



NYX-14 NYX-14 MG

Night Vision Monocular



OPERATION AND MAINTENANCE MANUAL

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SAFETY SUMMARY

Before operating this product, carefully read and study this Operation and Maintenance Manual.

The NYX-14 is a precision electron-optical instrument, and requires careful handling. To avoid damage to the equipment or physical harm to the user when operating the NYX-14, follow all WARNINGS, CAUTIONS and NOTES.

Below you will find definitions of the following alerts that appear throughout this Manual:

WARNING — Identifies a clear danger to the person operating the equipment.

CAUTION – Identifies risk of damage to the equipment.

NOTE – Serves to highlight essential procedures, conditions, and statements, or convey important instructional data to the user.



WARNING:

This product contains natural rubber latex which may cause allergic reactions! The FDA has reported an increase in the number of 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.



WARNINGS:

- Always make sure your firearm is unloaded before you place the scope on the firearm. Reconfirm that the chamber is empty if you stop the procedure then resume later. Safe handling rules should be followed at all times.
- The light from the unit infrared (IR) illuminator is invisible to the unaided eye when used in total darkness. **However, the light can be detected by other Night Vision Devices (NVD).**
- To reduce the risk of detection by another NVD, avoid prolonged activation of the IR illuminator.
- The IR light is more detectable by an NVD when used in smoke, fog and rain. Avoid prolonged activation of the unit IR illuminator in these conditions.
- The intensifier's phosphor screen contains toxic materials. Please note the following:
 - If the intensifier tube breaks, be **extremely careful** to avoid inhaling the phosphor screen material. DO NOT allow the material to come in contact with your mouth, eyes, or any open wounds on the skin.
 - If the phosphor screen material comes in contact with your skin, wash it off immediately with soap and water.
 - If you inhale or swallow any phosphor screen material, drink a lot of water, induce vomiting, and **seek medical attention as soon as possible.**

The information provided in this manual is for familiarization purposes only. The contents may undergo further changes with no commitment by Armasight® to notify customers of any updates.

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CAUTION:

- The NYX-14 is a precision electron-optical instrument, and must be handled carefully at all times to prevent damage to the device and danger to the user.
- To protect the intensifier tube, **do not remove** the lens cap of the NYX-14 when the monocular is being operated in daylight conditions, or when the device is not in use.
- Use of the NYX-14 in brightly lit conditions may damage the unit's intensifier tube.
- Bright light sources such as firelight, headlights, searchlights, etc. can damage the NYX-14. Avoid exposing the unit to these types of light sources.
- Before removing the lens cap, verify that the photoreceiver is open.
- DO NOT forget to open the photoreceiver after completing your mission.
- DO NOT attempt to force the controls past their stopping points, as this may cause damage to the mechanisms.
- The unit may be badly damaged if the tripod on which it is mounted collapses or overturns. Remove the unit from the tripod if it is not within your reach.
- Before replacing the intensifier tube, confirm that it is no longer covered by warranty.
- Thoroughly dry each component of the NYX-14 before placing them in the storage case.

NOTES:

- The equipment requires some ambient light (moonlight, starlight, etc.) to operate.
- Performance of the device in nighttime conditions depends on the level of ambient light in the environment. Please remember the following:
 - The level of ambient light is reduced by the presence of clouds, shade, or objects that block natural light (trees, buildings, etc.).
 - The equipment is less effective when operated in shadows and other darkened areas.
 - The equipment is less effective when operated in rain, fog, sleet, snow, dust or smoke.
 - The equipment will not “see” through dense smoke.
- At operating temperatures below -20°C (-4°F), the use of an alkaline battery is not recommended, as the battery life will be severely reduced. Under said conditions, lithium-iron disulfide 1.5V AA batteries or their equivalent should be used.
- The IR illuminator is intended for increased illumination, as needed, when viewing at a close distance of up to 3m.
- The NYX-14 is **not** a weapon sight. However, it can be used in conjunction with a collimator dot sight or laser aiming device.
- If you are operating the NYX-14 while it is mounted on a weapon, Armasight recommends replacing the NYX-14 eyecup with an eyeguard.
- For the purpose of returning defective components, retain all packaging materials.

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HOW TO USE THIS MANUAL

USAGE

You must familiarize yourself with the entire manual before operating the equipment. Before performing any kind of maintenance on your device, read the section on maintenance in its entirety. Follow all **WARNINGS**, **CAUTIONS**, and **NOTES**.

MANUAL OVERVIEW

This manual contains sections on Operating and Maintaining the NYX-14 Night Vision Monocular.

Throughout this Manual, the NYX-14 Night Vision Monocular will be referred to as the NYX-14, “the monocular,” or the “equipment.”

The list of Spare Parts can be found in Appendix A.

The Intensifier Tube Replacement Manual can be found in Appendix B.

The Product Warranty Registration Card can be found in Appendix C.

INTRODUCTION

1.1 GENERAL INFORMATION

1.1.1 TYPE OF MANUAL

Operation and Maintenance (including a List of Spare Parts and an Intensifier Tube Replacement Manual).

1.1.2 MODEL NUMBER AND EQUIPMENT NAME

NYX-14 Multi-Use Night Vision Minimonocular.

NYX-14 MG Multi-Use Night Vision Minimonocular with Manual Gain control.

1.1.3 PURPOSE OF EQUIPMENT

To provide the operator with the ability to observe at night under moonlight and starlight conditions.

The NYX-14 can be used as a handheld, head-mounted, helmet-mounted or weapon-mounted device to allow walking, weapon firing, short-range surveillance, map reading, vehicle maintenance, and administering of first aid.

The NYX-14 allows for horizontal and vertical adjustments when mounted to the user's head or helmet, and is equipped with an infrared light-emitting source (IR illuminator).

1.1.4 REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS

Recommendations from the user for improvements to the device are encouraged.

Mail your comments to Armasight Inc., 815 Dubuque Avenue, South San Francisco, CA 94080, USA.

Or, send an email to info@armasight.com.

1.2 WARRANTY INFORMATION AND REGISTRATION

1.2.1 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.

1.2.2 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.

1.2.3 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.ar-masight.com. Please complete the included form (Appendix C) and immediately mail it to our Service Center:

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

1.2.4 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@armasight.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.

1.3 CROSS REFERENCES

COMMON NAME

Allen Wrench
Battery Compartment
Shipping Case
Cotton Swab
Neoprene Jack Plug
O-Ring
Safety Screw
Pattern Generator
Lens Covers
Paddle Switch
Batteries
Technical Manual
Tape Fastener Loop
Tape Fastener Hook

OFFICIAL NAME

Socket Head Screw Key
Battery Box Cover
Textile Bag
Disposable Applicator
Plug Assembly
Gasket
Electrical Dial-Knob Lock
Optical Instrument Reticule
Exit Port Covers
Remote Cable Switch
AA
Operator and Field Maintenance Manual
Fastener, Loop Tape
Fastener, Hook Tape

1.4 LIST OF ABBREVIATIONS

C	Celsius (Centigrade)
CCW	counterclockwise
Cont'd	Continued
CW	clockwise
Dia	diameter
F	Fahrenheit
FOV	Field of View
g	gram
Gen	Generation
H	Height
hr	hour
IR	infrared
IT	Intensifier Tube
L	Length
LED	Light Emitting Diode
lx	lux
m	meter
mA	milliampere
min	minute
mm	millimeter
mW	milliwatt
nm	nanometer
No	Number
NV	Night Vision
NVD	Night Vision Device
Para	Paragraph
PMCS	Preventive Maintenance Checks and Services
QRM	Quick Release Mount
QTY	Quantity
RMA#	Return Merchandise Authorization number
s	second
seq	sequence
SR	Service Representative
VDC	Volts Direct Current
V	Volt
W	Width

DESCRIPTION AND DATA

2.1 SYSTEM DESCRIPTION

The NYX-14 is a hand-held, head-mounted, helmet-mounted, or weapon-mounted night vision system that allows the user to operate it while walking, firing weapons, conducting short-range surveillance, reading maps, conducting vehicle maintenance, or administering first aid in both moonlight and starlight conditions.

The NYX-14 utilizes the principle of intensification of the residual light that is reflected from the surrounding objects. The optical system of the unit consists of an objective lens, an intensifier tube (IT), and an eyepiece.

The NYX-14 automatic brightness adjustment system retains the same gain (image brightness), even under unsteady light conditions.

The NYX-14 automatic protective system controls illumination through a photoreceiver. If the illumination level surpasses 100-300 lx for more than 10 s, the unit will shut off automatically.

Automatic shut-off system automatically turns off the device when it is unused (controls are not touched) for 60 minutes. The automatic shut-off function preserves battery life should the device be inadvertently activated.

A built-in IR illuminator makes it possible to use the unit in low light or total darkness.

The NYX-14 uses LED lights to indicate illumination level, low battery, and to show the user that the IR illuminator is on.

