

UNS LR A2 Universal Night Sight, Long Range A2



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SAFETY SUMMARY

GENERAL SAFETY INSTRUCTIONS

This manual describes processes that may cause injury or death to personnel, or damage to equipment if not properly followed. This safety summary includes general safety precautions and instructions that must be understood and applied during operation and maintenance to ensure personnel safety and protection of equipment. Prior to performing any task, the WARNINGS, CAUTIONS, and NOTES included in that task shall be reviewed and understood.

WARNINGS, CAUTIONS, AND NOTES

WARNINGS and CAUTIONS are used in this manual to highlight operating or maintenance procedures, practices, conditions or statements that are considered essential to protection of personnel (WARNING) or equipment (CAUTION). WARNINGS and CAUTIONS immediately precede the step or procedure to which they apply. NOTES are used in this manual to highlight operating or maintenance procedures, practices, conditions or statements that are not essential to protection of personnel or equipment. NOTES may precede or follow the step or procedures depending upon the information to be highlighted. The headings used and their definitions are as follows: Warning, Caution, and Note.



WARNING



Highlights an essential operating or maintenance procedure, practice, condition, statement, etc., which, if not strictly observed, could result in injury to or death of personnel or long-term health hazards.



CAUTION



Highlights an essential operating or maintenance procedure, practice, condition, statement, etc., which, if not strictly observed, could result in damage to, or destruction of equipment or loss of mission effectiveness.



NOTE: Highlights an essential operating or maintenance procedure, condition or



GENERAL SAFETY PRECAUTIONS

The following safety precautions of a general nature shall be observed while operating the equipment or performing the procedures in this manual.



All batteries should be inspected for bulging prior to use. If a battery shows signs of bulging, corrosion or leakage, do not use. Batteries should be handled in the following manner.

- · Do not dispose of in fire.
- Do not short circuit, puncture, or disassemble.
- Return for disposal in accordance with proper disposal instructions.



WARNING



To avoid physical injury and equipment damage when using the UNS LR A2 during operations, carefully read and understand the following precautions:

- The equipment requires some night light (moonlight, starlight, sky glow, etc.) to operate.
 The level of performance depends upon the level of light.
- Night light is reduced by passing cloud cover or while operating under trees, in building shadows, etc.
- The equipment is less effective when viewing into shadows and other darkened areas.
- The equipment has degraded function through rain, fog, sleet, snow or smoke.



CAUTION



The UNS LR A2 is a precision electro-optical instrument and must be handled with care at all times. Read and understand this entire manual before attempting to turn on or operate.

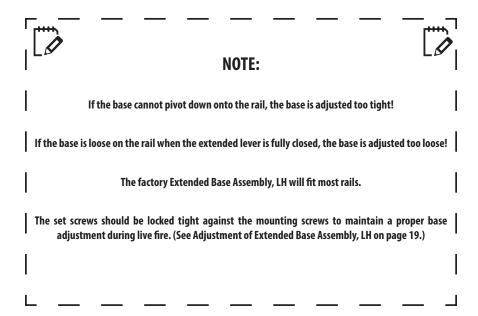
Do not remove the front lens cover in bright light. Exposure of the image intensifier tube in the UNS LR A2 to bright light for long durations may cause damage.

Do not store the UNS LR A2 with the batteries installed. Damage can occur from corroded, leaking or improperly stored batteries.

Using the UNS LR A2 under high light conditions can damage the Image Intensifier Assembly, which permanently lowers performance.

Do not point the UNS LR A2 at bright lights without the lens cover in place. Remove the lens cover when preparing to use. The unit cannot be used with the lens cover on the objective lens or eyepiece.

Rinse optical surfaces with clean water to remove dirt before wiping with lens tissue. Wiping extremely dirty or sandy optical surfaces could scratch the optical surfaces and permanently damage the lenses.



