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PARD NV008SP2-LRF

Pard NV008SP2-LRF Night Vision Monocular Instruction Manual

Model: NV008SP2-LRF IR 940nm

1. INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of your Pard NV008SP2-LRF Night Vision Monocular. This device is designed for various applications including hunting, surveillance, and animal observation, offering both daytime color and nighttime vision capabilities.

The NV008SP2-LRF features a robust aluminum body, 1080p resolution for both day and night viewing, and integrated infrared (IR) illumination. It can be used as a handheld monocular or mounted on a rifle using the included rails.

2. KEY FEATURES

- 1200M Laser Rangefinder:** Accurately measures distances up to 1200 meters.
- Integrated IR Illuminator:** 940nm IR wavelength provides illumination up to 350 meters, suitable for discreet observation.
- Ballistic Calculator:** Assists in precise shot placement by accounting for range, angle, temperature, and humidity.
- Visible Light Enhancement Algorithm (VLEA):** Improves image clarity and detail for sharper visuals.
- Picture-in-Picture (PIP) Mode:** Displays an enlarged view of the target within a smaller frame, allowing simultaneous monitoring of the full field of view.
- One-Shot Zero Function:** Simplifies sighting-in by allowing quick adjustment of the reticle to the point of impact.
- Recoil Activated Video (RAV):** Automatically records video when recoil is detected, storing footage on a Micro SD card.
- Adjustable Magnification:** Offers 6.5-13x magnification with a 70mm objective lens.
- Foldable Front Lens Cap:** Protects the lens from dust and scratches.
- Smart Focusing Lever:** Provides precise and controlled focus adjustments.

3. PRODUCT OVERVIEW

The Pard NV008SP2-LRF is a compact and durable night vision monocular. Familiarize yourself with its components before operation.



Figure 3.1: Front-side view of the Pard NV008SP2-LRF Night Vision Monocular, showing the objective lens, IR illuminator, and control buttons.



Figure 3.2: Rear-side view of the Pard NV008SP2-LRF, highlighting the eyepiece and control panel.



Figure 3.3: The NV008SP2-LRF monocular displayed with its standard accessories, including mounting rails, USB cable, and carrying pouch.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment.
2. Insert one 18650 Lithium Ion battery, ensuring correct polarity.
3. Securely close the battery compartment.

4.2 Mounting (Optional)

The NV008SP2-LRF can be mounted on a rifle using the provided rails. Follow the instructions specific to your rifle's mounting system to ensure a secure attachment.

- Attach the appropriate mounting rail to the device.
- Secure the device to your rifle's rail system.
- Ensure all screws are tightened to prevent movement during use.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press and hold the power button to turn the device on or off.

5.2 Day and Night Mode

The device automatically switches between day (color) and night (black and white) modes based on ambient light conditions. Manual switching may also be available via the menu.



Figure 5.1: Visual representation of the device's capability to display images in color during the day and in black and white for night vision.

5.3 Focusing

Adjust the focus ring on the objective lens to achieve a clear image. Use the smart focusing lever for fine adjustments. The device has a focusing range from 3cm to infinity.

5.4 Magnification Adjustment

Use the magnification controls to adjust the zoom level between 6.5x and 13x.

5.5 IR Illuminator Operation

Activate the integrated 940nm IR illuminator for enhanced visibility in low-light or complete darkness. Adjust the IR power as needed. The IR lighting distance is up to 350 meters.

5.6 Laser Rangefinder (LRF)

To measure distance, activate the LRF function. Aim the reticle at the target and press the LRF button. The distance will be displayed on the screen, up to 1200 meters.

5.7 Ballistic Calculator

Access the ballistic calculator through the device menu. Input relevant data such as range, angle to target, temperature, and humidity to assist in calculating precise aiming points. Multiple profiles can be saved for different ammunition or rifle setups.

5.8 Picture-in-Picture (PIP) Mode

Enable PIP mode from the menu to display a magnified view of the central target area within a smaller window on the main screen, allowing for detailed observation while maintaining situational awareness.

5.9 One-Shot Zero

For sighting-in, fire a shot at a target. Without moving the device, navigate to the One-Shot Zero function in the menu and adjust the reticle to align with the point of impact. Save the settings.

5.10 Video Recording

The device supports MP4 video recording at 1920x1080 resolution and 30 fps. Insert a Micro SD card (not included) into the designated slot to store recordings.

