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› SIG SAUER Echo3 Thermal Reflex Sight User Manual

Sig Sauer SOEC31001

SIG SAUER Echo3 Thermal Reflex Sight User Manual

Model: SOEC31001

INTRODUCTION

The SIG SAUER Echo3 Thermal Reflex Sight is an innovative compact thermal optic designed for enhanced target acquisition in various conditions. Utilizing advanced thermal imaging technology, it provides clear visibility of heat signatures, making it ideal for hunting and observation. This manual provides essential information for the proper setup, operation, and maintenance of your Echo3 Thermal Reflex Sight.



Figure 1: Front view of the SIG SAUER Echo3 Thermal Reflex Sight.

SAFETY INFORMATION

- Always handle firearms and optics responsibly. Follow all local and federal laws regarding firearm safety.
- Ensure the firearm is unloaded and safe before mounting or adjusting the sight.
- Do not look directly at strong light sources through the optic, as this may damage the sensor.
- Keep batteries out of reach of children. Dispose of batteries properly according to local regulations.
- Avoid dropping the device or subjecting it to severe impacts, which could cause internal damage.

PACKAGE CONTENTS

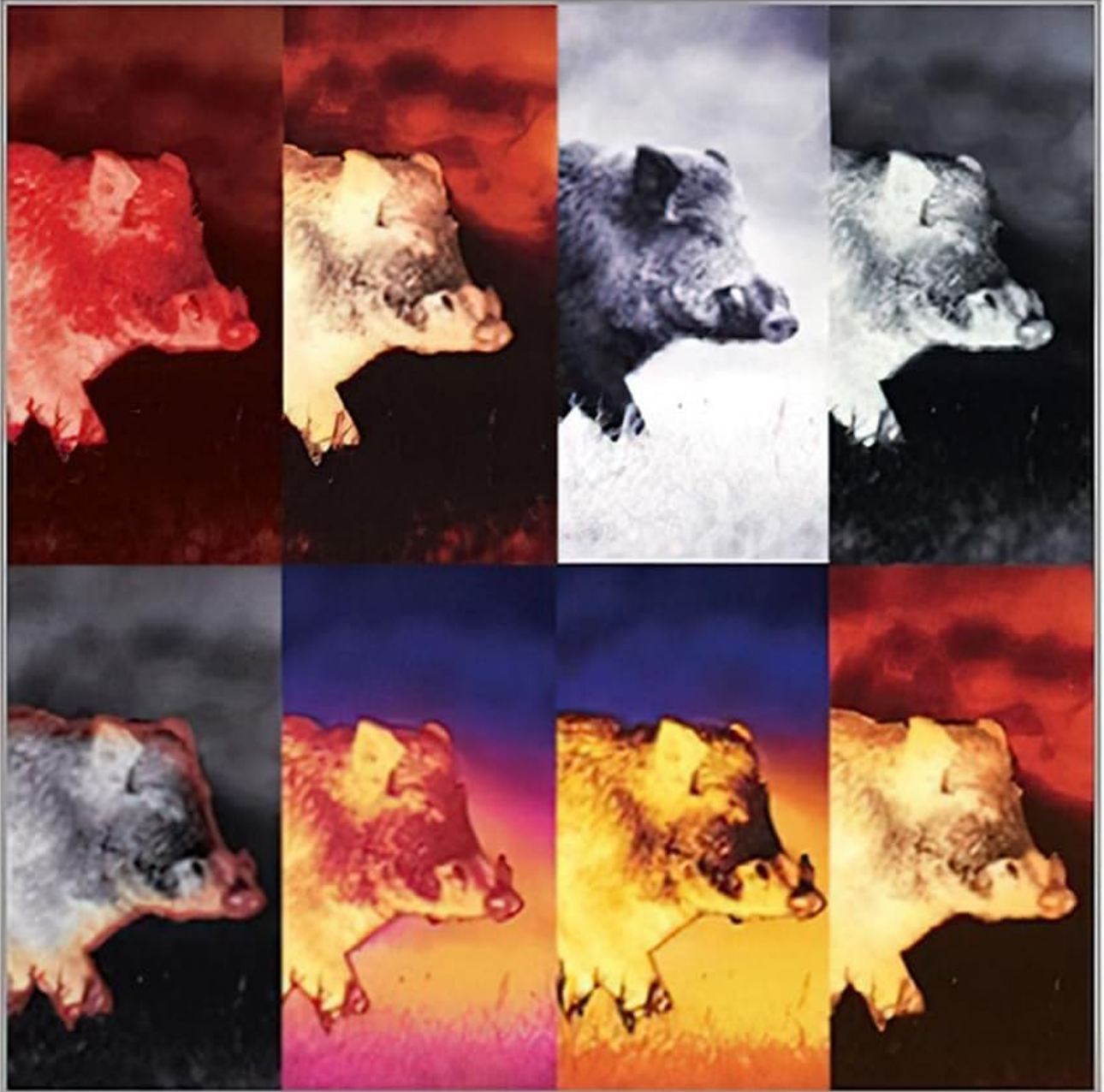
Verify that all items are present in the package:

