

Night Spirit MP

MULTI-PURPOSE SYSTEM



ATN MP USER'S GUIDE (REV. 2, JUNE 2015)

u s e r ' s g u i d e

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**AMERICAN
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OPTIONAL ACCESSORIES



GOGGLE KIT
Item # ACMPAN14GK



UNIVERSAL HELMET MOUNT KIT
Item #ACMPAN14HMT



CAMERA-ADAPTER
Item #ACMPAN14CA



INFRA-RED ILLUMINATOR IR850-B1
Item # ACMUIR85B1



5X LENS
Item #ACMPAN14LS05



3X LENS
Item #ACMPAN14LS3A



PICATINNY MOUNT ADAPTER
Item #ACMPAN14PCWM

CAUTION:

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

Register your product warranty online at www.atncorp.com/warranty

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

- Compact, rugged design
- Head or helmet mountable for hands-free usage
- Ergonomic, simple, easy to operate controls
- Bright light cut-off
- Auto brightness control
- Weapon mountable
- Waterproof
- Picatinny rail mount
- Available in Gen. 2, CGT, WPT, 2I, 2IA, CGTI, WPTI
- Limited two-year warranty

SPECIFICATIONS

Magnification	1x
Lens System	F1.2, 27 mm
Proshield Lens Coating	Yes
FOV	40°
Range of Focus025 m to infinity
Diopter Adjustment	-6 to +2
Controls	Digital
Automatic Brightness Control	Yes
Bright Light Cut-off	Yes
Automatic Shut-off System	Yes
Infrared Illuminator	Yes (Built-in with flood lens)
IR Indicator	Yes (in FOV)
Low Battery Indicator	Yes (in FOV)
Power Supply	1 x 1.5 V AA type battery
Battery Life	25-30 hrs
Environmental Rating	Waterproof
MIL-STD-810	Complies
Operating Temperature	-40 to +50 °C
Storage Temperature	-50 to +70 °C
Dimensions	150 x 75 x 56 mm / 6 x 3 x 2.25"
Weight (w/o battery)	340 g / 0,75 lbs

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

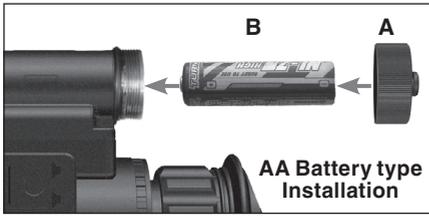
APPLICATION

The ATN Night Spirit MP Multipurpose Night Vision Monocular is a high performance modular night vision device. The flexibility of the ATN Night Spirit MP makes it an ideal choice for elite military personnel conducting CQB style operations, tactical law enforcement teams operating in urban or MOUT environments or even security-conscious civilians.

The ATN Night Spirit MP can be handheld, head-mounted, and can be attached to a helmet or weapon. Compatible with most IR laser aiming/illuminating devices, this model defines multi-mission versatility. This high performance unit enables walking, driving, weapon firing, short-range surveillance, map reading, vehicle maintenance and administering first aid during nighttime operations.

The ATN Night Spirit MP Multipurpose Night Vision Monocular is also equipped with ATN's Total Darkness Technology featuring a built-in infrared light-emitting source giving it maximum flexibility even when available ambient light is minimal. The technologically advanced ATN Night Spirit MP guarantees a tactical advantage for any user operating at night, whether military, law enforcement, or civilian.

BATTERY INSTALLATION



The ATN Night Spirit MP operates with one AA battery. To install the battery, unscrew the battery cap (A). Then you may put the battery (B) observing the polarity indications on the battery compartment surface and screw the battery cap.

OPERATION



- Take the monocular out of the case.
- Rotate the operation knob from “OFF” position to “ON” position 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 0.25 m.
- To turn the unit off, rotate the operation knob from “ON” to “OFF” position.

FOCUSING

To focus the Night Spirit MP 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.

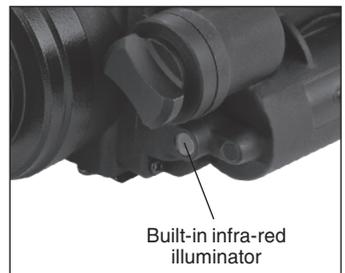
NOTE: The front lens should be readjusted as you view objects at different distances.

