

ThermTec

HUNT **LRF** Series

Thermal Clip-On Hunt LRF User Manual



V3.0



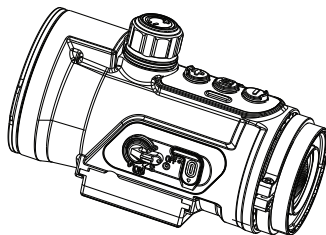
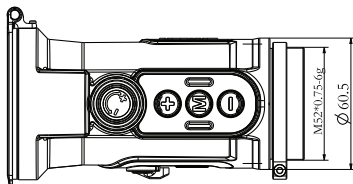
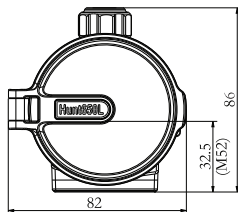
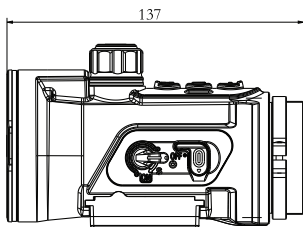


Table of Contents

Legal Information	4	6.7 Day and Night Modes	21
Regulatory Information	6	6.8 UI Zooming	21
Safety Introduction	8	6.9 E-zooming in PIP	22
1.Description	12	6.10 LRF Function	22
2.Features	12	6.11 OLED Brightness Adjustment / Observation Mode	23
3.Specifications	13	6.12 OSD Function	23
4.Packing List	14	6.13 Power Supply	23
5.Components and Controls	15	7. Main Menu	24
5.1 Appearance	15	8. Zeroing	38
5.2 Description of Controls	16	9. Ballistic Calculation	41
5.3 Menu/Status Bar Icons	17	10. Capturing and Recording	44
6. Operation Guide	18	11. Memory Access	45
6.1 Installation	18	12. Hotspot Function	46
6.2 Power On/Off	20	13. Remote Control	47
6.3 Image Correction	20	14. Download “ThermTec Outdoor” APP	49
6.4 Standby Mode	20	15. Technical Inspection	49
6.5 Lens Focus Adjustment	20	16. Maintenance	51
6.6 Pseudo Color Switch	21	17. Firmware Upgrade	51

Legal Information

COPYRIGHT © 2026 ThermTec Technology Co., Ltd. ALL RIGHTS RESERVED.

About this Manual

The Manual includes instructions for using and managing the product, pictures, charts, images and all other information hereinafter are for explanation and description only. The information contained in the Manual is subject to change, without notice due to firmware updates or other reasons. Please find the latest version of this Manual at the ThermTec website (<https://www.thermeyeretec.com>).

Please use this Manual with the guidance and assistance of professionals trained in supporting the product.

Trademarks

ThermTec and other ThermTec's trademarks and logos are the properties of ThermTec in various jurisdictions. Other trademarks and logos mentioned are the properties of their respective owners.

Disclaimer

To the maximum extent permitted by applicable law, this Manual and the product described, with its hardware, software and firmware, are provided "As is" and "With all faults and errors". ThermTec makes no warranties, express or implied, including without limitation, merchant ability, satisfactory quality, or fitness for a particular purpose. The use of the product by you is at your own risk. In no event will ThermTec be liable to you for any special, consequential, incidental, or indirect damages, including, among others, damages for loss of business profits, business interruption, or loss of data, corruption of systems, or loss of documentation, whether based on breach of contract, tort (including negligence), product liability, or otherwise, in connection with the use of the product, even if ThermTec has been advised of the possibility of such damages or loss.

You acknowledge that the nature of the internet provides for inherent security risks, and ThermTec shall not take any responsibilities for abnormal operation, privacy leakage or other damages resulting from cyber-attack, hacker attack, virus infection, or other internet security risks; however, ThermTec will provide timely technical support if required.

You agree to use this product in compliance with all applicable laws, and you are solely responsible for ensuring that your use conforms to the applicable law. Especially, you are responsible, for using this product in a manner that does not infringe on the rights of third parties, including without limitation, rights of publicity, intellectual property rights, or data protection and other privacy rights. You shall not use this product for any prohibited end-uses, including the development or production of weapons of mass destruction, the development or production of chemical or biological weapons, any activities in the context related to any nuclear explosive or unsafe nuclear fuel-cycle, or in support of human rights abuses.

In the event of any conflicts between this manual and the applicable law, the latter prevails.



REGULATORY INFORMATION

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Directive 2014/53/EU(RED), Directive 2014/30/EU(EMC), Directive 2014/35/EU(LVD), Directive 2011/65/EU(RoHS).

The full text of the EU declaration of conformity is available at the following internet address:
<https://www.thermeyertec.com/declaration-of-conformity/>



Frequency Bands and Power (for CE). The frequency bands and transmitting power (radiated and/or conducted) nominal limits applicable to the following radio equipment are as follows: Wi-Fi 5 GHz (5.15GHz to 5.25GHz, 5.25GHz to 5.35GHz, 5.47GHz to 5.73GHz, 5.735GHz to 5.835GHz), 14dBm

Bluetooth 2.4 GHz(2.4 GHz to 2.4835 GHz), 4dBm,Bluetooth Version:V2.1+EDR/4.0/4.2

For the device without a supplied power adapter, use the power adapter provided by a qualified manufacturer. Refer to the product specification for detailed power requirements. For the device without a supplied battery, use the battery provided by a qualified manufacturer. Refer to the product specification for detailed battery requirements.



This product contains a battery and it is in conformity with the Regulation (EU) 2023/1542. The battery cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information.



The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), or lead (Pb). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.



