

ATN TIMNODN625X

ATN Odin LT 640x480 2-8x Thermal Monocular User Manual

Model: TIMNODN625X

1. INTRODUCTION

The ATN Odin LT 640x480 2-8x is a compact, lightweight thermal monocular designed for versatile observation in various conditions. Powered by ATN's Obsidian LT core, this device provides advanced thermal imaging capabilities, allowing users to detect heat signatures in complete darkness or challenging environments. Its ergonomic design ensures comfortable handling and ease of use for extended periods.

2. WHAT'S IN THE BOX

Carefully unpack your ATN Odin LT thermal monocular and ensure all components are present:

- ATN Odin LT 640x480 2-8x Thermal Monocular
- USB-C Charging Cable
- Wrist Strap
- Soft Carrying Case
- Quick Start Guide

3. PRODUCT OVERVIEW

Familiarize yourself with the key components and controls of your ATN Odin LT monocular.

ODIN LT 640 2-8X

COMPACT THERMAL MONOCULAR



*monocular view



- ATN OBSIDIAN LT CORE
- USB C PORT IN OPTIONAL RECHARGEABLE BATTERY
- STEP ZOOM
- ERGONOMIC DESIGN
- LIGHT WEIGHT



Image 3.1: Overview of the ATN Odin LT thermal monocular, highlighting its compact design, USB-C port, and control buttons. The image also shows a simulated monocular view of a distant scene.

3.1. Components

- **Objective Lens:** Front lens for thermal image capture.
- **Eyepiece:** Adjustable for comfortable viewing.
- **Control Buttons:** For power, menu navigation, and zoom.
- **USB-C Port:** For charging and data transfer.
- **Battery Compartment:** Houses the power source.

3.2. Controls

- **Power Button:** Press and hold to turn the device On/Off. A short press may activate standby mode.
- **Menu Button:** Accesses the device's settings and options.
- **Zoom Buttons:** Adjusts the magnification level (Step Zoom).
- **Focus Ring:** Located on the objective lens, used for manual focus adjustment.

4. SETUP

4.1. Battery Installation and Charging

1. Locate the battery compartment cover, typically on the side or bottom of the monocular.
2. Open the cover and insert the required 123A batteries, ensuring correct polarity (+/-).
3. Close the battery compartment cover securely.

4. For initial use or if the battery is low, connect the USB-C charging cable to the monocular's USB-C port and a power source. The charging indicator will show the charging status.

4.2. Initial Power On

1. Press and hold the Power Button for approximately 3-5 seconds until the ATN logo appears on the display.
2. Allow the device to initialize. This may take a few seconds.

4.3. Focus Adjustment

1. Look through the eyepiece.
2. Rotate the focus ring on the objective lens until the image appears sharp and clear.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off and Standby

- **Power On:** Press and hold the Power Button until the display activates.
- **Power Off:** Press and hold the Power Button until the device shuts down.
- **Standby Mode:** A short press of the Power Button will put the device into standby, conserving battery while allowing for quick reactivation.

5.2. Changing Color Palettes (White Hot/Black Hot)

The Odin LT offers different color palettes to suit various observation needs:

- **White Hot:** Hot objects appear white, and colder objects appear black. This is a common and often preferred mode for general detection.
- **Black Hot:** Hot objects appear black, and colder objects appear white. This mode can be useful for reducing eye strain during prolonged observation.

To switch between palettes, navigate through the menu using the Menu Button and select the desired option.

5.3. Zoom Operation

The monocular features a 2-8x magnification range with a Step Zoom function.

- Use the dedicated Zoom Buttons to increase or decrease the magnification in predefined steps.
- Adjust the zoom level to optimize your field of view and target identification.



Image 5.1: A user demonstrating handheld operation of the ATN Odin LT thermal monocular in an outdoor setting.



Image 5.2: Close-up of a user observing through the ATN Odin LT thermal monocular, highlighting its ergonomic design for eye-level use.

5.4. Mounting Options

The ATN Odin LT is designed for versatile use:

- **Handheld:** The compact and lightweight design allows for comfortable handheld observation.

- **Helmet Mounted:** Compatible with various helmet mounts for hands-free operation.
- **Head Mounted:** Can be attached to head mounts for extended comfortable observation.

6. MAINTENANCE

6.1. Cleaning the Lenses

To maintain optimal image quality, keep the objective and eyepiece lenses clean.

- Use a soft, lint-free cloth specifically designed for optics.
- Gently wipe the lens surfaces to remove dust and smudges.
- For stubborn dirt, use a small amount of lens cleaning solution applied to the cloth, not directly to the lens.
- Avoid abrasive materials or harsh chemicals, as these can damage the lens coatings.

6.2. Battery Care

- Always use high-quality 123A batteries.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Recharge optional rechargeable batteries as needed, avoiding complete discharge for optimal battery life.

6.3. Storage

Store the monocular in its protective carrying case in a cool, dry place away from direct sunlight and extreme temperatures. Ensure the lenses are covered to prevent dust accumulation.

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.	Low or depleted batteries; incorrectly installed batteries.	Replace batteries with fresh ones or recharge if using rechargeable batteries. Ensure correct polarity.
Image is blurry or out of focus.	Incorrect focus adjustment.	Adjust the focus ring on the objective lens until the image is clear.
Display shows artifacts or dead pixels.	Manufacturing defect or sensor issue.	Contact ATN customer support for assistance.
Short battery life.	Old or low-quality batteries; frequent use of high brightness/zoom.	Use new, high-quality batteries. Reduce brightness or zoom when not critical.

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

8. SPECIFICATIONS

Detailed technical specifications for the ATN Odin LT 640x480 2-8x Thermal Monocular:

Feature	Description
Brand	ATN
Model Name	ATN ODIN LT 640 2-8x
Objective Lens Diameter	25 Millimeters
Product Dimensions (D x W x H)	5.16"D x 2.8"W x 1.81"H
Focus Type	Manual Focus
Finderscope	Reflex
Item Weight	1 Pound
Compatible Devices	Rifle, Shotgun, Handgun (for mounting purposes)
Focal Length Description	2-8x
Field Of View	22.27 Degrees
Zoom Ratio	2x-8x
Additional Features	Advanced Thermal Imaging with Long-Distance Target Identification and High-Resolution Display, Head/Helmet Mountable
Global Trade Identification Number (GTIN)	00658175123729
Manufacturer	ATN Corporation
UPC	658175123729
Model Number	TIMNODN625X
Built-In Media	Monocular

9. WARRANTY AND SUPPORT

9.1. Manufacturer's Warranty

The ATN Odin LT 640x480 2-8x Thermal Monocular is covered by a **3-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9.2. Customer Support

For technical assistance, warranty claims, or any questions regarding your ATN Odin LT monocular, please contact ATN customer support through their official website or the contact information provided with your product packaging.