1. INTRODUCTION

1.1 General

This manual provides descriptive information, operating instructions and maintenance procedures for the UNS LR A2. The high performance uni-power (1X) night vision device allows night operation of any weapon system equipped with a MIL-STD-1913 rail. Mounting options are available for weapons that are not equipped with a MIL-STD 1913 rail in front on the day optic which will provide adequate space for mounting the UNS LR A2. Any weapon equipped with a Knight's Armament Company Rail Adapter System (RAS) will accommodate the UNS LR A2.

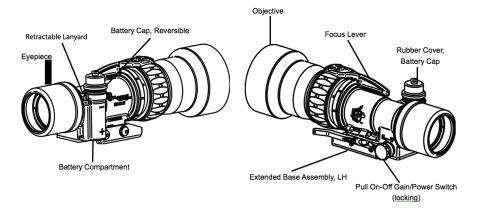
The UNS LR A2 primary use is intended to be in conjunction with day optics mounted to weapons as the primary sighting system. The UNS LR A2 can be mounted forward of the day optic without any adverse effect on the weapon's Point of Aim or Point of Impact. Verify after adjustments of Extended Base and prior to mission.

The UNS LR A2 does not require any zeroing procedure when installed in front of a day optic. However, the following steps should be taken to ensure optimum picture quality. The controls on the UNS LR A2 are focus and gain. The day optic, if equipped with a parallax or focus adjustment, should be adjusted to near infinity and parallax free. This allows the day optic to be focused clearly on the back of the image intensifier tube. The focus on the UNS LR A2 will then be used to adjust the focus of the sight picture.

1.2 UNS SR SYSTEM DESCRIPTION

SIZE	APPROXIMATELY 3 INCHES O.D. AND 9.625 INCHES IN LENGTH
WEIGHT	3.1 LBS WITH ONE AA BATTERY AND LENS COVER
MAGNIFICATION	1X UNITY SIGHT
FINISH	MATTE FINISH, CORROSION RESISTANT, BLACK
CONTROLS	PULL ON/OFF AND GAIN CONTROL SWITCH, FOCUS RING
POWER	ONE AA SIZE BATTERY OR ONE DL123 BATTERY
MOUNT	QUICK ATTACH/DETACH AND FITS THE MIL-STD-1913 RAIL CONFIGURATION
IMAGE INTENSIFIER TUBE	ITT EXELIS GEN 3 PINNACLE (GATED TUBE) 64 LP/MM MINIMUM TUBE RESOLUTION (EXPORTABLE MODEL AVAILABLE)
EFFECTIVE FOCAL LENGTH (OBJ)	120 MM TELEPHOTO
OBJECTIVE FOCUS CONTINUITY	CONTINUALLY ADJUSTABLE FROM APPROXIMATELY 15 METERS TO INFINITY VIA MANUAL CONTROL
BORE SIGHT	FACTORY BORE SIGHT TO WITHIN 1 MOA OF ALIGNMENT TO DAY SCOPE POINT OF IMPACT
BORE SIGHT RETENTION	MAINTAINED WITHIN .5 MOA OVER A 300 ROUND, 300 WIN MAG FIRING SCHEDULE
DISPLAY BRIGHTNESS	VARIABLE DISPLAY BRIGHTNESS ALLOWS VIEWING FROM 105 LUX (BRIGHT SUNSHINE) TO 10-4 LUX (TOTAL DARKNESS) WITHOUT INHIBITING USER'S DARKADAPTED VISION.

UNS LR A2 System



1.3 Capabilities

The UNS LR A2 provides high performance night augmentation to weapons systems with existing day scopes. It can also be used on Crew Served Weapons as a primary uni-power (1X) night vision device.