This product and - if applicable - the supplied accessories too are marked with “UKCA” and comply therefore with the following directives: Radio Equipment Regulations 2017, Electromagnetic Compatibility Regulations 2016, Electrical Equipment (Safety) Regulations 2016, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.



This product and - if applicable - the supplied accessories too are marked with “RoHS” and comply therefore the requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (“RoHS recast” or “RoHS 2”).



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



Directive 2006/66/EC and its amendment 2013/56/EU (Battery Directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

SAFETY INTRODUCTION

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss. Please read all the safety information carefully before using.

Transportation

- Keep the device in original or similar packaging while transporting it.
- Keep all wrappers after unpacking them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and the company shall not take any responsibilities.
- Do not drop the product or subject it to physical shock. Keep the device away from magnetic interference.

Power Supply

- If a power adapter is provided in the device package, use the provided adapter only. If no power adapter is provided, ensure the power adapter or other power supply complies with Limited Power Source. Refer to the product label for the power supply output parameters.
- Make sure the plug is properly connected to the power socket.
- DO NOT connect multiple devices to one power adapter, to avoid over heating or fire hazards caused by overload.
- The power delivered by the charger must be between min. 6.6 Watts required by the radio equipment, and max. 15 Watts in order to achieve the maximum charging speed.

Battery

- The device supports removable li-ion battery. The battery rated voltage and capacity is 3.85V/3200 mAh.
- CAUTION: Risk of explosion if the battery is replaced by an incorrect type. Replace with the same or equivalent type only

- Batteries of improper size cannot be installed, and may cause abnormal shutdown.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Please purchase the batteries recommended by the manufacturer if necessary.
- The purchased batteries by users need to comply with the relevant international standards about battery safety (e.g. EN/IEC standards).
- Use the battery provided by qualified manufacturer. Refer to the product specification for detailed battery requirements.
- Dispose of used batteries according to the instructions.
- CAUTION: Risks of short circuit, fire, or explosion if the battery is damaged. Frequent use, dropping, impact, corrosion, or compression of the battery may cause damages including cracked casing, detached plates, or leakage of internal liquid or gas, etc.
- If the battery is damaged, stop using it immediately and dispose of it according to the instructions.
- Remove the battery if you do not use the device for a long time.
- For long-term storage of the battery, make sure it is fully charged every 2 months to ensure the battery quality. Otherwise, damage may occur.
- The built-in battery cannot be dismantled. Please contact the manufacture for repair if necessary.
- Make sure the battery temperature is between 0°C to 50°C (32°F to 122°F) when charging.
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature or low air pressure environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Confirm there is no flammable material within 2 m of the charger during charging.
- DO NOT place the device with battery or the battery alone near heating or fire source. Avoid direct sunlight.
- DO NOT place the battery in the reach of children.
- DO NOT swallow the battery to avoid chemical burns.

- This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Maintenance

- If the product does not work properly, please contact your dealer or the nearest service center. We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.
- Make sure that the power has been disconnected before device teardown and repair by professionals.
- Check the optical surfaces of objective lens, eyepiece, rangefinder, etc. If necessary, remove dust and sand from the optics using tools and solvent designed especially for this purpose (it is preferable to use a non-contact method).
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired.
- Wipe the exterior surfaces of metal, plastic, and silicone parts with a clean and soft cloth. Do not use chemically active substances, solvents, etc. as these may damage the paint.

Using Environment

- Make sure the running environment meets the requirement of the device. The operating temperature shall be -20 °C to 50 °C , and the operating humidity shall be from 5% to 95%.
- DO NOT expose the device to high electromagnetic radiation or dusty environments.
- DO NOT aim the lens at the sun or any other bright light.
- Place the device in a dry and well-ventilated environment.
- When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out.

- Avoid equipment installation on vibratory surface or places subject to shock (neglect may cause equipment damage).
- This equipment is not suitable for use in locations where children are likely to be present.

Emergency

- If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.

Laser



When any laser equipment is in use, make sure that the device lens is not exposed to the laser beam, or it may burn out. The laser radiation emitted from the device can cause eye injuries, burning of skin or inflammable substances. Before enabling the laser ranging function, make sure no human or inflammable substances are in front of the laser lens. Do not place the device where minors can fetch it. According to IEC 60825-1:2014, EN 60825-1:2014+A11:2021, and EN 50689:2021, this laser product is classified as Class 1 laser product and consumer laser product.

1 Description

The HUNT LRF Thermal Clip-On's high thermal sensitivity ensures exceptional detail recognition, even in the most adverse weather conditions and scenarios with minimal temperature contrast between the target and its background. Except that, using Hunt LRF thermal clip-on includes several benefits over night hunting with traditional optics or even the night vision devices. Attaching the Hunt LRF series to a day scope delivers the same level of comfort of shooting with the day scope you are accustomed to, including your existing reticle and eye relief. The Hunt LRF thermal clip-on even allows you to continue utilizing variable magnifications of your day scope.

