

ATN TIMNODN319X

ATN Odin LT 320x240 2-4x Thermal Monocular User Manual

Model: TIMNODN319X

1. INTRODUCTION

The ATN Odin LT 320x240 2-4x Thermal Monocular is a compact, ergonomic, and versatile device designed for enhanced observation in low-light or no-light conditions. Powered by ATN's Obsidian LT core, this thermal monocular provides clear and vivid thermal images, making it suitable for various outdoor activities. This manual provides essential information for the proper setup, operation, and maintenance of your device.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using this device.

- Do not look directly at the sun or any intense light source through the monocular, as this may cause permanent eye damage.
- Keep the device away from extreme temperatures, humidity, and direct sunlight.
- Avoid dropping or subjecting the monocular to severe impacts.
- Do not attempt to disassemble or modify the device. This will void the warranty and may cause damage.
- Use only the specified charging cable and power source to prevent damage to the battery and device.
- Store the monocular in a safe, dry place when not in use.

3. WHAT'S IN THE Box

Upon opening your ATN Odin LT package, you should find the following items:

- ATN Odin LT Thermal Monocular
- User Manual
- USB-C Charging Cable

- Lens Cleaning Cloth
- Eye Cup
- Lanyard (Neck Strap)
- Carrying Case

4. PRODUCT OVERVIEW

The ATN Odin LT is designed for ease of use and portability. Familiarize yourself with its components:



Figure 1: Front view of the ATN Odin LT Thermal Monocular, highlighting its compact form factor and control buttons.



Figure 2: The monocular held in hand, illustrating its ergonomic design and accessibility of controls.

Key Components:

- **Objective Lens:** The front lens that gathers thermal radiation.
- **Eyepiece:** Where you look to view the thermal image.
- **Control Buttons:** Located on the top surface for power, mode selection, and zoom.
- **USB-C Port:** For charging the internal battery.
- **Tripod Mount:** A standard thread for attaching to tripods or helmet mounts.
- **Focus Ring:** Adjusts the focus of the image.



Figure 3: Detailed view of the control buttons and the high-resolution 1280x960 display.

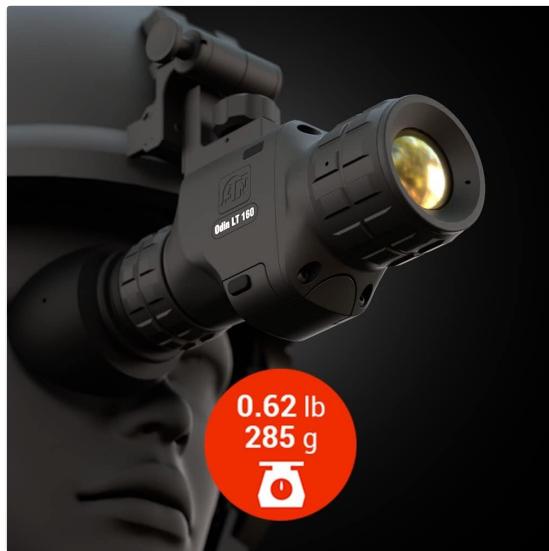


Figure 4: Illustration of the monocular's compatibility with helmet or head mounts for hands-free operation.

5. SETUP

5.1. Charging the Battery

1. Locate the USB-C port on the monocular.
2. Connect the provided USB-C cable to the monocular and a compatible power adapter (not included).
3. The charging indicator will show the charging status. Ensure the device is fully charged before first use.

5.2. Attaching the Eye Cup and Lanyard

- Gently push the rubber eye cup onto the eyepiece until it is securely fitted.
- Thread the lanyard through the designated attachment point on the monocular to prevent accidental drops.

5.3. Mounting Options

The ATN Odin LT can be used handheld, or mounted for extended use:

- **Handheld:** Ideal for quick observations and portability.
- **Helmet/Head Mounted:** Use the integrated mounting point to attach the monocular to a compatible helmet or head mount for hands-free operation.

6. OPERATING INSTRUCTIONS

6.1. Power On/Off

- To power on, press and hold the power button (usually marked with a circle and a vertical line) for a few seconds until the display activates.
- To power off, press and hold the power button again until the display shuts down.

6.2. Adjusting Focus

Rotate the focus ring located near the objective lens until the image appears sharp and clear in the eyepiece.

6.3. Changing Display Modes (Color Palettes)

The monocular offers different thermal display modes to suit various environments and preferences:

- **White Hot Mode:** Hot objects appear white, and colder objects appear darker.
- **Black Hot Mode:** Hot objects appear black, and colder objects appear lighter.

To cycle through available color palettes, briefly press the designated mode button (often a square button or one of the directional buttons). Refer to the on-screen display for current mode indication.



Figure 5: Example of White Hot and Black Hot thermal imaging modes.

6.4. Zoom Function

Use the zoom buttons (often marked with arrows) to adjust the magnification level. Press the '+' button to zoom in and the '-' button to zoom out. The current zoom level will be displayed on the screen.

7. MAINTENANCE

7.1. Cleaning the Lenses

- Use the provided lens cleaning cloth or a soft, lint-free cloth to gently wipe the objective lens and eyepiece.
- For stubborn smudges, use a small amount of lens cleaning solution specifically designed for optics.
- Avoid using abrasive materials or harsh chemicals, as these can scratch or damage the lens coatings.

7.2. General Care

- Keep the monocular dry. If it gets wet, wipe it thoroughly with a soft cloth.
- Store the device in its carrying case when not in use to protect it from dust and impacts.
- Ensure the lens caps are in place when storing or transporting the monocular.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the device using the provided USB-C cable.
Image is blurry or out of focus.	Improper focus adjustment.	Rotate the focus ring until the image is clear.
Display is dim or flickering.	Low battery or environmental factors.	Ensure the battery is fully charged. Adjust brightness settings if available.
Buttons are unresponsive.	Temporary software glitch.	Power off the device and restart it. If the issue persists, contact customer support.

9. SPECIFICATIONS

Feature	Detail
Model Name	ATN ODIN LT 320 2-4X Compact Thermal Monocular
Item Model Number	TIMNODN319X
Product Dimensions	5.16 x 2.8 x 1.81 inches (5.16"D x 2.8"W x 1.81"H)
Item Weight	1 pounds (16 ounces)
Objective Lens Diameter	19 Millimeters
Eye Piece Lens Description	Eyepiece lens diameter: 19 mm

Feature	Detail
Focus Type	Manual Focus
Finderscope	Reflex
Compatible Devices	Helmet/Head Mount
Manufacturer	ATN Corporation

10. WARRANTY AND SUPPORT

ATN products are covered by a three-year limited warranty. For detailed warranty information, product registration, or technical support, please visit the official ATN website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

ATN Customer Support: Refer to the official ATN website for the most current contact information and support resources.