



# FOXBAT 5

NIGHT VISION BI-OCULAR

USER MANUAL

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# LIST OF CONTENTS

TITLE	PAGE
Safety Summary	4
<b>1. GENERAL INFORMATION</b>	<b>6</b>
1.1 System Description	6
1.2 Key Features	6
1.3 Operation Principles	7
1.4 System Components	8
<b>2. OPERATING INSTRUCTIONS</b>	<b>10</b>
2.1. Installation Procedures	10
2.2 Operating Procedures	13
<b>3. MAINTENANCE INSTRUCTIONS</b>	<b>17</b>
3.1 Cleaning Procedures	17
3.2 Troubleshooting	17
<b>4. WARRANTY INFORMATION</b>	<b>19</b>
4.1 Warranty Information and Registration	19
<b>5. SPECIFICATIONS</b>	<b>21</b>
5.1 Specifications	21
<b>APPENDIX</b>	<b>23</b>
A. Spare Parts List	23

## SAFETY SUMMARY

- Read and follow all instructions
- Read all warnings
- Only use the attachments/accessories specified by the manufacturer
- All service must be provided by the manufacturer

### **WARNING:**

**This product contains natural rubber latex, which may cause potentially fatal allergic reactions! If you are allergic to latex, it is important that you strictly avoid exposure to products that contain it.**

### **WARNINGS:**

**The intensifier's phosphor screen contains toxic materials.**

Please note:

- 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.

### **WARNINGS:**

- When used in total darkness, the light from the unit's infrared (IR) illuminator is invisible to the naked eye. **However, the light can be detected by other Night Vision Devices (NVD).**
- To reduce the risk of detection by another NVD, avoid prolonged use of the IR illuminator.
- Do not use contaminated eyecups. If contaminated, they must be replaced.
- Light from the IR illuminator is more easily detected by other NVDs when used in fog, smoke, and rain. Avoid prolonged use of the IR illuminator in these conditions.

## **CAUTIONS:**

FoxBat 5 night vision bi-ocular is precision electro-optical instruments and require careful handling. Please follow the below instructions of safe use:

- Do not disassemble the unit.
- Keep the unit clean; protect it from moisture, sudden temperature drops and shocks.
- Be careful not to touch the glass surfaces. If you leave fingerprints on, or contaminate the glass surfaces, use only clean and soft materials to clean it.
- Protect the unit from excessive lighting. Do not turn the bi-ocular on in daylight with the front lens cap off. Do not point the bi-ocular at the bright light source (a fire, car headlights, lanterns, street lamps, room lights, etc.).
- Do not test the device in daylight conditions even with the daylight filter/lens cap on for more than ten (10) minutes.
- Do not leave the unit in on position during stops in operation.
- Remove the battery from the unit when it is planned to store for over 3 days. Failure to do so may damage the unit.

## **EQUIPMENT LIMITATIONS**

To avoid injuries and equipment damage from using the FoxBat, carefully read and consider the following equipment limitations.

- The equipment requires some night light (moonlight, starlight, etc.) to operate. The level of equipment performance depends upon the level of light.
- Night light reduces by passing through the clouds, while operating under trees, under the shadows of houses, etc.
- The device results less effective in peering into shadows and other darkened areas.
- The device results less effective in viewing through rain, fog, sleet, snow or smoke.
- The equipment will not “see” through the dense smoke.
- Its protective system, cuts off the image intensifier when ambient light level continues exceeding of 40 lux for the following 10 seconds.
- Under starlight conditions low contrast environments (such as snow-covered territory, sandy deserts, large bodies of water or grassy hills) degrade visibility thereby disguising or masking changes in terrain.
- Under too low-light conditions the bi-ocular loses some of the resolution that it has under full moon.

# 1 GENERAL INFORMATION

## 1.1 SYSTEM DESCRIPTION

The FoxBat 5 night vision bi-ocular is the perfect tool for mid-range and long-range observation. The FoxBat 5 combines a single high quality image intensifier tube with a dualized optical axis and double eyepiece, making it applicable for long viewing sessions. The FoxBat 5 is packed with features, such as digital controls and a proximity sensor for automatic shut off in varying light conditions. This night vision bi-ocular is the ideal choice for security and recreational use.

