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LIEMKE LO-MERLIN35

LIEMKE MERLIN-35 Thermal Imaging Device User Manual

Model: MERLIN-35

INTRODUCTION

The LIEMKE MERLIN-35 (2020) is a versatile thermal imaging device designed for both field and forest hunting. It functions as a hand-held thermal monocular when used with a booster adapter, or as an attachment for day optics when combined with an appropriate clamping adapter. This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your MERLIN-35 device.

Equipped with a 384 x 288 VOx ceramic thermal detector and a 1,024 x 768 OLED display, the MERLIN-35 delivers a brilliant and sharp image with outstanding imaging performance. Its robust aluminum housing and compact design ensure durability and ease of handling in various conditions.



Figure 1: The LIEMKE MERLIN-35 Multifunctional Thermal Imaging Device.

PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and in good condition. The standard package for your MERLIN-35 includes:

- LIEMKE MERLIN-35 Thermal Imaging Device
- USB Charging Cable
- Video Output Cable
- 2 x CR123 Batteries (700mAh)
- Wrench Tool
- Adapter Ring (for attachment)
- User Manual (this document)



Figure 2: Contents of the MERLIN-35 package, including cables, batteries, and tools.

SETUP

1. Battery Installation

The MERLIN-35 operates on two CR123 (3.7V) batteries. Ensure correct polarity when inserting the batteries.

1. Locate the battery compartment on the side of the device.
2. Open the battery compartment cover by unscrewing or unlatching it.
3. Insert two CR123 batteries, observing the polarity markings inside the compartment.
4. Close the battery compartment cover securely.



Figure 3: View of the MERLIN-35 with the battery compartment open, showing the battery slots.

2. Charging the Device

The MERLIN-35 can be operated and charged via an external USB power source. Connect the provided USB cable to the Micro USB port on the device and to a compatible power adapter or computer.

3. Attachment to Day Optics (Optional)

To use the MERLIN-35 as an attachment for day optics, you will need an appropriate clamping adapter (sold separately) and the included adapter ring. Follow the instructions provided with your clamping adapter for proper installation.

OPERATING INSTRUCTIONS

1. Powering On/Off

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



Figure 4: Close-up view of the control buttons on the top of the MERLIN-35 device.

2. Manual Focus Adjustment

The 35mm objective lens features manual focus. Rotate the objective lens ring to achieve a clear and sharp image of your target.



Figure 5: Detailed view of the MERLIN-35's objective lens, which can be manually focused.

3. Wi-Fi Function and Livestream

The integrated Wi-Fi function allows you to transfer image data from the thermal imager directly to your Android or Apple device via livestream. This function supports a range of up to 50 meters.

1. Download the official LIEMKE app from your device's app store.
2. Turn on the MERLIN-35 and activate its Wi-Fi mode (refer to on-screen menu or quick start guide for specific button presses).
3. Connect your smartphone or tablet to the MERLIN-35's Wi-Fi network.
4. Open the LIEMKE app to view the livestream and access additional features.



Figure 6: Side view of the MERLIN-35, highlighting the AV OUT and Micro USB ports for connectivity.

4. User Interface and Controls

The MERLIN-35 features an intuitive control panel designed for ease of use, even when wearing gloves. Navigate through menus and adjust settings using the directional buttons and central selection button.



Figure 7: Angled view of the MERLIN-35, providing a clear look at the user-friendly control panel.

MAINTENANCE

1. Cleaning the Device

To maintain optimal performance and longevity of your MERLIN-35, regular cleaning is recommended.

- Use a soft, lint-free cloth to wipe the exterior of the device.
- For the objective lens and display, use a specialized optical cleaning cloth and solution to avoid scratches.
- Do not use abrasive cleaners or solvents, as they may damage the device's finish or optical components.

2. Environmental Protection

The MERLIN-35 is certified according to IP66 standards, providing optimal protection against dust and heavy rain. While robust, avoid prolonged submersion in water or exposure to extreme temperatures.

TROUBLESHOOTING

This section addresses common issues you might encounter with your MERLIN-35 device. If the problem persists after following these steps, please contact customer support.

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted batteries; incorrect battery installation.	Replace batteries with fresh ones, ensuring correct polarity. Charge the device via USB.
Image is blurry or out of focus.	Incorrect manual focus adjustment.	Rotate the objective lens ring to manually adjust focus until the image is clear.
Wi-Fi connection issues.	Device Wi-Fi not activated; incorrect network selection; too far from device.	Ensure Wi-Fi is enabled on the MERLIN-35. Select the correct Wi-Fi network on your smart device. Move closer to the MERLIN-35 (within 50m).
Short battery life.	Old or low-quality batteries; continuous use of power-intensive features.	Use high-quality CR123 batteries. Reduce screen brightness or Wi-Fi usage if not needed. Consider using an external USB power source for extended operation.

SPECIFICATIONS

The following table outlines the key technical specifications of the LIEMKE MERLIN-35 thermal imaging device.

Feature	Detail
Model Name	MERLIN-35
Manufacturer Part Number	LO-MERLIN35
Thermal Detector	384 x 288 VOx ceramic
Pixel Pitch	17µm
Display	1,024 x 768 OLED
Objective Lens Diameter	35mm (Manually Focusable)
Field of View (at 100m)	19m

Feature	Detail
Detection Range	Up to 1,235m
Power Source	2 x CR123 (3.7V) batteries
Battery Life	Up to 4 hours
External Power	USB (via Micro USB port)
Wi-Fi Function	Yes (Livestream to Android/Apple devices, up to 50m)
Material	Aluminum housing
Weight	420g (16.9 Ounces)
Ingress Protection	IP66 (Dust and heavy rain protection)
Color	Black
Mounting Type	Dovetail Mount (for attachment)

WARRANTY AND SUPPORT

Warranty Information

The LIEMKE MERLIN-35 thermal imaging device comes with a **3-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, unauthorized modifications, accidents, or natural disasters. For detailed warranty terms and conditions, please refer to the official LIEMKE website or contact customer support.

Customer Support

For technical assistance, warranty claims, or any other inquiries regarding your MERLIN-35, please contact LIEMKE customer support. You can typically find contact information on the official LIEMKE website or through your retailer. When contacting support, please have your product model (MERLIN-35) and serial number (if applicable) ready to expedite the process.