The NYX-14 allows for vertical and fore-and-aft adjustment when mounted to the user's head or helmet, when focusing the lens, and when focusing the eyepiece.

Additionally, the Nyx-14 MG version incorporates gain control, which allows the user to increase or decrease the brightness of the image to compensate for overly bright or extremely dark conditions.

NOTE:

The equipment requires some light (moonlight, starlight, etc.) to operate. Performance of the device depends upon the level of ambient light in the environment. Please remember the following:

- The level of ambient light in the environment is reduced by the presence of clouds, shade, or objects that block natural light (trees, buildings, etc).
- The equipment is less effective when operated in shadows and other darkened areas.
- The equipment is less effective when operated in rain, fog, sleet, snow, or smoke.
- Under starlight conditions, particularly in low-contrast environments such as snow-covered territory, sandy deserts, large bodies of water or grassy hills, the visibility may degrade, thereby disguising or masking changes in terrain.
- The equipment will not "see" through dense smoke.

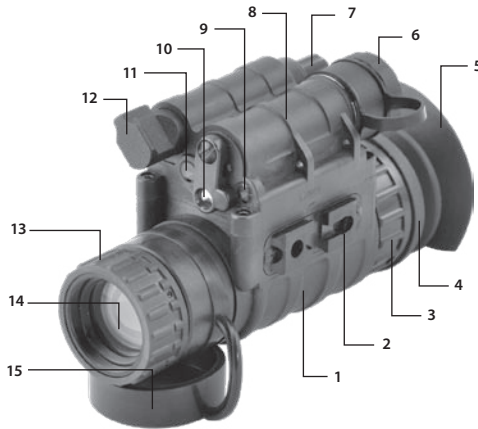


FIGURE 2-1. NYX-14 NIGHT VISION MONOCULAR

TABLE 2-1. NYX-14 SYSTEM DESCRIPTION

ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	Body	9	Photo Receiver
2	Rail	10	Pivotal Focusing Lens
3	Eyepiece Ring	11	IR Illuminator
4	Eyepiece	12	Turn-pull Function Switch
5	Eye-cup	13	Focus Ring
6	Battery Cap	14	Lens
7	Gain Control Knob *	15	Lens Cap
8	Battery Compartment		

* For NYX-14 MG version.

2.2 SPECIFICATIONS

TABLE 2-2. MECHANICAL DATA

EQUIPMENT ITEM	DIMENSIONS, MM	WEIGHT, G
NYX-14/ NYX-14 MG Night Vision Monocular	120x49x69	398 /408**
Flip-up Helmet Mount*	140x70x90	280
Goggle Kit*	280x180x80	295
XLR-IR850*	150x46x46	210
Picatinny/ Mil 1913 Weapon Mount Adapter*	110x59x13	58
Scope Adapter*	120x61x72	150
Sacrificial Window*	Dia 30x7	5
Demist Shield*	Dia 8.5x5.5	4
Camera Adapter*	Dia 60x22	52

TABLE 2-2. CONTINUED

EQUIPMENT ITEM	DIMENSIONS, MM	WEIGHT, G
Dovetail to Weaver Transfer Piece*	38x21x7.5	8
Transfer Adapter to Standard US Mil Headset*	49x46x64	50
3X Afocal Lens*	Dia 64x77	188
5X Afocal Lens*	Dia 78x90	344

* *Optional*

** *For NYX-14 MG version.*

TABLE 2-3. ELECTRICAL DATA

ITEM	DATA
Battery*	One AA (1.5 V) or 123A (3 V)
Continuous Operation** at 20 °C (68°F):	
- AA Alkaline Battery	up to 40 hr (IT Gen. 2+) / 35 hr (IT Gen. 3)
- 123A Lithium Battery	up to 60 hr (IT Gen. 2+) / 50 hr (IT Gen. 3)

* *Any AA or CR123 type rechargeable batteries with voltage from 1.2V to 3.7V can be used.*

** *With IR illuminator off.*

TABLE 2-4. OPTICAL DATA

ITEM	DATA
Magnification:	
— with 1X Lens	(1±0.05) X
— with 3X Afocal Lens* and F27 Lens	(3±0.15) X
— with 5X Afocal Lens* and F27 Lens	(5±0.2) X
1X Lens:	
— Focal Length	27 mm
— Lens F/number	1:1.2
Focus Range:	
— with 1X Lens	0.25 m to infinity
— with 3X Afocal Lens*	5 m to infinity
— with 5X Afocal Lens*	10 m to infinity
FOV:	
— with 1X Lens	40°
— with 3X Afocal Lens*	9°
— with 5X Afocal Lens*	7°
Exit Pupil Diameter	14 mm
Eye Relief	25 mm
Eyepiece Diopter Adjustment	-6 to +2 diopters
Built-in IR Illuminator	
— Power	50 mW
— Illumination Range	20 m
— Focus Distance	3 m
— Illumination Wavelength	850 nm

* *Optional.*

TABLE 2-5. ENVIRONMENTAL DATA

ITEM	DATA
Operating Temperature	-40 to +50 °C
Storage Temperature	-50 to +70 °C
Humidity	95 %, 25 °C to 40 °C for 48 hr
Illumination Required	Natural night illumination (overcast starlight to moonlight)
Immersion	20 m for 1 hr
MIL-STD-810	Complies

2.3 STANDARD COMPONENTS

The standard components of the NYX-14 are shown in Figure 2-2 and listed in Table 2-6. The ITEM NO. column indicates the number used to identify items in Figure 2-2.

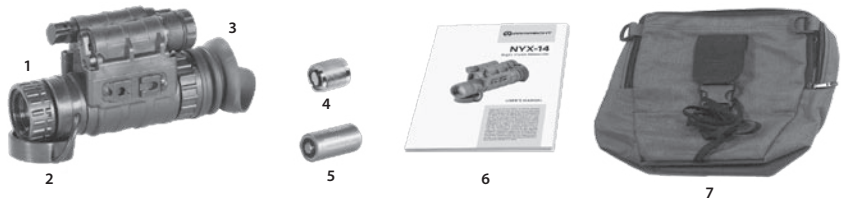


FIGURE 2-2. NYX-14 STANDARD COMPONENTS

TABLE 2-6. NYX-14 STANDARD COMPONENTS

ITEM NO.	DESCRIPTION	QUANTITY
1	Night Vision Monocular	1
2	Lens Cap	1
3	Eye-cup	1
4	Battery Adapter	1
5	Battery 123A Lithium	1
6	Operation and Maintenance Manual	1
7	Carrying Case	1

1) Armasight NYX-14 Night Vision Monocular

Monocular night vision device with unity magnification.

2) Lens Cap

A cap used to protect the lens and to be used when testing the unit in daylight.

3) Eye-cup

A rubber cup used to protect the eyepiece as well as provide comfort for the operator.

4) Battery Adapter

Allows of use of a single 3V CR123 or 1.5V AA batteries.

5) Battery 123A Lithium

A single, 123A lithium battery used to power the unit.

6) Operation and Maintenance Manual

Provides safety information, equipment description, mounting procedures, operating instructions, and preventive maintenance checks and service (including a List of Spare Parts and an Intensifier Tube Replacement Manual).

7) Carrying Case

A protective case used for storing and carrying of the NYX-14 and its accessories.

2.4 OPTIONAL EQUIPMENT

Optional items are shown and listed in Table 2-7.

The PART NO. column indicates the primary number used by the manufacturer to identify an item.

TABLE 2-7. NYX-14 OPTIONAL EQUIPMENT










IMAGE	DESCRIPTION	PART NO.
	3x A-Focal Lens #22 Quickly converts the NYX-14 into a long-range night vision device. Ideal for long range observation.	ANAF3X0002
	5x A-Focal Lens Quickly converts the NYX-14 into a long-range night vision device. Ideal for long range observation.	ANAF5X0002
	4x Lens #12 Quickly converts the NYX-14 into a long-range night vision device. Ideal for long range observation.	ANLE4X0002
	6x Lens Quickly converts the NYX-14 into a long-range night vision device. Ideal for long range observation.	ANLE6X0161
	8X Lens #162 Quickly converts the NYX-14 into a long-range night vision device. Ideal for long range observation.	ANLE8X0162
	ARF53 Advanced Range Finding Stadia for 3x A-Focal Lens	ANAMRF0003
	ARF54 Advanced Range Finding Stadia for 4x Lens	ANAMRF0004
	ARF55 Advanced Range Finding Stadia for 5x A-Focal Lens	ANAMRF0005
	Goggle Kit #2 Adjustable universal assembly that secures the NYX-14 to the operator's head providing hands-free operation.	ANHG000004

