

Night Owl Optics®

X-GEN™

**DIGITAL
NIGHT VISION**



Instruction Manual

CAUTION: Do not point Infrared Emitter directly into eye at close range.

WARNING!

Never look through this device directly at or near the sun. There is a risk of BLINDING YOURSELF!

Children should only use this device under supervision. Keep packaging materials away from children. There is a risk of SUFFOCATION.

Attention: Indoor Lighting may cause the image to PULSE or STROBE.

This device is intended for use in the dark.

The xGen's primary purpose is to amplify natural outdoor light, for viewing objects at a distance.

If you test indoors, with the lights turned on, the 60Hz frequency of indoor lighting systems will cause the image to pulse or strobe. This is not a defect.

DANGER to your child! RISK of physical injury!



This device contains electronic components that are battery powered. Never leave a child unsupervised with this device. The device should only be used as per these instructions otherwise there is a serious RISK of ELECTRICAL SHOCK.

Children should only use this device under supervision. Keep packaging materials (plastic bags, rubber bands, etc.) away from children. There is a risk of SUFFOCATION.

Batteries should be kept out of children's reach. When inserting batteries please ensure the polarity is correct. Leaking or damaged batteries can cause injury if they come into contact with the skin. If you need to handle such batteries please wear suitable safety gloves.

TIPS on cleaning



Remove the batteries before cleaning.

Clean the exterior of device with a dry cloth. Do not use cleaning fluids so as to avoid causing damage to electronic components.

Protect the device from dust and moisture. Store the device in the bag supplied.

DISPOSAL



Dispose of the packaging material/s as legally required.

Important!

It is advisable to remove the batteries when the device is not used for more than 24 hours. This prevents the batteries from leaking and extends their service life.

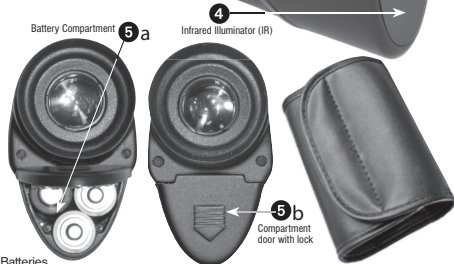
Please do not use rechargeable batteries, since the base voltage they provide is insufficient. We recommend using high performance type AA 1.5 V alkaline batteries.

Technical Data

Model:	xGen™
Sensor Resolution:	640 X 480 pixels (VGA)
Micro-Display Resolution:	320 X 240 pixels (QVGA)
Magnification:	2.1x
FOV in degrees:	12 degrees
Field of view at 200 ft.:	40 ft.
Minimal Focal Distance:	1M
Eyepiece Adjustment :	+/- 4 Diopter
Battery Requirements:	(3) AA alkaline batteries (not included)
Dimensions:	5.2" X 2.9" X 1.7"
Weight:	4.93 oz without batteries
Lens Diameter:	20mm
Infrared Illuminator:	Built-In

Includes

- Carry bag
- Instruction manual



- 1 Power Switch / Mode button
- 2 Ocular Lens (Eyepiece)
- 3 Objective Lens
- 4 Infrared Illuminator (IR)
- 5 a Battery Compartment
- 5 b Compartment door with lock

Introduction

The Night Owl Optics xGen Digital Night Vision Viewer features the latest innovations in affordable consumer Night Vision technology. Designed for viewing out to a distance of 70 yards using a powerful built-in infrared illuminator, the xGen viewer performs in low-light conditions or complete darkness.

Battery Installation

1. Slide the door down to release lock, then rotate door up to open.
2. Install 3 AA alkaline batteries as shown in illustration 5a Pg. 4. Please note polarity of batteries.
3. Close the battery compartment by rotating the door down and then slide up to lock.

Start Up / Turn off

Press-and-Hold to start up. Press-and-Hold again to turn unit off.

Auto-off Feature

It powers down automatically 10 minutes after the last touch of a control button. If batteries are low, then the device will automatically power down sooner than the 10 minute time-out period.

Focus

The xGen has two focusing mechanisms.

1. The EYEPIECE **2** allows you to focus your individual eyesight onto the microdisplay
2. The OBJECTIVE LENS **3** brings objects at different distances into focus.

Focusing Procedure

Press the MODE BUTTON **1** to see characters on the microdisplay. With these characters illuminated, rotate the EYEPIECE until the characters come into focus. After focusing the EYEPIECE to your eyesight, no further adjustment of the EYEPIECE is necessary, unless you move it accidentally.



Rotate the OBJECTIVE LENS to bring objects in your field of view into focus. The xGen requires manual focusing. Just as your eyesight

must refocus on objects at varying distances, you must also rotate the OBJECTIVE LENS to focus precisely on each object you view.