- SIG SAUER Echo3 Thermal Reflex Sight (1-6x23mm, M1913)
- User Manual
- (2) CR123 Batteries (typically included, verify packaging)
- Lens Cleaning Cloth

PRODUCT FEATURES

The Echo3 Thermal Reflex Sight incorporates several advanced features for superior performance:

- **Compact Thermal Reflex Style Sight:** Designed for quick target acquisition and ease of use.
- **BDX Technology:** Integrates with SIG SAUER BDX system, allowing active reticles to change with KILO Rangefinder input.
- **Video and Image Recording:** Capable of recording both video and still images in 8 different color palettes, including recoil activation.



Video and Image Recording (Including Recoil Activation) with 8 Color Palettes

Figure 2: Example of 8 color palettes for thermal imaging.

- **Customizable Fixed Reticles:** Reticles can be configured via the BDX Mobile Application.



Customizable Fixed Reticles that are Configured from the BDX Mobile App

Figure 3: Customizable fixed reticles configured via the BDX Mobile App.

- **STEALTH ID:** Electro-Optics design with deflection armor trapezoidal surfacing to break up the optic's shape and visibility.
- **MOTAC Technology:** Motion sensing technology that powers up illumination when motion is detected and powers down when idle to conserve battery life.
- **LevelPlex Anti-Cant System:** Provides highly accurate cant detection down to 0.5 degrees, improving shooting precision.

- **ALT Technology:** Precision molded aspheric lens technology for superior low distortion optical performance, reduced weight, and aberration elimination.
- **Durability:** Designed and assembled in the USA to withstand IPX-4 conditions.
- **Run Time:** Greater than 6 hours of continuous operation.

SETUP

1. Battery Installation

1. Locate the battery compartment on the Echo3 sight.
2. Unscrew the battery cap.
3. Insert two (2) CR123 batteries, ensuring correct polarity as indicated inside the compartment.
4. Securely screw the battery cap back on.

2. Mounting the Sight

The Echo3 Thermal Reflex Sight is designed for mounting on a M1913 Picatinny rail. Ensure the rail is clean and free of debris before mounting.

1. Align the sight's mounting base with the M1913 rail on your firearm.
2. Ensure the cross-bolt aligns with a slot on the rail.
3. Tighten the mounting screws or levers securely. Do not overtighten.
4. Verify that the sight is firmly attached and does not wobble.

3. Initial Power On

Press and hold the power button (refer to the device diagram for location) until the display illuminates. The MOTAC technology will activate the sight when motion is detected.

OPERATING INSTRUCTIONS

1. Basic Operation

- **Power On/Off:** Press and hold the power button.
- **Brightness Adjustment:** Use the designated buttons (refer to device diagram) to cycle through 6 brightness settings.
- **Color Palettes:** Cycle through 8 different thermal color palettes to optimize viewing for various environments and targets.

2. Reticle Customization (BDX Mobile App)

The Echo3's reticles are customizable via the SIG SAUER BDX Mobile Application. Download the app from your device's app store.

1. Ensure Bluetooth is enabled on your mobile device.
2. Open the BDX Mobile App and follow the on-screen instructions to pair with your Echo3 sight.
3. Within the app, you can select and customize various reticle patterns and colors.
4. The app also allows for BDX integration with KILO rangefinders, enabling active reticle changes based on range data.

3. Video and Image Recording

The Echo3 can record thermal video and still images directly to its internal memory. Refer to the full digital manual (available online) for detailed instructions on accessing and managing recorded media.