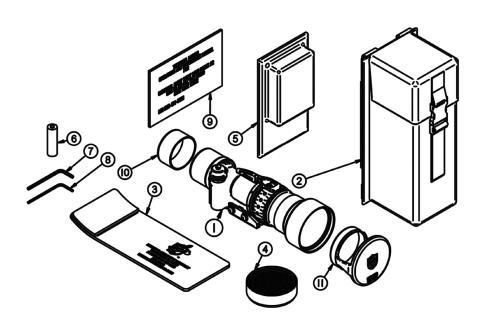
1.4 Performance Characteristics

SYSTEM RESOLUTION	4.8 LP/MM MINIMUM USING 100% CONTRAST USAF RESOLUTION CHART
FOCUS RANGE	15M TO INFINITY ADJUSTMENT RANGE
IMAGE INTENSIFIER TUBE	ITT EXELIS GEN 3 PINNACLE (GATED TUBE) 64 LP/MM MINIMUM TUBE RESOLU-
	TION (EXPORTABLE MODEL AVAILABLE)
GAIN CONTROL	ON/OFF AND GAIN CONTROL IN A SINGLE KNOB
OBJECTIVE LENS	TELEPHOTO 120 MM
EXIT PUPIL	COLLIMATED
BORE SIGHT DEVIATION	LESS THAN .5 MOA
BORE SIGHT REPEATABILITY	LESS THAN .5 MOA
ENVIRONMENTAL	MIL-STD-810G USED AS GUIDELINE, TEMPERATURE RANGES, SALTWATER RESISTANCE, IMMERSION TO 3 FEET SALTWATER PRESSURE
FINISH	MATTE BLACK, CORROSION/SALTWATER RESISTANT
DIMENSIONS	9.625" X 3.0"
MOUNTING OPTIONS	ANY MIL-STD-1913 RAIL WITH ADEQUATE ROOM AND CLEARANCE FORWARD OF THE DAY OPTIC

1.5 ITEMS FURNISHED

ITEM	PART NO.	DESCRIPTION	QTY
1	SEE TABLE	UNS LR A2	1
2	26187	POUCH, SCOPE, GEN III, MOLLE	1
3	26188	SHROUD, WRAP, BLK	1
4	26354	ANTI-REFLECTION (ARD) ASSY, LR (OPTIONAL)	1
5	26572	LENS CLEANING KIT	1
6	20299	AA BATTERY	1
7	23228	1/8" HEX KEY WRENCH	1
8	23229	3/32" HEX KEY WRENCH	1
9	NVD- UM-0001	TECHNICAL MANUAL, UNS LR A2	1
10	26546	RUBBER CAP UNS, LR, LP SHROUD	1
11	26227	RUBBER LENS COVER, LRLP	1

UNS LR A2 SCOPE W ACCESSORIES 27321			
SCOPE W ACCESSORIES	BOM ITEM	SCOPE	
27321	1	27320	
27321E	1	27320E	
27321E3	1	27320E3	



1.6 Equipment Required But Not SuppliedThe UNS LR A2 is equipped to fit on any weapon with a MIL-STD-1913 rail forward of the day optic. In some cases, additional mounting rails must be fitted to the weapon to allow UNS LR A2 optics mounting.

1.7 Shipping, Handling and StorageThe UNS LR A2 is a precision electro-optical device and must be handled with care at all times. The UNS LR A2 should normally be transported and stored in the soft pouch carry case that is provided in the kit or can be purchased separately.

1.8 Warranty

LIMITED COMMERCIAL WARRANTY

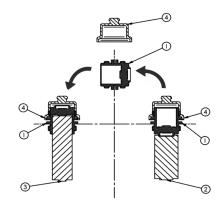
Knight's Armament Company (KAC) warranties the part number 27320 UNS LR A2 "Knightscope™" against defects due to substandard parts or workmanship for a period of 12 months from date of acceptance (or as stated in Contract). Failed units must be returned to KAC for warranty repairs. If KAC determines, after incoming inspection, that the unit has failed due to misuse or abuse, warranty provisions will not apply. At the customer's request KAC will generate and provide a repair estimate. KAC is not liable for any and all direct or consequential damages that may arise from the misuse or misapplication of this product.

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2. PREPARATION FOR USE AND INSTALLATION 2.1 PREPARATION FOR USE

Unpack the UNS LR A2 from the soft pouch. Install the battery.