Operating Control

Use the MODE BUTTON to select the best illumination setting for the environment you are in. Successive presses of the MODE BUTTON allow you to select from one of five preprogrammed settings. Each setting is a combination of IR illumination and frame-rate. More IR illumination allows you to see farther, but too much IR illumination at short distances may overexpose the image. Slower frame-rates (lower numbers) allow the sensor to collect more light, resulting in increased low-light illumination. But a lower frame-rate setting also results in a slower refresh rate and less efficient tracking of moving objects.

Mode Settings are as follows:

	IR Illumination 4 	Frame Rate 
1.	1/3 Power	30 FPS
2.	FULL Power	30 FPS
3.	1/2 Power	15 FPS
4.	FULL Power	15 FPS
5.	FULL Power	8 FPS

Toggle among the different settings and use the selection that is best for the light environment you are in.

Each time the xGen is powered on, the illumination setting resets to the #1 default setting.

The infrared light BEAM is not detected by human or animal eyes. But note that when looking at the infrared emitter, you will notice a red glow. This red glow is the visible red light that reflects around the IR diode which creates the infrared light beam. While this glow can be detected by humans at a distance, animals appear not to detect it. Animals are not startled by the red glow, nor do they react to it.

Battery Disposal & Recycling

Alkaline batteries may be disposed of in a normal waste receptacle or recycled. Non-Alkaline batteries should be recycled. In the state of California all battery types must be recycled. Please refer to local municipalities for detailed disposal and recycling requirements.

Operating Conditions

While intended for viewing in the dark, use in daylight will not damage the device, but may result in a temporarily overexposed image.

Do not expose to rain, extreme heat or shock.

CAUTION: *Do not point Infrared Emitter directly into eye at close range. Keep out of reach of children.*

The infrared emitter emits a BRIGHT, although invisible, beam of light. As with any bright light, do not point into the eye.

Special operating characteristics

If the device has initially been used in cold conditions and is then brought into a warmer room, allow it to acclimate to room temperature for 2-3 hours before storing the unit in its case, to avoid any condensation forming on the electro-optical elements. Never immerse the device in liquids. Do not expose the device to either rain or strong sunlight. Avoid exposure to severe shock or heat sources, which may damage the device.

The following table provides a list of possible problems which may occur during the operation of the device.

TROUBLESHOOTING

Problem	Possible cause	Solution
The device cannot be switched on.	Check to ensure the correct polarity of the batteries.	Reposition Batteries. Switch the device off and then on again.
Poor image quality.	Check whether the eyepiece and lens are focused correctly. Ensure that the lenses are not dirty.	Carefully clean the lenses with a soft and lint-free cleaning cloth (e.g. microfiber)

Customer Service

If you experience any problems with your device, or if your device is in need of service, contact our customer support at 1.800.444.5994 or service@nightowloptics.com. The hours of operation are 8:00 a.m.-5:00 p.m. MST, Monday to Friday.

LIMITED ONE YEAR WARRANTY

Congratulations on the purchase of your new Night Vision device. This certifies that the Warrantor warrants this product to be free of defects in material and workmanship when used in accordance with the accompanying owner's manual. Warrantor's obligation under this Warranty shall be limited to the original purchaser to repair or replace, free of charge, within the specified period of Warranty. This Warranty is not transferable.

This Warranty does not apply to any Night Vision products that have been subject to indirect damage due to misuse, abuse, accident, and alteration due to the attempt to repair a unit by a non-authorized repair agent.

During the Warranty period, Warrantor and/or any of its affiliates or authorized repair agents will, at their discretion, repair or replace defective parts in the warranted products free of charge.

Proof of purchase is required to make a claim under this warranty.

PROCEDURE FOR WARRANTY CLAIM

Please contact our Night Vision Customer Service Representative by mail or telephone for return authorization.

Warrantor will not accept any returns unless they contain a return authorization number issued by a Night Owl Optics Customer Service Representative.

To return your device for service, please pack in its original carrying case. Also, please pack the unit with enough protective material so it does not get damaged or scratched during shipment. Please include your name, shipping address, telephone number, along with proof of purchase and a brief note describing the defect. The unit will be repaired or replaced at the discretion of the Warrantor. In the event the repairs are not covered by this Warranty, an estimate will be sent for your approval.

NOTE TO CUSTOMERS OUTSIDE THE USA

This warranty may vary in other countries; check with your distributor for details. Warranty does not cover shipping costs

Night Owl Optics®

**1120 Alza Drive,
El Paso, Texas 79907
1-800-444-5994
www.nightowloptics.com**

WARRANTY SERVICE: service@nightowloptics.com

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