

i47EE



K Series Handheld LRF Thermal Monocular

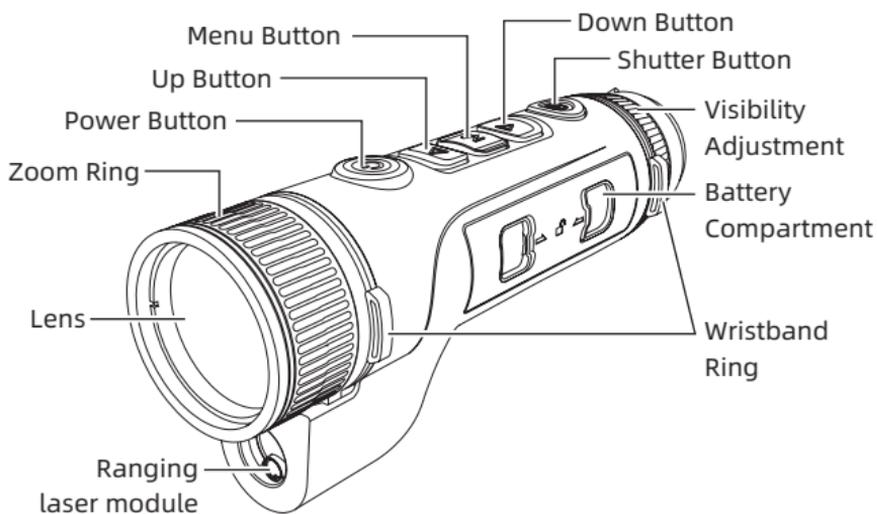
Quickstart Guide

Thank you for choosing our product. Please thoroughly go through user manual before operation and keep it well for future reference. All photos here are for reference only. and specifications are subject to the physical product.

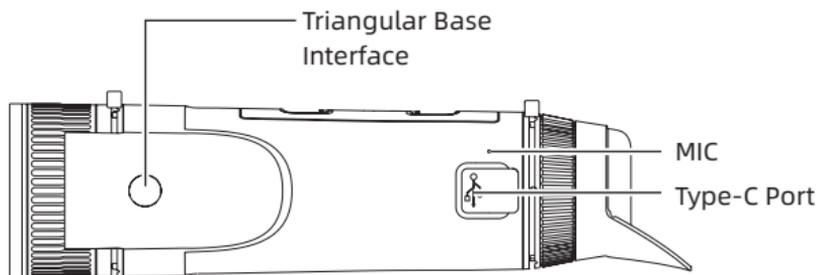
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- Illustrations -



P1



P2



- Product Overview -

Welcome to the K-LRF Series Handheld Thermal Imaging Monocular.

Embark on advanced nighttime explorations with the K-LRF Series, your ultimate companion for night-time hunting, law enforcement, search and rescue, and personal security tasks. Equipped with a 12 μ m thermal detector for superb clarity, a Full-HD AMOLED display for vivid imaging, and an integrated laser rangefinder accurate up to 1000 meters, this device ensures performance when you need it most. Ergonomically designed for easy blind operation in total darkness and adaptable for both left and right-handed users, it includes features such as video recording with audio, robust IP67 environmental protection, and up to 12 hours of continuous operation, making it the ideal tool for all your nocturnal adventures.

- Quickstart Instructions -

1. Appearance(P1-P2)

Serial number	Components	Functions
1	Ranging laser module	Laser ranging
2	Lens	Detect the surroundings
3	Zoom Ring	Rotate the zoom ring to the left to get a longer focal length Rotate the zoom ring to the right to get a shorter focal length
4	Power Button	Short press: shutter compensation/wake-up/exit menu Long press: power on/off
5	Up Button	Short press: integer magnification/change menu options Long press: smooth step amplification/change menu options
6	Menu Button	Short press: bring up the shortcut menu/confirm to save the settings Long press: bring up the main menu/exit the current menu without saving

Serial number	Components	Functions
7	Down Button	Short press: open the menu options of laser ranging/single ranging/change menu options Long press: close the laser ranging/change menu options
8	Shutter Button	Short press: take a photo Long press: Start/save recording
9	Visibility Adjustment	Rotate to adjust the eyepiece visibility
10	Battery Compartment	Space for installing batteries
11	Wristband Ring	Connect the wristband, Press to turn
12	Triangular Base Interface	1/4 in standard interface
13	Type-C Port	Connect the PC and the external screen via type-C cable
14	MIC	Sound-recording port