ITEM	DESCRIPTION	QTY
1	BATTER CAP, REVERSIBLE, UNS	1
2	LITHIUM BATTERY	1
3	AA BATTERY	1
4	RUBBER COVER, BATTERY CAP	1

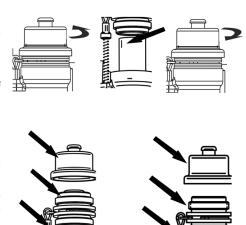




NOTE: The rubber cover for the battery cap can remain on when changing the same type batteries. Only remove the rubber cover for the battery cap when switching battery types.

2.1.1 Battery Installation

- 1. Clear away any debris (dirt, sand, etc.).
- 2. Unscrew cap counterclockwise to remove battery cap.
- 3. Replace battery positive contact down. Use extreme care to keep debris out of the battery compartment and battery cap threads.
- 4. Screw cap clockwise back on.
- 5. To switch battery types (AA or Lithium DL 123), remove the rubber cap cover and turn the reversible battery cap over. The cap is recessed on one side to allow space for the longer AA battery.
- 6. The attached lanyard will keep the cap from getting lost. Pull up on lanyard to extend length.



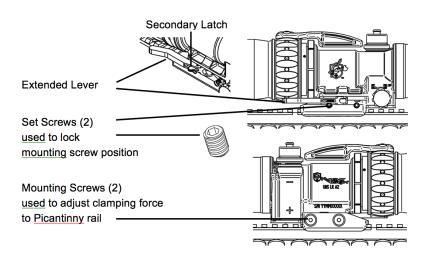
DL 123

Lithium Battery

2.1.2 Adjustment of Extended Base Assembly, LH

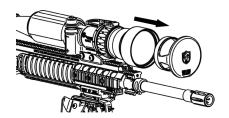
NOTE: The sight should fit all MIL-STD-1913 rails that are within the manufacturing tolerances when the base is adjusted properly.

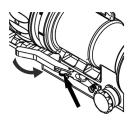




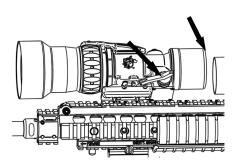
2.2 Installation/Mounting

- 1. Orient the UNS LR A2 so the large objective lens points downrange.
- 2. Locate the extended lever on the left side of the UNS LR A2 Extended Base Assembly and the secondary latch that protrudes through it.





- 3. To release (open) the extended lever, push the secondary latch forward with your thumb and pull the extended lever to the rear of the scope.
- 4. Locate an installation position where the objective clears any close object, including the rail. (See next page.) Ensure the flat edge of the Rubber Lens Cover, LRLP is on the bottom of the objective. The eyepiece should be near the day scope but without the possibility of contacting it.





CAUTION

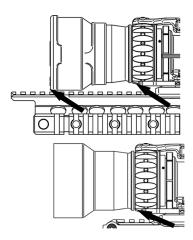


Possible lens breakage and failure of mission can occur if the UNS LR A2 objective (front) lens makes contact with the flip-up sight during firing or if the eyepiece impacts the day scope.

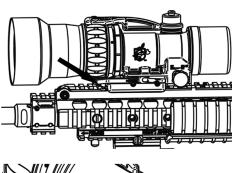
Position of the objective Rubber Lens Cover, LRLP so the flat edge is on the bottom if the UNS LR A2 is positioned above a rail.

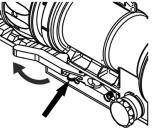
Properly align sight in relation to the flip-up sight on the weapon.

Do not mount the sight in a position that makes it contact with a flip-up sight or any object.



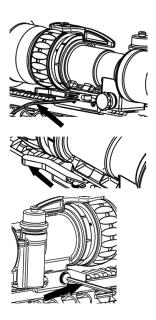
- 5. Place your UNS LR A2 onto the Picantinny rail and note the location on the rail for easy re-installation after adjustment.
- 6. To attach the UNS LR A2 securely to the Picantinny rail, rotate the extended lever completely forward. The installation is complete when the extended lever is closed tightly and has securely engaged the secondary latch. Adjustment may be required.
- 7. Verify your UNS LR A2 is securely mounted onto the Picantinny rail. If the fit of the base to the rail is loose or too tight, adjust the base as necessary. See adjust base steps starting on the next page.