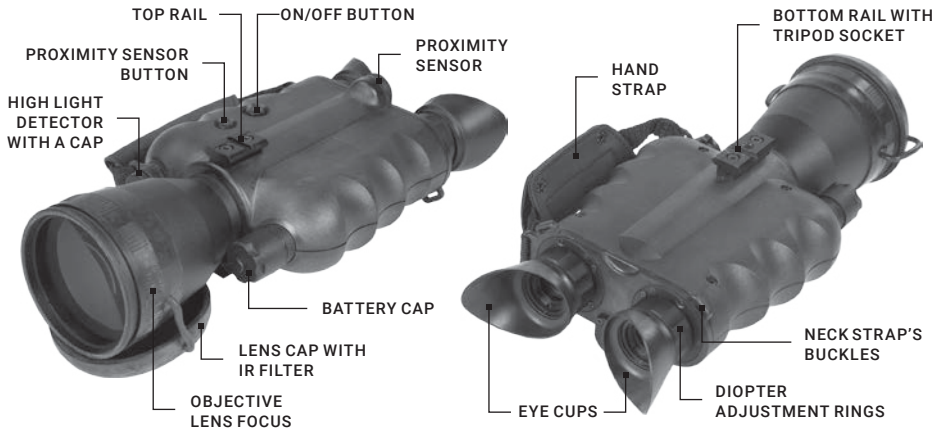


FIGURE 1-1. FOXBAT 5 MAIN PARTS AND CONTROLS

## 1.2 KEY FEATURES

- 5X magnification
- Super-fast, multi-coated, all-glass optics
- Dual eye viewing system for long viewing sessions
- Detachable long-range infrared illuminator
- Rugged and versatile design
- Water and fog resistance
- Tripod mountable
- Hand strap and neck strap for comfort of use
- Limited 3-year warranty

## 1.3 OPERATION PRINCIPLES

### 1.3.1 MECHANICAL FUNCTIONS

The FoxBat 5 includes mechanical adjustments to accommodate physical differences between individual users. Functional features include the operation buttons, diopter adjustment, and objective lens focus.

### 1.3.2 OPTICAL FUNCTIONS

The optical functions include an objective lens, image intensifier, a collimator lens, and two eyepieces. The objective lens collects light reflected from the moon, stars, or other ambient light in the environment, and inverts and focuses an image of the scene onto the image intensifier. The image intensifier converts the captured light into a visible image, re-inverting it so that can be viewed through eyepiece lens.

### 1.3.3 ELECTRICAL FUNCTIONS

**A. Power Source.** The electronic circuit is powered by replaceable batteries; you have the option of using either a 3.0 Volt Lithium battery (CR123A) or AA 1.5 Volt Alkaline battery. The Sioux850 detachable long-range infrared (IR) illuminator is powered by a separate 18650 rechargeable battery.

**B. Power Button.** Power from the batteries is supplied to the components once the power button is pressed. Pressing the button again turns off the power. When the voltage drops, a low battery indicator will begin to blink in the field of view, indicating approximately 30 minutes of remaining power.

**C. Bright Light Cutoff.** The bi-ocular will automatically shut off after 10 seconds of operation in daylight or bright room light. To turn the bi-ocular back on in the event that this function is triggered, press the power button again.

#### **CAUTION:**

**The system works only when the cap not covering the high light detector.**

**C. Proximity Sensor.** On-board control systems identify the user's intention of look through the bi-ocular. When the bi-ocular is brought to the user's eyes, the bi-ocular will automatically turn on. When removed from the eyes the bi-ocular will turn off (you must engage the proximity sensor for this feature to work).

**D. Automatic Shutoff.** Bi-ocular will turn off automatically when it is unused (controls are not touched) for 60 minutes. This function preserves battery life should the device be inadvertently activated.

**E. LED Indicators in the FOV.** Color indicators in the field of view (FOV) let you know the mode of operation you are using.

