

# ATN Night Spirit XT

NIGHT VISION MONOCULAR



MANUAL (NIGHT SPIRIT XT) REVISION 1 - JANUARY, 2013

## *u s e r ' s   g u i d e*

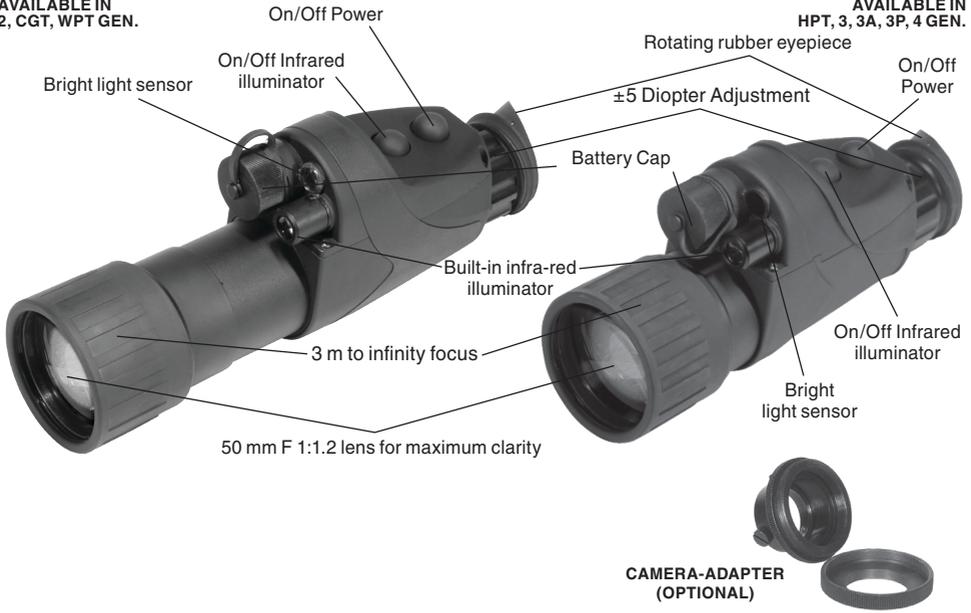
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**AMERICAN  
TECHNOLOGIES  
NETWORK  
CORP.**

AVAILABLE IN  
2, CGT, WPT GEN.

AVAILABLE IN  
HPT, 3, 3A, 3P, 4 GEN.



## SPECIFICATIONS

Magnification .....	3X (optional 5X)
Lens System .....	50mm F1:1.2
Field of view .....	18°
Diopter adjustment .....	±5
Range of Focus .....	3m to infinity
Power Supply .....	3V CR123A Lithium battery
Battery Life .....	30 hours (15 hours w/IR illuminator)
Operating Temperature .....	-40°C to +50°C
Storage Temperature .....	-50°C to +70°C
Weather resistant .....	Yes
Dimensions .....	212 x 58 x 75 mm/8.4 x 2.3 x 3" (2, CGT, WPT Gen.)
	175 x 58 x 75 mm/6.9" x 2.3" x 3" (HPT, 3, 3A, 3P, 4 Gen.)
Weight .....	0.62 kg / 1.37 lbs
	0.58 kg / 1.28 lbs

\* 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.**

The information in this manual furnished for information use only, is subject to change without notice, is not to be construed as a commitment by ATN Corp.

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# FEATURES

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- High Quality light intensifier tube
- Wide variety of image tube configurations to choose from
- 3x multi-coated lenses
- Super fast lens system provides the user with a clear and sharp image
- Built-in Infra-Red illuminator lets you see even in total darkness
- Rugged and ergonomic design
- Camera/camcorder-adaptable
- Uses one 3v Lithium battery
- Weather resistant
- Limited Two-Year Warranty

# APPLICATION

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The Night Spirit XT is rugged and lightweight night vision monocular. It utilizes multicoated optics specially coated to gather light to provide bright and clear images. Couple these optics with state of the art quality image intensifier tubes and the Night Spirit XT is an excellent compact pocket scope. The Night Spirit XT is an amazing combination of versatility, performance, and price.

