

GTGUARD

ClearView Series

Thermal Imaging



Product User Manual

1.Introduction

1.1 Device Description

The GTGUARD ClearView B series thermal imaging system is an advanced optical device that utilizes infrared thermal imaging technology. Its advanced thermal imaging technology provides clear, accurate imaging in complete darkness, smoke, or inclement weather, helping users quickly locate targets. Whether performing tactical operations, hunting, or surveillance missions, it provides excellent visual support.

1.2 Features

- Thermal imager
- Laser rangefinder
- Photography / Photo shooting
- Video recording
- AP, Wi-Fi
- Picture-in-Picture (PiP)
- Target tracking
- Sight calibration
- Multiple scene modes
- View settings
- AI-powered detail enhancement

1.3 Main Features

Thermal imaging:

Delivers crisp, accurate images in total darkness, heavy smoke, or severe weather, guaranteeing exceptional visual performance at night and in challenging conditions.

High-resolution display:

The B215AL is equipped with a 1024×768 resolution LCD screen, while the B210AL features a 480×480 resolution AMOLED screen; both deliver sharp, detailed imaging with rich fine nuances.

Long-range detection:

Identifies distant targets swiftly, enabling rapid location and capture of critical information across a wide field of view.

Rugged durability:

Aluminum-alloy housing with IP65 protection, it withstands extreme environments to ensure stable, reliable operation even under harsh conditions.

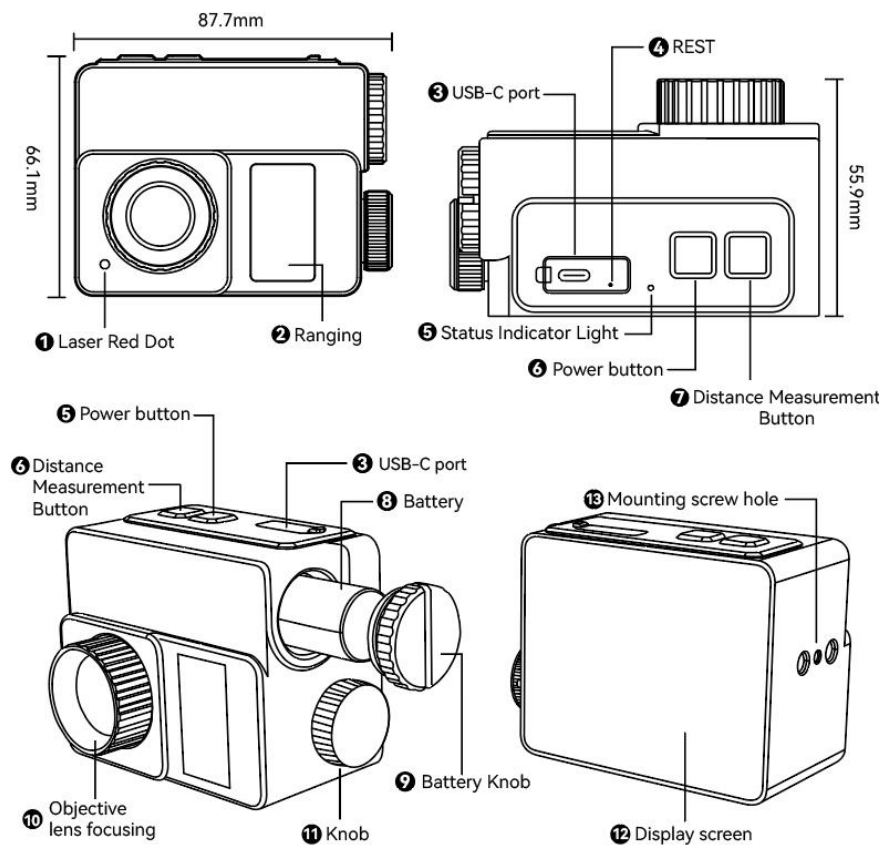
High-capacity storage:

32 GB of internal memory supports extended video recording and extensive photo storage, meeting a variety of mission demands.