BUILT-IN INFRA-RED ILLUMINATOR

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

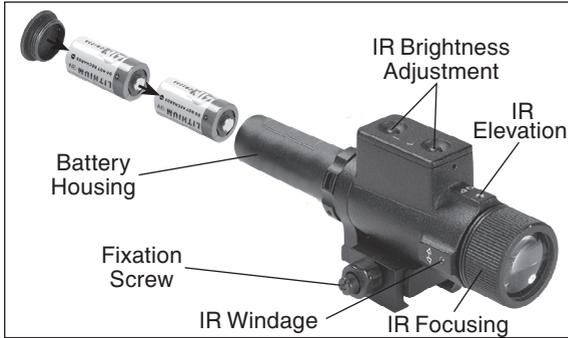
To turn the built-in IR on, draw and rotate the operation knob to “IR” position.

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.



850 mW INFRA-RED ILLUMINATOR

Infra-red (IR) Illuminators are common for night vision technology. The IR light greatly enhances the performance of your Night Spirit MP, while remaining almost totally invisible to the naked eye. In dark environment, power up the Night Spirit MP. Now, find a scene and examine it without the IR on then with IR powered up. Note the difference in illumination. 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.



To fix the IR illuminator to the rifle-scope use the picatinny rail of the scope.

The IR illuminator control buttons are located on its side. To switch the Digital IR illuminator on/off press “+” and “-” buttons simultaneously. When the IR illuminator is switched on you can see the green LED lit. By pushing the buttons “+” and “-” you may adjust the IR brightness.

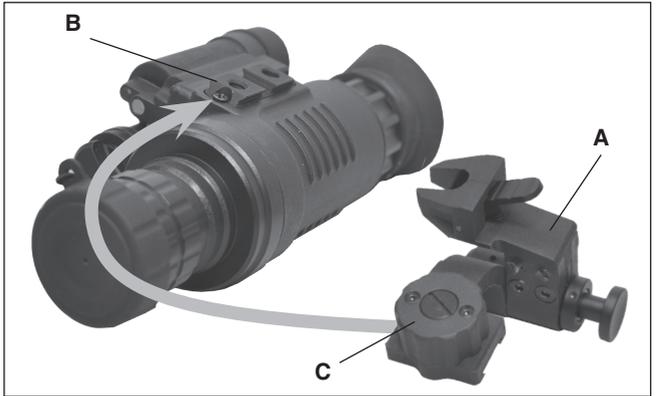
The IR beam is focusable to change the field of coverage. To change the beam width slightly turn the IR lens.

You could change the IR control panel fitting your needs. The wrench included into the set should be used for weakening the fixing nut located on the IR. Rotate the IR placing at in the most convenient position. Tighten the nut with the wrench to fix the new position.

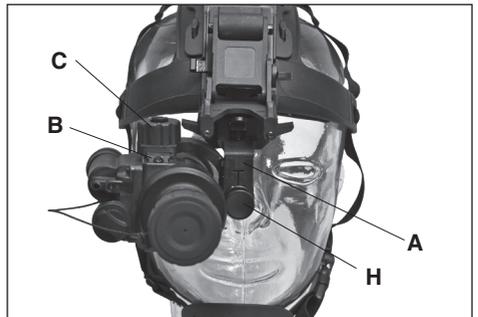
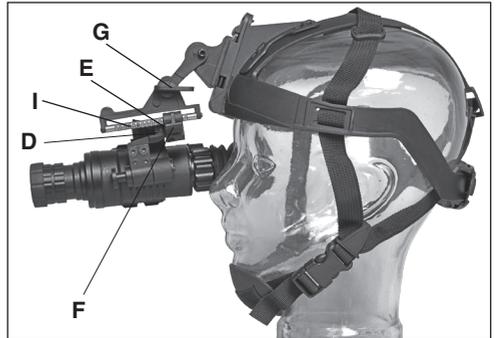
GOGGLE KIT(OPTIONAL)

To mount the ATN Night Spirit MP to a head mount, perform the following:

1. Loosen the nut (C). Attach the adapter (A) to the rail (B) of ATN Night Spirit MP. Tighten the nut (C) anew.
2. Align the adapter and the head. Slide the monocular rearwards until the alignment boss (D) aligns with the alignment groove (E) on the headmount. Push until the monocular locks into the headmount.