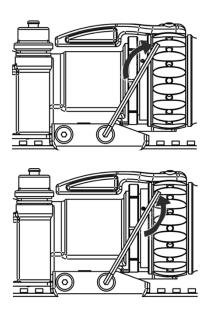


2.2.1 Adjust Base

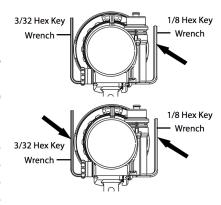
- 1. For proper base adjustment, loosen both of the two set screws at least two complete turns counterclockwise using the 3/32 hex key wrench.
- 2. Position the extended lever in the locked (forward) position.
- 3. Using the 1/8 hex key wrench, loosen or tighten the mounting screws as needed.
- 4. You should now be able to place the sight on the rail.



- 5. Using the long end of the 1/8 hex key wrench, tighten (until movement stops, but not to exceed 10 inch-pounds) the two mounting screws clockwise using the same amount of pressure on each one. This will ensure the clamp is seated evenly along the rail.
- 6. Back off (counterclockwise) each mounting screw slightly, but less than ¼ turn.



- 7. Hold the 1/8 hex key wrench in the mounting screw. This will keep the mounting screw from moving.
- 8. While holding the 1/8 hex key wrench in the mounting screw, use the 3/32 hex key wrench and screw the set screw clockwise very tight into the mounting screw to prevent movement.
- 9. When properly adjusted, the UNS LR A2 can be removed and/or installed by only operating the extended lever and secondary latch. Repeat the Adjust Base Steps as necessary to achieve a secure and tight fit on the Picatinny rail. Test fire to check for adjustment and point-of-impact shift.





NOTE: The set screw should be locked tight against the mounting screw to maintain a proper base adjustment during live fire.



3. PRINCIPLES OF OPERATION

3.1 General

The UNS LR A2 is constructed of a system of lenses combined with an image intensifier tube. This produces a light intensified image of the viewed scene. This chapter describes the optical and electri- cal principles of operation, which allow the UNS LR A2 to perform this function.

3.2 Optical Principle of Operation

The UNS LR A2 is a single channel electro-optical device providing a system magnification of 1X. The sight is comprised of three basic components: the objective lens assembly, the image intensifier tube, and the eyepiece lens assembly. The objective lens assembly collects available light from the scene being viewed and focuses it onto the front surface of the image intensifier tube. The image tube amplifies the light; it is then viewed by the eyepiece assembly. The interior of the sight is sealed in a nitrogen atmosphere to keep moisture out and prevent condensation on the lenses and the image tube assembly.



CAUTION



Do not remove the front lens cover in bright light. Exposure of the image intensifier tube in the UNS LR A2 to bright light for long durations may cause permanent damage.

3.3 Electrical Principle of Operation

5.2.1 Gain/Power Switch

The entire system is powered by one AA or one Lithium DL123 battery that will provide over 36 hours of continuous use. If the display starts to blink, then change the battery. One switch controls the on/off function as well as the variable gain setting.



WARNING



Do not store batteries in the sight for more than 24 hours. All batteries should be inspected for bulging, corrosion and leakage before use. Do not use if a battery shows signs of bulging, corrosion or leaking.

Batteries should be handled in the following manner.

- · Do not dispose of in fire.
- Do not short circuit, puncture, or disassemble.
- Return for disposal in accordance with proper disposal instructions.



CAUTION



Do not point the UNS LR A2 at bright lights without the lens cover in place. Remove the lens cover when preparing to use. The unit cannot be used with the lens cover on the objective lens.

4. OPERATING INSTRUCTIONS

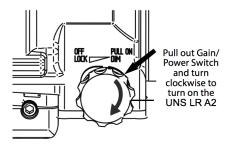
4.1 Basic Operation

To operate the UNS LR A2, simply turn the unit on by pulling out and rotating the Gain/Power Switch clockwise toward the buttstock.

