



# PRIME 3 PRIME 5

Night Vision Monoculars



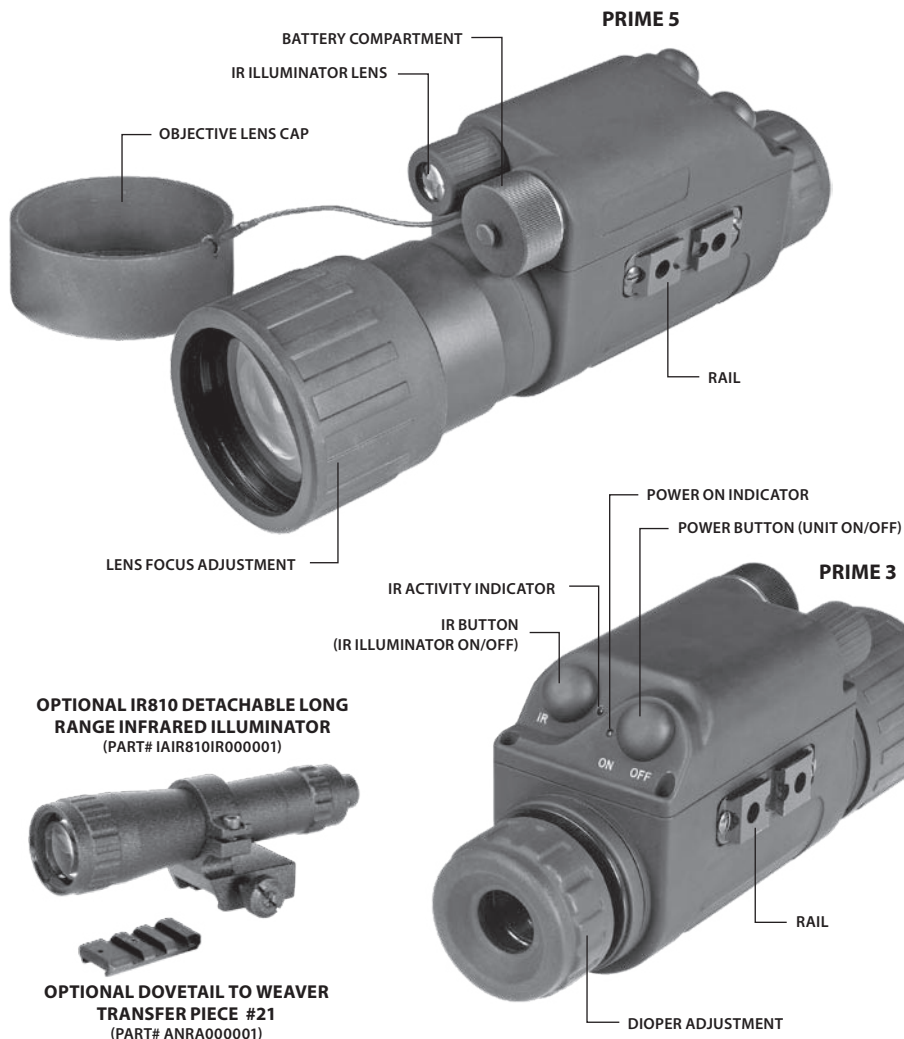
## USER'S MANUAL

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## PARTS OF THE MONOCULAR



### CAUTION:

**This product contains natural rubber latex, which may cause allergic reactions!** The FDA has noted an increase in the number of reported deaths that are associated with an apparent sensitivity to natural latex proteins. If you are allergic to latex, it is a good idea to learn which products contain it and strictly avoid exposure to those products.

The information provided in this manual is intended for familiarization with the product only; the contents may undergo further changes without commitment by Armasight to notify customers of any updates.

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# 1. DESCRIPTION AND DATA

## DESCRIPTION

Designed to offer the best possible performance at the lowest possible cost, the Armasight Prime is an exceptional, 1st Generation night vision monocular. Whether you choose to use it for camping, hunting, boating or security, the Armasight Prime will allow you to look out into the night and unveil the nocturnal world hiding in the darkness.

