

Viper X-1

NIGHT VISION GOGGLES



VIPER X-1 USER'S GUIDE (REV. 1, JULY 2013)

u s e r ' s g u i d e

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**AMERICAN
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FEATURES

- The smallest night vision goggle on the market
- Hands-free usage
- Simple two button operation
- High resolution Gen WPX Image Intensifier Tube
- Built-in infrared illuminator
- Comfortable, easy-to-adjust headgear
- Flip-up and dual side headgear
- Lightweight
- Water and fog resistant
- Limited Two-Year Warranty

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

CAUTION:

THIS PRODUCT CONTAINS NATURAL RUBBER LATEX WHICH MAY CAUSE ALLERGIC REACTIONS

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SPECIFICATIONS

Magnification	1x
Lens system	f1.4, 35 Mm
Proshield lens coating	yes
Fov	20°
Range of focus	1 m to infinity
Diopter adjustment	-5 to +5
Controls	Digital
Infrared illuminator	Yes
Power supply	1 x 3V CR123A type battery
Battery life	.40 hrs w/o IR
Environmental rating	Weather resistant
Operating temperature	-40 to +50 °c
Storage temperature	-50 to +70 °c
Dimension	5.75 X 3 x 2.25" / 146 X 76 x 57 mm
Weight	0.55 lbs / 240 g

APPLICATION

The Viper X-1 Night Vision Scope is a complex optoelectronic system for individual use. The device consists of (see above figure) the objective lens assembly, eyepiece and the body. The body contains a 1st gen WP Extreme image intensifier tube assembly with an integrated high voltage power source and the three volt battery housing. When installing the battery one should keep in mind that the polarity of the battery should coincide with the diagram on the body next to the battery housing cap.

Objective lens protective cover 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.

For today's budget conscious outdoor enthusiast this system is unparalleled in its performance, versatility and cost effectiveness. This system comes with all necessary headgear attachments making this a true hands-free unit that is light-weight and compact. Giving you the most bang for your buck!

The Viper X-1 utilizes our new 1st gen WP Extreme tube. This IIT takes advantage of a black and white phosphor providing the user with a more natural image. The tube also provides a flat field image helping reduce geometric distortion that occurs with most standard 1st gen image tubes.

OPERATION

- 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 .
- Slide the switch 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 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.

FOCUSING



To focus the Viper X-1, 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



Infra-red illuminators, or IR illuminators, are common to night vision. The IR light greatly enhances the performance of the Viper X-1 while remaining almost totally invisible to the naked eye. The IR illuminator on the Viper X-1 is located underneath the front lens, next to the battery compartment.

When you turn the scope on the IR will automatically turn on. It is important to remember that the IR illuminator is simply an infra red light source, and like any light source, it may lose its effectiveness over a great distance.

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

HEADGEAR

PART I



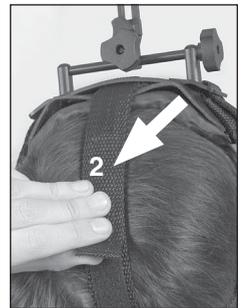
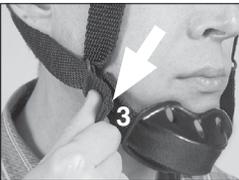
1) The first step that you want to take in mounting your Viper X-1 on your head is to fit the headgear to your size. Adjust the headgear first before attaching the Viper X-1 to it.

2) Loosen all the straps and place the headgear on your head.

3) You will want to tighten the side straps (1) first.

4) Then secure the top strap (2). This one is rather tight so you might need to remove it from your head, when you are adjusting the strap.

5) And last you will want to adjust your chin strap (3).



PART II

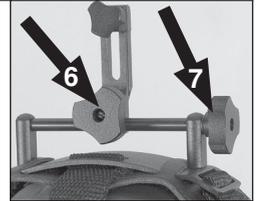
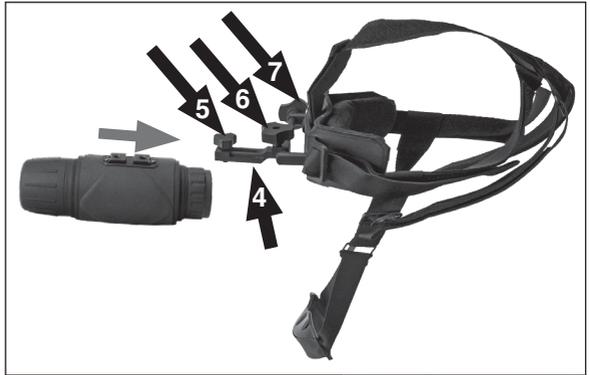
Now you are ready to mount the Viper X-1 on to your headgear.

1) Remove the already adjusted headgear from your head.

2) Slide the Viper X-1 on to the rail (4). Loosen the tightening knob (5) to enable you to easily slide the unit on. Don't retighten the knob just yet.

3) Adjust the vertical position of the Viper X-1 to your comfort and tighten the vertical tightening screw (6) and tighten vertical fixator (7).

4) You can use the device with left or right eye. To adjust horizontally you may use the vertical tightening screw (5).



CLEANING THE EYEPIECE

You may need to clean the eyepiece of the Viper X-1 from time to time in order to guarantee top performance. When you receive your Viper X-1 you should check for dust on the eyepiece of the unit.

First you will need to remove the eyepiece. To do that you will need to initially loosen the 2 set screws that can be found on the base. Then unscrew the eyepiece counter-clockwise to remove it.

NOTE: You do not have to remove the set screws completely, they are very small and easy to misplace.

CAUTION: Use only Photographic lens cleaning tissue on these surfaces. Be careful not to scratch or smudge any of these surfaces. When using compressed air to blow dust away, make sure to avoid inverting the can while spraying. This can cause frozen propellant to exit the can, which can cause serious problems with the glass and phosphor screen.

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 Viper X-1 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 Viper X-1 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

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

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 or 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. 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 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 to continental USA end-users/customers after warranty repair 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.



For customer service and technical support, please contact

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