

ATN Odin LT 640x480 1-4x

ATN Odin LT 640x480 1-4x 19mm Thermal Monocular User Manual

Model: Odin LT 640x480 1-4x (TIMNODN619X)

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1. INTRODUCTION

This manual provides instructions for the proper use and maintenance of your ATN Odin LT 640x480 1-4x 19mm Thermal Monocular. The Odin LT is a compact, ergonomic, and versatile thermal imaging device designed for observation. It features ATN's Obsidian LT core, offering a hands-free experience when mounted.

Key features include:

- **Obsidian LT Core:** Advanced thermal processing for clear imaging.
- **White Hot/Black Hot Mode:** Selectable color palettes for displaying thermal signatures.
- **Compact Design:** Fits comfortably in one hand for easy manipulation.
- **High-Resolution Display:** 1280x960 display for vivid images.
- **Versatile Mounting:** Handheld, helmet, or head-mounted for various observation scenarios.

2. PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are present and in good condition:

- ATN Odin LT Thermal Monocular

Note: Additional accessories such as mounts or rechargeable batteries may be sold separately.

3. PRODUCT OVERVIEW

The ATN Odin LT is designed for intuitive operation with its ergonomic form factor.



Figure 3.1: Front-side view of the ATN Odin LT Thermal Monocular, showing the objective lens and eyepiece.



Figure 3.2: Diagram illustrating key features of the Odin LT, including the Obsidian LT core, USB-C port, step zoom, ergonomic design, and lightweight construction.

3.1 Components

- **Objective Lens:** Collects thermal radiation.
- **Eyepiece:** For viewing the thermal image.

- **Control Buttons:** For power, menu navigation, and zoom.
- **USB-C Port:** For charging (with optional rechargeable battery) or data transfer.
- **Mounting Point:** For attaching to helmets or head mounts.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment on the device.
2. Open the compartment cover.
3. Insert the required batteries (type specified in specifications) according to the polarity indicators.
4. Securely close the battery compartment cover.

4.2 Mounting Options

The Odin LT can be used handheld or mounted for extended observation periods.

- **Handheld Use:** Simply hold the monocular to your eye for observation.
- **Helmet/Head Mount:** Attach the monocular to a compatible helmet or head mount using the integrated mounting point. Ensure the mount is securely fastened and adjusted for comfortable viewing.



Figure 4.1: Example of handheld use of the ATN Odin LT in an outdoor environment.



Figure 4.2: Close-up view of the monocular being used for observation.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **Power On:** Press and hold the Power button (typically marked with a power symbol) for approximately 2-3 seconds until the display illuminates.
- **Power Off:** Press and hold the Power button again for approximately 3-5 seconds until the display turns off.

5.2 Focus Adjustment

The Odin LT features manual focus. Rotate the focus ring on the objective lens until the image appears sharp and clear in the eyepiece.

5.3 Zoom Function

Utilize the step zoom feature to adjust the magnification. Refer to the device's on-screen display or specific buttons for zoom control. The monocular offers a 1-4x magnification range.

5.4 Display Modes (White Hot/Black Hot)

The Odin LT provides different thermal display modes to suit various observation conditions:

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

Cycle through these modes using the designated button (refer to your device's button layout for specifics).

6. MAINTENANCE

6.1 Cleaning

- **Lenses:** Use 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.

- **Body:** Wipe the monocular's body with a soft, damp cloth. Avoid harsh chemicals or abrasive materials.

6.2 Storage

When not in use, store the monocular in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.

7. TROUBLESHOOTING

If you encounter issues with your ATN Odin LT, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on	Dead or incorrectly installed batteries	Replace batteries or ensure correct polarity. Charge rechargeable battery if applicable.
Image is blurry	Incorrect focus adjustment	Adjust the manual focus ring on the objective lens.
No image on display	Device not powered on; display settings	Ensure device is powered on. Check brightness settings.
Short battery life	Old batteries; continuous use	Replace with fresh batteries. Reduce continuous use or use power-saving features if available.

If the problem persists after attempting these solutions, please contact ATN customer support for further assistance.

8. SPECIFICATIONS

Technical specifications for the ATN Odin LT 640x480 1-4x 19mm Thermal Monocular:

Feature	Specification
Model Name	ATN ODIN LT 640 1-4x
Item Model Number	TIMNODN619X
Resolution	640x480
Magnification	1-4x
Objective Lens Diameter	19 Millimeters
Field Of View	23.2 Degrees
Focus Type	Manual Focus
Display Resolution	1280x960
Power Source	Battery Powered
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

Feature	Specification
Compatible Devices	Helmet or Head Mount
Manufacturer	ATN Corporation




9. WARRANTY AND SUPPORT







For information regarding warranty coverage, technical support, or service, please refer to the official ATN website or contact ATN customer service directly. Keep your proof of purchase for warranty claims.

You can find more information and contact details on the [ATN Official Store](#).

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Related Documents - Odin LT 640x480 1-4x

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