- Proximity Sensor Indicator - when the sensor is ON, the indicator in the FOV will light red.
- High Light Protective System Indicator - if the level of light exposure exceeds what is allowable, the indicator light will be green. The indicator will have an orange color when the Proximity Sensor mode is on.
- Low Battery Indicator - when the battery is low the red indicator in the FOV starts blinking.

## 1.4 SYSTEM COMPONENTS

**A. FoxBat 5 Bi-Ocular Assembly.** The bi-ocular assembly consists of four primary subassemblies: (1) a simple objective lens with a cap; (2) a wired housing assembly; (3) an image intensifier tube (IIT) assembly (not shown); and (4) two eyepiece assemblies. The wired housing assembly contains a built-in battery compartment, attached battery cap, proximity sensor, high light detector with a cap, and the operation buttons.

**B. Sioux850 Long-Range Infrared Illuminator.** The AGM Sioux850 extra long-range infrared illuminator provides advanced image-intensified viewing capabilities to night vision devices, and is ideally suited for operations in little to no ambient light. The Sioux850 model comes equipped with a rechargeable battery and charger.

**C. Carrying Case.** The canvas carrying case is provided for the transportation, protection, and storage of the FoxBat 5, Sioux IR, and accessories. A carrying case strap is also included.

**D. Hand Strap.** Helps to hold the bi-ocular securely without having to grip the unit too tightly. This provides greater comfort and security for the user during operation.

**E. Neck Strap.** A strap that allows the user to hang the bi-ocular comfortably around the neck during breaks in observation sessions.

**F. Optional Tripod with a Grip.** Lightweight and compact tripod used to produce a stable image for long range observation or photo shoot with long exposures.

**G. Optional Hard Case.** Optional hard case can be used for shipping and storage of bi-ocular and accessories.

The FoxBat 5 components shown in Figure 1-2 and listed in Table 1-1.

The ITEM NO. column indicates the number used to identify items in Figure 1-2.

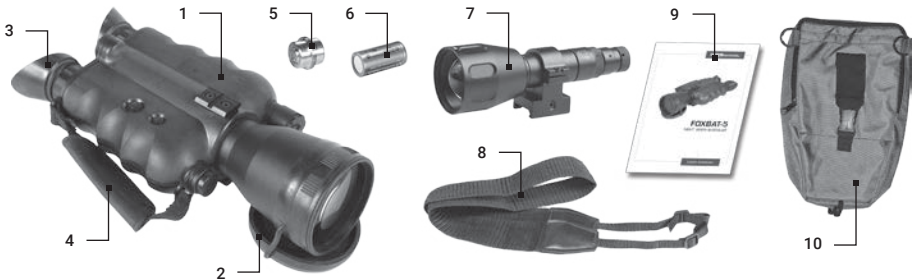


FIGURE 1-2. FOXBAT COMPONENTS



**TABLE 1-1. FOXBAT 5 COMPONENTS**

ITEM	DESCRIPTION
1	AGM FoxBat 5 Night Vision Bi-Ocular
2	Lens Cap
3	Eyecup (2 pcs.)
4	Hand Strap
5	Battery Adapter
6	Battery
7	Sioux850 Long-Range Infrared Illuminator
8	Neck Strap
9	User Manual
10	Carrying Case
11	Optional Tripod with a Grip (P/N 6606TTR1)
12	Optional Hard Case (P/N 6610HCS1)

## 2 OPERATING INSTRUCTIONS

### 2.1. INSTALLATION PROCEDURES

#### 2.1.1 BATTERY INSTALLATION

A. Install CR123A battery as follows:

With the battery adapter screwed in the battery cap as shown on Figure 2-1 you can use one CR123A type battery. Install the CR123A battery, observing the polarity indications on the battery compartment surface.

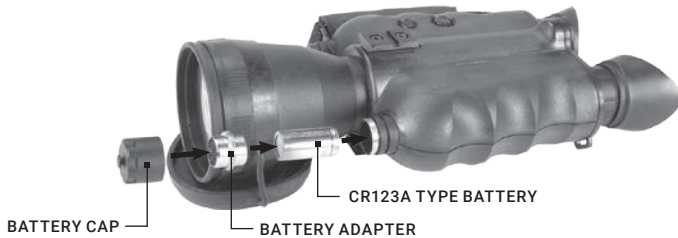


FIGURE 2-1. CR123A TYPE BATTERY INSTALLATION

B. Install AA standard battery as follows:

To install the AA battery, take the battery adapter out of the battery cap, turn it over, and screw its smaller threading into the same battery cap. Now you can put the AA battery in, observing the polarity indications on the battery compartment surface.

