

Night Cougar

NIGHT VISION GOGGLES



USER'S GUIDE (ATN NIGHT COUGAR) REVISION 4 - MAY 2009

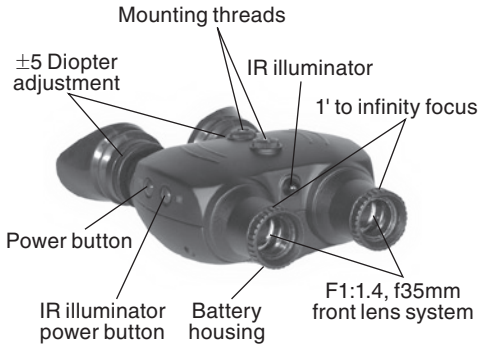
u s e r ' s g u i d e

Important Export Restrictions! Commodities, products, technologies and services contained in this manual are subject to one or more of the export control laws and regulations of the U.S. Government and they fall under the control jurisdiction of either the US Department of State or the US BIS-Department of Commerce. It is unlawful and strictly prohibited to export, or attempt to export or otherwise transfer or sell any hardware or technical data or furnish any service to any foreign person, whether abroad or in the United States, for which a license or written approval of the U.S. Government is required, without first obtaining the required license or written approval from the Department of the U.S. Government having jurisdiction. Diversion contrary to U.S. law is prohibited.



**AMERICAN
TECHNOLOGIES
NETWORK
CORP.**

APPLICATION



The Night Cougar is a light weight dual eye/tube goggle system that is comfortable to wear and easy to use. Powered by two high quality 1st Gen.+ light intensifier tubes and using fast precision optics the Night Cougar has one of the clearest and brightest images available in a 1st Gen. goggle.

Combine all of the above with a built in infrared illuminator that lets you see in total darkness and you will be on your way to exploring even the darkest of places.

The Night Cougar goggle system is a complex optoelectronic system for individual use. The device consists of an objective lens assembly, eyepieces and a body. The body contains two 1st Gen.+ image intensifier tubes assembly with an integrated high voltage power source and the three volt battery housing.

Objective lens protective covers are intended to protect 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 scope is equipped with the Automatic Shut-off System. This system tracks when the scope is not used (the controls are not touched for 30 minutes continuous) and shuts the unit off automatically.

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

FEATURES

- Rugged fiberglass reinforced plastic construction
- All glass multi-coated lenses for superb clarity and brightness
- F1.4 lens with amazing light transmission
- Manual focus
- Adjustable eyepiece
- The Night Cougar infra-red illuminator was designed to let you see even in total darkness
- Light weight and comfortable
- Weather resistant
- Two year warranty

SPECIFICATIONS

Total Darkness Technology	Standard
Magnification	1X
Intensifier Tube	High Res. 1st Gen. +
Lens System	6 elements, F1:1.4, 35 mm
FOV	30°
Diopter Adjustment	±5
Resolution	40 lp/mm
Power Supply	One 3 Volt Lithium
Range Of Focus	1m to Infinity
Controls	Digital
Battery Life	10-20 Hours
Operating Temperature	-40°C to +50°C
Storage Temperature	-50°C to +70°C
Dimensions.....	155 x 125 x 70 mm/6.1"x 4.9"x 2.7"
Weight.....	0.5 kg/1.1 lbs

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

OPERATION

- Take the Night Cougar 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 .
- Push the button marked "I/O" 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. You may notice a persistent green glow for up to five (5) minutes after you have turned the unit off. This is normal for the 1st Gen. Light intensifier tube.
- Observe the scene and adjust the diopter for optimal image clarity. Focus the front lenses until the image and the grain are both sharp.
- 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 filters. Adjust the front lenses for distance of the focus. You should not have to readjust the diopter.

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

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

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.

ATN Corp. assumes no responsibility or liability for any errors or inaccuracies that may appear in this book.

©2009 ATN Corp. All right reserved.

INFRA-RED ILLUMINATOR

Infra-red (IR) illuminators, are common to night vision. The IR light greatly enhances the performance of the Night Cougar while remaining almost totally invisible to the naked eye. The IR illuminator on the Night Cougar is located next to the front lenses.

To turn the IR on or off push the button marked "IR". 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.

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

HEADGEAR

FITTING THE HEADGEAR

- 1) Fit the headgear to your head size. Adjust the headgear first before attaching the Night Cougar to it.
- 2) Loosen all the straps and place the headgear on your head.
- 3) Tighten the straps until the headgear fits firmly.

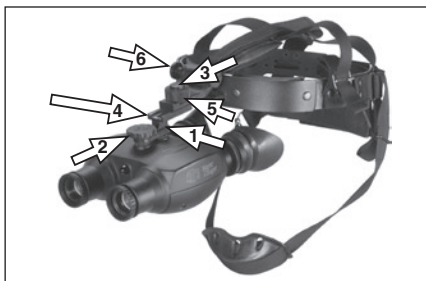


GOGGLES INSTALLATION

Now you are ready to mount the Night Cougar on to your headgear.

- 1) Remove the already adjusted headgear from your head.
- 2) Put the adapter [1] onto the top of device and screw the mounting screw [2] tightly.
- 3) Push the button [3] and insert the bracket [4] of the adapter to the rail of the headset.
- 4) Place the headgear with Night Cougar onto your head.
- 5) Loosen the screw [5] and move the unit along the rail for eye relief adjustment.

The Night Cougar headset has a flip-up mechanism. Push the button [6] on the side of mount and lift the unit up until the unit fixates in the top position. Push same button to lower Night Cougar to viewing position.



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 filters on when not in use.
- The Night Cougar is not harmful to the user or the environment.
- Do not disassemble except to clean the front lenses and eyepieces: **it will void your warranty.**
- Evaluate the device 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 Night Cougar 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 eyecups for a long period of time, you may suffer skin inflammation. If you develop any symptoms, consult a doctor immediately.

CLEANING THE EYEPIECE

You may need to clean the eyepiece of the Night Cougar from time to time in order to guarantee top performance. When you receive your Night Cougar 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.

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 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. For customer service and technical support, please contact American Technologies Network Corp.

North American Office

1341 San Mateo Avenue
South San Francisco, CA 94080
phone: 800-910-2862, 650-989-5100;
fax: 650-875-0129

European Office

phone: 44(0)870-0111286,
fax: 44(0) 845-3349142

The following countries can use our
toll free number 00 800 9102-8620
Austria, France, Germany, Holland, Italy,
Spain, Sweden, Switzerland
www.atncorp.com