Pard NV008SPLRF-850nm

PARD NV008SPLRF-850nm Night Vision Scope User Manual

Model: NV008SPLRF-850nm | Brand: Pard

1. Introduction

The PARD NV008SPLRF-850nm is a state-of-the-art digital night vision scope engineered for superior performance in low-light and no-light conditions. Ideal for hunting, surveillance, and animal observation, this device integrates advanced features such as a long-distance rangefinder, powerful IR illuminator, and a ballistic calculator to enhance accuracy and user experience. This manual will guide you through the proper setup, operation, and maintenance of your new night vision scope.

2. Safety Information

- **Do not look directly at the IR illuminator:** The infrared light is invisible to the naked eye but can cause eye damage if viewed directly at close range.
- **Battery Safety:** Use only recommended 18650 rechargeable batteries. Do not expose batteries to extreme temperatures or dispose of them in fire. Ensure correct polarity when inserting batteries.
- **Handle with Care:** This device contains sensitive electronic components. Avoid dropping or subjecting it to severe impacts.
- **Water Resistance:** While designed to be water-resistant, avoid submerging the device in water. Ensure all caps and covers are securely closed before exposure to moisture.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.

3. Package Contents

Please check the package contents upon opening to ensure all items are present and in good condition.

- PARD NV008SPLRF-850nm Night Vision Scope
- Weaver Mount
- Type-C Charging Cable
- User Manual
- Warranty Card
- Velvet Pouch
- Neck Strap
- Hex Wrenches and Screws

Figure 3.1: Contents of the PARD NV008SPLRF-850nm package, including the scope, mount, cables, and documentation.

4. Product Overview

Familiarize yourself with the main components of your PARD NV008SPLRF-850nm Night Vision Scope.

Figure 4.1: Front view of the PARD NV008SPLRF-850nm Night Vision Scope.

Figure 4.2: Top view showing the control buttons and overall design of the scope.

Figure 4.3: Rear view of the scope, highlighting the eyepiece and focus ring.

Key Components:

- **Objective Lens:** Front lens for light collection.
- **Eyepiece:** Where you view the image. Features a diopter adjustment for clear focus.
- **Control Buttons:** Located on top for menu navigation, power, zoom, and recording.
- **IR Illuminator:** Built-in infrared light source for enhanced night vision.
- **Laser Rangefinder (LRF):** Integrated module for precise distance measurement.
- **Battery Compartment:** Houses the 18650 battery.
- **Mounting Rail:** For attaching the scope to a Weaver mount.

5. Setup

5.1 Battery Installation

1. Unscrew the battery compartment cap located on the side of the scope.
2. Insert one 18650 rechargeable battery, ensuring the positive (+) end faces inward.
3. Securely screw the battery compartment cap back on.

5.2 Mounting the Scope

The NV008SPLRF-850nm comes with a Weaver mount for easy attachment.

1. Attach the provided Weaver mount to your firearm's rail system.
2. Align the scope with the mount and secure it using the provided screws and hex wrenches. Ensure the scope is level and firmly attached to prevent movement during use.

5.3 Initial Power On and Focus Adjustment

1. Press and hold the Power button (usually the central button) for a few seconds to turn on the device.
2. Adjust the diopter on the eyepiece until the on-screen display (OSD) text and icons appear sharp and clear to your

eye.

3. Rotate the objective lens focus ring to bring your target into sharp focus.

6. Operating Instructions

6.1 Power On/Off and Standby

- **Power On:** Press and hold the Power button.
- **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 mode, conserving battery while allowing for quick reactivation.

6.2 Day/Night Mode Switching

The scope automatically adjusts to ambient light conditions. You can manually switch between day (color) and night (black and white/green) modes via the menu or a dedicated button if available.

Figure 6.1: Comparison of image clarity in day and night modes.

6.3 IR Illuminator Usage

The integrated 850nm IR illuminator provides enhanced visibility in complete darkness, with a detective range of up to 350 meters.

- Access the IR settings through the main menu.
- Adjust the IR intensity level to suit your viewing conditions. Higher intensity provides more illumination but may reduce battery life.

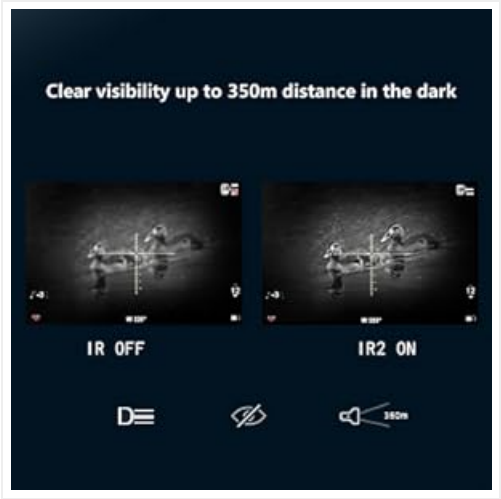

Figure 6.2: The 850nm IR illuminator provides clear visibility up to 350 meters in the dark.

6.4 Long Distance Rangefinder (LRF)

The 1200m LRF allows for precise distance measurement to your target.