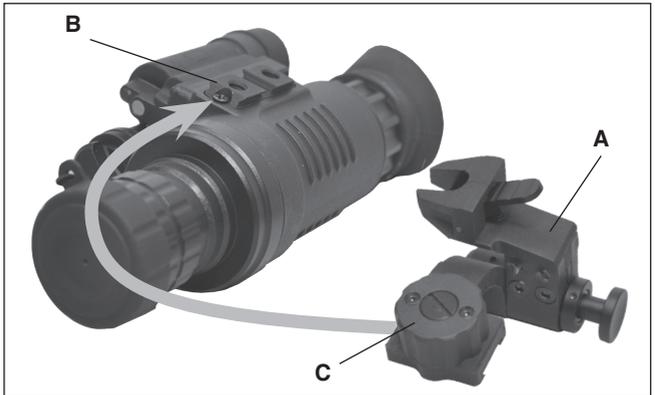


3. Place the headmount with Night Spirit MP onto a head.
4. Slide button (F) and move the unit along the rail for eye relief adjustment.
5. The Night Spirit MP headmount has a flip-up mechanism. Push the button (G) on the side of mount and lift the unit up until the unit reaches in the top position.
6. Push the same button (G) to lower Night Spirit MP to the viewing position. Turn the device on for continuation of the operation.
7. The Night Spirit MP can be placed before the right or left eye. In order to re-adjust the monocular for use with another eye, take the unit off the adapter, turn the unit to other side (for 180°) and mount it on the headset through the rail on this side. Push the button (H) and move the device along the slide-rail (I) for comfortable position.



UNIVERSAL HELMET MOUNT (OPTIONAL)

Attachment of ATN Night Spirit MP to a range of ballistic helmets. The Helmet mount fits securely onto helmet via a rugged strapping device and grooved hooks. With helmet mount, the Night Spirit MP can be positioned directly in front of user's eyes or flipped out of viewing position.



1. Loosen the nut (C). Attach the adapter (A) to the rail (B) of ATN Night Spirit MP. Tighten the nut (C) anew.

2. Tighten and fixate the straps (D).

3. Align the adapter and the head. Slide the monocular rearwards until the alignment boss (H) aligns with the alignment groove (F) on the head/helmet mount. Push until the monocular locks into the helmet mount.

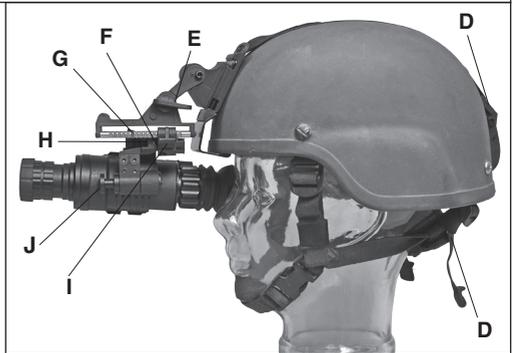
4. Place the helmet mount with Night Spirit MP onto a head.

5. Slide button (I) and move the unit along the rail for eye relief adjustment.

6. The Night Spirit MP helmet mount has a flip-up mechanism. Push the button (E) on the side of mount and lift the unit up until the unit reaches in the top position.

7. Push the same button (E) to lower Night Spirit MP to the viewing position. Turn the device on for continuation of the operation.

8. The Night Spirit MP can be placed before the right or left eye. In order to re-adjust the monocular for use with another eye, take the unit off the adapter, turn the unit to other side (for 180°) and mount it on the headset through the rail on this side. Push the button (J) and move the device along the slide-rail (I) for comfortable position.



WEAPON MOUNT (OPTIONAL)

NOTE

The ATN Night Spirit MP is not a weapon sight, however, it can be used in conjunction with a collimated dot sight or laser aiming device.

To mount the Night Spirit MP perform the following:

1. Loosen the clamping knob on the weapon mount. Position the monocular mount onto the weapon's mounting rail, adjust the fore/aft position of the monocular as necessary by loosening the clamping knob and repositioning the weapon mount on the rail. Tighten by turning the clamping knob.



2. Align the monocular and the weapon mount. Slide the monocular rearwards until the alignment boss aligns with the alignment groove on the weapon mount. Push until the monocular locks into the weapon mount.

INTERCHANGEABLE LENSES (OPTIONAL)

The additional 3X Lens and 5X Lens for Night Spirit MP transform it to 3X or 5X night vision monocular. To install 3X Lens simply screw it onto the front lens of Night Spirit MP. To install 5X lens unscrew the objective lens of Night Spirit MP and screw lens instead of it.



Night Spirit MP with 3X lens



Night Spirit MP with 5X lens

CAMERA ADAPTER (OPTIONAL)

To use your Night Spirit MP 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 35 mm 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 MP.
- 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 MP's eyepiece.
- Tighten the three set screws to fit snugly to the Night Spirit MP's eyepiece
- You may need to focus the 35 mm camera or video camera in combination with the Night Spirit MP in order to get the sharpest possible image.
- We suggest that you find an open space to work in. Focus the Night Spirit MP so that the scene is at its sharpest. For best results you should disable the auto focus (if any) on either the 35 mm camera or the video camera and manually focus the 35 mm camera or the video camera. Once the image is sharp, then simply adjust the Night Spirit MP'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 MP that is only 2-3 inches away.*

STORAGE AND CARE

- 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 MP 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 MP 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 DAY-LIGHT 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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