TABLE 2-7. CONTINUED




















IMAGE	DESCRIPTION	PART NO.
	<p>Helmet Mount #4 Helps to mount the NYX-14 on a range of ballistic helmets.</p>	<p>ANHM000001</p>
	<p>Mil-Spec MICH Helmet Mount Kit USA #105 with Adapter/Swing Arm #37 Consists of MICH helmet mount and adapter that allows the user to attach the NYX-14 to this mount.</p>	<p>ANHM000007</p>
	<p>Mil-Spec PASGT Helmet Mount Kit USA #106 with Adapter/Swing Arm #37 Consists of PASGT helmet mount and adapter that allows the user to attach the NYX-14 to this mount.</p>	<p>ANHM000008</p>
	<p>Transfer Adapter/Swing Arm to PVS-7/PVS-14 Headset/Helmet #37 Mounts NV Monocular to Standard US Mil Headset (PVS7/PVS14 type) and/or helmet.</p>	<p>ANHG000002</p>
	<p>Swing Arm #172 Mini Rail to Dovetail Adapter (Mounts NV Monocular to Dovetail Type Headsets and Helmet Mounts)</p>	<p>ANHM000172</p>
	<p>Double Lever-Lock Quick Release Picatinny Mount Adapter #26 Small arms adapter that allows the NYX-14 to be mounted on a weapon using Picatinny Mil 1913 rail.</p>	<p>ANAM000004</p>
	<p>AIM PRO Advanced Integrated Mount Allows the user to quickly convert the NYX-14 into a weapon sight.</p>	<p>ANKI000032</p>
	<p>AIM PRO-L Advanced Integrated Mount Long Allows the user to quickly convert the NYX-14 with 3x lens into a weapon sight.</p>	<p>ANKI000049</p>
	<p>Shutter Eyeguard #82 Prevents light from being emitted by the NYX-14 eyepiece. If the user's face is illuminated, they become visible to others in the field, and their position becomes compromised.</p>	<p>ANEC000001</p>
	<p>Scope Adapter Mount #5 Allows the NYX-14 to be attached to variety of daytime rifle scopes or spotting scopes, offering the ultimate solution for day/ night operation.</p>	<p>ANAM000002</p>
	<p>XLR-IR850 Detachable X-Long Range Infrared Illuminator w/ Dovetail to Weaver Transfer Piece #21, Rechargeable Battery, and Charger A detachable LED extra long-range infrared illuminator with wide-angle adjustable beam. Comes fully assembled with a dedicated mount in order to be installed on a Picatinny/Weaver rail.</p>	<p>ANKIXLR017</p>

TABLE 2-7. CONTINUED

IMAGE	DESCRIPTION	PART NO.
	XLR-IR A-Focal Doubler Doubles the distance of XLR-IR850 IR beam	ANAF18XXLR
	IR850W Detachable Wide Angle Adjustable X-Long Range IR Illuminator w/ Dovetail to Weaver Transfer Piece #21	ANKIW00017
	Dovetail to Weaver Transfer Piece #21 Allows the IR illuminator to be mounted on the NYX-14.	ANRA000001
	Extended Rail Adapter #85 Dovetail Weaver Picatinny Rail Adapter Extends 7.5" to 11.5" Tactical Scope Mount.	ANAM000045
	Camera Adapter #46 An adapter with step down ring that allows the NYX-14 to be attached to any 35 mm SLR camera or 8 mm camcorder.	ANAM000029
	Universal Camera Adapter #45 Allows the NYX-14 to be attached to a variety of camera systems.	ANAM000006
	Time Tracker System #83 System/IIT service life recorder is a feature that lets you measure the hours of operation (within one minute) that have been used on the system.	ANCA000001
	Demist Shield #34 When attached to the NYX-14 eyepiece, the demist shield prevents condensation from developing on the optics under rapid temperature changes.	ANLCO00001
	Sacrificial Window #30 This feature is useful in environments with large amounts of dust, dirt or debris in the air, as can be found in environments with high-speed winds or storm conditions. The sacrificial window preserves the objective lens of the NYX-14.	ANLCO00002
	Hard Shipping/Storage Case #101 A protective case used for the shipping/ storage of the NYX-14 and its accessories.	ANHC000001
	Tactical Goggle Kit: Wilcox L4 G24 and 3 Hole Shroud, Crye Precision Nightcap, and Swing Arm #172	ANHGWX0G70

2.5 KEY FEATURES

- Gen 2+/3 intensifier tube
- Automatic bright light cut-off system to protect the intensifier tube
- LED lights visible in the eyepiece viewing area that indicate operation of the bright light cut-off system and IR illuminator, as well as to alert the user of a low battery
- Built-in IR illuminator with pivotal lens to select between IR spot and flood beam
- Left or right eye use
- Lightweight
- Compact and robust design
- Easy to operate
- Automatic shut-off system
- Serviceability under severe conditions
- High-performance
- Highly reliable
- Powered by single CR123A or AA battery
- Weapon-mountable
- Head or helmet-mountable for hands-free usage
- Adaptable for use with cameras
- Automatic ON/ OFF feature with flip-up head/ helmet mount
- Manual gain control (Nyx-14 MG version) for the best possible image contrast under very high and very low light conditions
- Compatibility with most weapons, IR laser aiming/ illuminating devices, reflex sights, and scopes
- Waterproof
- Limited two-year warranty

OPERATING INSTRUCTIONS

3.1 INSTALLATION AND MOUNTING

CAUTION:

To protect the intensifier tube when the sight is not in use or when it is being operated in daylight, keep the protective lens cap securely fitted over the lens.

3.1.1 BATTERY INSTALLATION

The NYX-14 operates on a single CR123A or AA battery.

Depending on the size of the battery used, it may be necessary to reposition the battery adapter within the battery cap.

NOTE:

If operating the device at temperatures below -20°C (-4°F), the use of an alkaline battery is not recommended, as the severe cold will adversely affect the life of the battery. In these conditions, it is recommended that you use a lithium-iron disulfide 1.5V AA battery, or its equivalent.

Install the CR123A battery as follows (refer to Figure 3-1):

1. Unscrew the battery cap (A) and insert the CR123A battery (B), observing the polarity markings on the body of the device.
2. With the battery adapter (C) installed, screw the battery cap (A) back on securely.

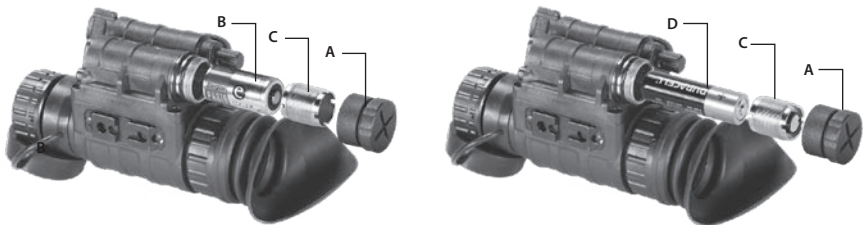


FIGURE 3-1. BATTERY INSTALLATION

Install the AA battery as follows:

1. Unscrew the battery cap (A).
2. Unscrew the battery adapter (C) from the cap, turn it around, and screw in the other end.
3. Insert the AA battery (D), observing the polarity markings as indicated on the body of the device.
4. Screw the battery cap (A) back into place.

3.1.2 MOUNTING THE NYX-14 TO A GOGGLE KIT

Mount the NYX-14 to the optional goggle kit as follows (refer to Figure 3-2):

1. Put on the goggle kit. Adjust the goggle kit strap pads until the goggles fit securely around your head. Remove the goggle kit.
2. Loosen the screw (A). While pushing down on the button (B), insert the NYX-14 rail into the guide (C) of the goggle kit bracket. Tighten the screw (A).
3. Put on the goggle kit, now mounted with the NYX-14.
4. To adjust the equipment for greater comfort, loosen the screw (A) and move the unit along the guide (C).
5. The goggle kit has a flip-up mechanism. Push the button (D) of the goggle kit bracket and lift the unit up until it reaches its top position. The unit will automatically turn off when it reaches this position.
6. Push the same button (D) to lower the unit into the correct viewing position. Turn the unit back on to continue your session.

Figure 3-2 shows the NYX-14 in the correct position for the right eye. To readjust the unit for the other eye, remove the unit from the goggle kit bracket. Turn the unit around (180°) and mount it on the bracket through the rail on the second side. With the button (E) pushed, move the unit along the slide-rail (F) until the desired, most comfortable position is reached.

To remove the NYX-14 from the goggle kit, loosen the screw (A), push the button (B), and slide the unit out of the bracket guide (C).

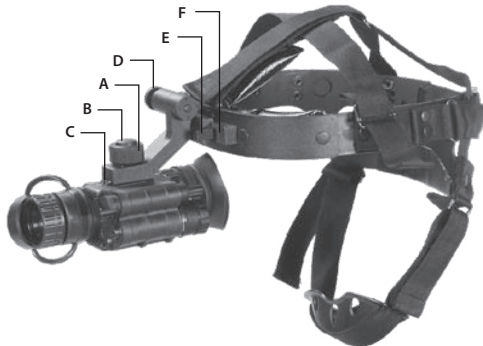


FIGURE 3-2. MOUNTING NYX-14 TO A GOGGLE KIT

3.1.3 MOUNTING THE NYX-14 TO A HELMET

An optional flip-up helmet mount can be used to attach the NYX-14 to a helmet. The helmet mount fits the NYX-14 securely onto helmet via a rugged strapping device and grooved hooks. With the helmet mount, the NYX-14 can be positioned directly in front of the user's eyes, or flipped backwards, out of the field of view.

