

SEE IN COMPLETE DARKNESS

XGENTM
COLUMNAR INFRARED

DIGITAL NIGHT VISION
TECHNOLOGY



XGEN

4.93 oz

5.2"L x 2.9"H x 1.7"W

UPC 6-35328-17162-2

2.1X MAGNIFICATION

- Digital technology
- Infrared Illuminator
- Single button operation
 - choose from five settings
- Easy to use
- Compact and lightweight
- One-hand operation
- Identify targets out to 70 yards

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.

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

- 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



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 5 a. 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.

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 Controls 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 5

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.

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 stand in its case for at least 2-3 hours 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.