False Color Mode:

Black hot mode, White hot mode, Red hot mode, Iron red mode, Rainbow mode

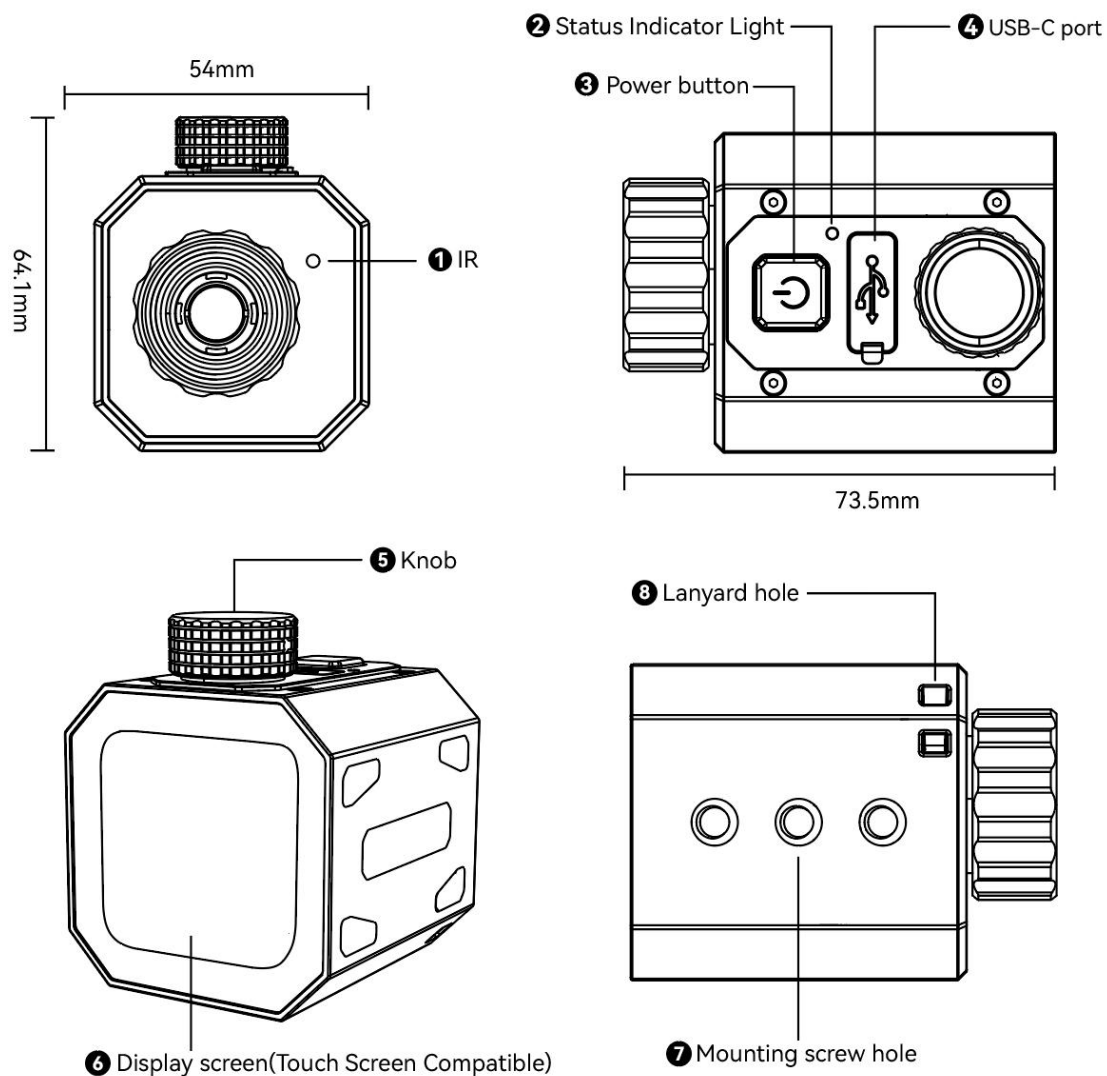
2.Appearance(B215AL)



Quick Function	Clockwise	Anticlockwise	Short press	Quick double-click	Long press
Power button	/	/	Screen Off	IR Indicator	Power on/off
Distance Measurement Button	/	/	/	/	/
Knob Key	Pseudocolor Mode	/	/	/	/
	/	Zoom Mode	/	/	/
	Last Step	Next Step	Confirm	/	Enter/Exit Menu
	/	/	Photo	Video	/

Note: Rotating the knob clockwise switches the pseudocolor mode up and down; after the menu disappears, rotating the knob counterclockwise switches the magnification up and down.