Mount the NYX-14 to a helmet as follows (refer to Figure 3-3):

1. Attach the mount to the helmet.
2. Adjust and tighten the strap (A).
3. Loosen the screw (B). With the button (C) pushed down, insert the NYX-14 rail into the guide (D) of the helmet mount bracket. Tighten the screw (B).

4. Put on the helmet with the NYX-14 attached.
5. Push the button (F) and move the unit along the slide-rail (G) until the most comfortable position is reached.
6. Adjust the mount for comfortable using. Loosen the screw (B) and move the unit along the guide (D) for eye relief adjustment. Turn the lever (H) and move the unit along vertical slide-rail until the most comfortable vertical position is reached.
7. To remove the NYX-14 and turn it around, push the button down (E) and lift the unit up until it reaches the top position. Once it reaches this position, the unit will turn off automatically.
8. Push the same button (E) to lower the NYX-14 into the proper viewing position. Turn the unit on to proceed with your mission.

In Figure 3-3, the NYX-14 is shown in the correct position for the right eye. To readjust the NYX-14 for the left eye, reverse its positioning and reinstall it on the helmet mount bracket (see Figure 3-3). Use the second unit rail located on the opposite side of the unit. Push the button (F) and move the unit along the slide-rail (G) until the most comfortable position is reached.

To remove the NYX-14 from the helmet mount, loosen the screw (B), push down on the button (C), and slide the unit out of the guide (D). To remove the flip-up mechanism from the helmet mount, loosen the lever (H), pull the knob out (I), and slide the flip-up mechanism out of the vertical rail.

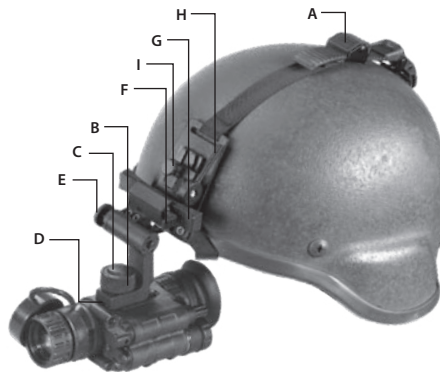


FIGURE 3-3. MOUNTING THE NYX-14 TO A HELMET

3.1.4 MOUNTING THE NYX-14 TO A STANDARD US MIL HELMET/ HEADGEAR ASSEMBLY

To mount the NYX-14 to a Standard US Mil helmet or headgear assembly, use an optional transfer adapter. Perform the following steps (refer to Figure 3-4):

1. Push down on the lever (C). Mount the adapter (A) to the NYX-14 rail (B).
2. Align the adapter prism (D) with the helmet/ headgear assembly mount (E). Slide the NYX-14 backwards until its alignment boss is in line with the alignment groove on the helmet/ headgear assembly mount. Push down until the NYX-14 locks into the helmet/ headgear assembly mount.

To dismount the NYX-14 from the helmet/ headgear assembly, push down on the lever (F) and remove the unit.

Push down on the lever (C) and remove the adapter from the NYX-14 rail.

The transfer adapter can be adjusted for either the right or left eye. In Figure 3-4, the NYX-14 is shown in the proper position for the left eye. Readjust the adapter for the right eye as follows:

- Push down on the lever (C). Remove the adapter from the NYX-14 rail.
- Loosen the nut (G), and turn the adapter around between the two fixing devices. Retighten the nut (G).

— Mount the adapter to the other NYX-14 rail located on the opposite side of the unit.

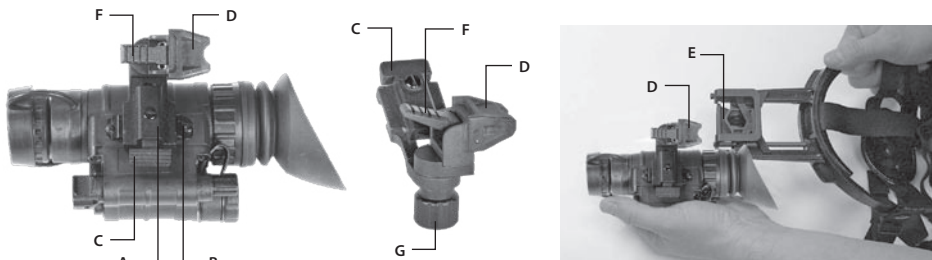


FIGURE 3-4. MOUNTING NYX-14 TO STANDARD US MIL HELMET/HEADGEAR ASSEMBLY

3.1.5 MOUNTING THE NYX-14 TO A TACTICAL GOGGLE KIT

To mount the NYX-14 to a Tactical Goggle Kit use an Swing Arm adapter. Insert the NYX-14 rail into the guide (Figure 3-5, A) of adapter. Push down the lever (B) and slide the unit until its alignment boss is parallel with the alignment groove on the adapter. Push until you hear a clicking noise indicating that the unit is locked into transfer adapter.

To uninstall the NYX-14 from the transfer adapter push down the lever (B) and remove the unit by sliding from the adapter guide.

Install the NYX-14 with adapter to the L4 G24 mount (C) of Tactical Goggle Kit. Align the adapter with the mount socket. Slide and push NYX-14 until the adapter locks into the mount.

Adjust the NightCap™ (D) as follows (refer to Figure 3-5):

1. Loosen all adjustment buckles. Holding rear adjustment straps, lean head forward, pocket forehead against pad and place over head.
2. Hold in place at rear of NightCap™ and tighten rear adjustment strap until snug.
3. Place and center chin cup on chin and secure buckle (E).
4. Pull front adjustment strap hardware (F) down until snug.
5. Pull rear adjustment strap hardware (G) down until snug.
6. If bottom edge of NightCap™ headband is touching your ears, adjust side-to-side top adjustment tabs.
7. Front-to-back adjustment strap (H) can be tensioned to balance the NYX-14.
8. Use slack retainer to secure excess rear adjustment strap.

Adjust the interpupillary distance so that the eyepiece of the monocular is aligned to your eye. Loosen the screw (I) of the adapter and move the NYX-14 left or right along the guide (J). Position of the end of guide indicates the interpupillary distance on the scale (K). Tighten the screw (C) when adjustment is finished.

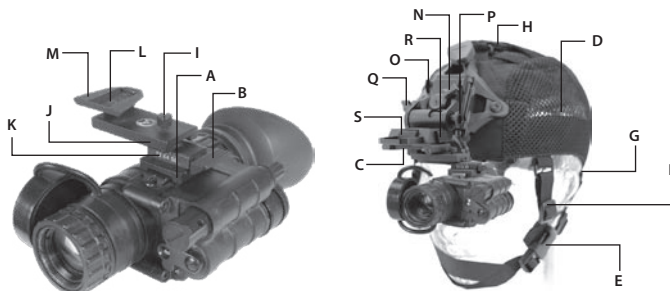


FIGURE 3-5. MOUNTING NYX-14 TO A TACTICAL GOGGLE KIT

The transfer adapter can be adjusted for either the right or left eye. The adapter adjusted for a left eye is shown on Figure 3-5. To readjust the adapter for the right eye perform the following steps:

1. Unscrew the two screws (L) and uninstall the plate (M).
2. Turn the plate (B) around.
3. Align the holes in the plate with the two threaded holes in the mount as shown on the Figure 3-11 and screw in two screws on the places.

Use the L4 G24 mount as follows:

1. Lock Release Lever (N) allows NYX-14 height to be easily adjusted up or down, then secured.
2. A Breakaway Release Lever (O) allows the operator to easily set the desirable mode (breakaway or locked), depending upon operational needs.
3. An ergonomically placed Flip Release Button (P) allows the Mount to “flip up” to a stowed position when the goggle is attached.
4. A Tilt Adjustment Knob (Q) allows the operator to fine adjust the tilt angle of the NYX-14.
5. A Mount Release Lever allows attachment and removal of the mount.
6. A Fore/Aft Release Lever (R) allows for fore/aft travel of the NYX-14. Releasing the lever allows the operator to set the fore/aft position of the NYX-14.
7. An ergonomically placed Release Button (S) allows for one handed release of the NYX-14.

3.1.6 MOUNTING THE NYX-14 TO A WEAPON WITH A QUICK-RELEASE PICATINNY MOUNT ADAPTER

To mount the NYX-14 to a weapon using an optional quick-release Picatinny mount adapter (QRM), perform the following (refer to Figure 3-6):

1. While pushing down on the lever holder (C), turn the lever (B) backwards to loosen the QRM clamping device (A).
2. Install the QRM on the weapon rail by inserting the stop (not shown in Figure 3-6) into one of transverse slots of the weapon rail.
3. To secure the QRM onto the weapon rail, turn the lever (B) forward. Secure the clamping device (A) tightly to the weapon rail. To adjust the force of the lever clamp, loosen or tighten the nut (D) as necessary.
4. While pushing down on the lever holder (F), turn the lever (E) forward.
5. Install the NYX-14 on the QRM rail by inserting the stop (G) into the transverse slot of the unit rail.
6. Attach the NYX-14 to the QRM rail by turning the lever (E) backwards. Secure the QRM clamping device (H) tightly to the NYX-14 rail. To adjust the force of the lever clamp, loosen or tighten the nut (I) as necessary.

