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Bushnell EX650

Bushnell EX650 Digital Equinox X650 Night Vision Monocular User Manual

Model: EX650

Brand: Bushnell

Introduction

This user manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your Bushnell EX650 Digital Equinox X650 Night Vision Monocular. Please read this manual thoroughly before using the device to ensure proper functionality and safety.

Product Overview

The Bushnell EX650 Digital Equinox X650 Night Vision Monocular is a versatile optical device designed for both day and night viewing. It features a 5x magnification, 32mm objective lens, and a built-in infrared (IR) illuminator for enhanced visibility in low-light conditions. The monocular also supports video recording and image capture to a micro SD card.



Figure 1: Front view of the Bushnell EX650 Digital Equinox X650 Night Vision Monocular. This image shows the objective lens and the overall compact design of the device.



Figure 2: Side view of the Bushnell EX650 Digital Equinox X650 Night Vision Monocular, highlighting the control buttons for power, mode, and zoom. The ergonomic design ensures comfortable handling.

Key Features

- **5x Magnification:** Provides powerful zoom for detailed viewing.
- **32mm Objective Lens:** Ensures clear image capture.
- **Built-in IR Illuminator:** Extends night vision range beyond 650 feet.
- **Day or Night Viewing:** Full-color daylight viewing and enhanced night vision capabilities.
- **Easy Video Recording:** Capture high-quality video and still images directly to a micro SD card.
- **Tripod-Mounting Adaptor:** Allows for stable, hands-free operation.

Setup

Battery Installation

The Bushnell EX650 requires 3 AAA batteries for operation. To install or replace batteries:

1. Locate the battery compartment on the underside of the monocular.
2. Slide open the battery compartment cover.
3. Insert 3 AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Figure 3: Close-up view of the battery compartment and micro SD card slot on the Bushnell EX650. The device uses 3 AAA batteries.

Micro SD Card Installation

The monocular supports micro SD cards for storing recorded videos and images. An 8GB micro SD card is typically included.

1. Locate the micro SD card slot next to the USB port.
2. Gently insert the micro SD card into the slot until it clicks into place.
3. To remove, push the card inward until it springs out.

Note: Some users have reported issues with larger capacity SD cards (e.g., 64GB). It is recommended to use the included 8GB card or test other cards for compatibility.

Operating Instructions

Powering On/Off

To power on the monocular, press and hold the power button (usually the top button on the control panel) until the display illuminates. To power off, press and hold the power button again until the display shuts down.



Figure 4: Top view of the Bushnell EX650 with labels for ON/OFF, MODE, and ZOOM IN/OUT buttons. These controls are essential for operating the monocular.

Focus Adjustment

The monocular features two focus adjustments:

- **Eyepiece Focus:** Adjust the eyepiece ring (closest to your eye) to sharpen the display screen.
- **Objective Lens Focus:** Rotate the objective lens ring (front of the monocular) to bring distant objects into clear focus.

Mode Selection (Photo/Video)

Press the 'Mode' button (usually labeled 'M') to switch between photo capture and video recording modes. The current mode will be indicated on the internal display.

Zoom Function

Use the '+' and '-' buttons on the control panel to adjust the digital zoom level. The monocular offers up to 5x digital zoom. Note that higher digital zoom levels may result in a grainier image.

IR Illuminator Control

The built-in IR illuminator automatically activates when the device is turned on. You can adjust its brightness or turn it off via the device's menu settings. Refer to the on-screen menu for specific controls.

Product Videos

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Video 1: This video provides a general product overview of the Bushnell EX650 Night Vision Monocular, demonstrating its physical features and basic handling. (Source: Amazon Product Imaging)

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Video 2: A closer look at the Bushnell EX650 Night Vision Monocular, detailing its various ports, buttons, and the battery compartment. (Source: Amazon Product Imaging)

Maintenance

Cleaning the Lenses

Use a soft, lint-free cloth specifically designed for optical lenses to clean the objective and eyepiece lenses. Avoid using abrasive materials or harsh chemicals, as these can damage the lens coatings.

Storage

When not in use, store the monocular in its protective case in a cool, dry place. Remove batteries if the device will not be used for an extended period to prevent leakage.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace with fresh AAA batteries.
Image is grainy or blurry.	Incorrect focus adjustment; high digital zoom.	Adjust eyepiece and objective lens focus; reduce digital zoom.
Cannot record video/images.	Micro SD card full or incompatible.	Delete files from SD card; try a different micro SD card (preferably 8GB).
IR illuminator not working.	IR setting is off or brightness is too low.	Check IR settings in the device menu.

Specifications

- **Brand:** Bushnell

- **Model Name:** EX650
- **Magnification:** 5x
- **Objective Lens Diameter:** 32mm
- **Material:** Plastic
- **Item Weight:** 0.15 Grams
- **Dimensions (LxWxH):** 7.5 x 3 x 3 inches
- **Power Source:** 3 AAA Batteries
- **Night Vision Range:** Exceeds 650 feet (with built-in IR illuminator)
- **Compatible Devices:** Devices with micro SD card support and/or capable of connecting to the monocular for video recording.
- **Mounting Type:** Tripod

Warranty and Support

The Bushnell EX650 Digital Equinox X650 Night Vision Monocular comes with a Bushnell Limited Warranty. For detailed warranty information and support, please refer to the official Bushnell website or contact their customer service.

Optional protection plans may be available for extended coverage:

- 2-Year Protection Plan
- 3-Year Protection Plan
- Complete Protect (monthly plan)

For additional resources, you may also find the official User Guide (PDF)here.

Important Safety Information

WARNING: This product may expose you to chemicals which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov/.

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