Available with either 3x or 5x magnifications, the Armasight Prime is more than just an entry-level device. Compact and lightweight, this exceptional night vision monocular outperforms most other Gen. 1 night vision monoculars in its class.

## FEATURES

- 3x or 5x magnification
- High resolution Gen. 1+ Image intensifier tube
- Built-in infrared illuminator
- Compact and lightweight
- Water and fog-resistant
- Limited Two-Year Warranty

## SPECIFICATIONS

Item	Prime 3	Prime 5
Generation	1+	1+
Magnification	3x	5x
Lens system	50mm; F/1.2	80mm; F/1.7
Field of view (°)	20.8	20.8
Focus range (m)	1,5 to infinity	1,0 to infinity
Diopter adjustment (dpt)	+4 to -4	+4 to -4
Exit pupil diameter (mm)	8	8
Eye relief (mm)	20	20
Power Supply	CR-123 Lithium (1) 3V	CR-123 Lithium (1) 3V
Battery life IR Off (hour)	up to 58	up to 58
IP Standard	IPX4	IPX4
Tripod mount	Yes	Yes
Lens material	glass	glass
Operating temperature (°C)	-30 to +45	-30 to +45
Dimensions (LxWxH, mm/in)	160 x 73 x 52 / 6.3 x 2.9 x 2	194 x 73 x 52 / 7.6 x 2.9 x 2
Weight (kg/lbs)	0.33 / 0.73	0.49 / 1.1

*\* Armasight reserves the right to modify these specifications at any time without notice*

## STANDARD COMPONENTS DESCRIPTION

### 1) Armasight Prime Monocular

Night vision monocular with 3x or 5x magnification.

### 2) Objective Lens Cap

The Objective Lens Cap is designed to protect the objective lens from physical damage as well as allow

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### 3) Eye Cup

The rubber eye cup is designed to protect the eyepiece and to provide comfort of use for the user.

### 4) CR123A Lithium Battery

3V CR123A lithium batteries are used to supply power to the unit.

### 5) User Manual

The user manual contains a full description of the device and accessories, information about controls, installation, maintenance and troubleshooting procedures.

### 6) Carrying Case

The carrying case is used to store and carry the Prime monocular and accessories.

## 2. PREPARATIONS FOR OPERATION

#### **WARNING:**

**The Prime night vision monocular is designed for several years of reliable service. To ensure trouble-free performance, please observe the following instructions:**

- Do not activate the device in daylight unless the protective lens cover is fitted securely over the objective lens. If the device is ON, do not direct the device at bright light sources, such as car headlights, camp fires, street lights, etc., as this will cause damage to the device.
- Do not check the device operation in daylight unless the front lens cap is fitted securely over the lens, and even then, the device should only be ON for the few seconds it takes to establish correct operation.
- Do not open the body of the device or otherwise disassemble it.
- Avoid dropping or otherwise impacting the device.
- Do not expose the device to moisture or extreme temperatures.
- Do not touch the lens. Clean optical parts with a clean, soft cloth, and only use professional lens cleaners designed for use with optics.
- Do not forget to remove the battery from the battery compartment if the device is to be stored for **more than 3 days**.
- Do not forget to turn the device OFF during periods of non-operation.

#### **WARNING:**

**Consider the following information and restrictions in order to avoid damaging the device and to ensure a long service life and failure-free operation:**

- Performance of the device in nighttime conditions depends on the level of ambient light in the environment. Some light (moonlight, starlight, etc.) is required for the device to provide an image.
- The level of ambient light is reduced by the presence of clouds, shade, or objects that block natural light (buildings, trees, etc.).
- The device loses its effectiveness when operated in shadowed areas.
- The effectiveness of the device is adversely affected by weather conditions such as rain, snow, sleet, and fog, as well as environmental conditions such as smoke or dust.
- The device resolution level is reduced in environments with very low light sources. The visibility will degrade significantly under starlight conditions, particularly in low contrast environments such as deserts, large areas of uniform vegetation, etc.
- The device is equipped with a protection system that will automatically disable the image

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## BATTERY INSTALLATION

- 1) Unscrew the battery compartment cap on the front side of the monocular's body.
- 2) Insert the CR123A battery into the battery compartment in accordance with polarity markings.
- 3) Screw the cap into place.