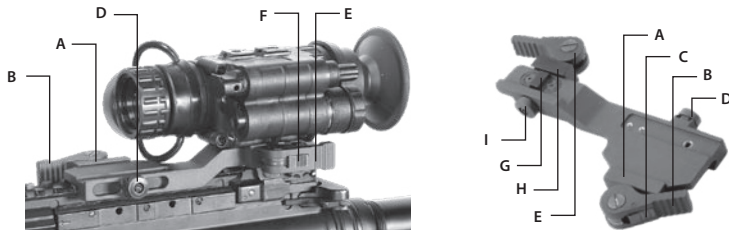


FIGURE 3-6. MOUNTING THE NYX-14 TO A WEAPON WITH A QUICK-RELEASE PICATINNY MOUNT ADAPTER

3.1.7 MOUNTING THE NYX-14 TO A SCOPE

To mount the NYX-14 to a daytime scope using an optional flip-up scope adapter, perform the following (refer to Figure 3-7):

1. Loosen the adapter's fixing screw (A).
2. Install the insert into the adapter (Armasight supplies inserts of different sizes for coupling with 38-43mm eyepieces).
3. To attach the NYX-14 to the adapter bracket (B), push down on the button (C), loosen the fixing screw (D), and insert the unit rail into the bracket guide. Tighten the screw (D) to secure the NYX-14 to the bracket.
4. Insert the daytime riflescope eyepiece into the adapter (now attached to the NYX-14). Be sure to leave a small space between the riflescope eyepiece and the monocular's front lens.
5. Tighten the adapter fixing screw (A).
6. To work solely with the daytime scope, push down on the button (E) and flip the NYX-14 over (180°).



FIGURE 3-7. MOUNTING THE NYX-14 TO A SCOPE

3.1.8 MOUNTING AN IR ILLUMINATOR TO THE NYX-14

To mount an IR illuminator to the NYX-14, use the optional Dovetail to Weaver Transfer Piece. Perform the following steps (refer to Figure 3-8):

1. Install the transfer piece (A) onto one of the NYX-14 rails.
2. Tighten the two fixing screws (B) on the transfer piece.
3. Loosen the IR illuminator fixing screw (C).
4. Mount the IR illuminator on the Weaver rail of transfer piece and tighten the fixing screw (C).



FIGURE 3-8. MOUNTING AN IR ILLUMINATOR TO THE NYX-14

3.1.9 MOUNTING ACCESSORY LENSES TO THE NYX-14

To mount the 3X afocal lens (A) or 5X afocal lens (B) to the device, screw it into the threading of the standard 1X objective lens on the NYX-14.

To mount 4x, 6x or 8X (C) lens, unscrew the existing 1X objective lens of the NYX-14 and screw in the 5X or 8X lens in its place.

The NYX-14 configured with an 8X lens can be installed on a tripod. To mount the unit on a tripod, use the 1/4" threaded socket (E) on the housing of the 8X lens.

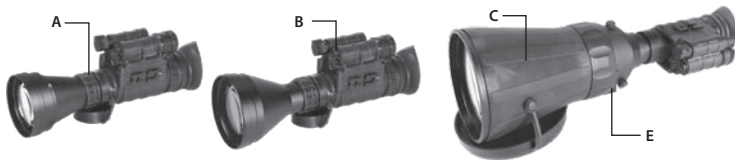


FIGURE 3-9. MOUNTING ACCESSORY LENSES TO NYX-14

NOTE:

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

3.1.10 MOUNTING THE NYX-14 TO A WEAPON WITH AN AIM PRO ADVANCED INTEGRATED MOUNT

The clamping system of the AIM PRO (AIM PRO-L) advanced integrated mount is the same as is seen on the QRM. To mount the NYX-14 to a weapon with an AIM PRO, see Part 3.1.6 of this Manual. This section details mounting instructions and procedures for the QRM.

For more information on the use of an AIM , see the AIM PRO User’s Manual.



FIGURE 3-10. MOUNTING THE NYX-14 TO A WEAPON WITH AN AIM PRO

3.1.11 MOUNTING A CAMERA/ CAMCORDER TO THE NYX-14

To mount any 35mm SLR photographic camera or 8mm camcorder to the NYX-14, use the optional camera adapter and perform the following (refer to Figure 3-11):

1. Using the (M37x0.75 threaded) adapter ring (B), screw the (M52x0.75 threaded) adapter (A) into the front lens of the photographic camera or video camera.
2. Remove the eyecup from the NYX-14 eyepiece.
3. Connect the adapter with the eyepiece and tighten the three fixing screws (C) located on the adapter.



FIGURE 3-11. MOUNTING A CAMERA/ CAMCORDER TO THE NYX-14

3.1.12 UNIVERSAL CAMERA ADAPTER APPLICATION

To mount the NYX-14 (affixed with a camera or video recorder) to a tripod, you will need a universal camera adapter. Mount the connected devices to a tripod as follows (refer to Figure 3-12):

1. Screw the adapter onto the tripod.
2. Remove the eyecup from the NYX-14 eyepiece.
3. Install the NYX-14 on the adapter rail (A) and tighten the fixing screw (B).
4. Install the camera on the adapter rail (C) and insert the fixing screw (D) into the tripod socket of the camera. Tighten the fixing screw.
5. Loosen the screws one by one. Align the optical axis of the NYX-14 with the camera objective. Tighten the screws (E and F).
6. To focus the image, loosen the screw (G) and adjust the distance between the monocular and the camera's eyepiece. Tighten the screw (G).

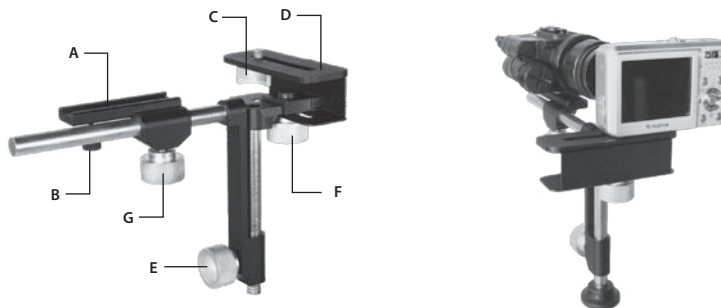


FIGURE 3-12. UNIVERSAL CAMERA ADAPTER APPLICATION

3.1.13 MOUNTING A DEMIST SHIELD TO THE NYX-14

Mount a demist shield to the NYX-14 as follows:

1. Remove the eyecup from the NYX-14 eyepiece.
2. Coat the demist shield with an anti-fogging compound, to prevent moisture condensation on the surface of the shield.
3. Screw the demist shield into the threading of the eyepiece.
4. Secure the eyecup back into place.

3.1.14 MOUNTING A SACRIFICIAL WINDOW TO THE NYX-14

Mount a sacrificial window to the NYX-14 as follows:

1. Remove the NYX-14 lens cap.
2. Screw the sacrificial window into the lens threading.

3.2 CONTROLS AND INDICATORS

3.2.1 CONTROLS AND INDICATORS

The NYX-14 controls and indicators are defined in Table 3-1.

The NYX-14 controls are shown in Figure 3-13.

CAUTION:

DO NOT over-adjust the controls by forcing them past their stopping points.

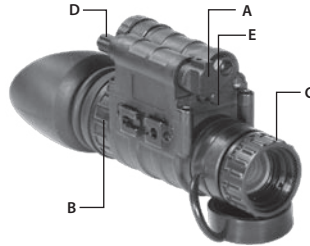


FIGURE 3-13. NYX-14 CONTROLS

TABLE 3-1. NYX-14 CONTROLS AND INDICATORS

CONTROL/INDICATOR	FUNCTION
Turn-pull Function Switch (Figure 3-13, A)	OFF position — the unit is off.
	ON position — the unit is on (IT powered). Turn the unit on by turning the switch CCW from OFF to ON.
	IR position — the unit is on, and the IR illuminator is activated. Activate the IR illuminator by pulling it out and turning the switch CW from ON to the IR position.
Eyepiece Ring (Figure 3-13, B)	Adjusts the unit diopter. The total dioptic range is covered in a 1/2 ring revolution.
Focusing Ring (Figure 3-13, C)	Focuses the lens. Adjusts for sharpest view of the scene. The total focus range is covered in a 1/3 ring revolution.
Gain Control Knob* (Figure 3-13, D)	Adjusts for image contrast.
Pivotal Focusing Lens (Figure 3-13, E)	Allows the user to choose between the following: <ol style="list-style-type: none"> 1. The IR illuminator spot beam. When the pivotal focusing lens is placed in the leftmost position of the window of the IR illuminator, the photoreceiver is open. 2. The IR illuminator flood beam. When the focusing lens is placed in the center position, the photoreceiver is opened. 3. The photoreceiver will close when the focusing lens is placed in the rightmost position.
Built-in LED Indicators	A GREEN GLOW in the eyepiece viewing area indicates excessive light conditions. After 10 s of exposure to bright light, the intensifier will shut off automatically. The unit will turn back on again when moved away from the excessive light.
	A PERMANENT RED GLOW in the eyepiece viewing area indicates that the IR illuminator is operating.
	A FLASHING RED LIGHT in the eyepiece viewing area indicates that the battery is low.