The Night Spirit XT night vision monocular is a complex electro-optical system for individual use. The device consists of the objective lens assembly, eyepiece and the body. The body contains an image intensifier tube assembly with an integrated high voltage power source and the battery housing.

Objective lens protective cover is intended to protect the objective lens from dust and scratches. It also acts 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.

The headgear of goggle kit secures the goggles to the user's head for night viewing, and provides freehand support for use with a weapon, protective mask or other purposes. It is adjustable and cushioned.

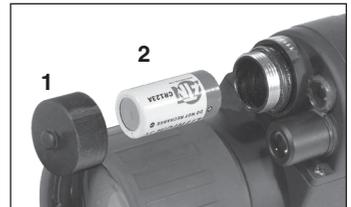
**NOTE:** Do not test the scope in daylight conditions even with the daylight filter/lens cap on for more than ten (10) minutes.

# BATTERY INSTALLATION

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**Install CR123A batteries as follows:**

1. Unscrew the battery cap [1].
2. Insert the battery [2], observing the polarity as indicated.
3. Replace the battery cap and screw cap hand tight.



# OPERATION

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Take the monocular out of the case.

Push the ON/OFF switch to turn the unit on. The protective lens cover shall be attached to the lens. Do not turn the unit on in 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 focusing. You should not have to readjust the diopter. Remember that focusing range starts from 3 m.

To turn the unit off, push the ON/OFF switch again.

# FOCUSING

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To focus the Night Spirit XT 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 on the image becomes 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 become 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.

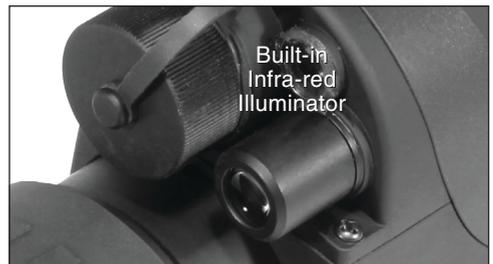
# BUILT-IN INFRA-RED ILLUMINATOR

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Infra-red illuminators, or IR illuminators, are common to night vision. The IR light greatly enhances the performance of the Night Spirit XT while remaining almost invisible to a naked eye.

To turn the built-in IR on, push the IR ON/OFF switch. To turn the built-in IR off, push the IR ON/OFF switch again.

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.



# CAMERA ADAPTER (OPTIONAL)

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To use your Night Spirit XT with a 35 mm camera or camcorder you will need the following:

1. If you plan to use a camcorder then your camcorder must have a MACRO feature. Most modern camcorders today have a MACRO feature built-in.
2. If you plan to use a 35mm camera, you will need a MACRO lens. If you don't have one, we advise that you contact your local camera store.
3. You may or may not need a STEP-UP or STEP-DOWN ring in order to adapt the camera adapter to your lens. NOTE: The camera adapter comes with 37 mm and 52 mm threads. If you need other sizes your local camera store should be able to help.



Remove the rubber eyecup from the Night Spirit XT

Screw the camera adapter onto the front of the lens on your Video camera's lens or your 35mm camera's lens.

Loosen the three set screws on the camera adapter.

Place the camera adapter over the Night Spirit XT's eyepiece.

Tighten the three set screws to fit snugly to the Night Spirit XT's eyepiece

You may need to focus the 35 mm camera or video camera in combination with the Night Spirit XT in order to get the sharpest possible image.

We suggest that you find an open space to work in. Focus the Night Spirit XT so that the scene is at its sharpest. For best results you should disable the auto focus (if any) on either the 35mm camera or the video camera and manually focus the 35mm camera or the video camera. Once the image is sharp, then simply adjust the Night Spirit XT's front lens to change focus.

*\* An important part to remember is that you are not taking a picture of an object that is far away from you, but you are actually taking a picture of a phosphorous screen of the Night Spirit XT that is only 2-3 inches away.*

## STORAGE AND CARE

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- If the device will not be in use for extended period of time (more than 10 days) remove the battery.
- Avoid touching of 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 Night Spirit XT 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 functionality 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 Night Spirit XT 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

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](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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