- Activate the LRF function via the menu or dedicated button.
- Aim the reticle at your target and press the LRF button to get a distance reading.

Figure 6.3: The 1200m long-distance rangefinder provides accurate measurements for precise targeting.

6.5 Ballistic Calculator

The ballistic calculator helps achieve a perfect shot by accounting for various environmental factors and allowing for multiple profiles.

- Navigate to the Ballistic Calculator in the menu.
- Set up different profiles for various ammunition types or firearms.
- Input parameters such as range, angle to target, temperature, and humidity for accurate trajectory calculations.

Figure 6.4: The ballistic calculator ensures precise trajectory calculations for every shot.

6.6 Recoil Activated Video (RAV)

The RAV feature automatically records video when recoil is detected, ensuring you capture critical moments.

- Enable RAV in the system settings.
- When activated, the scope will continuously buffer video. Upon detecting recoil, it saves the footage before and after the shot to the SD card.

Figure 6.5: Recoil Activated Video automatically records critical moments, saving space and ensuring important footage is captured.

6.7 Visible Light Enhancement Algorithm (VLEA)

PARD's VLEA technology improves image clarity and overall details, making images crisper and sharper for enhanced object recognition.

- VLEA is typically an automatic feature that optimizes image quality. Refer to the menu for any manual adjustment options.

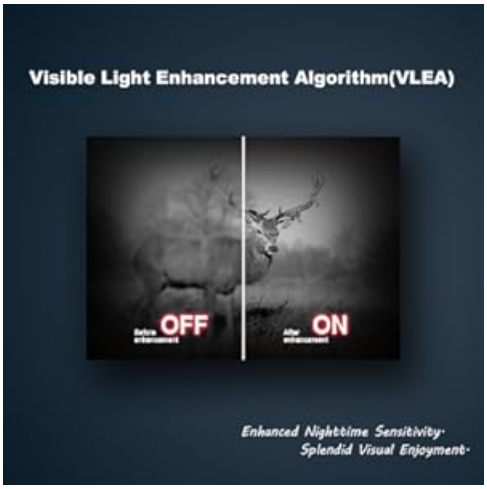

Figure 6.6: Visible Light Enhancement Algorithm (VLEA) provides enhanced nighttime sensitivity and splendid visual enjoyment.

6.8 Picture-in-Picture (PIP)

The PIP function displays an enlarged image of the reticle area in a small window, allowing for precise aiming while maintaining situational awareness.

- Activate PIP mode through the menu. The enlarged view will appear in the top center of the screen.

Figure 6.7: The Picture-in-Picture feature provides an enlarged, precise view of the target area.

7. Maintenance

7.1 Cleaning the Lenses

- Use a soft, lint-free cloth specifically designed for optics to clean the objective lens and eyepiece.
- For stubborn smudges, use a small amount of lens cleaning solution applied to the cloth, not directly to the lens.
- Avoid abrasive materials or excessive force, which can scratch the lens coatings.

7.2 Battery Care

- Remove the battery if the device will not be used for an extended period to prevent leakage.
- Recharge batteries regularly, even if not fully depleted, to maintain optimal performance.

7.3 Storage

- Store the scope in its protective velvet pouch or a suitable case when not in use.
- Keep the device in a dry environment, ideally with a desiccant packet to absorb moisture.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or dead battery; incorrectly inserted battery; faulty battery.	Charge or replace the battery. Ensure battery is inserted with correct polarity. Try a different battery.
Image is blurry or out of focus.	Diopter or objective lens not adjusted correctly.	Adjust the diopter on the eyepiece for your eye. Rotate the objective lens focus ring to focus on the target.
IR illuminator not working.	IR function disabled; low battery; hardware issue.	Check IR settings in the menu. Ensure battery is sufficiently charged. If problem persists, contact support.
Screen shows orange color or flickers.	Software glitch; hardware malfunction.	Perform a factory reset via the menu. If the issue continues, contact customer support for assistance.
Cannot record video or take photos.	No SD card inserted; SD card full or corrupted; recording function disabled.	Insert a compatible SD card. Format or replace the SD card. Check recording settings in the menu.

9. Specifications

Feature	Specification
Brand	Pard
Model Name	NV008SPLRF-850nm
Color	Black
Style	IR 850nm
Product Dimensions (LxWxH)	6.89"L x 2.76"W x 2.17"H
Item Weight	445 Grams
Material	Aluminum
Magnification Maximum	13 x
Objective Lens Diameter	70 Millimeters
Magnification Minimum	6.5 x
Compatible Devices	Handgun (Note: Primarily designed for rifles, but compatible with some handguns)
Mounting Type	Weaver Mount
Night Vision	Yes
IR Illuminator Range	Up to 350m

Feature	Specification
Rangefinder Distance	Up to 1200m

10. Warranty and Support

The PARD NV008SPLRF-850nm Night Vision Scope comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.
For warranty claims, technical support, or any inquiries regarding your device, please contact PARD customer service directly. Refer to the contact information provided on the product packaging or the official PARD website.
Important: Any unauthorized disassembly or modification of the device may void the warranty.