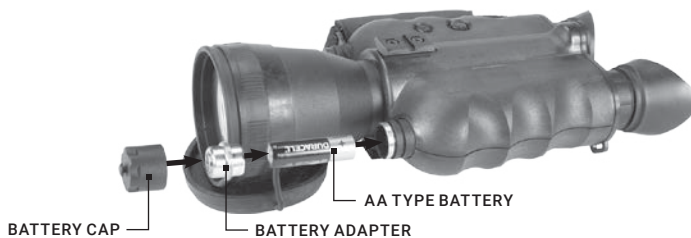


FIGURE 2-2. AA TYPE BATTERY INSTALLATION

Before using the Sioux 850 illuminator, fully charge the 18650 rechargeable battery. Insert the battery into the charger, aligning the polarity symbols on the battery with the polarity symbols on the charger. Never install the battery backwards.

Connect the power cord to an appropriate power source. A red indicator light will flash while the battery is charging and will turn green when it is fully charged. Remove the battery promptly after charging is complete.

**CAUTION:**

- Use only the supplied battery. Do not install any other types.
- Keep the Lithium batteries far away from open flame, extreme heat, or combustible materials. If handled or recharged incorrectly, Lithium ion batteries can cause fires, explosions, property damage, injuries, and death.
- Keep the batteries and charger far away from water or liquids of any kind. Exposure to water may cause shock hazards and fatal electrocution.
- Do not leave Lithium rechargeable batteries and chargers unattended while recharging.
- Do not operate the charger on wood, carpet, fabric, or any other soft or flammable surfaces.
- Do not attempt to recharge disposable Lithium batteries. Do not use any unprotected Lithium rechargeable batteries. Never recharge Lithium batteries in any chargers other than those designed for the specific battery types being used.

**CAUTION:**

Confirm that the IR Illuminator is off before installing the battery.

To install the battery into the Sioux850 (refer to Figure 2-3):

1. Unscrew the battery cap of Sioux IR illuminator and remove it.
2. Following the polarity markings on the battery cap, insert the fully charged 18650 rechargeable battery into the battery compartment, positive (+) end first.
3. Replace the battery cap.

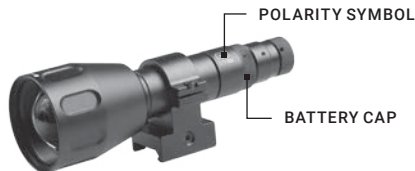


FIGURE 2-3. IR ILLUMINATOR BATTERY INSTALLATION

## 2.1.2 NECK STRAP INSTALLATION

Pass the end of the strap through the bi-ocular's strap mount eyelet from the bottom. Then pass it through the strap's buckle as shown in the Figure 2-4. Pull the strap to take up any slack and make sure the strap will not loosen from the buckle.

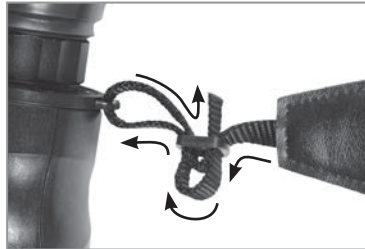


FIGURE 2-4. NECK STRAP INSTALLATION

## 2.1.3 TRIPOD INSTALLATION

FoxBat bi-ocular can be used on the tripod. To install the tripod, screw it in the 1/4" threaded socket of bottom rail of FoxBat 5.



FIGURE 2-5. TRIPOD INSTALLATION

### **NOTE:**

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

## 2.1.4 SIOUX850 INSTALLATION

The Sioux IR illuminator is delivered ready-assembled with a dedicated mount, to be installed on Picatinny rail. Sioux850 can be mounted on the top or bottom rail of the bi-ocular. Refer to Figure 2-6 and complete the following steps:

1. Loosen the fixing screw of the Sioux850 mount.

2. Mount the IR illuminator on the rail. The recoil stop of the Sioux mount should slide into the transverse slot of the rail.
3. Tighten the fixing screw.