2 Features



- Quick mounting and removal of attachment;
- 12 μ m thermal imaging detector, NETD < 15mK;
- 1920*1080@4.5 μ m resolution with 0.39-inch OLED display;
- Magnesium alloy housing;
- Lightweight and compact design;
- Wireless remote control;
- APP connection via Wi-Fi is supported;
- 6 pseudo colors and 8 reference reticle choices;
- Audio and recoil-activated video is supported;
- Combination of shutter correction and AI calibration technology;
- Up to 5h continuous working for replaceable and rechargeable battery;
- IP67 rated protection;

3 Specifications

Model	Hunt635L	Hunt650L
Microbolometer		
Type	Uncooled	
Resolution	640×512	
Pixel pitch	12μm	
NETD	< 15mK	
Spectral range	8-14μm	
Frame rate	50Hz	
Detection range	1800m	2600m
Optics		
Objective lens	35mm/F1.0	50mm/F1.0
Per click	1.6cm@100m	1.1cm@100m
Field of view	12.5° x10°	8.8° x7.0°
m@100m	21.9 x17.6	15.4 x12.3
Recommended magnification of the day scope	1-16X	
Magnification	X1	
Display		
Type	AMOLED	
Resolution, pixel	1920×1080@4.5μm	
Display size	0.39 inch	

Function		
Observation Mode	Yes	No
Max. recoil power on rifled weapon	6000J	
Image calibration	Via shutter	
Power lever	On/Off/Standby	
LRF	1000m	
Ballistic calculator	Yes	
E-Zoom	X1, X2, X3, X4	
USB interface	Type-C	
Video Recorder		
Photo/Video playback	Yes	
Inbuilt memory	64GB	
Interface		
Type C	Data transfer, Battery charge	
Wi-Fi	Yes	
Bluetooth	Yes, remote control	
Battery		
Replaceable battery	5h	
On-device charging	Yes	
Environment		
Body material	Magnesium alloy	
Connection thread	M52×0.75	
Operating temperature	-20~ +50°C	
IP rating	IP67	
Weight, g	460g ±5	463g ±5
Size, mm	137(L)×82(W)×86(H)	

4 Packing List



Hunt LRF clip-on (x1)



Battery (x2)



Charger (x1)



Remote control (x1)



Bag (x1)



User manual (x1)



USB cable (x1)



Cotton swabs (x1)



Lens cloth (x1)

5 Components and Controls

5.1 Appearance

NO.	Comments
1	Eyeiece
2	M52*0.75 connection thread
3	Adapter Ring
4	E-Zoom / Laser rangefinder / OLED brightness adjustment / Down button / Observation switch
5	Capture/Record/Menu button
6	Pseudo color switch / UI zooming / Image correction button / Up button
7	Lens focus knob
8	Lens cover
9	Laser rangefinder module
10	Objective lens
11	Three-position switch
12	Type-C port



5.2 Description of Controls

Clip-on Mode

Before entering the main menu			
Icon	Short press	Press and hold-on	Double click
	Switch pseudo colors	UI zooming	Image calibration
	Capture	Record	Main menu
	E-Zoom	Laser rangefinder function on/off	OLED brightness adjustment (Observation off)
			Observation mode

After entering the main menu			
Icon	Short press	Press and hold-on	Double click
	Up	N/A	N/A
	Confirm	Exit	N/A
	Down	N/A	N/A

Monocular Mode

Before entering the main menu			
Icon	Short press	Press and hold-on	Double click
	Switch pseudo colors	Digital Zoom	Image calibration
	Capture	Record	Main menu
	E-Zoom	Laser rangefinder function on/off	OLED brightness adjustment

After entering the main menu			
Icon	Short press	Press and hold-on	Double click
	Up	N/A	N/A
	Confirm	Exit	N/A
	Down	N/A	N/A

5.3 Menu/Status Bar Icons

	Image Set
	Battery Power
	Zero Profile
	Zeroing
	Hotspot/Bluetooth
	File
	Blind Pixel
	OLED
	Recoil-Activated Video (RAV)
	Palette
	Eyepiece Set

	Time and Date
	Language
	Correction
	System Setting
	Hotspot Indicator
	Laser Rangefinder
	Remote Control
	Image Capturing/Video Recording
	MIC
	System
	Observation Mode

Operation Guide

WARNINGS

The Hunt LRF Series is designed for reliable long-term use. To ensure safe operation and consistent performance, please observe the following precautions:

- Before use, make sure the device is properly mounted and adjusted in accordance with the instructions in this manual.
- When not in use, keep the lens cap closed and store the device in its carrying case.
- Always switch off the device after use.
- Unauthorized disassembly, modification, or repair may void the warranty.

Unauthorized disassembly or repair may void the warranty!

The device is designed to operate over a wide temperature range. However, when moving the device from a cold environment to a warmer one, allow it to acclimatize for approximately 2-3 hours before switching it on. This helps prevent condensation from forming on the optical components.

For long-term reliability and optimal performance, periodic inspection and professional maintenance are recommended.

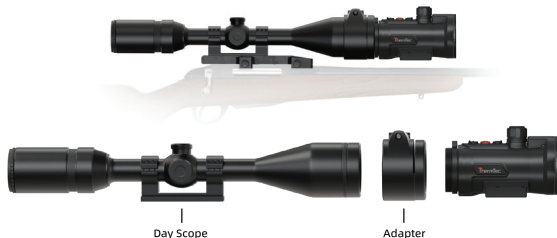
6.1 Installation

The Hunt LRF Thermal Clip-On is designed for both daytime and nighttime use and can also be used in adverse weather conditions such as fog, haze, and rain.

To mount the device onto a daytime riflescope, follow the steps below:

- Make sure the daytime riflescope has been properly zeroed before installation.
- Determine the outside diameter of the daytime scope's objective lens.
- Select a suitable adapter with an M52 × 0.75 internal thread and the corresponding insert that matches the outside diameter of the objective lens.

- Select a suitable adapter with an M52 × 0.75 internal thread and the corresponding insert that matches the outside diameter of the objective lens.
- Place the insert into the adapter and make sure it is fully seated.
- Screw the assembled adapter securely onto the objective end of the daytime riflescope.
- Check that the adapter is firmly installed and that there is no looseness, movement, or wobble.



