

# Bushnell®



## DIGITAL SENTRY

### NIGHT VISION

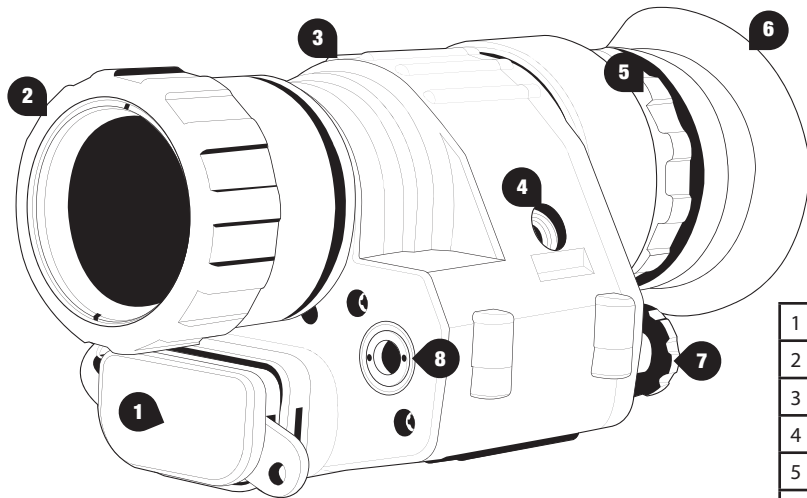
**2x28 Color Digital Night Vision Monocular**

**INSTRUCTION MANUAL**

Model AR142BK  
10-16



## PARTS AND CONTROLS GUIDE



1	Battery Compartment
2	Objective Lens / Focus
3	Device Housing
4	Accessory Mount
5	Diopter / Eyepiece
6	Rubber Eye Guard
7	Power / IR Switch
8	IR Illuminator

## PACKAGE CONTENTS:

- Digital Monocular
- Soft Pouch
- Rubber Eye Guard
- Head / Helmet Mount Adapter
- Weapon Mount Adapter

*Note: since the Digital Sentry uses digital night vision technology (not analog "Gen 1", etc.), the unit cannot be damaged by exposure to normal indoor or outdoor light levels- however, you should avoid pointing it directly at the sun or other very bright light sources to avoid overloading the sensor.*

## OPERATION

### **Battery Installation (fig. 1.1)**

Squeeze the 2 wings on the battery compartment cover together to release the cover. Install two AA batteries (*not included*) correctly according to the polarity diagrams inside the battery compartment and replace the cover.

***DO NOT MIX BATTERY TYPES, OR MIX NEW AND OLD BATTERIES.*** Remove and store batteries when the device is not in use.

### **Power and IR Control (fig. 1.7)**

Powering up and adjusting IR (Infra-Red illumination) intensity can be controlled by turning the switch located at the back of the device housing (*fig. 1.7*). Rotate the switch to the right. The switch will produce a tactile click when powering on and off.

To activate the IR and adjust IR brightness simply continue to rotate the power switch to the right until it cannot be rotated any further.

Turn off the IR Illumination by rotating the switch to the left - back towards the off position until it cannot be rotated any further.

Power off by rotating the switch to the left until there is a tactile click.

### **Diopter Focus (fig. 1.5)**

For the best possible user experience diopter adjustment must be made.

Holding the monocular up to your eye with the power on, rotate the eyepiece (*fig. 1.5*) until the edges of the LED display become sharp.

### **Objective Focus (fig. 1.2)**

Holding the monocular up to your eye with the power on, rotate the front objective lens (*fig. 1.2*) until the image in the field of view becomes sharp.

Ensure that the subject is at least 3 feet away.

Focus will require adjustment depending on the distance of the subject.

For the best possible user experience keep the objective lens clean and free of lint, oil or dirt. The lens can be cleaned with a clean dry lint-free cloth.

For dried or stuck-on dirt use a lightly moistened lint-free cloth can be used with clean water or a glass / lens cleaning solution.

### **Accessories (fig. 1.4)**

The Digital Sentry comes with a head / helmet mount adapter and a weapon mount adapter.

To mount the accessory adapters, line up the screw hole with the screw and tighten. Be careful not to cross-thread the screw. - If the screw becomes tight but the mount is still loose, it is not properly mounted. Loosen and realign.

When properly installed there should be no free play between the mount accessory and the monocular housing.

### **Maintenance and Storage**

- Store in a cool dry place with batteries removed
- Do not submerge or allow to get excessively wet.
- Clean with dry lint-free or lightly moistened cloth.

### **Warning And Precautions**

- Avoid dropping or otherwise shocking the unit. Although designed for rugged outdoor use, this device incorporates sophisticated digital circuitry which could be damaged in extreme cases of misuse.
- Do not open the body of the device or otherwise attempt to service this device.
- Never pour alcohol or any other liquids directly onto the lens surfaces.
- Do not clean lenses and unit surfaces with paper based products, such as newspaper, textbook paper, etc. as it can damage the coating.
- Avoid removing the eyepiece as the LCD display could become damaged.
- Do not leave the device in direct sunlight or rain. The unit is water resistant, but is not designed for prolonged exposure to moisture and cannot be submerged in water.

- After the unit is operated in temperatures below zero, wait at least 3 hours at room temperature, to avoid condensation accumulating on the internal lens surfaces and the consequent fogging caused by extreme temperature differences.

## Troubleshooting

Any problem that cannot be corrected by following the instructions above may require that you contact a Bushnell representative for support. For customer service, please visit [www.bushnell.com](http://www.bushnell.com) or call 1-800-423-3537 (M-F, 8AM-5PM Central Time)

## TECHNICAL SPECIFICATIONS

Specification	
Lens System	2x / 28mm
Field of View	6.4°
Range	220 yds
Display	330 x224 / LED
IR Illuminator	Yes / 850nm
Dimensions (in)	6.75 x 2.25 x 2.125
Battery / Life	AA / 2-3hrs
Weight	8.9 oz / 252 g

## **ONE YEAR LIMITED WARRANTY**

Your Bushnell® product is warranted to be free of defects in materials and workmanship for one year 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, address and daytime phone # for product return.
3. An explanation of the defect.
4. Copy of your dated proof of purchase.

Do not send in accessories (batteries, SD cards, cables), only the product for repair.

Product should be well packed in a sturdy outside shipping carton to prevent damage in transit, and shipped to the address listed below:

### **In U.S.A. Send To:**

Bushnell Outdoor Products  
Attn.: Repairs  
9200 Cody  
Overland Park, Kansas 66214

### **In CANADA Send To:**

Bushnell Outdoor Products  
Attn.: Repairs  
140 Great Gulf Drive, Unit B  
Vaughan, Ontario L4K 5W1

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:

Bushnell Germany GmbH  
European Service Centre  
Mathias-Brüggen-Str. 80  
D-50827 Köln  
GERMANY  
Tél: +49 221 995568-0  
Fax: +49 221 995568-20

This warranty gives you specific legal rights.  
You may have other rights which vary from country to country.

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## **LIMITATIONS OF LIABILITY**

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***Note: failure to follow the warnings and precautions as stated in this manual may damage the unit and void the manufacturer's warranty.***

## FCC NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.





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