FIGURE 2-6. SIOUX850 INSTALLATION

## 2.2. OPERATING PROCEDURES

### 2.2.1 CONTROLS AND INDICATORS

The FoxBat 5 is designed to adjust for different users and corrects for most differences. The controls of the bi-ocular are shown on Figure 1-1. The functions of controls and indicators are described in the Table 2-1.

TABLE 2-1. FOXBAT 5 CONTROLS AND INDICATORS

CONTROLS	FUNCTION
ON/OFF Button	Controls unit power. To turn the unit on and off press the button.
Proximity Sensor Button	Controls Proximity sensor. To turn the sensor on and off press the button.
Objective Lens Focus	Focuses objective lens. Adjusts for sharpest image of the viewed object.
Diopter Adjustment	Focuses eyepiece lens to use the unit without glasses. Adjusts for sharper image.
High Light Detector	The automatic Highlight Protective System analyzes light exposure with the detector.
Proximity Sensor	Identifies the user's intention to look through the bi-ocular by turning the unit automatically on.
LED Indicator in FOV	When Proximity sensor is ON, the indicator will light red.
	If the level of light exposure exceeds what is allowable, the indicator will light green.
	When the battery is low the red indicator starts blinking.

## 2.2.2 PREPARATION FOR OPERATION

To check the device in the daytime conditions or in a lighted room:

1. Make sure the battery is installed as indicated on the bi-ocular body.
2. Make sure the lens cap is attached to the front lens and the protective cap covers the high light detector.
3. Turn on the device by pressing ON-OFF button. You can then start observing the scene through the oculars. The greenish-lit screen of the image tube means that the device is working normally.
4. Direct the bi-ocular at an object located 15-25 yards/m from you and obtain a sharp image by turning the eyepieces.
5. Turn off the device by pressing ON-OFF button again.

### **CAUTION:**

**Never use your night vision device in daylight areas without the lens cover on! Never direct the lens to the bright light!**

## 2.2.3 OPERATIONS IN THE DARK CONDITIONS

### **CAUTION:**

**Bright sources such as light of fire, headlights, searchlights, etc. can damage the FoxBat 5. Avoid exposing the FoxBat 5 to these types light sources.**

To start the operations in dark conditions:

1. Make visual estimation if the illumination level in the viewing area is less than 1 lux (late twilight sky conditions).
2. Remove the high light detector cap.

### **CAUTION:**

**Ensure the high light detector is open before removing the lens cap.**

3. Remove the front lens cap and place it over the objective.
4. Push the ON/OFF button. A green glow will appear in the eyepiece (after a slight delay).
5. Observe the scene and adjust the focus.

## 2.2.4 FOCUSING

To focus the FoxBat 5, first you will need to adjust the diopters. Turn the diopter adjustment rings clockwise until it stops. While looking through the eyepieces at an object slowly turn the adjustment rings counter-clockwise until the grain in the image is sharp. Then adjust the objective lens until the image becomes clear and sharp.

## 2.2.5 PROXIMITY SENSOR OPERATIONS

To turn the sensor on press the Proximity Sensor button. The indicator in the FOV will light red.

On-board control systems identify the user's intention to look through the bi-ocular. When the bi-ocular is brought to the user's eyes, the bi-ocular will automatically turn on. When removed from the eyes the bi-ocular will turn off.

To turn the proximity sensor off, press the Proximity Sensor button again. The red light indicator in the FOV will turn off.

## 2.2.6 OPERATING AT CHANGING LIGHT CONDITIONS

The bi-ocular has a high light protective system, which cuts off the image intensifier when ambient light levels exceed the limit of 40 lux within 10 seconds. If a mission must be carried out at changing light conditions, it is possible to shut down the protective system. Put the rubber cap onto the light sensor (Figure 2-7).