- Check the adapter for any looseness or play. If any movement is detected, proceed as follows:
 - Loosen the locking screw using a suitable hex wrench, depending on the adapter model.
 - Adjust the clamping screw with the hex wrench until the adapter fits securely around the objective lens.
 - Fully tighten the locking screw to secure the adapter in place.
 - Mount the Hunt LRF onto the adapter, then rotate the eyepiece bayonet ring counterclockwise to lock the device securely in position.
- After installation, check whether the center of the Hunt LRF display is properly aligned with the reticle of the daytime riflescope. If the alignment is off-center, perform the following boresighting procedure:
- Loosen the locking screw using a suitable hex wrench.

6.2 Power On/Off

Set the three-position toggle switch to “ON” to power on the device, and to “OFF” to power it off.



6.3 Image Correction

Double-click the **+** button to perform image correction. See “Correction” in the main menu for details.



6.4 Standby Mode

After the device is powered on, move the toggle switch to the “S” position to enter standby mode. Move the switch back to the “ON” position to wake the device from standby.



6.5 Lens Focus Adjustment

Open the lens cover and rotate the focus knob until the target image appears clear and sharp.



6.6 Pseudo Color Switch

Short-press the **+** button to cycle through the available color palettes. Six color palettes are available: White Hot, Black Hot, Red Hot, Green, Golden, and Violet.



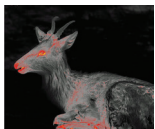
White



Black



Golden



Red



Green



Violet

6.7 Day and Night Modes

Enter the main menu and select the OLED/Mode option, then will be able to switch two brightness mode.

6.8 UI Zooming

Long press the **+** button to zoom in/out the UI icons, ensuring optimal display in perfect alignment with the magnification level of your optical lens.



6.9 E-zooming in PIP

The base magnification is 1x, short press  button once to activate the E-zooming and the zoomed view simultaneously displayed in a PIP window. Each click of  button can switch the digital zoom between x1, x2, x3, x4.

Note:

- Complete the zeroing procedure before using this function to ensure aiming accuracy at different magnification levels.
- After zeroing, set the corresponding reference line according to the selected zeroing profile.
- For detailed zeroing instructions, refer to the “Zeroing” section.



6.10 LRF Function

Press and hold the  button to activate the LRF function. The measured distance to the target and the pitch angle will be displayed on the screen.

When Ballistic Calculation is enabled, automatic continuous ranging is disabled. In this mode, only manual ranging is available by pressing and holding the  button.

The cursor will blink for six seconds and then disappear.



6.11 OLED Brightness Adjustment / Observation mode

Double-click the  button to adjust the OLED brightness. Five brightness levels are available.

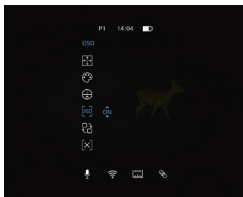
Note (Hunt 635L only) :

This function is available only when Observation Mode is disabled. When Observation Mode is enabled in the main menu, double-clicking the  button will instead toggle Observation Mode on or off.



6.12 OSD Function

Enter the main menu and select “OSD” to enable or disable the function. When OSD is enabled, the on-screen menu and interface information will also be included in video recordings.



6.13 Power Supply

The Hunt LRF can be charged either directly through the device or by removing the battery and charging it with the supplied charger.

Charge the Device

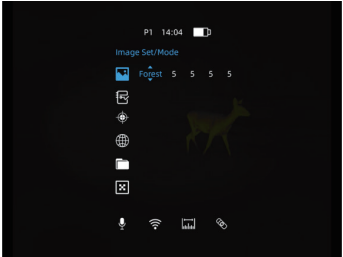


7 Main Menu

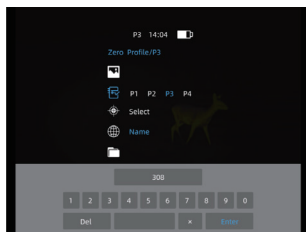
The button operations for menu settings are as follows:

- From the home screen, double-click the “M” button to enter the main menu.
- In the main menu, short-press the “+” or “-” button to navigate through the menu options.
- The selected icon will be highlighted in blue.
- Short-press the “M” button to enter or adjust the settings of the selected option.
- Short-press the “M” button to confirm and save the setting.
- Press and hold the “M” button for 3 seconds to exit the menu and return to the home screen.

Main Menu function descriptions

Image Set 	 Image Setting ● When “Image Settings” is selected, the corresponding icon will be highlighted in blue. ● Adjust the Sharpness, Contrast, Brightness, and Denoise parameters as needed. Each parameter can be set from Level 1 to Level 10.
--	--

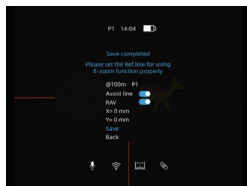
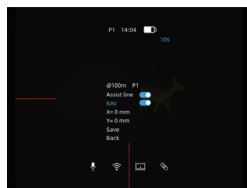
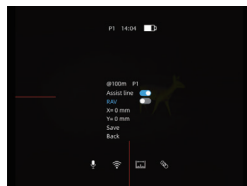
Zero Profile



Select the Zero Profile

- Four zeroing profiles are available: P1, P2, P3, and P4. The selected zeroing profile is displayed at the top of the screen.
- After selecting a profile, select “Name” to rename it.
- Make sure the corresponding reference line is configured for each zeroing profile, as each profile has its own independent Ref. Line setting.
- Short-press the “M” button to confirm the selected profile.