3.Appearance (B210AL)



Quick Function	Clockwise	Anticlockwise	Short press	Quick double-click	Long press
Power button	/	/	Ranging	IR Indicator	Power on/off
Distance Measurement Button	/	/	/	/	/
Knob Key	Pseudocolor Mode	/	/	/	/
	/	Zoom Mode	/	/	/
	Last Step	Next Step	Confirm	/	Enter/Exit Menu
	/	/	Photo	Video	/

Note: Rotating the knob clockwise switches the pseudocolor mode up and down; after the menu disappears, rotating the knob counterclockwise switches the magnification up and down.

4.Specifications

Model	ClearView B215AL	ClearView B210AL
Detector type	Vanadium Oxide Uncooled Infrared Focal Plane Array	
Objective	15mm F1.0	10mm F1.0
Field of view	$11.69^{\circ} \times 8.78^{\circ} \pm 5\%$	$17.46^{\circ} \times 13.14^{\circ} \pm 5\%$
Focus mode	Manual Focus (50m to ∞)	
Zoom	1× - 8× digital zoom	
Display	3.2", 1024x768 LCD	2.16", 480x480 AMOLED
False color mode	Black hot, white hot, red hot, iron red, green hot	
Hot spot tracking	support	
Wi-Fi hotspot	support	
Storage	32GB Internal Memory	
Recording function	Photo & Video Capture	
File management	Supports browsing, deleting, and exporting media	
Connection interface	Type-C supports battery charging and computer data transmission	
Motion sensor	3-axis Gyroscope + 3-axis Accelerometer + 3-axis Electronic Compass	
Mounting interface	1/4-inch threaded hole	
Battery life	≥ 3 hours	
Battery	Lithium-ion battery	
Operating temperature	-20°C to 60°C	
Protection level	IP65	
weight	88.7mmx66mmx55.9mm	73.5mmx64mmx54mm
size	344g (Including Battery)	188g (Including Battery)

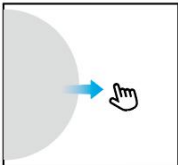
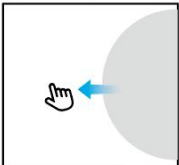
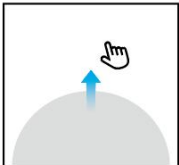
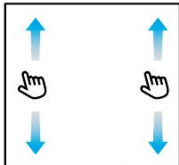
5.Quick actions

When not in the menu, use the buttons toperform shortcut key operations

B215AL (Knob Operation)

  Power on/off Long press to Power on/off	  Long Press Knob Enter / Exit Menu
  Turn the knob clockwise Switch False Color mode	  Turn the knob counterclockwise Switch Zoom

B210AL (Touchscreen Operation)

  Power on/off Long press to Power on/off	 1  2
 3  4	 5  6
3 Swipe from the left (Switch scene mode) 4 Swipe from the right (Switch False Color mode)	5 Swipe up from the bottom (Enter Menu) 6 Swipe up and down on the center of both sides of the screen.(Switch False Color mode)

5.Quick actions

When not in the menu, use the buttons to perform shortcut key operations

Zoom in

- ① Rotate the knob counterclockwise, and the image will be electronically magnified (switching sequentially to 1x, 2x, 4x, 8x magnification).
- ② Short-press the knob button to achieve electronic magnification.

Polarity [Pseudocolor] Switching

- ① Rotate the knob clockwise to switch pseudocolors (switching in the order of Black Hot, Iron Red Hot, Red Hot, Green Hot, White Hot).
- ② Long-pressing the knob allows you to select and switch color modes in the menu's color mode section.

IR Indication

Double-click the [On/Off button] to enable or disable the IR indicator function.