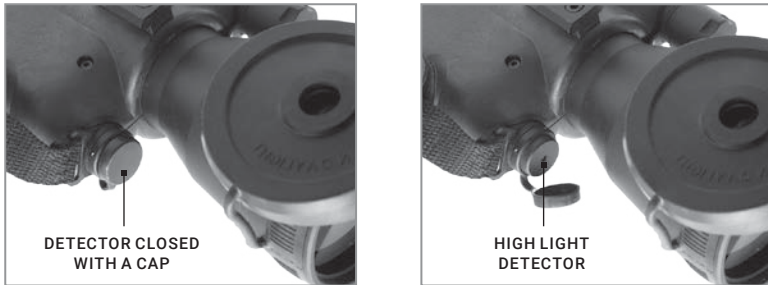


FIGURE 2-7. HIGH LIGHT PROTECTIVE SYSTEM SENSOR

## 2.2.7 SIOUX850 OPERATIONS

### **WARNING:**

In extreme darkness, light from the IR illuminator is invisible to the naked eye. However, it can be detected by other night vision devices.

To operate the Sioux IR illuminator (refer to Figure 2-8):

1. Turn on the IR illuminator by rotating the power switch. Four ON positions are located between the two OFF positions, and are each marked with a different-sized spot.
2. To change the radiated power level, turn the power switch to one of the spots between the two OFF positions. The brightness levels are marked with dots of increasing size, respective to the four different output power levels. The larger the spot, the greater the radiated power.
3. To adjust IR beam divergence, rotate the objective lens.

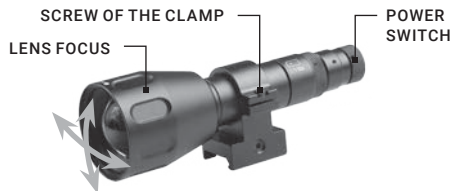


FIGURE 2-8. SIOUX850 OPERATIONS

4. To adjust the IR spot position in the field of view:

- a) Loosen the screw of the clamp on the IR illuminator mount (using a 2.5 mm hex key);
- b) Turn on the night vision device and the IR illuminator;
- c) While looking through the eyepiece of your device, move the IR illuminator up, down, and side-to-side to observe the IR spot position relative to the night vision device;
- d) Once the IR spot is centered in the field of view, tighten the clamp screw.

### **2.2.8 SHUT-DOWN OPERATIONS**

1. Push ON/OFF button to turn the bi-ocular off. The green of the image intensifier tube glow will fade to black.
2. Turn off the Sioux850 IR illuminator by rotating the power switch to the OFF position.
3. Replace the protective cap on the front lens of bi-ocular.



# 3 MAINTENANCE INSTRUCTIONS

## 3.1 CLEANING PROCEDURES

### CAUTION:

- The FoxBat 5 is a precision electro-optical instrument and must be handled carefully.
- Do not scratch the external lens surfaces or touch them with your fingers.

Clean the FoxBat 5 and Sioux850 as follows:

1. Gently brush off any dirt from the device'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. Clean the lenses with lens paper (and water if necessary). The alcohol also can be used for lens cleaning. Slightly dampen a cotton swab with alcohol. Gently and slowly wipe the lenses. 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 surfaces and contacts with a pencil eraser and/or alcohol-dampened cotton swabs.

## 3.2 TROUBLESHOOTING

Table 3-1 lists the most common malfunctions that may occur with your equipment. Perform the tests, inspections, and corrective actions in the order they appear in the table.

This table does not list all the malfunctions that may occur with your device, or all of the tests, inspections, and corrective actions that may be necessary to fix them. If the equipment malfunction is not corrected by the suggested actions, or a problem occurs that is not listed in this table, please contact AGM Global Vision's Customer Support center or your retailer.

TABLE 3-1. TROUBLESHOOTING

MALFUNCTION	PROBABLE CAUSE/TEST/INSPECTION	CORRECTIVE ACTION
1. Bi-ocular fails to activate.	Check for defective, missing, or improperly installed battery/batteries.	Replace the battery or install correctly. If FoxBat 5 still fails to activate, contact Customer Support.
2. Proximity sensor fails to activate.	Visual. Look for the LED indicator.	Contact Customer Support.