- **Manual Recording:** Press the record button to start and stop video recording.

- **Recoil Activated Video (RAV):** Enable RAV in the settings. The device will continuously buffer video and automatically save a clip when recoil is detected.

5.11 Wi-Fi Connectivity

The device supports Wi-Fi for data transmission. Refer to the device's on-screen menu for instructions on connecting to a Wi-Fi network and accessing features like live view or file transfer via a compatible application.

6. MAINTENANCE

6.1 Cleaning

- Use a soft, lint-free cloth to clean the exterior of the device.
- For lenses, use a specialized lens cleaning cloth and solution. Avoid abrasive materials.
- Do not use harsh chemicals or solvents.

6.2 Storage

- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- Remove the battery if storing for extended periods to prevent leakage.
- Keep the lens cap on to protect the objective lens.

7. TROUBLESHOOTING

- **Device does not power on:**
 - Ensure the battery is correctly installed and fully charged.
 - Check battery contacts for corrosion.
- **Image is blurry:**
 - Adjust the focus ring on the objective lens.
 - Clean the objective and eyepiece lenses.
- **IR illuminator not working:**
 - Ensure the IR illuminator is enabled in the settings.
 - Check battery level.
- **Cannot record video:**
 - Verify that a Micro SD card is inserted.
 - Check if the SD card has sufficient free space.
 - Ensure the SD card is formatted correctly (refer to device menu).

8. SPECIFICATIONS

Feature	Detail
Model	NV008SP2-LRF
Magnification	6.5-13x

Objective Lens Diameter	70 mm
Eyepiece Resolution	1024x768
Video Resolution	1920x1080 (Full HD)
Frame Rate	30 fps
Video Output Type	AVI
IR Wavelength	940nm
IR Lighting Distance	350m
Laser Rangefinder Range	3.5-1200m
Focusing Range	3cm - ∞
Storage Type	Micro SD Card
Battery Type	1x 18650 Lithium Ion (included)
Battery Life	Up to 8 hours (MAX)
Material	Aluminum
Dimensions (L x W x H)	182 x 70 x 53.5 mm
Weight	445 g
Transmission Method	Wi-Fi

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official PARD website. Keep your purchase receipt for warranty claims.

PARD produces night vision and thermal imaging devices. For further assistance, contact PARD customer service.

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Related Documents - NV008SP2-LRF

 PARD FD1-LRF Series Digital Night Vision Front Clip-on User Manual	<p>PARD FD1-LRF Series Digital Night Vision Front Clip-on User Manual</p> <p>User manual for the PARD FD1-LRF Series Digital Night Vision Front Clip-on device, covering introduction, precautions, specifications, installation, operation, functions, and FCC warnings.</p>
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 PARD NV008 LRF DIGITAL RIFLESCOPE/SPOTTER <i>Operating Manual Ver 1.1 2023-01-01</i>	<p>PARD NV008 LRF Digital Riflescope & Spotter: Operating Manual and Guide</p> <p>Comprehensive operating manual for the PARD NV008 LRF Digital Riflescope and Spotter. Learn about setup, features, functions, and maintenance for this advanced optical device.</p>
 PARD NV007 Night Vision <i>Operation Manual</i>	<p>PARD NV007 Night Vision Monocular - Operation Manual & Specifications</p> <p>This document provides the operation manual and specifications for the PARD NV007 Night Vision monocular. It covers setup, usage, features like IR illumination and laser ranging, menu options, and technical details.</p>
 PARD <i>Digital night vision NV007V Quick Start Guide</i>	<p>PARD NV007V Digital Night Vision Quick Start Guide</p> <p>A comprehensive guide to the PARD NV007V digital night vision device, covering package contents, components, installation, key features, precautions, and specifications. Includes multilingual instructions.</p>
 PARD <i>Night Vision Device NV007SP Series QUICK START GUIDE</i>	<p>PARD NV007SP Series Quick Start Guide - Night Vision Device</p> <p>Get started quickly with the PARD NV007SP Series Night Vision Device. This guide provides essential information on setup, operation, and specifications for your PARD night vision device.</p>
 PARD <i>Thermal Imaging SA32/SA62 LRF User Manual</i>	<p>PARD SA32/SA62 LRF Thermal Imaging Device User Manual</p> <p>Comprehensive user manual for the PARD SA32/SA62 LRF thermal imaging device, covering features, specifications, installation, operation, and settings.</p>