

Leupold 177187

LTO-Tracker 2 Thermal Viewer Instruction Manual

Brand: Leupold

1. PRODUCT OVERVIEW

The Leupold LTO-Tracker 2 is a compact and lightweight thermal viewer designed to enhance your outdoor experience, whether for hunting, tracking, or general observation. It allows you to detect heat signatures from game, blood trails, and other objects, both day and night. Its robust design and advanced features make it a reliable companion in various conditions.

A key feature is the new **Beacon mode**, which recalibrates the screen to improve daytime use, making it easier to identify objects with similar heat signatures to their backgrounds. Built with a durable aluminum housing and a Gorilla Glass display, the LTO-Tracker 2 is designed for rugged field use.



Figure 1: The Leupold LTO-Tracker 2 Thermal Viewer, a compact and durable device for detecting heat signatures.

2. KEY FEATURES

- **Model Number:** 177187
- **Durability:** 100% waterproof, fog proof, and shockproof construction.
- **Detection Range:** Up to 600-yard detection range.
- **Display:** 240 x 204 resolution display with Gorilla Glass for enhanced durability.
- **Construction:** Lightweight and rugged aluminum housing.
- **Zoom:** 7x digital zoom for improved identification at longer distances.
- **Color Palettes:** Six different thermal color palette options.
- **Origin:** Designed, machined, and assembled in the USA.
- **Special Mode:** Beacon mode for improved daytime visibility.

3. SETUP

The LTO-Tracker 2 is designed for quick and easy setup, allowing you to get it ready for use in minimal time.

3.1. Battery Installation

The LTO-Tracker 2 operates on a single CR123 battery. To install the battery:

1. Locate the battery cap, typically at the rear or side of the device.
2. Unscrew the battery cap counter-clockwise.
3. Insert a fresh CR123 battery with the positive (+) end facing inward, as indicated by the diagram near the battery compartment.
4. Screw the battery cap back on clockwise until it is finger-tight to ensure a waterproof seal.

3.2. Initial Power On

After battery installation, press and hold the power button (refer to the device's physical buttons for exact location) for approximately 2-3 seconds until the display illuminates. The device will perform a brief startup sequence, typically taking about 5 seconds, before displaying the thermal image.



Figure 2: The LTO-Tracker 2 in use, demonstrating its compact size and clear thermal display.

4. OPERATING INSTRUCTIONS

The LTO-Tracker 2 features intuitive controls for easy operation in the field.

4.1. Power On/Off

- **To Power On:** Press and hold the power button until the display activates.
- **To Power Off:** Press and hold the power button until the display shuts down.

4.2. Mode Selection

The LTO-Tracker 2 typically has buttons for navigating menus and selecting modes. Consult the physical buttons on your device for specific functions (e.g., a central button for menu, and directional buttons for navigation).

4.3. Digital Zoom

The device features a 7x digital zoom. Use the designated zoom buttons (often marked with '+' and '-') to magnify or reduce the thermal image. Note that digital zoom may reduce image clarity at higher magnifications.

4.4. Beacon Mode

Activate Beacon mode to recalibrate the screen, which helps improve visibility and object identification during daylight hours, especially when heat signatures are subtle or blend with the background.

4.5. Color Palettes

The LTO-Tracker 2 offers six distinct color palettes to optimize viewing for different environments and preferences. Cycle through these palettes using the dedicated palette selection button to find the best contrast for your situation.

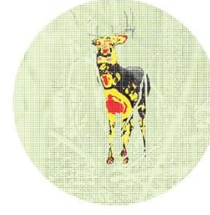
Six Selectable Color Palettes



Hi-Black



Hi-White



Hi/Lo Green



Black



White



Green

Figure 3: The six selectable color palettes available on the LTO-Tracker 2, including Hi-Black, Hi-White, Hi/Lo Green, Black, White, and Green.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your LTO-Tracker 2.

5.1. Cleaning

- **Lenses:** Use a soft, lint-free cloth specifically designed for optics. Gently wipe away dust and debris. For stubborn smudges, use a small amount of lens cleaning solution applied to the cloth, not directly to the lens.
- **Body:** Wipe the device body with a clean, damp cloth. Avoid abrasive cleaners or solvents.

