

Night Owl Optics®

X-GEN PRO™

**DIGITAL
NIGHT VISION**



Instruction Manual

3x Magnification. Digital Zoom to 6x.

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.

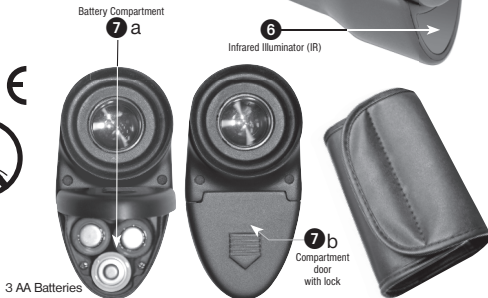
Technical Data

Model:	xGenPRO™
Sensor Resolution:	640 X 480 pixels (VGA)
Micro-Display Resolution:	320 X 240 pixels (QVGA)
Magnification:	3x to 6x
FOV in degrees:	7 degrees
Field of view at 200 ft.:	24 ft.
Minimal Focal Distance:	1M
Eyepiece Adjustment :	+/- 4 Diopter
Battery Requirements:	(3) AA alkaline batteries (not included)
Dimensions:	5.8" X 3.5" X 2.4"
Weight:	9.34 oz without batteries
Lens Diameter:	37mm
Infrared Illuminator:	Built-In

Includes

- Carry bag
- Instruction manual

- ① Power (push and hold)
- ② IR
- ③ Frame Rate/Digital Zoom
- ④ Ocular Lens (Eyepiece)
- ⑤ Objective Lens
- ⑥ Infrared Illuminator (IR)
- ⑦ (a) Battery Compartment
- ⑦ (b) Compartment door with lock



Introduction

The Night Owl Optics xGenPro Digital Night Vision Viewer features the latest innovations in affordable consumer Night Vision technology. Designed for viewing out to a distance of 100 yards using a powerful built-in infrared illuminator, the xGenPro viewer performs in low-light conditions or complete darkness.

Battery Installation

1. Slide battery door **7** down to release lock, then rotate the door up to open.
2. Install 3 AA alkaline batteries as shown in illustration, pg. 4. Please note polarity of batteries.
3. Close the battery compartment by rotating the door down and then slide up to lock.

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.

Start Up / Turn off

Press-and-Hold Power button **1** for approximately 2-3 seconds to power on device.

Press-and-hold Power button **1** approximately 2-3 seconds to power off device.

Auto-off Feature

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 xGenPro has two focusing mechanisms.

1. The EYEPIECE ④ allows you to focus your individual eyesight onto the microdisplay.
2. The OBJECTIVE LENS ⑤ brings objects at different distances into focus.

Focusing Procedure

- ① 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 within your field of view into focus. The xGenPro requires manual focusing. Just as your eyesight must refocus on objects at varying distances, you must also rotate the OBJECTIVE LENS ⑤ to focus precisely on each object you view.

Operating Controls

The two buttons (❷ and ❸) closest to the eyepiece, allow you to control FRAME RATE and IR INTENSITY and to perform DIGITAL ZOOM.

Frame Rate ❸

Press ❸, closest to the eyepiece.

Frame Rate is similar to the exposure time on an old film camera where the longer the shutter remains open, the greater the amount of light exposure. With the xGenPro, the electronic sensor can be allowed more time to gather up light before processing the image. The longer the exposure time, and thus the lower the frame rate (FPS), the more light is gathered.

There are 3 exposure settings:

<u>Frames per Second</u> 	<u>Light Gathering</u>
25	Low (default)
15	Medium
08	High

The current frame rate setting  is displayed at the top left of the display.

In the very darkest environments, and for viewing objects at a greater distance, choose the 8 FPS setting. Lower FPS settings have the disadvantage of reproducing a slower-moving image. A moving image at lower FPS settings may appear to smear. This is not a defect, but a characteristic of low frame-rate operation.

Operating Controls *(continued)*

IR Intensity: ②

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.

The xGenPro is an active Night Vision device; the IR is always illuminated. The user can control the intensity of the IR beam using button ②, but cannot turn it off.

There are 3 IR settings:

LOW (default) - 1 bar

MEDIUM - 2 bars

HIGH - 3 bars

At close range, and at low FPS settings, too much IR illumination may overexpose the image.

In order to see objects at longer distances or to see in the darkest outdoor environments, choose a higher IR setting. The higher the IR setting, the farther the IR beam will project.

Digital Zoom

Press-Hold-and-Release button ③ to double the magnification with the digital zoom function.

- Hold the button for one second. Upon release, zoom will be activated (X2 appears on screen).
- Press-Hold-and-Release again, to deactivate digital zoom.

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)

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.

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

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