TABLE 3-1. CONTINUED

MALFUNCTION	PROBABLE CAUSE/TEST/INSPECTION	CORRECTIVE ACTION
3. Poor image quality.	Check the objective lens or eyepiece focus. Check for fogging or dirt on lens.	Refocus.  Clean lens surface.
4. Light is visible around eyecup.	Check eye relief distance.  Check eyecups for resiliency.	Adjust for proper eye relief distance. If the eyecups are defective, contact Customer Support.
5. Diopter adjustment cannot be made.	Check to see if the diopter adjustment ring is bent or broken.	Check to see if the diopter adjustment ring is bent or broken.
6. Battery cap is difficult to turn.	Check for dirt or grit in the threads. Check for damaged battery cap or threads on the battery compartment.	Clean the battery cap.  If damaged, contact Customer Support.
7. The FoxBat 5 does not shut off when exposed to daylight or bright room light.	Perform the following tests in daylight or bright room light. Place the lens cap on the objective lens. Open the high light detector. Turn the FoxBat 5 on and verify that they shut off within 10 seconds after powering on. Turn the bi-ocular off and then back on.	If damaged, contact Customer Support.

### 3.2.1. PREPARATION FOR EXTENDED STORAGE

1. Unscrew the battery caps and remove the batteries from the bi-ocular and IR illuminator.
2. Inspect the battery compartments for corrosion or moisture. Clean and dry if necessary.
3. Replace the battery caps.
4. Remove the Sioux850, if installed.

**NOTE:**

Prior to placing the FoxBat 5 and its accessories into the carrying case, ensure that the bi-ocular and case are free of dirt, dust, and moisture.

5. Place the bi-ocular and accessories into the carrying case.

# 4 WARRANTY INFORMATION

## 4.1 WARRANTY INFORMATION AND REGISTRATION

### 4.1.1 WARRANTY INFORMATION

This product is guaranteed to be free from manufacturing defects in material and workmanship under normal use for a period of three (3) years from the date of purchase. In the event that a defect covered by the warranty below occurs during the applicable period stated above, AGM Global Vision, at its discretion, will either repair or replace the product; such action on the part of AGM Global Vision shall be the full extent of AGM Global Vision's liability, and the Customer's sole and exclusive repairation. This warranty does not cover a product if it has been (a) 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 AGM Global Vision without prior written consent of AGM Global Vision; (d) is the result of a special order or categorized as "close-out" merchandise or merchandise sold "as-is" by either AGM Global Vision or the AGM Global Vision 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 AGM Global Vision. AGM Global Vision shall not be responsible for any defects or damage that in AGM Global Vision'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. This warranty is extended only to the original purchaser. Any breach of this warranty shall be enforced unless the customer notifies AGM Global Vision 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.

### 4.1.2 LIMITATION OF LIABILITY

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### **4.1.3 PRODUCT REGISTRATION**

In order to validate the warranty on your product, the customer must complete and submit AGM Global Vision PRODUCT REGISTRATION FORM on our website ([www.agmglobalvision.com/customer-support](http://www.agmglobalvision.com/customer-support)).

### **4.1.4 OBTAINING WARRANTY SERVICE**

To obtain warranty service on your unit, the End-user (Customer) must notify the AGM Global Vision service department via e-mail. Send any requests to [support@agmglobalvision.com](mailto:support@agmglobalvision.com) to receive a Return Merchandise Authorization number (RMA). When returning any device, please take the product to your retailer, or send the product, postage paid and with a copy of your sales receipt, to AGM Global Vision's service center at the address listed above. All merchandise must be fully insured with the correct postage; AGM Global Vision 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 AGM Global Vision for warranty service. AGM Global Vision will cover return postage/shipping after warranty repair to the End-user/Customer only if the product is covered by the aforementioned warranty. AGM Global Vision 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.