* For NYX-14 MG version only.

3.3 OPERATING PROCEDURES

3.3.1 OPERATING PROCEDURES

These procedures should be performed under nighttime conditions only.

CAUTION:

Use of the NYX-14 brightly lit conditions may damage the unit's intensifier tube.

1. Verify that the battery is installed as indicated on the monocular body.
2. Make a visual estimation of the illumination level in the viewing area. The required level of illumination is less than 1 lx (late twilight sky conditions).
3. Remove the lens cap and place it over the housing of the lens.

CAUTION:

Before removing the objective lens cap, verify that the photoreceiver is open.

4. Turn the function switch ON. After a slight delay, a green glow will appear in the eyepiece of the monocular.
5. Adjust the unit diopter by rotating the ring of the eyepiece.
6. Observe the scene. Rotate the focus ring until the image is clear and sharp.
7. Adjust the brightness and contrast of the image using the gain control knob (Nyx-14 MG version).

CAUTION:

Bright sources such as firelight, headlights, searchlights, etc. can damage the NYX-14. Avoid exposing the unit to these types of light sources.

NOTE:

If the automatic shut-off system automatically turns off the device when it is used you need turn the operation switch to OFF position and then back to ON position for continuing the operation.

3.3.2 IR ILLUMINATOR OPERATIONS

CAUTION:

When operating the device in extremely dark conditions, the light from the unit's IR illuminator will be invisible to the unaided eye. However, the light can be detected by other NVDs.

NOTE:

The built-in IR illuminator is designed to provide additional illumination (when needed) while viewing scenes or targets from a short distance (up to 3m).

1. To activate the IR illuminator, turn the monocular on. Pull the IR illuminator out and flip the turn-pull function switch (Figure 3-14, A) CW from ON to the IR position. A red light will appear in the eyepiece to indicate that the IR illuminator is operating.
2. Focus the IR light, if necessary, by placing the pivotal focusing lens (B) onto the IR illuminator output window (C).

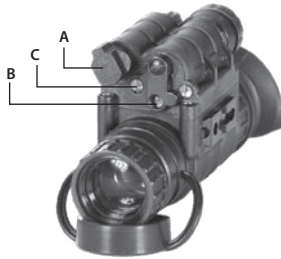


FIGURE 3-14. IR ILLUMINATOR OPERATIONS

3.3.3 OPERATING UNDER CHANGING LIGHT CONDITIONS

If the ambient light level exceeds the limit of 100-300 lx for more than 10 s, the NYX-14 automatic protective system will shut off the intensifier tube. If a mission must be carried out in changing light conditions, the user can shut down the protective system manually by closing the photoreceiver.



FIGURE 3-15. PHOTORECEIVER IS CLOSED WITH CAP ON THE PIVOT PLATE

CAUTION:

DO NOT forget to open the photoreceiver after completing your mission.

3.3.4 NYX-14 SHUT-DOWN

1. Turn the function switch to OFF. The green glow of the viewing area will fade to black.
2. Secure the lens cap over the objective lens.
3. If necessary, remove the unit from the rail (from the scope lens). Remove the unit by following the mounting instructions in reverse.
4. Unscrew the battery cap and take out the battery. Replace the battery cap. Do not store the unit with the battery still in it.
5. Store the unit and all accessories in the case.

3.4 STORAGE

3.4.1 PREPARATIONS FOR STORAGE

Prepare the NYX-14 for storage as follows:

1. Verify that the NYX-14 and all accessories are clean and dry before returning them to the storage case.
2. Secure the cap over the objective lens.
3. Remove the battery.
4. Place the NYX-14 and accessories in the appropriate locations in the case, and close the cover.

PREVENTIVE MAINTENANCE AND TROUBLESHOOTING

4.1 PREVENTIVE MAINTENANCE CHECKS AND SERVICES

4.1.1 PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

Table 4-1: Preventive Maintenance Checks and Services has been provided so that you can keep your equipment operable and in good condition.

Perform all functional tests in the order listed in Table 4-1.

Operating Procedures are detailed in Chapter 3.

A. Cautions

Always observe any CAUTIONS that appear in the table.

B. Explanation of Table Entries

SEQ NO. column. Sequence numbers are for reference and appear in the order required to perform checks and services.

LOCATION/ITEM TO CHECK/SERVICE column. Indicates the location and the item to be checked or serviced.

PROCEDURE column. Details the checking/ servicing procedure.

NOT FULLY MISSION CAPABLE IF column. Indicates what faults will prevent your equipment from operating successfully.

TABLE 4-1. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

SEQ NO.	LOCATION ITEM TO CHECK/SERVICE	PROCEDURE	NOT FULLY MISSION CAPABLE IF
BEFORE OPERATION CHECKS			
1	Completeness	Open the carrying case and inventory items by means of comparing with the data specified in this manual.	Items are missing.
2	Soft Carrying Case	Shake out loose dirt or foreign material. Inspect for tears, cuts, excess wear or damage to the mounting clips.	
3	External Surfaces	Inspect for cracks or damage. Scratches and gouges are OK if operation is not affected.	Cracked or damaged.
4	Lens Cap	Inspect for cracked, torn, or missing lens caps.	Cap is torn or cut. Cup is not secured to the housing of the lens.

TABLE 4-1. CONTINUED

SEQ NO.	LOCATION ITEM TO CHECK/SERVICE	PROCEDURE	NOT FULLY MISSION CAPABLE IF
5	Eyecup	Inspect for dirt, dust. Inspect for cracked or torn, bent, broken or improperly fitting eyecup. If necessary, clean as per Para 4.4.2.	Cup torn or cut.
6	Battery Adapter/ Compartment/ Cap	Verify that the battery adapter is present. Inspect for corrosion, moisture, corroded or defective contacts. Verify that the o-ring is present.	Adapter is missing, contacts damaged or corroded, or o-ring is missing.
7	Function Switch	Check the switch for operation (without a battery).	Switch has no definite stopping points. Switch knob is broken or missing.
8	Pivotal Focusing Lens	Check to make sure pivotal focusing lens is present.	Pivotal focusing lens is missing.
9	Gain Control Knob (for Nyx-14 MG)	Check knob for operation.	Knob inoperative. Knob is missing.
10	Lenses	Inspect optical surfaces for dirt, fingerprint residue, scratches, chips, or cracks.	Scratches or chips hinder vision with NYX-14 turned on. Cracks are present. Photoreceiver damaged. Pivotal focusing lens damaged.
11	Focusing Ring	Rotate the focusing ring to ensure free movement (range is approximately 1/3 turn).	Ring gets stuck or adversely affects the user's ability to properly focus the unit.
12	Eyeiece Ring	Rotate the eyepiece ring to make sure the eyepiece is not too tight or too loose. Range is approximately 1/2 turn.	Ring gets stuck, is too loose, or adversely affects the user's ability to properly adjust the diopter.
13	Optional Equipment	Inspect optional items for dirt, or corrosion, damage, and missing parts. Check for proper operation. If necessary, clean as detailed in Part 4.4.2.	Equipment is damaged or parts are missing.

OPERATIONAL CHECKS

CAUTION:

Do not activate the NYX-14 in daylight unless the lens cap is on, or you are operating under dark conditions.

CAUTION:

Do not forget to open the photoreceiver after finishing operational checks.

NOTE:

Daylight checks are described below.

14	Function Switch	Install the battery. Verify that the photoreceiver is open. Turn the switch from OFF to ON. Look for the green glow in eyepiece (it should appear after a slight delay), and wait about 10 s for image to disappear. Look for a flashing red light in eyepiece viewing area. Close the photoreceiver by placing the pivotal focusing lens in rightmost position. Pull out the IR and turn the switch from ON to the IR position. Look for a permanent red glow in the eyepiece viewing area. Turn the switch from IR to ON position.	Image is present. Red light is flashing. Permanent red glow is absent
15	Gain Control (for Nyx-14 MG)	Rotate the gain control knob to verify that it adjusts the screen's brightness level. Inspect for a broken or missing knob.	Knob does not adjust the screen's brightness level.
16	Viewed Image	Inspect for any operational defects (refer to Part 4.3.1: Identification of Operational Defects).	Shading, edge glow, flashing, flickering, and intermittent operation, or excessive cosmetic defects are found.