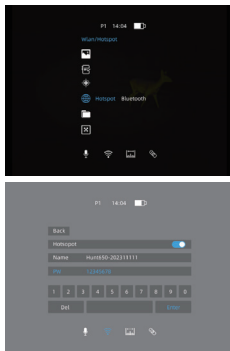
Zeroing



Zeroing

- A RAV switch has been added to the zeroing interface. When enabled, a 10-second countdown appears, and the shot must be fired before it ends. The system will then automatically detect and save the sound threshold, allowing zeroing and RAV setup to be completed with a single shot for greater convenience.
- Note: This function must be manually enabled each time you enter the zeroing interface.
- After saving the zeroing settings, a prompt will remind the user to set the Ref. line offset for proper E-zoom operation, helping complete all necessary settings in one process.
- Zeroing must be performed with this function enabled. For detailed instructions, refer to the "ZEROING" section

Hotspot / Bluetooth



Turn Hotspot function on/off

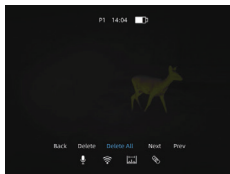
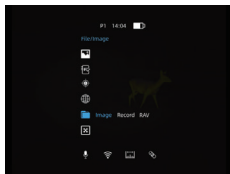
- When Hotspot is enabled, a smartphone can connect to the device's hotspot and access the ThermTec app. Through the app, users can view the live image, adjust relevant parameters, and access supported functions.
- The default hotspot password is: 12345678.



Turn the Bluetooth on/off

- The device includes a Bluetooth remote control. Enable Bluetooth to operate the device remotely.

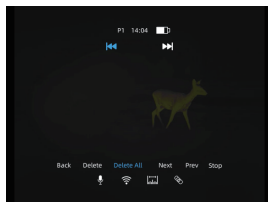
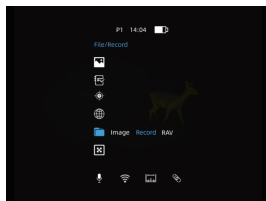
File



Check the Captured Images

- When “File” is selected, the corresponding icon will be highlighted in blue.
- Short-press the “M” button to open the image files.
- After selecting an image, short-press the “M” button to access the available operations. You can delete the selected image, view the next image, or delete all images.

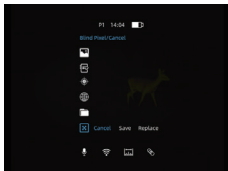
File



Check the Recorded Videos/RAV Videos

- Select “Record” or “RAV”, then short-press the “M” button to enter the corresponding video file list.
- Select a video and short-press the “M” button to play it.
- During playback, additional operations are available, including deleting the current video, viewing the next video, pausing playback, or deleting all videos.

Blind Pixel



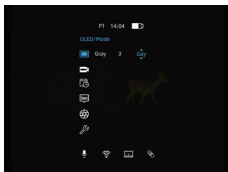
Blind Pixel Correction

- Double-click the “M” button to enter the main menu.
- Use the “+” or “-” button to select “Blind Pixel”, then short-press the “M” button to enter the function.
- When “Blind Pixel” is selected, the corresponding icon will be highlighted in blue.
- Select the required option: Cancel, Save, or Replace.

To remove blind pixels, follow the steps below:

- Close the lens cover.
- Select “Replace” repeatedly to perform blind pixel correction.
- If any blind pixels are successfully removed, select “Save” to save the correction.
- Repeat the above steps until all visible blind pixels have been corrected.

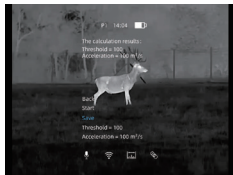
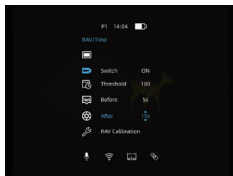
OLED



Set OLED

- Select the OLED color and brightness level as needed.
- Four OLED color options are available: Grey, Blue, Purple, and Red.
- Dual brightness modes provide comfortable viewing for both daytime and nighttime use.
- Short-press the “M” button to return to the previous menu, or press and hold the “M” button to exit to the home screen.

RAV



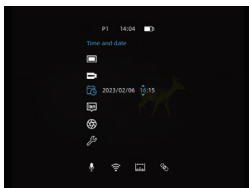
RAV Setting

- Double-click the “M” button to enter the main menu.
- Use the “+” or “-” button to select “RAV”, then short-press the “M” button to enter the RAV menu.
- When “RAV” is selected, the corresponding icon will be highlighted in blue.
- Hunt L allows users to customize the pre-trigger and post-trigger recording durations according to their needs:
Before: 5s / 10s
After: 15s / 30s / 45s
- During RAV calibration, a 10-second countdown will appear on the screen. Fire within this period to complete the calibration. After the shot, the device will automatically detect and save the sound threshold and acceleration values.

Note:

RAV recording is based on the most recent trigger. For example, if the first shot triggers RAV but misses the target, and the second shot hits the target and triggers RAV again, the final recording will be based on the second trigger.

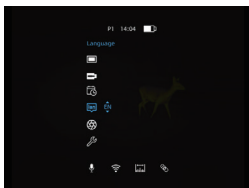
Date/Time



Set Date/Time

- After entering the “Date/Time” settings page, adjust the date and time as required.
- Short-press the “M” button to return to the previous menu, or press and hold the “M” button to exit to the home screen.

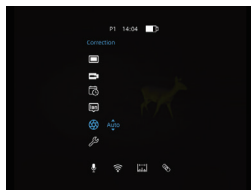
Language



Set Language

- Users can select their preferred language as needed.

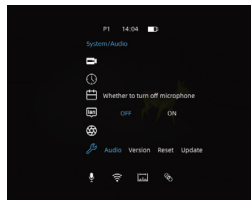
Correction



Switch Correction Mode

- Select "Auto" or "Manual" to choose the corresponding correction mode.
- In Auto Correction mode, image correction is performed automatically according to actual operating conditions. A 10-second countdown will appear before each correction, and the image will freeze briefly during the correction process.
- Short-press the "M" button to return to the previous menu, or press and hold the "M" button to exit to the home screen.

