fitting your needs. The screw-tool from the kit is used to loosen the clamp located on the IR. Rotate the IR to the most convenient position. Tighten the clamp with the screw-tool to secure it in the new position.

# STORAGE AND CARE

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- If the device is not to be used for extended period of time (more than 10 days) take out 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 NVB8 scopes are 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 unprotected the daylight filter.**
- **Never point the NVB8 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.
- If you use the rubber eyecaps for a long period of time, you may suffer skin inflammation. If you develop any symptoms, consult a doctor immediately.

# TROUBLESHOOTING

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**Q:** Flashes, flickers, or clicking occur while operating

**S:** If it occurs within the first five minutes of inserting new batteries, it is normal and the device will resume normal operation soon thereafter. If it occurs for more than 10 minutes, contact for service instructions.

**Q:** Dark spots on screen.

**S:** These are either cosmetic blemishes in the intensifier tube or dust particles.

**Q:** Screen becomes darker than at previous use.

**S:** Replace batteries. If problem persists, contact your dealer or other authorized service representative for service instructions.

**Q:** Image not clear.

**S:** Adjust objective lens, and/or the eyepiece.

# 2 YEAR PRODUCT WARRANTY

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This product is guaranteed to be free from manufacturing defects in material and workmanship under normal use for a period of 2 (two) years from the date of purchase. In the event a defect that is covered by the foregoing warranty occurs during the applicable period stated above, ATN, at its option, will either repair or replace the product, and such action on the part of ATN shall be the full extent of ATN's liability, and the Customer's sole and exclusive remedy. This warranty does not cover a product (a) used in other than its normal and customary manner; (b) subjected to misuse; (c) subjected to alterations, modifications or repairs by the Customer of by any party other than ATN without prior written consent of ATN; (d) special order or "close-out" merchandise or merchandise sold "as-is" by either ATN or the ATN dealer; or (e) merchandise that has been discontinued by the manufacturer and either parts or replacement units are not available due to reasons beyond the control of ATN. ATN shall not be responsible for any defects or damage that in ATN's opinion is a result from the mishandling, abuse, misuse, improper storage or improper operation, including use in conjunction with equipment which is electrically or mechanically incompatible with or of inferior quality to the product, as well as failure to maintain the environmental conditions specified by the manufacturer. **CUSTOMER IS HEREBY NOTIFIED THAT OPERATION OF THE EQUIPMENT DURING DAYLIGHT HOURS OR UNDER ANY EXCESSIVE LIGHT CONDITIONS MAY PERMANENTLY DAMAGE THE INTERNAL COMPONENTS OF THE UNIT AND SAID DAMAGE WILL NOT BE COVERED UNDER THIS WARRANTY.** This warranty is extended only to the original purchaser. Any breach of this warranty shall be waived unless the customer notifies ATN at the address noted below within the applicable warranty period.

The customer understands and agrees that except for the foregoing warranty, no other warranties written or oral, statutory, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose, shall apply to the product. All such implied warranties are hereby and expressly disclaimed.

## LIMITATION OF LIABILITY

ATN will not be liable for any claims, actions, suits, proceedings, costs, expenses, damages or liabilities arising out of the use of this product. Operation and use of the product are the sole responsibility of the Customer. ATN's sole undertaking is limited to providing the products and services outlined herein in accordance with the terms and conditions of this Agreement. The provision of products sold and services performed by ATN to the Customer shall not be interpreted, construed, or regarded, either expressly or implied, as being for the benefit of or creating any obligation toward any third party of legal entity outside ATN and the Customer; ATN's obligations under this Agreement extend solely to the Customer. **ATN's liability hereunder for damages, regardless of the form or action, shall not exceed the fees or other charges paid to ATN by the customer or customer's dealer. ATN shall not, in any event, be liable for special, indirect, incidental, or consequential damages, including, but not limited to, lost income, lost revenue, or lost profit, whether such damages were foreseeable or not at the time of purchase, and whether or not such damages arise out of a breach of warranty, a breach of agreement, negligence, strict liability or any other theory of liability.**

## PRODUCT WARRANTY REGISTRATION

In order to validate the warranty on your product, ATN must receive a completed Product Warranty Registration Card for each unit or complete warranty registration on our website at [www.atncorp.com](http://www.atncorp.com). Please complete the included form and immediately mail it to our Service Center: ATN Corporation, 1341 San Mateo Avenue, South San Francisco, CA 94080.

## OBTAINING WARRANTY SERVICE

To obtain warranty service on your unit, End-user must notify ATN service department by calling **800-910-2862** or **650-989-5100** or via e-mail [service@atncorp.com](mailto:service@atncorp.com) to receive a Return Merchandise Authorization number (RMA). When returning please take or send the product, postage paid, with a copy of your sales receipt to our service center, ATN Corporation at the address noted above. All merchandise must be fully insured with the correct postage; ATN will not be responsible for improper postage or, missing or damaged merchandise during shipment. When sending product back, please clearly mark the RMA# on the outside of the shipping box. Please include a letter that indicates your RMA#, Name, Return Address, reason for service return, Contact information such as valid telephone numbers and/or e-mail address and proof of purchases that will help us to establish the valid start date of the warranty. **Product merchandise returns that do not have an RMA listed may be refused or a significant delay in processing may occur.** Estimated Warranty service time is 10-20 business days. End-user/customer is responsible for postage to ATN for warranty service. ATN will cover return postage/shipping after warranty repair to end-user/customer only if product is covered by aforementioned warranty. ATN will return product after warranty service by domestic UPS ground and/or domestic mail. Any other requested, required or international shipping method the postage/shipping fee will be the responsibility of the end-user/customer.



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