AFTER CHECKING PROCEDURES

17		Turn the unit OFF. Verify that the green glow fades from the eyepieces. Remove the battery. Return the unit and all accessories to the soft carrying case.	
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4.2 TROUBLESHOOTING

4.2.1 OPERATOR TROUBLESHOOTING

The purpose of troubleshooting is to identify the most frequently occurring equipment malfunctions, their probable causes, and the corrective actions required to fix them.

Table 4-2 lists common malfunctions that may occur during the operation or maintenance of the NYX-14. Perform the tests, inspections, and corrective actions in the order listed in the table.

This table does not list all of the malfunctions that may occur with your device, or all of the tests and corrective actions that may be necessary. If you experience an equipment malfunction that is not listed, or is not fixed by the corrective actions listed in the table, please contact Armasight's Customer Service center.

TABLE 4-2. OPERATOR TROUBLESHOOTING

MALFUNCTION	PROBABLE CAUSE/ TEST/INSPECTION	CORRECTIVE ACTION
Monocular fails to activate.	Battery is dead, missing or improperly installed.	Replace the battery or install it correctly.
	Battery contact surfaces or contact springs are dirty or corroded.	Clean the contact surfaces with a pencil eraser and/or alcohol and cotton swabs.
	Defective image intensifier.	Please contact Customer Support.
Battery adapter difficult to remove.	Check for damaged battery adapter and battery cap.	If damaged please contact Customer Support.
IR illuminator fails to activate.	Turn the IR illuminator on in a dark area. Visually estimate whether or not the observed scene is illuminated.	If the IR illuminator fails to activate, please contact Customer Support.
LED indicators fail to activate.	Visual inspection.	Please contact Customer Support.
Poor image quality.	Check objective lens or eyepiece focus.	Refocus the lens.
	Check for fogging or dirt on the lens.	Clean the lens as detailed in Part 4.4.2. If image quality is still poor, please contact Customer Support.
	Damaged optical components.	Please contact Customer Support
Light is visible around the eyecup.	Check the exit pupil distance value.	Readjust for proper eye-relief distance.
	Check the eyecup resilience.	If the eyecup is defective, please contact Customer Support.
Focusing ring cannot be moved.	Check to see if the focusing ring is bent or broken.	If damaged, please contact Customer Support.
Eyepiece ring cannot be moved.	Check to see if the eyepiece ring is bent or broken.	If damaged, please contact Customer Support.

4.3 IDENTIFICATION OF OPERATIONAL DEFECTS

4.3.1 OPERATIONAL DEFECTS

Operational defects relate to the reliability of the intensifier, and are an indication of instability. If identified, the user will need to return the NYX-14 immediately. Operational defects include shading, edge glow, flashing, flickering, and intermittent operation.

A. Shading

If shading is persistent, you will not be able to see a fully circular image (Figure 4-1). Shading is a very dark, high-contrast area with a distinct line of demarcation present, and you cannot see an image through it. Shading always begins on the edge, and will eventually migrate inward until it spans across the entire image area. If you notice shading with your device, please contact Customer Support.

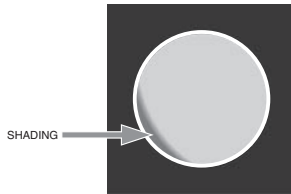


FIGURE 4-1. SHADING

NOTE:

Verify that any shading is not the result of improper eye-relief adjustment.

B. Edge Glow

Edge glow is a bright area (it sometimes appears to be sparkling) in the outer portion of the viewing area (see Figure 4-2). To check for edge glow, block out all light from the device by cupping a hand over the lens. If the image tube is displaying edge glow, the bright area will still show up; if edge glow occurs, please contact Customer Support.

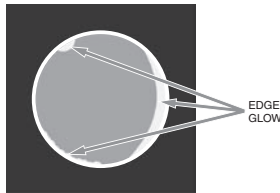


FIGURE 4-2. EDGE GLOW

C. Flashing, Flickering, or Intermittent Operation

The image may appear to flicker or flash. If there is more than a single flicker, check for a loose battery adapter or a weak battery. If flickering continues, please contact Customer Support.

4.3.2 COSMETIC BLEMISHES

Cosmetic blemishes are usually the result of manufacturing imperfections. They **do not** affect the reliability of the image intensifier, and are not normally a cause for returning the NYX-14. However, some types of cosmetic blemishes can worsen over time and interfere with the user's ability to properly operate the device during missions. If you believe a cosmetic blemish is cause for returning the device, record the specific nature of the problem on the maintenance forms and use the clock method to identify the position of the blemish and its approximate distance from the center (e.g., 5:00 toward the outside, 2:30 near the center, or 1:00 midway).

The following are examples of cosmetic blemishes:

A. Bright Spots

A bright spot is a small, non-uniform bright area that may flicker or appear constant (Figure 4-3).

Not all bright spots make the NYX-14 rejectable. Cup your hand over the lens to block out all light. If the bright spot remains please contact Customer Support.

Bright spots usually go away when all light is blocked out. Verify that any bright spots are not simply the result of bright light in the area you are observing. Bright spots are acceptable if they do not interfere with the user's ability to view the scene or perform missions.

B. Emission points

Emission points are steady or fluctuating pinpoint of bright light in the image area that do not go away when all external light is blocked from the objective lens (Figure 4-3). The position of an emission point within the image area does not move. Not all emission points are cause to return the NYX-14. Verify that emission points are not simply light sources present in the scene you are observing. Emission points are acceptable if they do not interfere with the user's ability to perform missions.

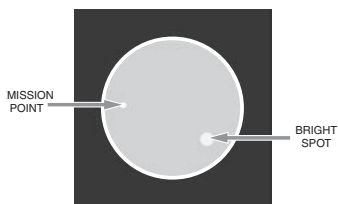


FIGURE 4-3. EMISSION POINTS AND BRIGHT SPOTS

C. Black Spots

Black spots are cosmetic blemishes in the image intensifier or debris between the lenses. Black spots are acceptable as long as they do not interfere with the user's ability to observe the scene. No action is required if this condition is present, unless the spots interfere with the operator's ability to perform missions.

D. Fixed-pattern Noise

Fixed-pattern noise is usually a cosmetic blemish characterized by a faint hexagonal (honeycomb) pattern that appears throughout the viewing area. This typically occurs in excessively lit environments or when viewing very bright lights (See Figure 4-4). This pattern can be seen in every image intensifier if the level of light is high enough. This condition is acceptable as long as the pattern does not interfere with the user's ability to view an image or interfere with their ability to perform missions.

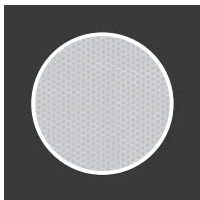


FIGURE 4-4. FIXED-PATTERN NOISE

E. Chicken Wire

Chicken wire is an irregular pattern of dark thin lines that can appear in the field of view, either throughout the image area or in sections of the image area (See Figure 4-5). In the worst-case scenario, these lines will form hexagonal or square-wave shaped lines. No action is required if this condition is present, unless it interferes with the user's ability to view the image or their ability to perform missions.



FIGURE 4-5. CHICKEN WIRE

4.4 MAINTENANCE

4.4.1 GENERAL

The section regarding NYX-14 operator maintenance consists of operational tests, inspections for the unit serviceability, cleaning and mounting procedures, troubleshooting, and replacement instructions for a limited number of parts. Maintenance instructions covered elsewhere in this manual (PMCS, troubleshooting, etc.) are not repeated in this section.

CAUTION:

The NYX-14 is a precision electron-optical instrument, and must be handled carefully at all times to prevent damage to the device's body or mechanisms.

4.4.2 CLEANING PROCEDURES

CAUTION:

The coating on the demist shield can be damaged if the shield is cleaned while wet, or if it is cleaned with wet lens paper. Clean the shield only when it is dry, and only use dry lens paper.

CAUTION:

Thoroughly dry each item before placing them into the storage case.

Clean the NYX-14 as follows:

1. Gently brush off any dirt from the unit's body using a clean, soft cloth.
2. Moisten the cloth with fresh water and gently wipe external surfaces (**except** for glass surfaces).
3. Dry any wet surfaces (**except** for glass surfaces) with another clean, soft, dry cloth.
4. Using a lens brush, carefully remove all loose dirt from the glass surfaces.
5. Slightly dampen a cotton swab with ethanol. Gently and slowly wipe the lenses (including the photoreceiver and the pivotal focusing lens). Without touching the lens holders, clean the glass surfaces in circular movements, beginning in the center and moving out towards the edge. Change the cotton swab after each circular stroke. Repeat until the glass surfaces are clean.
6. Clean the battery contact surfaces and contact springs with a pencil eraser and/ or alcohol-dampened cotton swabs.

Clean optional mounting devices with a soft brush (cloth), soap, and water as required.

Clean optional lenses as detailed in items 4 and 5 above (**except** for the demist shield).