When the UNS LR A2 is initially turned on, it is at the brightest gain. Turning the knob further clock- wise makes the image darker.

To make the image brighter, turn the knob counterclockwise. Utilize the gain switch to obtain the maximum contrast, which is very instrumental in the target acquisition phase of deploying the UNS LR A2.

To shut down the system, turn the Gain/Power Switch counterclockwise to the stop. A tactile click can be felt when turning the system on or off.









Gain/Power Switch turned off

4.1.1 Handling Instructions

The UNS LR A2 is a precision optical instrument and must be handled with care. It is designed to handle extreme weapon shock through the mounting rails only. Dropping the unit will expose it to shock loads in axis not intended, and can result in damage to the unit. Dropping the unit on hard surfaces can also result in damage to lens, protective coatings and controls.

Avoid touching the optical surface. The oils from human fingerprints can cause a long-term damaging effect to the lens and their coatings.

The unit is designed to sustain its seal in 3 feet of salt water. Avoid submerging the unit in more than 3 feet of water for long periods. Units can be certified to 66 feet (optional).

Do not attempt to make any adjustments other than those described in this manual. Focus and gain controls are well explained. Adjustment of the Extended Base Assembly, LH to accommodate mounting rails is explained. All other adjustments are made at the factory and can only be evaluated and adjusted at the factory.

4.1.2 Storage

If this unit will be stored and not operated for longer than 24 hours, the batteries should be removed to minimize the possibility of damage from defective or corroded batteries.

4.2 Controls

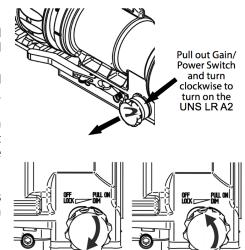
4.2.1 Gain/Power Switch

These cleaning processes should be followed after every use to ensure the unit is cleaned and lubricated before storage.

The pull on-off Gain/Power Switch is located on the left side, lower middle of the UNS LR A2.

Pull out the switch then turn the switch clockwise to turn on the unit. The further it is turned clock- wise, the darker the image appears.

Turning the switch counterclockwise brightens the image. At the end of the rotation you can feel it click back into the off position.



Turn counterclockwise

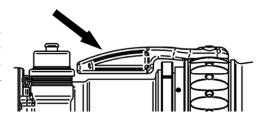
to brighten image

Turn clockwise

to darken image

4.2.2 Focus Lever

The Focus Lever is located on the objective housing and extends over the top of the main body. The focus can be adjusted to allow viewing of objects at distances from 15 meters to infinity. Clockwise movement will result in infinity focus, while counterclockwise rotation will result in near focus.





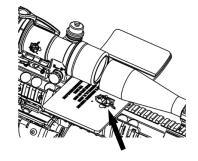
NOTE: The focus lever can be repositioned to any convenient pair of tapped holes in the focus ring using a 3/32" hex key wrench to remove and relocate the lever arm and two 8-32" button head cap screws.

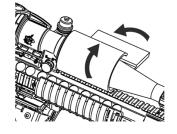
4.3 Shroud Wrap Coupler

The shroud wrap coupler (Shroud, Wrap, BLK) is a neoprene wrap that wraps tightly on the rear lens of the UNS LR A2 and the objective lens of the day scope.

The shroud wrap coupler fills the gap between the optical scopes and eliminates the stray light which reflects onto or out from the system when the UNS LR A2 is powered on.

Lay the shroud wrap coupler open under the gap (between the day scope and the UNS LR A2) with the logo facing up. Wrap the non-Velcro® side around first. Then wrap the Velcro® end around tightly for a snug closure.







WARNING



To avoid physical and equipment damage when using the UNS LR A2 during night operations, carefully read and understand the following precautions:

- The equipment requires some night light (moonlight, starlight, sky glow, etc.) to operate. The level of performance depends upon the level of light.
- Night light is reduced by passing cloud cover or while operating under trees, in building shadows, etc.
- The equipment is less effective when viewing into shadows and other darkened areas.
- The equipment has degraded function through rain, fog sleet, snow or smoke.

