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ATN BlazeHunter

ATN BlazeHunter Thermal Imaging Monocular User Manual

Model: BlazeHunter (640x512; 3.5-28x LRF)

1. Introduction and Overview

The ATN BlazeHunter Thermal Imaging Monocular is a high-performance device designed for outdoor enthusiasts, hunters, and professionals requiring advanced thermal detection capabilities. It features a professional-grade, sub 18mK NETD uncooled focal plane detector, ensuring exceptional sensitivity and clear thermal imagery in various environmental conditions. This monocular integrates a built-in laser rangefinder for precise distance measurements, enhancing accuracy in the field. With its robust design, long battery life, and versatile viewing modes, the BlazeHunter is an essential tool for observation and tracking.

Image: The ATN BlazeHunter Thermal Imaging Monocular, showcasing its compact and ergonomic design.

2. What's in the Box

Upon unboxing your ATN BlazeHunter, please verify that all components are present:

- ATN BlazeHunter Thermal Imaging Monocular Unit
- Two (2) Rechargeable Batteries
- Battery Charger
- USB-C Cable
- Protective Carrying Case
- Lens Cleaning Cloth
- Quick Start Guide

3. Product Features

The BlazeHunter is equipped with advanced features to optimize your thermal observation experience:

3.1. Pro-Grade Image Sensor

Equipped with a vanadium oxide uncooled focal plane detector with NETD <18mK for exceptional thermal imaging and detection of even the smallest temperature differences, providing enhanced clarity and precision in all conditions.

Image: Visual representation of the pro-grade image sensor's capability to detect subtle thermal variations, showing a clear thermal signature of an animal.

3.2. Multiple Viewing Modes

Customize your view with six distinct color palettes: White Hot, Black Hot, High Red, Iron Red, Green Hot, and Sepia. These modes are tailored to your preferences for enhanced target detection and optimal visibility in any environment.