## TRIPOD INSTALLATION

The Prime can be connected to a tripod. To mount the tripod with the Prime device, screw the tripod into the 1/4" threaded socket located on the Prime's rail.

### NOTE:

The unit may be badly damaged if the tripod collapses or falls over. Remove the unit from the tripod if it is not within your reach.

## 3. OPERATION INSTRUCTIONS

### CONTROLS

The Prime is designed to meet the needs and requirements of various users. Each user can individually set the unit to the most effective and desirable position with the help of the controls. The Prime unit's controls and indicators are shown and detailed further, below:

**Power Button.** This controls the power supply to the unit. Use this button to turn the unit on and off.

**IR Button.** This button controls power supply to the built-in infrared illuminator. Use this button to turn the IR illuminator on and off.

**Lens Focus.** This control focuses the objective lens. Adjust the lens for the clearest, sharpest image.

**Diopter Adjustment.** This control focuses the eyepiece. Use it to get the clearest image possible on the IIT screen.

**IR Illuminator Focus Adjustment.** This control focuses the IR beam. To adjust the IR beam, rotate the IR illuminator lens.

**Power Indicator.** A green PWR light will turn on when the unit is on and ready for operation.

**IR Activity Indicator.** A red IR light will turn on when the IR illuminator is turned on and ready.

### FOCUSING

To focus your Prime Monocular, perform the following steps:

- 1) Adjust the diopter. Turn the diopter adjustment ring clockwise until it stops. While looking through the eyepiece, observe the scene and slowly begin turning the diopter adjustment ring counterclockwise until the image becomes clear and sharp.
- 2) Adjust the lens' focus. To focus your monocular at different distances, rotate the objective lens focus ring.

## TESTING PROCEDURES

### CAUTION:

Do not test the scope in daylight conditions for more than 10 minutes, even with the protective lens cap on.

To check device operation in daylight or in an illuminated room, follow these steps:

- 1) Verify that the battery is inserted into the battery compartment in accordance with polarity markings on the monocular's body.
- 2) Verify that the objective lens is securely closed.
- 3) **Without** removing the protective lens cap, activate the unit by pushing the Power button. While looking through the eyepiece of your unit, observe the scene. Verify that the green light indicating correct IIT operation is illuminated.

## OPERATION IN NIGHTTIME CONDITIONS

### CAUTION:

Avoid exposing the goggles to bright light sources. Bright light emitted by fires, automobile headlights, lanterns, projectors, etc. will damage your Prime.

- 1) Visually estimate the illuminance level in the viewing area. Operation of the device with the objective lens cap removed is safe when the illuminance level is less than 1 lux; at an illuminance level of 1 lux, you will barely be able to read a newspaper, even after your eyes have adapted to the low light conditions.
- 2) Verify that the battery is inserted into the battery compartment in accordance with the polarity markings on the monocular's body.
- 3) Remove the front lens cap.
- 4) Activate the unit by pushing the Power button. A green light indicating correct IIT operation will appear after a momentary delay.
- 5) Observe the scene and focus your Prime.
- 6) Turn the unit OFF when you are finished using it. The green glow will disappear from the eyepiece.
- 7) Secure the objective lens cap over the objective lens

## IR ILLUMINATOR OPERATION

### CAUTION:

Do not forget that light emitted from the IR illuminator light is invisible to the naked eye; however, it can be easily detected when using night vision devices.

Infrared illuminators are used in areas where the level of light is not sufficient for surveillance. An IR illuminator can provide an extra source of infrared light, which, although invisible to the naked eye, can greatly enhance the performance of night vision devices. Turn on the IR illuminator when working in total darkness. Please remember that the beam emitted by your IR illuminator will lose its brightness over distance.

You can activate the IR illuminator of your monocular by pushing the IR button. A red indicator light will appear when the IR illuminator is turned on.

You can change the field of coverage by adjusting the IR beam. To focus the beam, rotate the IR illuminator lens until the desired field of coverage is reached.

