Pulsar PL77431

Pulsar Helion 2 XP50 Pro Thermal Monocular User Manual

Model: PL77431

Introduction

This manual provides comprehensive instructions for the safe and effective use of your Pulsar Helion 2 XP50 Pro Thermal Monocular. Please read this manual thoroughly before operating the device to ensure optimal performance and longevity.

The Pulsar Helion 2 XP50 Pro is a high-performance thermal monocular designed for various applications, including hunting, ranching, security, and search and rescue operations. It features advanced thermal sensitivity, high-quality optics, and integrated recording capabilities.



Figure 1: Front view of the Pulsar Helion 2 XP50 Pro Thermal Monocular. This image shows the objective lens and control buttons on top.

What's in the Box

Upon unpacking, please verify that all items listed below are present:

- Helion 2 thermal imager
- IPS7 Battery Pack
- Battery Pack charger with mains adapter
- USB cable
- Carrying case
- Hand strap
- Quick start guide
- Lens-cleaning cloth
- Warranty sheet

Setup

1. Battery Installation and Charging

The Helion 2 XP50 Pro uses an IPS7 Battery Pack. Ensure the battery is fully charged before first use.

1. Insert the IPS7 Battery Pack into the designated compartment on the monocular. Ensure it clicks securely into place.
2. Connect the battery pack to the charger using the provided USB cable.
3. Plug the mains adapter into a power outlet. The charging indicator on the battery pack will show charging status.

4. A full charge typically takes several hours. Disconnect once fully charged.

2. Attaching the Hand Strap

Attach the hand strap for secure handling and to prevent accidental drops.

1. Locate the strap attachment points on the side of the monocular.
2. Thread the hand strap through the attachment points and secure it according to the strap's design.



Figure 2: The Pulsar Helion 2 XP50 Pro with the hand strap attached, demonstrating secure handling.

Operating Instructions

1. Power On/Off

- To power on: Press and hold the power button (usually marked with a blue icon) until the display illuminates.
- To power off: Press and hold the power button until the device shuts down.



Figure 3: Top view of the monocular, highlighting the control buttons including the blue power button.

2. Focus Adjustment

Adjust the focus for a clear image:

- **Eyepiece Focus:** Rotate the diopter adjustment ring near the eyepiece to sharpen the image for your vision.
- **Objective Lens Focus:** Rotate the objective lens focus ring to bring distant objects into sharp focus.



Figure 4: Close-up view of the eyepiece, showing the diopter adjustment ring.

3. Magnification Adjustment

The Helion 2 XP50 Pro features 2.5-20x variable magnification with digital zoom up to 8x.

- Use the zoom buttons (refer to quick start guide for specific button layout) to adjust magnification gradually in 2x steps or continuously.

4. Color Palettes

The device offers 8 color palettes to optimize viewing for different conditions and preferences.

- Navigate through the menu to select your desired color palette (e.g., White Hot, Black Hot, Red Hot, Rainbow).

5. Recording and Storage

The monocular has built-in recording with sound and 16GB of internal memory.

- Press the record button to start/stop video recording.
- Press the photo button to capture still images.
- Connect the device to a computer via USB to transfer recorded files.

6. Wi-Fi Connectivity and Stream Vision App

Connect your monocular to the Stream Vision app for enhanced functionality.

- Enable Wi-Fi on the monocular through the device menu.
- Download and install the Stream Vision app on your smartphone (compatible with iOS and Android).
- Follow the app's instructions to connect to your Helion 2 XP50 Pro. This allows for remote control, live streaming, and file sharing.

Maintenance

1. Cleaning the Device

- Use the provided lens-cleaning cloth to gently wipe the objective and eyepiece lenses. Avoid abrasive materials.
- For the device body, use a soft, damp cloth. Do not use harsh chemicals or solvents.

2. Battery Care

- Store the battery pack in a cool, dry place when not in use.
- Avoid fully discharging the battery for extended periods.
- If storing for a long time, charge the battery to approximately 50% capacity.

3. Storage

- Store the monocular in its carrying case to protect it from dust and physical damage.
- Keep the device in a dry environment, away from extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Battery is discharged or not properly installed.	Charge the battery. Ensure the battery pack is securely inserted.
Image is blurry.	Focus not adjusted correctly.	Adjust both eyepiece and objective lens focus rings.
Wi-Fi connection issues.	Wi-Fi not enabled on device; app not updated; interference.	Ensure Wi-Fi is enabled. Update Stream Vision app. Move away from sources of interference.
Recorded videos/photos not appearing on computer.	USB cable issue; incorrect connection mode.	Try a different USB cable. Ensure the device is in data transfer mode when connected to PC.

Specifications

Feature	Detail
Model Name	Helion 2 XP50 Pro
Item Model Number	PL77431
Thermal Sensitivity (NETD)	<25mK
Display Type	1024x768 AMOLED
Magnification	2.5-20x (8x digital zoom)

Feature	Detail
Objective Lens Diameter	50mm
Detection Range	Up to 2000 yards
Internal Memory	16GB
Color Palettes	8
Wi-Fi Connectivity	Yes (Stream Vision app compatible)
Housing Material	Magnesium Alloy
Waterproof Rating	IPX7
Product Dimensions	9.5 x 2.9 x 2.3 inches
Item Weight	1.1 pounds
Power Source	Battery Powered (1 Product Specific battery included)



Figure 5: The Pulsar Helion 2 XP50 Pro with its objective lens cap open, ready for use.

Warranty Information

Please refer to the included warranty sheet for detailed information regarding your product's warranty coverage. Keep your proof of purchase for any warranty claims.

Support and Contact

For technical support, service, or additional information, please visit the official Pulsar website or contact their customer

service department. Contact details can typically be found on the warranty sheet or the manufacturer's website.
Manufacturer: Sellmark Corporation
Brand Store: Pulsar Night Vision Store on Amazon

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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