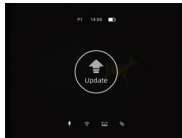
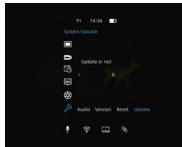
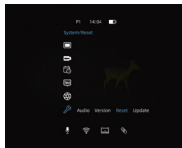
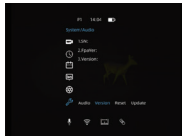
System



Turn on/off the Audio Recording

- Users can enable or disable audio recording according to their needs.

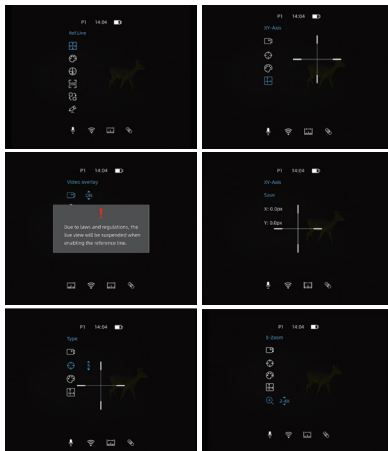
System



System Setting

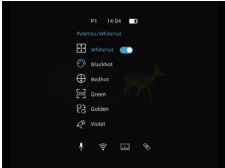
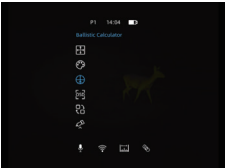
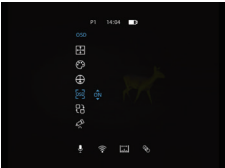
- The Version page displays information such as the firmware version and serial number.
- In System Settings, you can reset the device to its default settings or update the firmware.
- Firmware updates on this page are supported via PC only. Please contact ThermTec technical support before updating.
- Short-press the “M” button to confirm the current setting, or press and hold the “M” button to exit.

Ref.Line

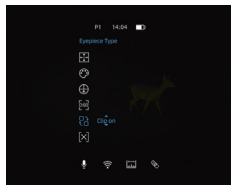


Reference Line Setting

- The reference line can be configured here and displayed in video recordings.
- User can adjust the reticle type, color, and X/Y coordinates.
- Each zeroing profile has its own reference line settings. Make sure the reticle is configured separately for each profile.
- Adjust the X/Y coordinates so that the reference line aligns with the reticle of the daytime scope. The digital zoom range can be selected under "E-Zoom". Choose the appropriate range according to the magnification of your daytime scope.

Palettes 	 Palettes Setting ● When “Palettes” is selected, the corresponding icon will be highlighted in blue. ● Users can customize their preferred color palettes from the six available options.
Ballistic Calculation 	 Ballistic Calculation ● The cursor style and color can be adjusted in the Ballistic Calculation menu. ● The selected option will be highlighted in blue. ● For detailed setup instructions, refer to the “Ballistic Calculation” section.
OSD Switch 	 OSD Switch ● The UI elements on the home screen can be enabled or disabled according to the user's preference.

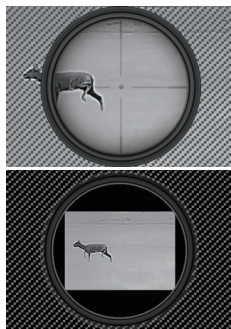
Eyepiece Type



Set Eyepiece Type

- When "Eyepiece Type" is selected, the corresponding icon will be highlighted in blue.
- With the optional eyepiece attached, the clip-on can also be used as a handheld monocular.

Observation



Observation (Hunt 635L only)

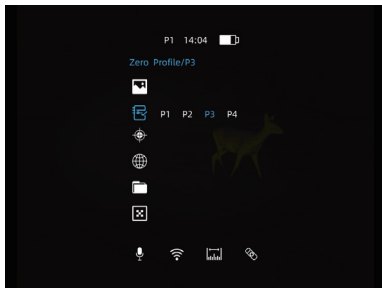
- When Observation Mode is enabled, the thermal image is scaled and centered within a 640 × 512 display area on the OLED screen. Even when used with a high-magnification daytime scope, users can view a larger and more complete portion of the thermal image, with less edge cropping.
- Users can use this function as needed based on actual conditions.

8 Zeroing

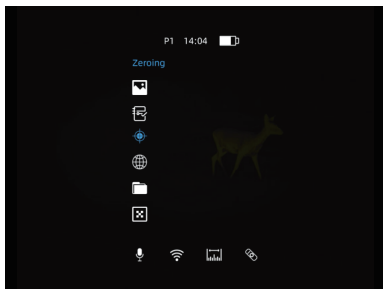
If the daytime scope's reticle is not centered in the thermal image after installation, use the Image Zeroing function to align the thermal image with the optical view.

Preparation:

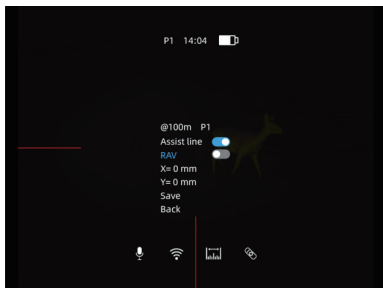
- Complete zeroing of the daytime scope before mounting the Hunt LRF.
- Install the Hunt LRF according to the Installation section.
- Aim at a target at 100 m and fire one shot.
- From the home screen, double-click the "M" button to enter the main menu.



- Use the "+" or "-" button to select "Zero Profile", then short-press the "M" button to choose a zeroing profile.



- Select “Zeroing” and short-press the “M” button to enter the zeroing interface.

