NIGHTFOX Swift 2 Pro

Nightfox Swift 2 Pro NVG Goggles Instruction Manual

Model: Swift 2 Pro

Introduction

This manual provides essential information for the proper setup, operation, and maintenance of your Nightfox Swift 2 Pro NVG Goggles. Please read these instructions carefully before using the device to ensure optimal performance and longevity. The Nightfox Swift 2 Pro is a digital night vision device designed for observation and recording in low-light and complete darkness conditions.

What's in the Box

Upon unboxing, verify that all the following components are present:

- Night Vision Binoculars (Nightfox Swift 2 Pro NVG Goggles)
- Carry case
- Head mount
- Helmet mount adaptor
- Neckstrap
- Instruction Manual (this document)
- 32GB Memory Card (pre-installed or included separately for video recording)
- USB Charging Cable



Figure 1: Nightfox Swift 2 Pro NVG Goggles and included accessories in their carry case.

Product Overview

The Nightfox Swift 2 Pro features a robust design for various night vision applications. Key components include:

- **Objective Lens:** Captures ambient light and infrared.
- **Infrared (IR) Illuminators:** Dual 850nm and 940nm LEDs for enhanced visibility in complete darkness.
- **Eyepiece/Display:** Soft, wraparound rubber eyepiece for comfortable viewing and minimizing light leakage.
- **Control Buttons:** For power, IR level adjustment, zoom, recording, and menu navigation.
- **Focus Wheel:** Adjusts the image clarity.
- **Mounting Point:** Compatible with head strap and Dovetail helmet mount adaptor.
- **USB Port:** For charging and data transfer.
- **MicroSD Card Slot:** For video and image storage.



Figure 2: Front and eyepiece view of the Nightfox Swift 2 Pro NVG Goggles with the head strap attached.



Figure 3: Illustration of the dual 850nm and 940nm infrared illuminators.

Setup

1. Battery Installation and Charging

The Nightfox Swift 2 Pro requires one Lithium Ion battery. Ensure the battery is fully charged before first use. Connect the included USB charging cable to the goggles and a compatible USB power source (e.g., wall adapter, power bank, computer USB port). The charging indicator will show the charging status.



Figure 4: Connecting the Nightfox Swift 2 Pro to a power bank for charging or extended use.

2. Head Strap / Helmet Mount Attachment

The goggles can be used either head-mounted or helmet-mounted.

- **Head Mount:** Attach the included head strap to the designated mounting points on the goggles. Adjust the straps for a secure and comfortable fit on your head.
- **Helmet Mount:** Use the provided Dovetail helmet mount adaptor to attach the goggles to compatible helmet mounting systems (e.g., Wilcox G24). Ensure the adaptor is securely fastened to both the goggles and the helmet mount.

Operating Instructions

1. Power On/Off

Press and hold the Power button (typically located on the top of the device) for a few seconds to turn the goggles on or

off. The internal display will illuminate upon activation.

2. Focus Adjustment

Rotate the focus wheel, usually located near the objective lens, to achieve a clear image. Adjust until the viewed scene appears sharp on the internal display.

3. IR Illumination (Infrared)

The Nightfox Swift 2 Pro features dual IR LEDs:

- **940nm IR:** Provides covert illumination with virtually no visible red glow, ideal for situations requiring discretion. Effective range up to 300 feet.
- **850nm IR:** Offers a longer viewing range, up to 430 feet, but may produce a faint red glow visible to others.

Use the dedicated IR button to cycle through IR levels and switch between 850nm and 940nm modes. Adjust the IR intensity as needed for varying darkness levels.

4. Digital Zoom

The goggles offer 1x optical magnification and up to 3x digital zoom. Use the zoom buttons (often marked with '+' and '-') to magnify the image on the display. Note that digital zoom may reduce image quality at higher magnifications.

5. Video Recording

The Swift 2 Pro records crisp HD 1080p video with sound. To start recording, press the Record button. Press it again to stop. Videos are saved to the included 32GB memory card. Ensure the memory card is inserted correctly before recording.



Figure 5: The Nightfox Swift 2 Pro supports HD video recording for capturing observations.

6. Playback and Data Transfer

Access the menu to review recorded videos and images directly on the goggles' display. To transfer files to a computer, connect the goggles via the USB cable or remove the microSD card and insert it into a card reader.

7. Menu Navigation

Use the menu buttons to access settings such as date/time, video resolution, IR mode, and other device configurations. Refer to the on-screen prompts for specific menu options.



Figure 6: The eyepiece display offers various viewing modes and settings.



Figure 7: The Nightfox Swift 2 Pro provides a wide 54-degree field of view for enhanced situational awareness.

Maintenance

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optics to clean the objective lens and eyepiece. Avoid abrasive materials or harsh chemicals.
- **Body Cleaning:** Wipe the exterior of the goggles with a damp cloth. Do not submerge the device in water.
- **Storage:** Store the goggles in their protective carry case in a cool, dry place when not in use. Remove the battery if storing for extended periods.
- **Battery Care:** Recharge the battery regularly, even if not in frequent use, to maintain its lifespan.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device does not power on.	Battery is depleted or not inserted correctly.	Charge the battery. Ensure the battery is properly seated in its compartment.
Image is blurry.	Focus wheel not adjusted. User has farsightedness.	Rotate the focus wheel until the image is clear. If you wear corrective lenses for farsightedness, the internal display may appear blurry. Adjusting the distance from your eye to the eyepiece or using your corrective lenses may help.
Poor night vision performance.	IR illuminator is off or set to low intensity.	Activate the IR illuminator and increase its intensity. Ensure you are using the appropriate IR wavelength (850nm for longer range, 940nm for covertness).
Cannot record video/take photos.	Memory card is full, missing, or corrupted.	Check if the memory card is inserted. Delete old files or replace the card if full. Format the card if corrupted (this will erase all data).

Specifications

Feature	Detail
Brand	NIGHTFOX
Model Name	Swift 2 Pro
Color	Black
Magnification	1x Optical, 3x Digital Zoom
Objective Lens Diameter	17 Millimeters
Field Of View	54 Degrees
IR Wavelengths	850nm, 940nm
Video Recording	1080p HD with sound
Storage	32GB MicroSD card (included)
Power Source	1 Lithium Ion battery (required)
Mounting Type	Dovetail Mount (compatible with head strap and helmet adaptor)
Item Weight	1.76 pounds (approx. 800 grams)
Product Dimensions	10.63 x 8.66 x 4.72 inches

Warranty and Support

For warranty information, technical support, or any inquiries regarding your Nightfox Swift 2 Pro NVG Goggles, please refer to the official Nightfox website or contact their customer service directly. Keep your purchase receipt as proof of

purchase for warranty claims.
You can visit the official Nightfox store for more information:NIGHTFOX Store

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