5.2. Storage

- Store the LTO-Tracker 2 in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, remove the battery to prevent leakage and potential damage to the device.

5.3. Battery Care

- Always use high-quality CR123 batteries.
- Replace batteries when the low battery indicator appears to ensure consistent performance.
- Dispose of used batteries responsibly according to local regulations.

6. TROUBLESHOOTING

If you encounter issues with your LTO-Tracker 2, refer to the following common troubleshooting steps:

- **Device Not Powering On:**

- Ensure the battery is correctly installed with the correct polarity.
- Replace the battery with a fresh one.
- Check that the battery cap is securely tightened.

- **Blurry or Distorted Image:**

- Clean the objective lens and eyepiece with a suitable lens cloth.
- Power the device off and then on again to reset the display.
- Ensure the device is operating within its specified temperature range (-40°F to 572°F).

- **Poor Thermal Detection:**

- Adjust the color palette to one that provides better contrast for your environment.
- Ensure there are no obstructions in front of the lens.
- Consider the distance to the target; detection range is up to 600 yards, but identification clarity decreases with distance.

- **Buttons Unresponsive:**

- Power cycle the device.
- Ensure no debris is lodged around the buttons.

If problems persist after attempting these steps, please contact Leupold customer support for further assistance.

7. TECHNICAL SPECIFICATIONS



Description	LTO-Tracker 2
Model Number	177187
Color Palettes	6
Battery Life	10 Hours
Detection Distance	600-Yards
Digital Zoom	7x
Display	1.2" Flat Bottom AMOLED
Display Resolution	240x204 Pixels
Field Of View	14°
Frame Rate	30Hz
Operating Temperature	-40°F - 572°F
Startup Time	5 Seconds
Thermal Sensor	206x156 Pixels
Weight (oz)	7

Figure 4: Detailed technical specifications for the LTO-Tracker 2.

Specification	Value
Model Name	177187
Color Palettes	6
Battery Life	10 Hours (approx.)
Detection Distance	600 Yards
Digital Zoom	7x
Display	1.2" Flat Bottom AMOLED
Display Resolution	240x204 Pixels
Field of View	14°
Frame Rate	30Hz
Operating Temperature	-40°F - 572°F

Specification	Value
Startup Time	5 Seconds
Thermal Sensor	206x156 Pixels
Weight	7 oz (approx. 0.44 lbs)
Material	Aluminum
Night Vision	Yes






				
Series Comparison — Handheld Thermal				
	LTO-Quest	LTO-Quest HD	LTO-Tracker 2	LTO-Tracker 2 HD
Price	\$	\$\$	\$\$\$	\$\$\$\$
Number of Color Palettes	8	8	6	6
Resolution Display	320x240 Pixels	320x240 Pixels	240x204 Pixels	390x390 Pixels
Detection Distance	300-Yards	400-Yards	600-Yards	750-Yards
100% Waterproof	No	No	Yes	Yes
Warranty				
Designed, Machined & Assembled in USA	No	No	Yes	Yes

Figure 5: Comparison of LTO-Tracker series handheld thermal devices, highlighting differences in resolution, detection distance, and features.

8. WARRANTY AND SUPPORT

8.1. Warranty Information

The Leupold LTO-Tracker 2 Thermal Viewer is covered by **Leupold's Gold Ring 2-Year Electronics Warranty**. This warranty covers defects in materials and workmanship for a period of two years from the date of purchase. Please retain your proof of purchase for warranty claims.

8.2. Customer Support

For technical assistance, service, or warranty claims, please contact Leupold customer support. You can find contact information and additional resources on the official Leupold website:

[Visit the Official Leupold Store on Amazon](#)

Please have your product model number (177187) and purchase details ready when contacting support.

Documents - Leupold – 177187



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[\[pdf\] Warranty Catalog](#)

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lang:en score:18 filesize: 10.95 M page_count: 139 document date: 2019-02-19