4.4.3 BATTERY REMOVAL AND REPLACEMENT

Refer to Part 3.1.1 for battery installation procedures. No special tools are required to replace the battery.

4.4.4 GOGGLE KIT MAINTENANCE

A. Browpad Replacement

Replace the browpad when cracked, torn, or contaminated. Perform the following to remove and replace the browpads:

1. Firmly grasp the goggle kit and remove the old browpad.
2. Gently press on the new browpad. Gently smooth out any wrinkles in the new browpad.



FIGURE 4-6. BROWPAD REPLACEMENT

B. Chin Strap Reinstallation

1. Detach the Velcro tape from the left side of the head-band and remove the chin strap. Unfasten the chin strap from the strap assembly.
2. Replace the chin strap by joining the sides of the Velcro tape on the left side of the head-band and threading the end of another strap into the corresponding buckle on the right side of the head-band.

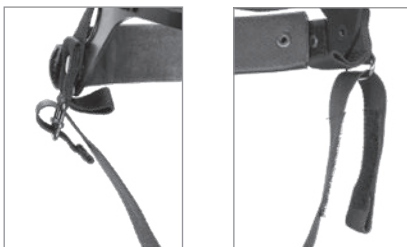


FIGURE 4-7. CHIN STRAP REINSTALLATION

C. Chin Cup Replacement

1. Detach the Velcro tape from the left side of the head-band and remove the chin strap.
2. Slide the chin cup out from the chin strap and replace it with a new one. After replacing the chin cup, attach the Velcro on the left side of the head-band.



FIGURE 4-8. CHIN CUP REPLACEMENT

4.5 SERVICE/PACKING AND UNPACKING

4.5.1 RETURN INSTRUCTIONS

For service, repair or replacements, please email service@armasight.com.

To assist the Service Representative (SR) with determining if the item is repairable, please provide the following information:

1. Serial Number of the defective item.
2. Thorough description of the malfunction, defect or damage.
3. An explanation of how the malfunction, defect or damage occurred, if known.

If the SR determines that the item is under warranty or should be returned for repair, a Return Material Authorization number (RMA#) will be provided. RMA can be obtained via e-mail to service@armasight.com or via phone by calling Armasight Customer Service at (888)959-2259 Ext. 2 or via fax (888)959-2260.

When returning the NYX-14 for service or repair, the following procedures should be followed to prevent any additional damage:

1. Verify that the NYX-14 is free of all contaminants such as dirt or any other foreign material.
2. Remove the battery.
3. Place the cap over the lens.
4. Place the NYX-14 in the hard shipping/ storage case or soft carrying case (if available). If the hard shipping/ storage case is not available, individually package each NYX-14 unit being returned in a suitable container.

Place the NYX-14 and a copy of the test report or detailed description of the failure in a suitable packing/ shipping container. Mark the package with the RMA#. Ship the items using the fastest, most easily traceable, pre-paid method to Armasight Inc., 815 Dubuque Avenue, South San Francisco, CA 94080, USA.

A. NYX-14 LIST OF SPARE PARTS

The parts authorized in this list of spare parts are required for operator maintenance. This list includes parts that must be removed in order to replace authorized parts.

ITEM NO. Column indicates the number used to identify items in Figure A-1.

PART NO. Column indicates the primary number used by the manufacturer to identify an item; this number controls the design and characteristics of the item by means of its engineering, specifications, standards, and inspection requirements.

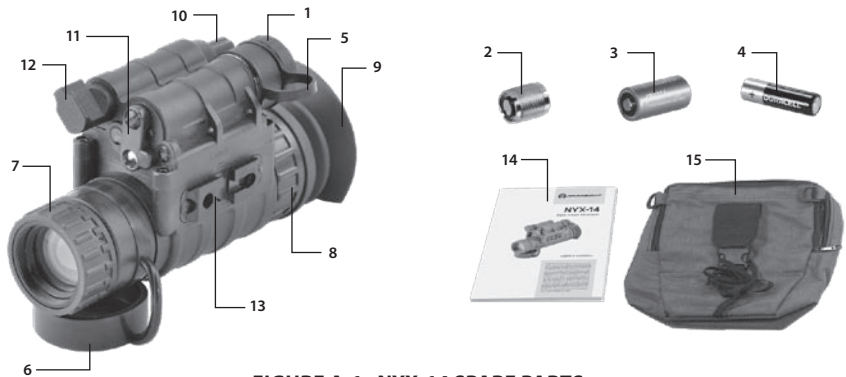


FIGURE A-1. NYX-14 SPARE PARTS

TABLE A-1. NYX-14 LIST OF SPARE PARTS

ITEM NO.	DESCRIPTION	PART NO.
1.	Battery Cap	NYX14BC
2.	Battery Adapter	NYX14BA
3.	CR123A Lithium Battery	-
4.	AA Alkaline Battery	-
5.	Battery Cap Retainer	NYX14BCR
6.	Lens Cap	NYX14LC
7.	Objective Lens Assembly	NYX14OLA

TABLE A-1. CONTINUED

ITEM NO.	DESCRIPTION	PART NO.
8.	Eyepiece Assembly	NYX14EPA
9.	Eyecup Assembly	NYX14ECA
10.	Gain Control Knob	NYX14GCK
11.	Pivotal Focusing Lens	NYX14PFL
12.	Turn-pull Function Switch	NYX14FS
13.	Rail	NYX14PR
14.	Operation and Maintenance Manual	NYX14OUMM
15.	Soft Carry Case	NYX14SCC
16.	Shipping/Storage Case (not shown)	NYX14SSC

B. INTENSIFIER TUBE REPLACEMENT MANUAL

The intensifier tube can be removed or installed without disassembling the unit's wired housing. Removing or installing the intensifier tube only requires the removal of the eyepiece. The airtight seal will be broken, and the final assembly must be purged with nitrogen to eliminate moisture within the monocular.

B.1 INITIAL SETUP

A. Test Facility

Clean station in the electronic repair service area.

B. Tools

None

C. Materials/Parts

Intensifier Tube

Cotton-tipped applicators

Isopropyl alcohol



WARNING:

The intensifier's phosphor screen contains toxic materials!

- If an intensifier tube breaks, be extremely careful to avoid inhaling the phosphor screen material. DO NOT allow the material to come in contact with the mouth, eyes, or open wounds on the skin.
- If the phosphor screen material contacts your skin, wash it off immediately with soap and water.
- If you inhale or swallow any phosphor screen material, drink a lot of water, induce vomiting, and **seek medical attention as soon as possible.**

NOTE:

Before replacing the intensifier tube, confirm that it is out of the warranty period.

B.2 PROCEDURE OF INTENSIFIER TUBE REPLACEMENT

1. Unscrew the eyepiece (E) from the unit body (A).
2. Unscrew the lock ring (D) from the unit body (A).
3. Extract the light guide (C) from the unit body (A).

CAUTION:

Handle the intensifier tube gently to prevent damage.

Treat any supposedly defective tubes as though they are in good condition so they are not damaged when returned to be reused.

Gently remove the intensifier tube from within the wired housing.

Slowly pull the tube out of the housing in a straight line.

If the intensifier tube is not defective, wrap it in lens paper to protect it and store it in a clean, dry location.

4. Extract the intensifier tube (B) from the body of the unit (A).

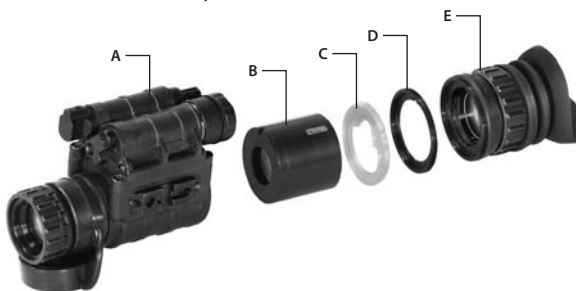


FIGURE B-1. INTENSIFIER TUBE REPLACEMENT

CAUTION:

To avoid damaging the tube, use caution when opening the shipping container.

Treat the defective intensifier tube carefully to avoid damaging it further before returning it.

Only set the intensifier tube down on its contact end.

DO NOT force the intensifier tube into the wired housing of the device.

NOTE:

Retain packaging material for use in returning defective intensifier tubes.

5. Clean both ends of the new intensifier tube with cotton-tipped applicators dampened with isopropyl alcohol.
6. Slide the intensifier tube, contact-end first, into the opening of the wired housing. The groove on the side of the tube should engage the ridge inside the opening of the wired housing.
7. Slide the light guide (C) into place within the body of the unit (A).
8. Screw the lock ring (D) into the body of the unit (A).
9. Screw the eyepiece (E) into the body of the unit (A).

C. PRODUCT WARRANTY REGISTRATION CARD

In order to validate the warranty on your product, Armasight must receive a completed Product Warranty Registration Card for each unit, or the user must complete warranty registration on our website (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,
USA.

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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 **WARNING!**

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.

www.armasight.com