4.4 Operation Under Adverse Conditions

The following paragraph describes the operation of the UNS LR A2 in dusty, sandy, humid and saltwater conditions. Keep the unit in its protective soft carrying case whenever possible.

4.4.1 Operation In Dusty or Sandy Conditions

Operating the UNS LR A2 in these conditions can cause scratching and pitting of optical elements. If a mission requires the UNS LR A2 be used in these conditions, the unit should be cleaned per the manual as soon as the conditions subside.

4.4.2 Operation in Rainy or Humid Conditions

Operation in these conditions can lead to corrosion and deterioration of performance. If a mission requires the UNS LR A2 to be used in these conditions, the unit should be dried thoroughly before storage, and the unit should not be stored wet or in a wet soft carrying case (pouch).

4.4.3 Operation in Saltwater Areas

If the UNS LR A2 is exposed to salt water, the unit should be rinsed in fresh water as soon as possible.

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5. MAINTENANCE AND SERVICING INSTRUCTIONS

5.1 Cleaning and Lubrication Instructions

These cleaning processes should be followed after every use to ensure the unit is cleaned and lubricated before storage.

5.1.1 Non-optical Surfaces

These areas can be cleaned with water and a mild detergent as needed.



CAUTION



Rinse optical surfaces with clean water to remove dirt before wiping with lens tissue. Wiping extremely dirty or sandy optical surfaces could scratch the optical surfaces and damage the lenses.

5.1.2 Optical Surfaces

The optical surfaces should be cleaned when visibly dirty. Blow on the lens to remove sand and dust particles from the surface before cleaning. The optical surfaces can be cleaned with a soft cloth or the cleaning tissues that are provided.

5.1.3 Lubrication

Moving parts of the Extended Base Assembly, LH can be lubricated using Break-Free® CLP or another similar oil.

5.2 Troubleshooting

If the sight fails to function after the unit has been installed properly on the rail, the following actions should be taken to correct the problem:

- A. Remove front lens cover.
- B. Replace the battery.
- C. Verify that the battery is installed in the proper orientation with the positive (+) down and negative
 - (-) up. (See page 18.)
- D. Check the unit for obvious damage.

5.3 Preparation for Shipment

The unit should be packed in the soft carrying case (pouch) with batteries removed, and then securely packaged in a cardboard box with packing material. The box should be marked "FRAGILE" before shipping.

6. SPARE PARTS LIST

NVD-UM-0001 - Technical Manual, UNS LR A2

23228 - 1/8" Hex Key Wrench

23229 – 3/32" Hex Key Wrench

26187 - Pouch, Scope, Gen III, MOLLE

26188 - Shroud Wrap, Coupler, BLK

26227 - Rubber Lens Cover, LRLP

26354 – Anti-Reflection (ARD) Assy, LR (Optional)

26546 - Rubber Cap UNS, LR, LP Shroud

26572 - Lens Cleaning Kit

26847 — Focus Lever, UNS LR A2, Spares

27299 - Extended Base Assembly, LH

27337-BLK — Retractable Lanyard Assy, Spares

NOTES



RESTRICTED EXPORT. The item(s) are firearm or defense related goods governed by U.S. Government International Traffic in Arms Regulations 22 CFR, ITAR Parts 120-130 and therefore require an Export License issued by the U.S. Department of State to be subsequently transported outside of the United States. These items may not be transferred, transhipped on a non-continuous voyage, or otherwise be disposed of in any other country, either in their original form or after being incorporated into other end items. The International Traffic in Arms Regulations (ITAR) is a set of United States government regulations that control the export of defense-related articles and services on the United States Munitions List. These regulations implement the provisions of the Arms Export Control Act, and are described in Title 22 (Foreign Relations), Chapter (Department of State), Sub chapter M of the Code of Federal Regulations.