For service, repair or replacement, please contact:

#### **AGM Global Vision**

**173 West Main Street**

**PO Box 962**

**Springerville, AZ 85938**

**Tel. 928.333.4300**

**Fax 480.393.4882**

**[support@agmglobalvision.com](mailto:support@agmglobalvision.com)**

**[www.agmglobalvision.com](http://www.agmglobalvision.com)**

# 5 SPECIFICATIONS

## 5.1 SPECIFICATIONS

TABLE 5-1. FOXBAT 5 SPECIFICATIONS

ITEM	DATA
Image Intensifier Tube	Gen 2+ or Gen 3
Magnification	4.5x
Lens System	108 mm; F/1.5
FOV	9.5°
Focus Range	10 m to infinity
Controls	Digital
Diopter Adjustment	-5 to +5 dpt
LED Indicators	- Low Battery - Excessive Light Conditions - Proximity Sensor On
Automatic Brightness Control	Yes
Bright Light Cut-Off	Yes
Infrared Illuminator	Detachable long-range IR illuminator
Battery Type	1 x 1.5V AA type or 1 x 3V CR123A type battery
Battery Life (Operating)	60 hours (3V) / 30 hours (1.5V)
Operating Temperature Range	-40°F to +122°F / -40°C to +50°C
Storage Temperature Range	-58°F to +158°F / -50°C to +70°C
Environmental Rating	Water and Fog-Resistant
Weight	2.9 lb / 1.35 kg
Overall Dimensions	10.3 × 5.5 × 3.1 in / 262 × 140 × 81 mm
Package Includes	Night Vision Bi-ocular, Hand Strap, Neck Strap, Sioux850 Long Range IR Illuminator with Battery and Charger, Lens Cloth, User Manual, Soft Carrying Case

**TABLE 5-2. SIOUX850 ILLUMINATOR DATA**

ITEM	DATA
IR Emitter Type	LED
Power	1000 mW
Peak Wavelength	850 nm
Illumination Range	Up to 1090 yd / 1000 m
Divergence	4 to 35°
Battery	Single 18650 Rechargeable Battery (3.7V)
Battery Life at 20°C (68°F)	Up to 10 hr. (1/4 Power); 8 hr. (1/2 Power); 6 hr. (3/4 Power); 2.5 hr. (Full Power)
Operating Temperature	-4 to 122°F / -20 to +50°C
Storage Temperature	-58 to 158°F / -50 to +70°C
Environmental Rating	Water and Fog-Resistant
Overall Dimensions (with Mount)	5.9 × 1.9 × 2.2 in / 150 × 48 × 57 mm
Weight (with Mount, w/o Battery)	9.3 oz / 264 g

**NOTE:**

All data subject to change without notice.

# APPENDIX

## A. SPARE PARTS LIST

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.

The 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, including standards, engineering specifications, and inspection requirements.

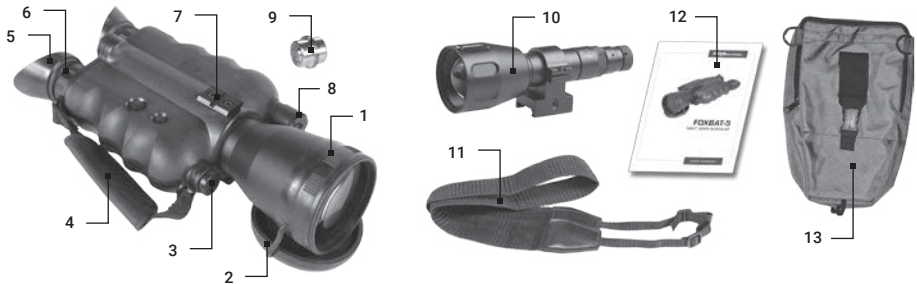


FIGURE A-1. FOXBAT 5 SPARE PARTS

TABLE A-1. FOXBAT 5 SPARE PARTS LIST

ITEM	DESCRIPTION	PART NO.
1	5x Lens Assembly	FXBT50LAS
2	Lens Cap	FXBT5LCP
3	Cap of High Light Detector	FXBT5HLDC
4	Hand Strap	FXBT5HST
5	Eyecup	FXBT5ECP
6	Eyepiece Assembly	FXBT5EPAS
7	Rail	FXBT5RL
8	Battery Cap	FXBT5BTCP
9	Battery Adapter	FXBT5BTAD
10	Sioux850 Long-Range Infrared Illuminator	501SIOUX850IR1
11	Neck Strap	FXBT5NKST
12	User Manual	FXBT5USMN
13	Carrying Case	FXBT5CRCS



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