2. Battery installation (P1)

- a) Press the battery compartment cover buckle and pull out the battery compartment cover;
- b) Insert 2 batteries according to the positive and negative indications;
- c) Push on the battery compartment cover;

3. Data transmission (P2)

- a) Start the device to ensure it is in power-on state;
- b) Connect the device to the PC via USB Type-C cable;
- c) Access the data stored in the device from the PC;

4. Connection to mobile APP

- a) Start the device to ensure it is in power-on state;
- b) Turn on the WiFi hotspot on the device;
- c) Search the WiFi hotspot name of the device through the mobile phone and connect;
- d) Open the TargetIR APP on the mobile phone to get the real-time image of the device. Then you can control and access the device;

5. Charging/power supply

a) Charging mode

The device is for power supply only, but cannot be charged.

b) Power supply mode

Adapter and battery power supply is supported.

Adapter power supply:

The standard adapter of the product is used to connect the device for power supply. Open the USB cover and connect the adapter. The power supply icon as shown below can be seen in the lower left corner of the screen.



Battery power supply:

Power supply can be realized after the battery is installed according to the battery installation steps.

When the power level of battery changes, the power level indicator is displayed in the middle of the screen, with the illuminated part of the indicator showing the remaining power of battery.

After powering on and entering the real-time screen, the correct icon for the above power level of battery will be displayed in the lower left corner of the screen.

The power level is as follows:

High power level of external battery



Medium-high power level of external battery



Medium power level of external battery



Medium-low power level of external battery



Low power level of external battery



Too low power level of external battery



Note: The battery at low power level should be replaced in a timely manner!

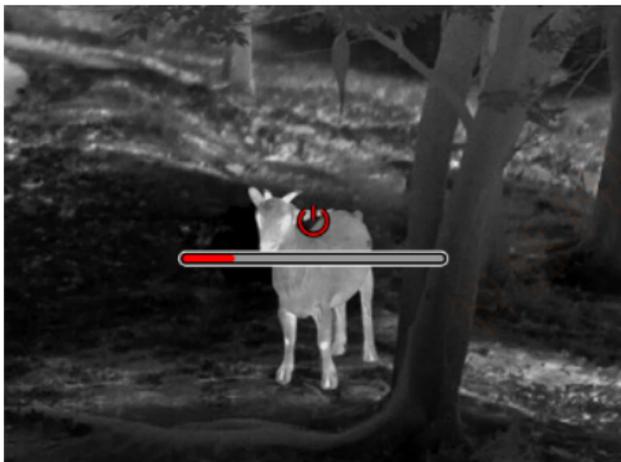
6. Function description

Power-on

Long press the power button in the power-off state until a startup screen appears in the eyepiece, indicating that the device has been started successfully.

Power-off

Long press the power button in the power-on state to display the shutdown progress bar, until the progress bar is completed for successful shutdown.



Display off

Long press the power button under the power-on state to display the shutdown progress bar. Before the progress bar is completed, releasing the power button can cancel the shutdown and enter the Display off mode.

Display on

In the Display off mode, triggering the device button can wake up the screen.

Compensation

Manual compensation: Short press the on/off button to complete the compensation action.

Automatic compensation: The compensation operation is executed automatically according to the focal temperature.

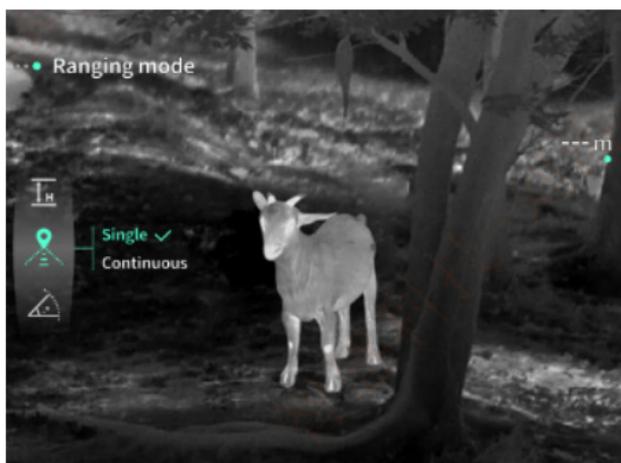
Exit menu

When the device is turned on and the menu is displayed, short pressing the power button can enable the device return to the real-time interface without saving.

Ranging

Short press the Down button to start ranging; For single ranging mode, a short press on the Down button can enable to measure the distance of the target, and a long press will disable the ranging function. The right zone displays the distance value of the target and ranging mode.