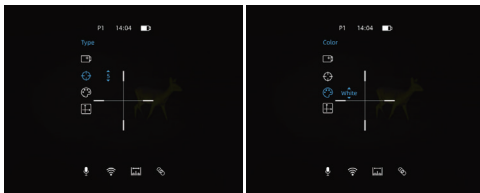


- Use the “+” or “-” button to shift the thermal image until the thermal target position aligns with the target position viewed through the daytime scope. The default zeroing distance is 100 m.

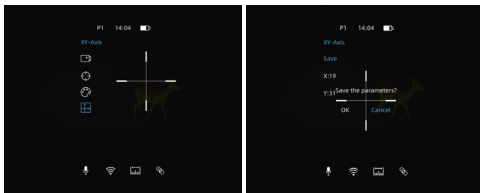
After adjustment, short-press the “M” button to confirm and save the settings. Press and hold the “M” button to exit without saving and restore the default settings.

Note:

Once a reference line has been configured for each zeroing profile, it will automatically switch to the corresponding setting when the zeroing profile is changed..



After zeroing, make sure to adjust the reference line coordinates according to the daytime scope.



9 Ballistic Calculation

Attention:

- Ballistic Calculation should be configured only after zeroing; otherwise, the calculated compensation may not be accurate.

When Ballistic Calculation is enabled, the device automatically switches to single-shot ranging mode.

Setup and Operation

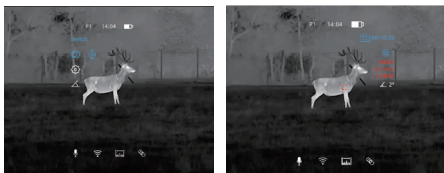
- Double-click the “M” button to enter the main menu.
 - Use the “+” or “-” button to select “Ballistic Calculation”, then short-press the “M” button to enter.
 - Select “Settings” in the same way to configure the ballistic parameters.
- 
- Configure the ballistic parameters as required, including Scope Height, Wind Velocity, Bullet Weight, Muzzle Velocity, Ballistic Coefficient (BC), Wind Direction, Temperature, and Atmospheric Pressure.



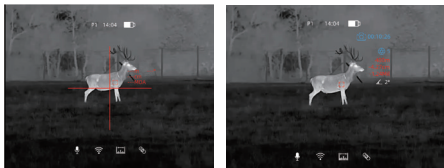
- When a parameter is selected, the cursor automatically moves to the on-screen keyboard for editing.
- Select the “Back” icon to return to the previous screen.
- All parameters can also be configured in the app, and preset profiles can be imported. Before importing, exit the parameter settings screen on the device; otherwise, the imported settings will not take effect.

Notes:

- Move the cursor to “ON” to enable Ballistic Calculation. Once enabled, the distance, pitch angle, ballistic compensation (cm), and MOA values will be displayed near the center of the screen.



- When aiming at a target, the initial aiming point is treated as the desired point of impact. After Ballistic Calculation is enabled, the image will automatically shift according to the calculated ballistic compensation. Re-aim at the desired point using the reticle of the daytime scope, and the compensated point of impact will align with the original aiming point under ideal conditions.



Pre-aim point

Image shifting after BC

Notes:

- The reticle shown here is a virtual overlay for demonstration purposes only. In actual use, the reticle is provided by the daytime scope.
- Ballistic Calculation can also be configured through the ThermTec Outdoor app. When importing a ballistic profile, make sure the device is not on the Ballistic Calculation settings page; otherwise, the imported profile will not take effect.
- After a distance is measured, the laser rangefinder cursor will blink for 6 seconds and then disappear automatically.

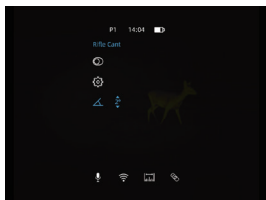
Rifle Cant

This function is designed to help users keep the rifle level at all times. If the rifle is tilted to the left or right, the point of impact may shift and affect shooting accuracy. To help prevent this, the Hunt LRF provides a Rifle Cant Warning function.

In the Ballistic Calculation menu, select Rifle Cant. Three angle thresholds are available:

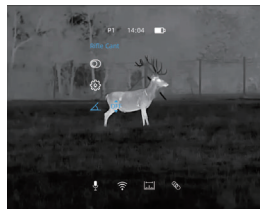
- 2° ● 4° ● 6°

For example, if 2° is selected, once the rifle tilts more than 2° from the horizontal position, the icon on the main interface will change from white to red as a warning. The user can then level the rifle again to help ensure shooting accuracy and improve the hunting experience.



Note: Please refer to the displayed angle value and level the device in the corresponding direction.

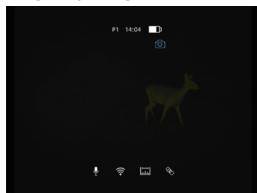
- If the device tilts to the left, the displayed value will be negative.
- If the device tilts to the right, the displayed value will be positive.
- If this warning is not required, select Off to disable the function.



10 Capturing and Recording

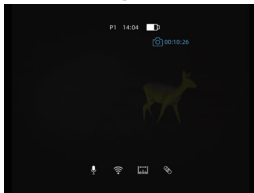
The device features 64 GB of built-in storage for photos and video recordings. Files are named according to the date and time. Before using the photo or video recording functions, it is recommended to set the correct date and time in the main menu or synchronize them through the ThermTec Outdoor app.

Image Capturing



- Short-press the “M” button to take a photo. A capture icon will briefly appear on the screen to confirm that the image has been saved.
- Captured images are saved to the device’s built-in storage.

Video Recording



- Press and hold the “M” button to start video recording. A recording timer will appear at the top of the screen in the format HH:MM:SS (hours:minutes:seconds).
- User can access the menu and use other functions while recording. Press and hold the “M” button again to stop and save the recording. Recorded videos are saved to the device’s built-in storage.