### NOTE:

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

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## 4. IR810 LONG RANGE IR ILLUMINATOR (OPTIONAL)

The IR810 is a removable infrared illuminator that can be installed on the rail of the night vision unit for the purpose of enhancing the unit's performance and long distance observation.

### IR810 ILLUMINATOR INSTALLATION

To install the IR illuminator on your Prime, perform the following:

- 1) Install the Dovetail to Weaver Transfer Piece on the rail of your monocular.
- 2) Loosen the screw on the IR810 mount.
- 3) Place the IR810 on the Weaver rail.
- 4) Tighten the screw.



### IR ILLUMINATOR OPERATION

The Armasight IR810 runs on a single CR123A battery. To install the battery, unscrew the battery compartment cap and insert the battery in accordance with the unit's polarity markings. Screw the battery compartment cap back onto the device.

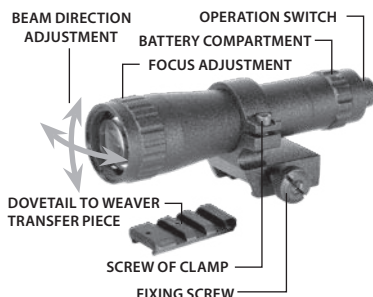
To turn the IR810 on, rotate its operation switch into the ON position.

Adjust the power of the beam emitted by the IR810. To change the brightness of the beam, rotate the illuminator operation switch.

Focus the IR beam to change the field of coverage. To focus the beam, slightly rotate the IR illuminator lens.

To adjust the IR spot position in the field of view, perform the following:

- 1) Loosen the screw on the clamp of the IR illuminator mount.
- 2) Turn on the sight and IR illuminator.
- 3) Carefully move the lens of IR810 up and down, as well as side to side, and observe the IR spot position through the eyepiece of the night vision weapon sight.
- 4) Tighten the screw of the clamp when the IR spot is focused in the center of the field of view.



## 5. MAINTENANCE PROCEDURES

The Prime should always be stored in the supplied packaging, particularly in heated and ventilated rooms. To keep the device operational, please follow the instructions listed below regarding preparations for storage. The battery should be stored separately from the unit and be inserted into the battery compartment **only** when the device is being prepared for use. The presence of both acids and alkalis' near the monocular is not recommended.

When stored, your Prime should be protected from exposure to direct sunlight or extreme temperatures.

### MONOCULAR CLEANING PROCEDURES

- 1) Gently remove any dirt from the monocular's body using a clean, soft cloth.
- 2) Wipe external surfaces down (with the **exception** of optical surfaces) with a clean cloth moistened with pure water.
- 3) Dry all wet surfaces with a different clean, dry cloth.

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5) To avoid scratches, optical surfaces must be cleaned using a clean cotton swab that has been slightly dampened with pure alcohol. The glass should be wiped in circular motions starting from the center and moving out towards the edge, without touching the barrel. Change the cotton swab as soon as it becomes dirty.

PREPARATION FOR STORAGE

When preparing your Prime for storage, perform the following steps:

- 1) Verify that the monocular is operating in accordance with all previously specified procedures.
- 2) Remove the battery from the battery compartment.
- 3) Clean the monocular and all accessories.
- 4) Place all components into the storage case.

CAUTION:

Each component of the unit should be thoroughly dried before placing them into the storage case.

6. TROUBLESHOOTING

Common problems that may occur with your monocular or the detection and viewing tests, as well as actions you can take to correct them, are listed in the Troubleshooting Table, below. **This table does not list all of the malfunctions that may occur with your device.** If you experience a malfunction of the device that is **not** listed in this table, please contact Armasight or your Prime retailer.

NOTE:

Before you use this table, be sure you have performed all normal operational safety, care and handling checks and procedures. If you have a malfunction which is not listed in this table, notify the next higher level of maintenance.