Ranging mode: Single ranging and continuous ranging modes are available. In the single ranging mode, a short press on the Down button will proceed a ranging and update the distance value. In continuous ranging mode, automatic ranging will be performed once every second.



Angle: When this function is enabled, the right zone will display the pitching angle of the device, falling within $[-90^{\circ}, 90^{\circ}]$. Angle will not be displayed when the ranging function is disabled.



Vertical height: When this function is enabled, the right zone will display the vertical height of the target. Vertical height will not be displayed when the ranging function is disabled.



Image enlargement: the real-time image is electronically enlarged at the magnification of 1x, 2x, 4x and 8x by short pressing the Up button, and at the electronic magnification of 0.1x by long pressing the Up button.

Scenario mode: Three scenario modes can be set: natural/enhanced/highlighted.

Picture-in-picture (PIP): You can turn off the picture-in-picture mode and switch the position of picture in picture to the upper left, upper middle and upper right. The picture-in-picture display captures the center part of the real-time picture and magnifies it by 2 times.



WiFi: The WiFi hotspots in two frequency bands, 2.4G or 5G, can be set up. After being connected through the mobile client and device, real-time images can be transmitted to the mobile APP, and the device can be operated through the mobile APP.

WiFi account: TJ-XXXX (XXXX represents the last four digits of the MAC address)

Password: 12345678



Hotspot tracking: When the device is turned on, the hotspot tracking cursor is displayed, which tracks the highest temperature point on the screen.



Image outlining: After the image is opened, the contours of all targets in the real-time screen can be drawn.

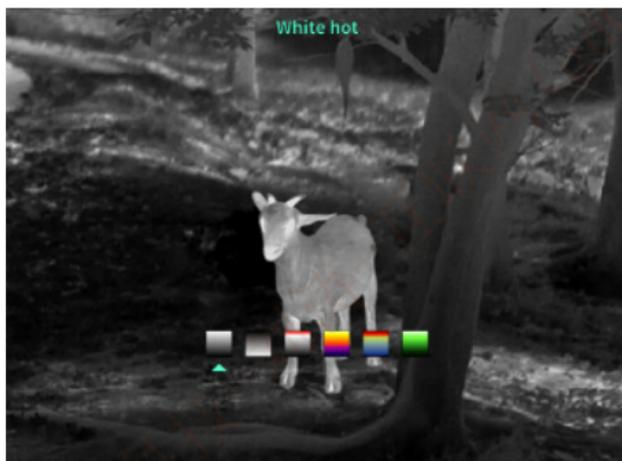
Super power-saving: If the super power-saving mode is switched on, a super power-saving icon appears, and the OLED brightness is nonadjustable and fixed at 20%. In this case, WIFI, hotspot tracking, and image outlining functions cannot be turned on. If they are already turned on, they can be turned off directly.



Screen brightness: 10 levels of screen brightness can be set.



Pseudo color: To set the pseudo color displayed in real-time screen, white thermal, black thermal, red thermal, iron red, blue thermal or green thermal can be selected.



Brightness: The screen brightness can be adjustable in a total of 10 levels.



Contrast: The screen contrast is adjustable in a total of 10 levels.

Screen enhancement: Enable the adjustable imaging quality and highlight the target details in real time.



Compensation mode: Manual or automatic compensation modes are available for the screen.

Smart stay: The automatic sleep time can be set to 5/10/15 minutes. If no operation is performed within the set time, the device starts the countdown to sleep. After the countdown ends, the device sleeps.

Timed shutdown: The automatic shutdown time can be set to 15/30/60 minutes. If no operation is performed within the set time, the device will start the countdown to shut down. After the countdown ends, the device will shut down.

Timed closing menu: The time to automatically close the menu can be set to 10/20/60 seconds. If no operation is

performed within the set time, the menu will be closed.

Fixed-duration video recording: The video recording duration can be set at 15s or 60s. After recording to the specified duration, the video will be automatically ended and saved. When the fixed-duration video recording turned off, the maximum video recording duration will be 99 minutes and 59 seconds.

Audio: When audio is turned on, audio will be recorded synchronously with the video, and sound will be played simultaneously with the video. When audio is turned off, then the recorded video will have no sound.



OSD: If OSD is turned on, all elements on the interface will be included in the images and video files saved after taking photos/videos. If OSD is turned off, no UI element on the interface will be included in the images

and video files saved after taking photos/videos, but all UI elements on the interface will still be displayed on the real-time screen as usual.

Watermark: If watermark is enabled, the time and date will be displayed in the bottom right corner of the screen. After taking photos and videos, the time information for saving the photos and videos will also be displayed.