Caution:

- The number of photos and videos that can be stored depends on the available internal storage capacity.
- Check the remaining storage space regularly and transfer files to another storage device when necessary to free up space.

11 Memory Access

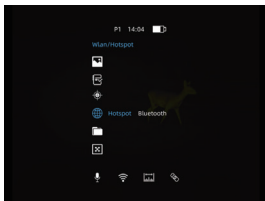
File Transfer via USB

When the device is powered on and connected to a computer via a Type-C cable, it will be recognized as a storage device, allowing access to the internal memory.

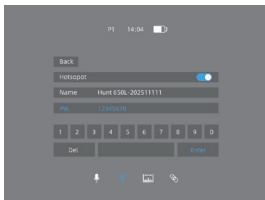
- Power on the Hunt and connect it to a computer using a Type-C cable.
- Photos and standard videos are stored in the “Capture” and “Record” folders respectively.
- RAV videos are stored in the “RAV” folder.
- Files are named according to the recording or capture time.
- Select the required files or folders to copy or delete.

12 Hotspot Function

The Hunt Pro features a built-in hotspot module for wireless connection to smartphones and other compatible devices.



- Double click “M” button to enter the main menu.



- Short-press the “M” button to turn the Hotspot function on or off.

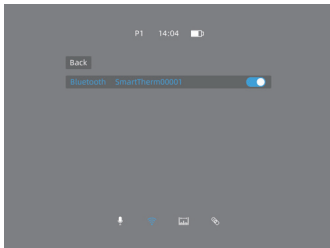
- Open the ThermTec Outdoor app, select Wi-Fi, and enter the password on your mobile device to complete the connection. The default password is 12345678.
- Once the Wi-Fi connection is established, the device can be controlled through the ThermTec Outdoor app.

Set the Hotspot password

The Hunt LRF Series allows users to change the device hotspot password in the Hotspot settings.

13 Remote Control

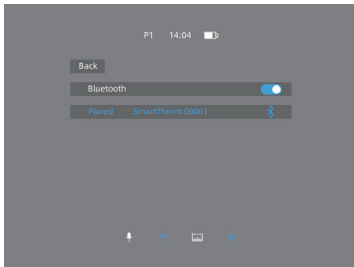
The Hunt LRF Series supports a Bluetooth ring remote control, allowing convenient operation without directly touching the device. The remote control connects to the device via Bluetooth.



- Enable Bluetooth on the device.



- Open the battery compartment of the remote control and wait for it to automatically search for and connect to the device via Bluetooth.



- Once connected, you can operate the Hunt LRF remotely using the Bluetooth remote control.

- The remote control provides more than 10 hours of continuous operation on a single charge and up to approximately 48 hours of total use with the charging case.
- When the battery is low, the indicator will flash red and blue alternately. Place the remote control in the charging case to recharge it. The charging case itself can also be charged while the remote control is inside.
- Once the device is paired with a remote control, it will not connect to another remote control automatically. To pair a different remote control, press and hold the “M” button for 10 seconds to clear the existing pairing, then connect the new remote control.

14 Download “ThermTec Outdoor” APP

User can download the ThermTec Outdoor app by scanning the QR code on the product packaging, in the user manual, or shown below.



15 Technical Inspection

Inspection Before Use

A technical inspection of the device is recommended before each use.

- Check the exterior of the device for cracks or other visible damage.
- Check the lens and eyepiece for cracks, grease, dirt, dust, or other contamination.
- Check the displayed image for dead pixels, lines, or other abnormalities. If any abnormality is found, please contact your dealer or authorized service center.

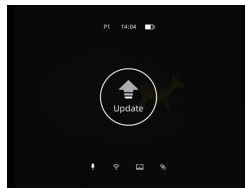
Caution

Damage to the detector caused by improper use, including sensor burn caused by artificial or external factors, is not covered by the warranty.

- After the firmware package has been downloaded and the update is ready to begin, disable mobile data to ensure a stable update process.
- After the update is completed, the device will restart automatically.

Firmware Update via PC

- Download the corresponding firmware update package from the official website: www.thermeyertec.com.
- Connect the device to a PC using a Type-C data cable.



- Copy the appropriate firmware update file to the "storage" folder of the Hunt. Then select the "Update" option and short-press the "M" button. The system will display an "Update" prompt.
- After the update is complete, enter the "Version" menu to check the current firmware version.
- A detailed firmware update video is available on the official ThermTec channel.

16 Maintenance

Maintenance should be performed at least twice a year and should include the following:

- Clean dust and dirt from the external metal and plastic surfaces using a soft cotton cloth. Silicone grease may be applied where appropriate.
- Inspect the optical surfaces of the lens and eyepiece. If necessary, remove dust or sand using a non-contact cleaning method whenever possible.
- Clean optical surfaces only with cleaning materials specifically designed for optical lenses.

17 Firmware Upgrade

ThermTec Outdoor App

The Hunt LRF Series Thermal Clip-On is supported by the ThermTec Outdoor app. After connecting the device to a smartphone or tablet via Hotspot, users can view the live image, access photos and videos, and use supported device functions through the app.

The electronic version of this User Manual and the latest firmware can be downloaded from the ThermTec official website: <http://www.thermeyeretec.com/>

The device firmware can be updated either through the ThermTec Outdoor app or via a PC.

Firmware Update via App

- Open the ThermTec Outdoor app and connect it to the device.
- If a new firmware version is available, an update notification will be displayed in the app.
- Enable mobile data before downloading the firmware package.



ThermTec Technology Co., Ltd.

✉ info@thermeyertec.com

🌐 www.thermeyertec.com



COPYRIGHT © 2026 ThermTec Technology Co., Ltd. ALL RIGHTS RESERVED.