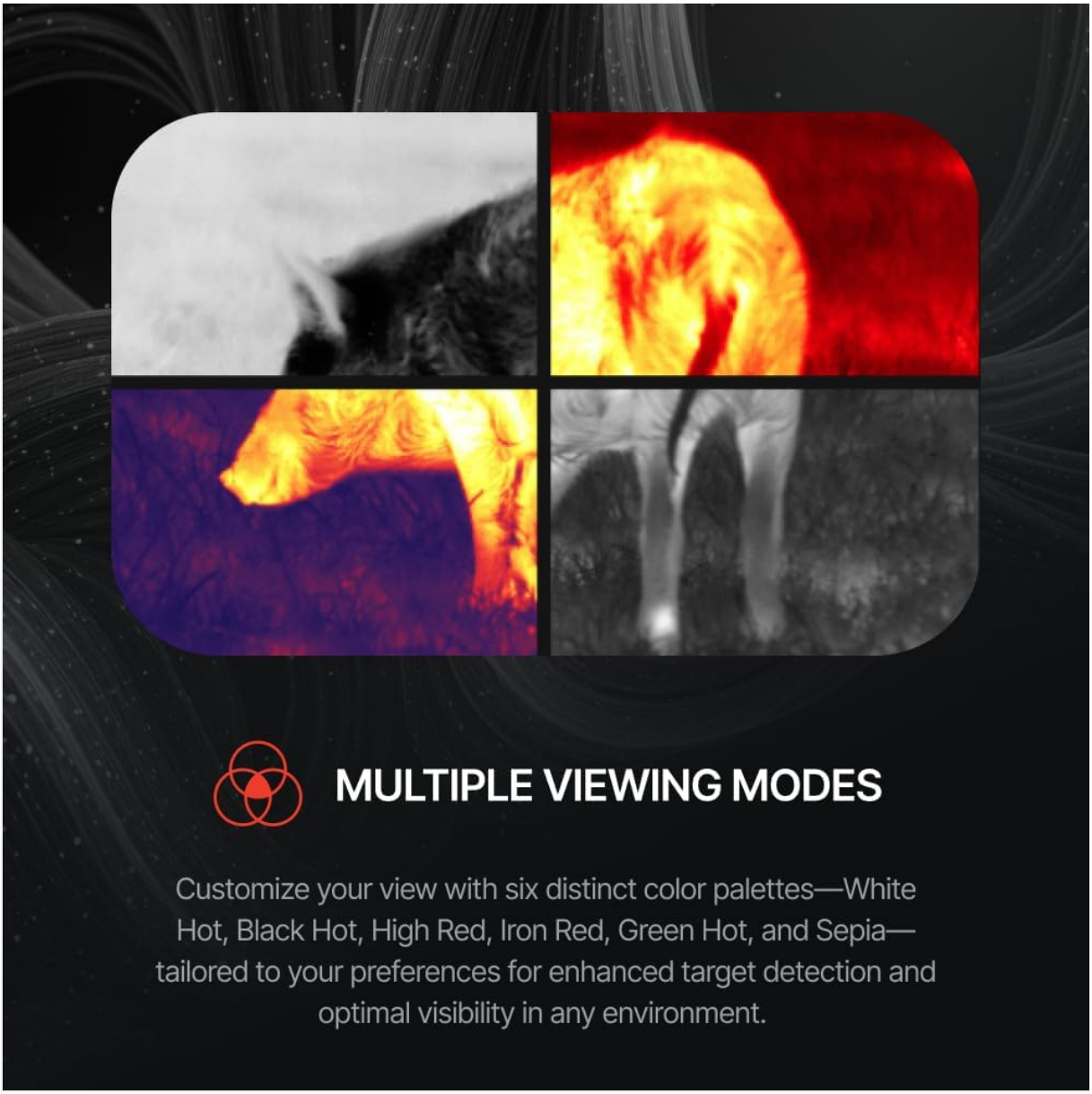

Image: A quad-panel display showing different thermal color palettes (White Hot, Black Hot, High Red, Iron Red) applied to a scene, demonstrating the variety of viewing options.

3.3. Video Record Functionality

Record and relive your thermal observations with high-quality video capture, perfect for enhancing your hunting and scouting trips. The device supports video recording at 60 frames per second (fps).

Image: A thermal view of multiple animals, with an overlay indicating video recording is active at 60fps, highlighting the device's video capture capability.

3.4. Built-in Laser Rangefinder (LRF)

The BlazeHunter thermal monocular includes a built-in Laser Range Finder for fast and precise distance measurement. This feature simplifies rangefinding, providing essential data without the need for additional devices, whether tracking wildlife or navigating rugged terrain.

Image: A thermal image of an animal with a red overlay indicating the laser rangefinder's beam, showing a distance measurement of 1000 yards, illustrating the integrated LRF function.

3.5. Large Full-Color High Definition OLED Display

Featuring a large 0.41-inch OLED display with a 1440x1080 resolution, the BlazeHunter delivers twice the pixel density of other viewers, ensuring every detail is sharp and crystal clear, giving you a significant advantage in any situation.

Image: A thermal image of an animal within a frame, with arrows pointing outwards and text indicating "LARGER DIMENSIONS" and "BETTER RESOLUTION," emphasizing the superior display quality.

3.6. Long-Lasting Battery Life

BlazeHunter's replaceable battery design, complete with two rechargeable batteries and a charger, provides users with up to 14 hours of uninterrupted operation. This extended battery life is ideal for prolonged adventures or long hunting sessions.

Image: An icon depicting two batteries with a central circle showing "14h," symbolizing the extended 14-hour battery life provided by the dual rechargeable battery system.

3.7. Lightweight and Compact Design

Compact and lightweight—under 0.8 lbs (320 grams)—the BlazeHunter fits comfortably in your hand and is effortless to carry, making it perfect for extended use without fatigue.

Image: The BlazeHunter monocular resting on a metallic disc, with a feather icon and text "LIGHTWEIGHT," visually representing its light and portable nature.

3.8. Built-in Wi-Fi for Easy Sharing

Share the experience in real-time with up to 4 people simultaneously via the app, allowing you to instantly connect and share your view or photos, no matter where you are.

Image: A graphic showing the monocular transmitting a signal to multiple devices (phone, PC, TV, tablet PC), with text "4 viewers live via Wi-Fi," illustrating its real-time sharing capability.

4. Setup

1. **Charge Batteries:** Before first use, fully charge both rechargeable batteries using the provided charger. Insert the batteries into the charger and connect the charger to a power source. The indicator light will show charging status.
2. **Install Battery:** Open the battery compartment on the BlazeHunter unit. Insert one charged battery, ensuring correct polarity. Close the compartment securely.
3. **Power On:** Press and hold the Power button (refer to the Quick Start Guide for button layout) for a few seconds until the display illuminates.
4. **Initial Focus Adjustment:** Point the monocular at an object approximately 10-20 meters away. Rotate the diopter adjustment ring (near the eyepiece) until the on-screen display and image appear sharp and clear to your eye.

5. Operating Instructions

5.1. Basic Operation

- **Power On/Off:** Press and hold the Power button.
- **Standby Mode:** A short press of the Power button will put the device into standby mode to conserve battery. Press again to wake up.
- **Zoom:** Use the designated zoom buttons (typically + and -) to adjust the digital magnification.

5.2. Changing Viewing Modes (Color Palettes)

The BlazeHunter offers six color palettes. To cycle through them, locate the dedicated palette button (refer to your Quick Start Guide for exact button location) and press it repeatedly until your desired mode (White Hot, Black Hot, High Red, Iron Red, Green Hot, Sepia) is active.

5.3. Using the Laser Rangefinder (LRF)

To activate the LRF, aim the monocular at your target. Press the LRF button (usually distinct from other controls). A reticle will appear on screen, and the distance to the target will be displayed. Ensure the target is within the LRF's effective range for accurate readings.

5.4. Recording Videos and Taking Photos

- **Video Recording:** Press the Video Record button once to start recording. Press it again to stop. A recording indicator will typically appear on the display.
- **Photo Capture:** Press the Photo Capture button (often a quick press of the Video Record button or a separate button) to take a still image.
- **Accessing Media:** Connect the device to a computer via USB-C cable or use the Wi-Fi app to access recorded videos and photos.