- **Manual Recording:** Press the record button (refer to device diagram) to start/stop video recording or capture a still image.
- **Recoil Activation:** The sight can be configured to automatically begin video recording upon detecting recoil. This feature is managed through the BDx Mobile App settings.

4. Zeroing the Sight

Proper zeroing is crucial for accuracy. This process typically involves firing at a target and adjusting the reticle to match the point of impact. Consult the full digital manual for detailed zeroing procedures, including digital zeroing options.

- Adjustments are made in 0.5 MOA increments.
- The LevelPlex Anti-Cant System assists in maintaining a level sight picture, which is critical for accurate long-range shots.

MAINTENANCE

- **Cleaning Lenses:** Use the provided lens cloth or a soft, lint-free cloth to gently wipe the lenses. For stubborn smudges, use a lens cleaning solution specifically designed for optics. Do not use abrasive materials.
- **Cleaning Body:** Wipe the body of the sight with a damp cloth. Avoid harsh chemicals or solvents.
- **Battery Care:** Remove batteries if the sight will not be used for an extended period to prevent leakage.
- **Storage:** Store the sight in a cool, dry place, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Sight does not power on.	Dead or incorrectly installed batteries.	Replace batteries with fresh CR123s, ensuring correct polarity.
Poor image clarity.	Dirty lens; environmental conditions (fog, heavy rain); incorrect focus.	Clean lenses. Adjust focus if applicable. Thermal imaging performance can be affected by environmental factors.
Cannot connect to BDx App.	Bluetooth off; sight not in pairing mode; app issue.	Ensure Bluetooth is on. Restart sight and app. Refer to app instructions for pairing mode.
Short battery life.	Old batteries; frequent use of high brightness/recording.	Use fresh, high-quality batteries. Utilize MOTAC technology to conserve power. Reduce brightness if not needed.

SPECIFICATIONS

ECHO3

SKU	SOEC32001	SOEC31001
COLOR	Black	Black
ADJUSTMENT INCREMENTS	0.5 MOA	0.5 MOA
MAGNIFICATION	2-12x	1-6x
OBJECTIVE LENS DIAMETER (MM)	40 mm	23 mm
BATTERY	(2) CR123	(2) CR123
RETICLE	Multiple	Multiple
OVERALL LENGTH	4.3	4.3
OVERALL WIDTH	2.6	2.6
HEIGHT	3.3	3.3
WEIGHT	14.3	14.3
WATERPROOFING	IPX4	IPX4
ILLUMINATION SETTINGS	8 Color Palettes and 6 Brightness Settings	8 Color Palettes and 6 Brightness Settings
TOTAL ELEVATION TRAVEL	150 MOA x 150 MOA	150 MOA x 150 MOA
RUN TIME	6 hrs	6 hrs

Figure 4: Detailed specifications for Echo3 Thermal Reflex Sight, including the 1-6x23mm (SOEC31001) and 2-12x40mm (SOEC32001) models.

Feature	Detail (Model SOEC31001)
Brand	Sig Sauer
Model Name	Echo3 Thermal Reflex Sight, 1-6X, M1913
Style	1-6x23mm (SOEC31001)

Feature	Detail (Model SOEC31001)
Color	Black
Adjustment Increments	0.5 MOA
Magnification	1x - 6x
Objective Lens Diameter	23 mm
Battery	(2) CR123
Reticle Type	Multiple
Overall Length	4.3 inches
Overall Width	2.6 inches
Height	3.3 inches
Weight	14.3 ounces (approx. 0.89 lbs)
Waterproofing	IPX4
Illumination Settings	8 Color Palettes and 6 Brightness Settings
Total Elevation Travel	150 MOA x 150 MOA
Run Time	6 hours
UPC	798681621910

Note: Some specifications provided in the source data, such as "Dovetail Mount" and "Compatible Devices: Handgun", may be general entries and not specific to this particular model's primary intended use. The Echo3 Thermal Reflex Sight (SOEC31001) is designed for M1913 Picatinny rail mounting, commonly found on rifles and carbines.

WARRANTY AND SUPPORT

For detailed warranty information and technical support, please visit the official Sig Sauer website or contact their customer service department. Keep your proof of purchase for warranty claims.

Official Website: www.sigsauer.com

Customer Service: Refer to the website for contact numbers and support hours.

