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Pard NS4E-70/940/LRF

PARD Night Stalker 4K eX-LRF Night Vision Scope User Manual

Model: NS4E-70/940/LRF

1. Product Overview

The PARD Night Stalker 4K eX-LRF is an advanced digital night vision scope designed for enhanced observation and recording capabilities in various light conditions. It features a 4K Ultra HD sensor, a high-resolution OLED display, and an integrated 1000m laser rangefinder. This device is built for precision and durability, offering a wide field of view and improved low-light sensitivity.

Key Features:

- **4K 3840 x 2160 Resolution Sensor:** Provides high-definition imaging with 2.9 µm pixel size and 0.001 lux sensitivity for superior low-light performance.
- **High-Definition OLED Display:** Features a 2560 x 2560 round display with 6 reticle styles and 4 color options for clear visuals.
- **Integrated 1000m Laser Rangefinder (LRF):** Allows for precise distance measurement.
- **Ballistic Calculator:** Assists in trajectory parameter calculations for improved accuracy.
- **Video Recording:** Supports automatic recording with audio, loop recording, and timestamp functions.
- **Dual Battery System:** Includes an integrated 21700 battery and a replaceable 18650 battery for up to 14 hours of continuous use.
- **Detachable LRF and IR Module:** Offers customization and weight reduction when certain functions are not needed.
- **Ergonomic Design:** Features a grooved button design and magnetic lens cap for easy operation, even with gloves.
- **Wi-Fi Connectivity:** For data transfer and remote control (details in operating section).



Figure 1.1: Front view of the PARD Night Stalker 4K eX-LRF Night Vision Scope.



Figure 1.2: Rear view of the PARD Night Stalker 4K eX-LRF Night Vision Scope, showing the eyepiece and controls.

2. Setup

2.1 Unboxing and Components

Carefully unpack all items from the box. Verify that all components are present:

- PARD Night Stalker 4K eX-LRF Scope
- Mounting Rings
- USB Cable
- Lens Cleaning Cloth
- Hex Keys
- Protective Case
- User Manual (this document)
- Warranty Card



Figure 2.1: PARD Night Stalker 4K eX-LRF Night Vision Scope with all included accessories.

2.2 Battery Installation

The device uses a dual battery system: an integrated 21700 battery and a replaceable 18650 battery. Ensure both are charged before first use.

1. Locate the external battery compartment.
2. Insert the 18650 battery with the correct polarity.
3. Close the battery compartment securely.
4. The integrated 21700 battery is factory installed and charged via the USB port.

2.3 Mounting the Scope

The Night Stalker 4K eX-LRF is designed for Picatinny rail mounting.

1. Attach the provided mounting rings to your Picatinny rail.
2. Place the scope into the rings, ensuring proper eye relief and alignment.
3. Securely tighten the mounting rings using the hex keys. Do not overtighten.

2.4 Attaching the Detachable LRF and IR Module

The Laser Rangefinder (LRF) and Infrared (IR) module can be attached or detached based on mission requirements.

1. Align the module with its designated port on the scope.
2. Gently push and secure the module until it clicks into place.
3. To detach, press the release button (if present) and pull the module away.

3. Operating Instructions

3.1 Power On/Off

- **Power On:** Press and hold the power button (usually located on the top or side) for a few seconds until the display illuminates.
- **Power Off:** Press and hold the power button again until the display shuts down.

3.2 Basic Controls and Display

Familiarize yourself with the control buttons and the side focus knob. The round OLED display provides crisp images and various information.

- **Side Focus Knob:** Rotate to adjust image clarity for different distances.
- **Menu Button:** Access the main settings menu.
- **Navigation Buttons:** Use to navigate through menu options and adjust settings.
- **Day/Night Mode:** Switch between color (day) and black & white (night) modes.



Figure 3.1: Comparison of Day (color) and Night (monochrome) vision modes.

3.3 Zoom and Picture-in-Picture (PIP)

- **Optical Zoom:** The scope features a 5.5x optical zoom (70mm objective lens).
- **Digital Zoom:** Use the designated buttons to apply up to 2x digital zoom for closer target acquisition.
- **PIP Mode:** Activate Picture-in-Picture mode to display a magnified area of the target simultaneously with the full field of view.

3.4 Laser Rangefinder (LRF) and Ballistic Calculator

The integrated LRF can measure distances up to 1000m, and the ballistic calculator aids in shot placement.

1. **Using LRF:** Aim the reticle at the target and press the LRF button. The distance will be displayed on the screen.
2. **Ballistic Calculator:** Access the ballistic calculator from the menu. Input parameters such as bullet velocity, weight, and zero range. The system will provide precise aiming points.

3.5 Video Recording and Wi-Fi

- **Recording:** Press the record button to start/stop video recording. The device supports automatic recording, loop recording, and includes audio and timestamp features.
- **Wi-Fi:** Enable Wi-Fi from the menu to connect the scope to a smartphone or tablet using the dedicated PARD app. This allows for live view, remote control, and media transfer.

4. Maintenance

4.1 Cleaning

- **Lenses:** Use the provided lens cleaning cloth or a soft, lint-free cloth with a specialized lens cleaning solution. Avoid abrasive materials.
- **Body:** Wipe the scope's body with a damp cloth. Do not use harsh chemicals or solvents.

4.2 Battery Care

- Charge batteries fully before extended storage.
- Store the device and batteries in a cool, dry place.
- Avoid extreme temperatures.

4.3 Waterproofing

The Night Stalker 4K eX-LRF is designed to be waterproof. Ensure all caps and covers are securely closed before exposing the device to moisture.

5. Troubleshooting

If you encounter issues, refer to the following common solutions:

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery; incorrect battery installation.	Charge batteries fully. Reinstall batteries, ensuring correct polarity.
Image is blurry.	Improper focus adjustment; dirty lens.	Adjust the side focus knob. Clean the objective and eyepiece lenses.
LRF not working.	Module not properly attached; obstruction.	Ensure the LRF module is securely attached. Clear any obstructions from the LRF emitter/receiver.
Wi-Fi connection issues.	Wi-Fi not enabled; app not updated.	Enable Wi-Fi in the scope's menu. Ensure the PARD app is updated to the latest version.

6. Specifications

Feature	Detail
Model Number	NS4E-70/940/LRF
Sensor Resolution	4K (3840 x 2160) CMOS
Pixel Size	2.9 µm

Feature	Detail
Low Light Sensitivity	0.001 lux
Display Type	OLED
Display Resolution	2560 x 2560 (Round)
Optical Magnification	5.5x
Digital Magnification	Up to 22x (5.5x optical + 4x digital)
Objective Lens Diameter	70 mm
Laser Rangefinder Range	1000 m
Frame Rate (Color Mode)	60 Hz
Battery Type	Integrated 21700 + Replaceable 18650 Lithium-ion
Operating Time	Up to 14 hours
Material	Aluminum
Dimensions (L x W x H)	36.1 x 8.7 x 7.3 cm
Weight	896 grams
Mounting Type	Picatinny Mount
Reticle Type	BDC (Ballistic Drop Compensator)

7. Warranty & Support

7.1 Warranty Information

PARD offers a **1-year limited warranty** covering any manufacturer defects. This warranty ensures that your device is free from defects in materials and workmanship under normal use during the warranty period.
For warranty claims or service, please retain your proof of purchase and contact PARD customer support. PARD has service centers in the USA, Europe, and the UK to provide maintenance services.

7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or general inquiries, please visit the official PARD website or contact their customer support team. Refer to the contact information provided on the warranty card or product packaging.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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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