5.5. Wi-Fi Connectivity and App Usage

The BlazeHunter features built-in Wi-Fi for real-time streaming and media management. Download the official ATN app on your smartphone or tablet. Enable Wi-Fi on the monocular (refer to settings menu). Connect your smart device to the monocular's Wi-Fi network. Once connected, you can view live feed, control settings, and download media.

6. Maintenance

- **Cleaning Lenses:** Use the provided lens cleaning cloth or a soft, lint-free cloth specifically designed for optics. Gently wipe the lens surfaces. For stubborn smudges, use a small amount of lens cleaning solution applied to the cloth, not directly to the lens.
- **Body Cleaning:** Wipe the monocular's body with a soft, damp cloth. Avoid harsh chemicals or abrasive materials.
- **Battery Care:** Store batteries in a cool, dry place. If storing the device for extended periods, remove the battery.
- **Storage:** Store the monocular in its protective carrying case when not in use to prevent dust and physical damage. Avoid extreme temperatures and high humidity.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device does not power on	Low or uncharged battery; Incorrect battery insertion	Ensure battery is fully charged and inserted correctly. Try the second battery.
Image is blurry or out of focus	Diopter not adjusted; Lens dirty	Adjust the diopter ring. Clean the objective and eyepiece lenses.
Cannot connect to Wi-Fi	Wi-Fi not enabled on device; Incorrect password; App issues	Ensure Wi-Fi is enabled on the monocular. Verify Wi-Fi password. Restart both devices. Reinstall the app if necessary.
Laser Rangefinder not working	Target out of range; Obstruction; Low battery	Ensure target is within specified range. Clear any obstructions. Check battery level.
No video/photo recording	No storage space; SD card error (if applicable); Incorrect button press	Check available storage. Ensure memory card is properly inserted and formatted (if applicable). Refer to manual for correct button operation.

8. Specifications

Feature	Specification
Model Name	BlazeHunter
Product Dimensions	5.98 x 2.93 x 1.67 inches (15.19 x 7.44 x 4.24 cm)
Item Weight	11.3 ounces (320 Grams)
Objective Lens Diameter	35 Millimeters
Focal Length Description	3.5x
Focus Type	Auto Focus
Finderscope	Straight-Through
Batteries	1 Lithium Ion battery required (included), replaceable design with 2 batteries provided
Battery Life	Up to 14 hours
Display	0.41-inch OLED, 1440x1080 resolution
Image Sensor	Vanadium oxide uncooled focal plane detector, NETD <18mK
Connectivity	Built-in Wi-Fi, USB-C
Compatible Devices	Smartphone, Tablet

9. Warranty and Support Information

For specific warranty details, including coverage period and terms, please refer to the warranty card included with your product packaging or visit the official ATN website. Keep your proof of purchase for warranty claims.

For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact ATN customer support through their official website or the contact information provided in your product documentation. Always provide your product model and serial number when seeking support.

No official product videos from the seller were provided in the product data for embedding in this manual.

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Related Documents - BlazeHunter

	ATN X-Sight 5 Series & X-Sight 5 LRF Series Smart Day/Night Rifle Scopes User Manual This manual provides comprehensive instructions for the ATN X-Sight 5 Series and X-Sight 5 LRF Series Smart Day/Night Rifle Scopes. It covers features, specifications, device preparation, interface navigation, functions like Night Vision, Video Recording, Ballistic Calculator, Zeroing, and system settings, along with warnings, mobile app integration, and warranty information.
	ATN BinoX 4T Series: Thermal Smart HD Binoculars with Laser Rangefinder User Manual This user manual provides comprehensive information on the ATN BinoX 4T Series thermal smart HD binoculars, covering features, specifications, device preparation, interface navigation, functions, system settings, mobile application integration, and warranty details.
	ATN BlazeSeeker Series Thermal Monoculars User Manual Comprehensive user manual for the ATN BlazeSeeker Series Thermal Monoculars, detailing features, applications, setup, operation, settings, video/snapshot functions, and warranty information. Learn how to use your thermal monocular for hunting, surveillance, and outdoor observation.
	ATN BlazeSeeker Series Thermal Monoculars User Manual Comprehensive user manual for the ATN BlazeSeeker Series thermal monoculars, covering features, specifications, operation, settings, video recording, system updates, warranty, and contact information.

	ATN X-Sight 5 Series & X-Sight 5 LRF Series User Manual User manual for ATN X-Sight 5 and X-Sight 5 LRF smart day/night rifle scopes. Covers features, specifications, setup, operation, IR illuminator, interface, and functions for enhanced hunting and shooting experiences.
	ATN Auxiliary Ballistic Laser (ABL 1000/1500) Owners Manual User manual for the ATN Auxiliary Ballistic Laser (ABL 1000/1500) rangefinder, detailing its description, specifications, installation, operation, warranty, and contact information.