TRoubleshooting GUIDE

PROBLEM	POSSIBLE CAUSE	ACTION
The monocular does not turn on	Press the Power button.	Press the Power button repeatedly.
	Inspect for a missing, defective or improperly installed battery.	Replace the battery or install it properly.
If these actions fail, turn in the device for unit level maintenance.		
Poor image quality	Check if the eyepiece and lens are focused.	Focus the ocular and lens.
	Check if the lens is greasy, fogged or dirty.	Thoroughly clean the surface of the lens.
If the problem persists, contact your service center.		
Light is visible through the eyecup	Check the exit pupil distance value.	Press the eyecup to your face.
	Check the resilience of the eyepiece.	If the eyecup is defective, contact your service center.
Diopter adjustment cannot be performed	Check to see if the diopter adjustment ring is deformed or broken.	If the diopter adjustment ring is damaged, contact your service center.
IR illuminator does not turn on	Turn the IR illuminator on in a dark area with the monocular on. Visually estimate	If the IR illuminator does not turn on, contact your service center.

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## 7. WARRANTY INFORMATION

This product is guaranteed to be free from manufacturing defects in material and workmanship under normal use for a period of two (2) years from the date of purchase. In the event that a defect covered by the below warranty occurs during the applicable period stated above, Armasight, at its discretion, will either repair or replace the product; such action on the part of Armasight shall be the full extent of Armasight's liability, and the Customer's sole and exclusive reparation. This warranty does not cover a product if it has (a) been used in ways 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 Armasight without prior written consent of Armasight; (d) special order or "close-out" merchandise or merchandise sold "as-is" by either Armasight or the Armasight 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 Armasight. Armasight shall not be responsible for any defects or damage that in Armasight's view are a result from the mishandling, abuse, misuse, improper storage or improper operation of the device, including use in conjunction with equipment that 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 enforced unless the customer notifies Armasight 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

Armasight 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. Armasight'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 Armasight 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 Armasight and the Customer; Armasight's obligations under this Agreement extend solely to the Customer. Armasight's liability hereunder for damages, regardless of the form or action, shall not exceed the fees or other charges paid to Armasight by the customer or customer's dealer. Armasight 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, Armasight must receive a completed Product Warranty Registration Card for each unit, or the Customer can complete a warranty registration on our website, at [www.armsight.com](http://www.armsight.com). Please complete the included form and immediately mail it to our Service Center:

Armasight Inc.  
815 Dubuque Avenue  
South San Francisco  
CA 94080  
United States of America.

## OBTAINING WARRANTY SERVICE

To obtain warranty service on your unit, the End-user (Customer) must notify the Armasight service department via email. Send any requests to [service@armsight.com](mailto:service@armsight.com) to receive a Return Merchandise Authorization number (RMA). When returning any device, please take in the product to your retailer, or send the product, postage paid and with a copy of your sales receipt, to Armasight Corporation's service center at the address listed above. All merchandise must be fully insured with the correct postage; Armasight will not be responsible for improper postage or merchandise that becomes lost or damaged during shipment. When sending product back, please clearly write the RMA# on the outside of the shipping box. Please include a letter that indicates your RMA#, the Customer's Name, a Return Address, reason for the return, Contact information (valid telephone numbers and/or an e-mail address), and proof of purchase 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. The End-user/ Customer is responsible for postage to Armasight for warranty service. Armasight will cover return postage/ shipping after warranty repair to the End-user/ Customer only if the product is covered by the aforementioned warranty. Armasight will return the product after warranty service by domestic UPS Ground service and/ or domestic mail. Should any other requested, required or international shipping methods be necessary, the postage/ shipping fee will be the responsibility of the End-user/ Customer.

## ARMASIGHT PRODUCT WARRANTY REGISTRATION CARD

### PRODUCT INFORMATION

Product Name \_\_\_\_\_ Purchased From \_\_\_\_\_  
Purchase Date \_\_\_\_\_ Product Serial # \_\_\_\_\_

### CUSTOMER INFORMATION

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Country \_\_\_\_\_ Zip \_\_\_\_\_  
Day Phone # \_\_\_\_\_ Home Phone # \_\_\_\_\_  
E-mail address \_\_\_\_\_

Customer Signature Required

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## FOR NOTE

This image shows a full page of blank, lined paper. It features approximately 20 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings on the page.



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