



ADVANCED NIGHT VISION INSTRUCTION MANUAL

1.5x54 Monocular

Model: 26-1554

Lit #: 91-1554/03-02



SPECIFICATIONS

Magnification:	1.5 X
Objective Size:	54 mm
Vertical Resolution:	40 line/mm
Viewing Range (Ft.)*	3-1800 ft.
Range of Built-In Infrared Illuminator	90 yards
Field of View:	72 feet at 100 yards
Battery Type:	AA (2)
Operating Time:	Up to 25 hours
Temperature Range:	-22-104 degrees F / -30-40 degrees C
Eyepiece Adjustment:	+/- 5 diopter
Length:	7.3 inches / 185mm
Width:	3.1 inches / 80mm
Height:	3.5 inches / 90mm
Weight:	27 oz. / 0.7 kg

* Maximum distance at which a human figure can be recognized under ideal viewing conditions; defined as clear conditions (no fog, dust, etc.) under the light of 1/4 moon.

Congratulations on the purchase of your Bushnell Night Vision Product. Bushnell Night Vision products are comprised of high quality image intensifier tubes and optics. Bushnell Night Vision products amplify existing light, allowing you to see in dark conditions too dark for the naked eye.

This rugged water-resistant night vision device uses advanced technology and fiber optic bundles to eliminate distortion thus providing excellent resolution, superior image quality, and a flat field of view.

HOW NIGHT VISION WORKS

Bushnell Night Vision products collect and amplify existing light through the objective lens, which is then focused on the image intensifier. Inside the intensifier, a photocathode is "excited" by the light and converts the photon energy into electrons. These electrons accelerate across an electrostatic field inside the intensifier and strike a phosphor screen (like a green monochrome TV screen) which emits an image that you can see. It is the acceleration of electrons, which provides gain and enhances the image. This is a Generation I device.

Your Night Vision device is ideal for a variety of professional and recreational uses including the following:

- Wild Life Observation
- Astronomy
- Boating / Marine Use
- Police / Law Enforcement
- Search and Rescue
- Security
- Property Management

GETTING STARTED

Installing Batteries

This device operates on two AA batteries. To install, remove the battery compartment cover located on the bottom of the unit. Insert the batteries into the battery compartment so that the (+) and negative (-) terminals of the batteries match the markings inside the compartment. Replace the battery cover.

Use and Testing

This device operates on two AA batteries. Make sure they have been installed according to the instructions above.

If you wish to test your night vision device in a lighted area, be sure the objective lens cap is covering the objective lens (1) prior to pressing the "ON" button (2). The objective lens cap has a pinhole opening to admit a small amount of light for testing purposes.

If testing or using the device in the dark, remove the objective lens cap and activate the device by pushing the "ON" button (2).

Your Night Vision device offers a Built-In Infrared Illuminator. This allows you to see in complete darkness where no ambient light source, such as moonlight, is available. To activate, simply press the button (3) located next to the "ON" button.

Direct the device at an object at a distance approximately 100 yards and rotate the eyepiece (4) to give the best quality image. After the adjusting, do not rotate the eyepiece any longer irrespective of the distance and other conditions.

Direct the device at the subject to be viewed and adjust the final focus by rotating the objective lens focusing ring until the image quality is optimal.

The Green LED indicates that the light amplifier unit is on. The Red LED indicates that the Infrared Illuminator is on. Always remember to turn the unit off when done. Do not store this device while the indicators are lit.

Caution: This device can be used in extreme cold weather. However, when the unit is brought back into a warm environment, you must wait approximately 5 hours before using the unit again. Damage may occur due to condensation that may have accumulated on the internal circuitry of the unit.

Spots In The Image

You may see spots in the image. These vary from device to device and are cosmetic blemishes inside the device. These are normal for Night Vision devices and are NOT a defect.

TROUBLESHOOTING

Scope will not turn on.

Check that the batteries are installed properly. Replace the batteries with new ones. Check the battery contacts to ensure they are clean and free of corrosion. Check that the power is in the "ON" position.

Image is not focused.

Adjust the focus on the Eyepiece (4). Adjust the Objective Lens Focusing Ring. If still no improvement, clean the lenses; they may be foggy or dusty.

Visibility decreases or disappears.

Bright light sources such as headlights may cause visibility to degrade or disappear completely. Turn the Power OFF (2) and turn the scope away from the light source. The unit will restore itself in 1 or 2 minutes. Conditions such as fog or extremely dark environments will decrease visibility.

Scope flashes.

The scope may flash when used in a bright environment. It may also flash during the first few seconds of use in dark environments.

CARE AND MAINTENANCE

Your Bushnell Night Vision device was designed to provide many years of reliable service. To ensure that you get the most enjoyment out of your Night Vision device, always obey the following warning and precautions:

- Do not point this device toward any light source greater than 1 lux such as car headlights, for an extended period of time. This device utilizes an internal flash protection system which minimizes potential damage, but long-term exposure to bright lights can damage the unit. Any such damage may void your warranty.
- This device was designed to be self-contained. Do not open the body of the device or otherwise attempt to service this device.
- Always store the device in a dry, well-ventilated room.
- Remove the batteries if the device is to be stored for longer than 2 months.
- Keep the device away from any heating and air conditioning vents or other heating devices, direct sunlight, and moisture.
- Avoid dropping or otherwise shocking the unit. Although designed for rugged outdoor use, this device incorporates a sophisticated optica system, which could be damaged in extreme cases of misuse.
- Clean the optical lenses with professional lens cleaning supplies.
- Clean the exterior of the device with a soft clean cloth.

Class 1 LED product per IEC 60825-1/nov 1993, appendix EN 60825-1A11/oct1996

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WARRANTY / REPAIR

TWO-YEAR LIMITED WARRANTY

Your Bushnell® product is warranted to be free of defects in materials and workmanship for two years after the date of purchase. In the event of a defect under this warranty, we will, at our option, repair or replace the product, provided that you return the product postage prepaid. This warranty does not cover damages caused by misuse, improper handling, installation, or maintenance provided by someone other than a Bushnell Authorized Service Department.

Any return made under this warranty must be accompanied by the items listed below:

- 1) A check/money order in the amount of \$10.00 to cover the cost of postage and handling
- 2) Name and address for product return
- 3) An explanation of the defect
- 4) Proof of Date Purchased
- 5) Product should be well packed in a sturdy outside shipping carton, to prevent damage in transit, with return postage prepaid to the address listed below:

IN U.S.A. SEND TO:

Bushnell Performance Optics
Attn.: Repairs
8500 Marshall Drive
Lenexa, Kansas 66214

IN CANADA SEND TO:

Bushnell Performance Optics
Attn.: Repairs
25A East Pearce Street, Unit 1
Richmond Hill, Ontario L4B 2M9

For products purchased outside the United States or Canada please contact your local dealer for applicable warranty information. In Europe you may also contact Bushnell at:

33 141 44 94 80
Bushnell Performance Optics Germany GmbH
Morsestrasse 4
50769 - Cologne
Germany

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