Compass: When it is turned on, the direction pointed by the lens of the device will be displayed at the top of the screen.



Language settings: Support the switching among the languages such as English, Russian, German, French, Italian, Spanish, Japanese, Korean, Polish, Romanian, Norwegian, Swedish ,Danish ,Hungarian, Finnish, Czech and Slovak.

Unit: there are two optional units: meter and yard. When one unit is selected, the target distance or vertical height will be displayed in the selected unit.

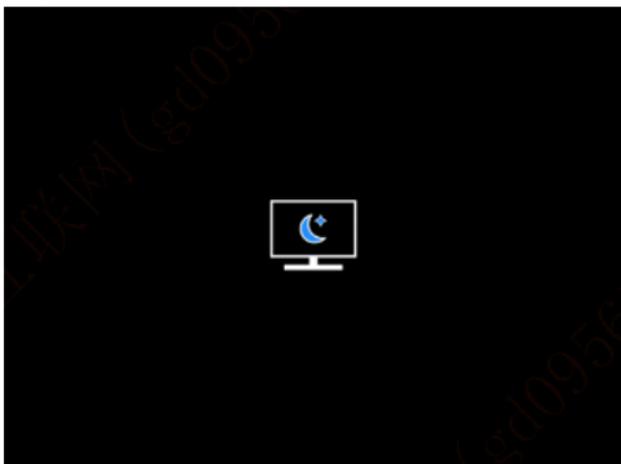
Time setting: Set the time and date on the device, and the results will be synchronized to the watermarked display.

Time format: 12H/24H systems are available for option, and the results will be synchronized to the watermarked display.

Date style: YYYY-MM-DD and DD-MM-YYYY are optional, and the results will be synchronized to the watermarked

display.

Screen-off display: When the device enters the screen-off state after starting, the standby icon will be displayed on the screen to reduce the power consumption. Press any button on the device to restore screen display.



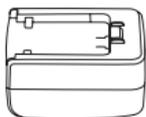
Bluetooth: Used to connect to a Bluetooth remote control, thereby controlling the device through remote control.

Memory card formatting: Delete all files from the memory card of the device.

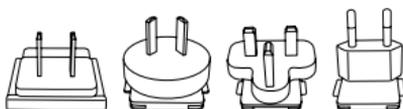
Restore default: The device can be restored to factory settings. After being restored to the default, the device will automatically restart and display the language guidance interface.

About: The information, such as device software version and MAC address, can be viewed.

- Item list -



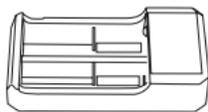
5V2A adapter
x1



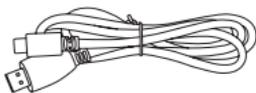
Adapter plug:
EU x1, UK x1, US x1, AU x1



Battery
x 2



Battery charging stand
x 1



Data cable
x 1



Quick operation manual
x 1



Warranty card
x 1



Safety information sheet
x 1

- Guide for common troubleshooting -

1. The device cannot be powered on.

Solution: Replace the battery or connect the adapter to power on.

2. Device prompts that it is disabled to take photos/vedios.

Solution: The memory space of the device is full, and it is necessary to format the memory card or disconnect the device from the computer.

3. The displayed time on the device does not match the actual time.

Solution: Reset the time and date on the device in the menu.

4. The screen turns off during use.

Solution: Short press the composite knob to wake up and light the screen.

5. The device imaging is blurry during use.

Solution: Rotate the lens to manually focus until the display is clear.

- Storage and transportation -

Storage:

1. Storage conditions for the packaged product: well-ventilated and clean indoor space at $-30^{\circ}\text{C}\sim 60^{\circ}\text{C}$, with $\leq 95\% \text{RH}$, and no condensed or corrosive gas;
2. Please take it out and charge it at regular intervals of 3 months.

Transportation:

Avoid rain, water invasion, upside down, violent vibration and impact during transportation. Handle with care and do not throw the product.

- After-Sales Support -

Thank you for choosing the K Series. We are committed to providing you with high-quality products and excellent customer service. This product comes with a 5-year warranty that covers defects in materials and workmanship under normal use.

Should you need assistance with your product or have any warranty claims, please contact us directly. Our dedicated support team is here to help you:

Contact Information

Email: sumingyang18@gmail.com

Address: 117 Port, Irvine, CA 92618

For more details on our warranty and support services, please visit our website or contact our customer service team directly. Your satisfaction and product experience are our top priorities, and we are here to ensure that your needs are met promptly and efficiently.



Special statement: the version of the guide will be updated after the technical improvement of the product.