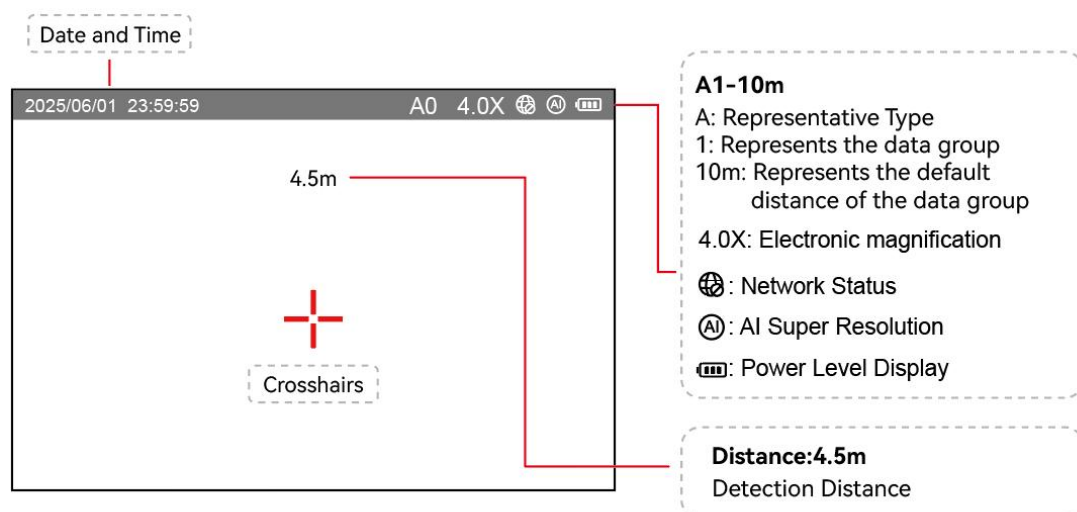
Photo/Recording Functions

A single click on the knob allows entry/exit of the photo function;

A double click on the knob allows entry/exit of the recording function;

6.Interface Description

The preview interface is an interface for displaying images, pictures, character information, etc. Some picture descriptions are shown in Figure 1.



7.Menu Function Description

Long press the button on the knob, and the main menu will pop up on the left side of the screen

False Color Modes: White Hot, Black Hot, Iron Red, Red Hot, Green Hot;
Scene Modes: Standard, Silhouette, City, Forest, Rainforest, Birdwatching;
Brightness: Image brightness in 1-5 levels;
Contrast: Image contrast in 1-5 levels;
Sharpness: Image sharpness in 1-5 levels;
Picture-in-Picture: Enable / disable the Picture-in-Picture function and set the display position;
IR Indicator: Enable / disable;
Ranging Mode: Single / Continuous;
Network Mode: Wi-Fi / Hotspot;
Attitude Display: Enable / disable;
Cursor Group: Image cursor types are divided into 5 groups: A, B, C, D and E;
Ballistic Table: Image aiming data is divided into 6 groups: 0, 1, 2, 3, 4 and 5;
Cursor Correction: Adjust coordinates;
Red Dot Calibration: Enable / disable;
long press the OK button to exit;
Cursor Table - Type: 5 cursor types are available for selection;
Cursor Table - Color: Red, Green, Blue, Black, White.

Settings

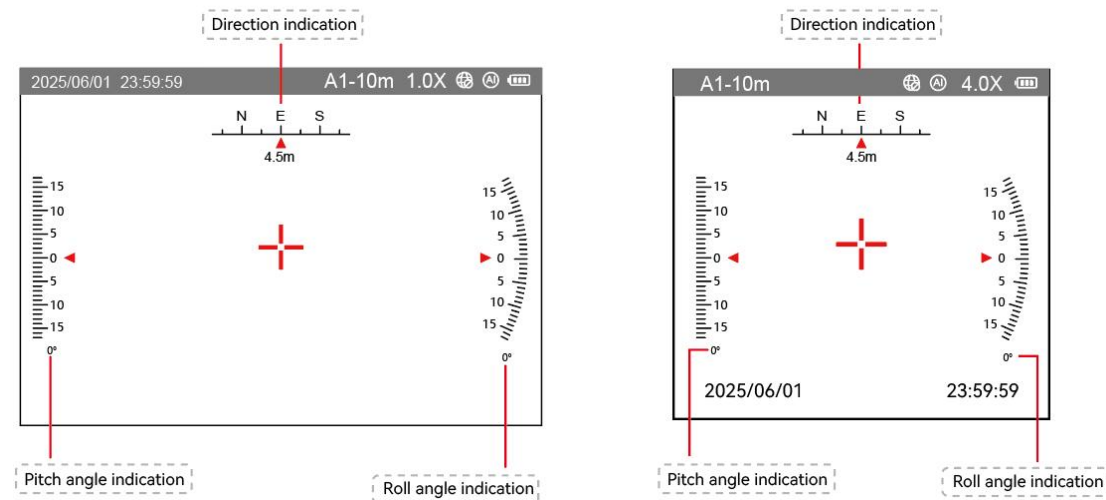
Screen Brightness: Screen brightness in 1-5 levels Level;
Auto Power Off: Off, 1 minute, 3 minutes, 5 minutes, 10 minutes;
AI Super Resolution;
Anti-Burn: On/Off;
Thermal Image Tracking;
Language: Switch operating language;
Unit: Meters/Yards;

System

Time Setting: 2025-10-01 12:29:30
PC Upgrade: Confirm/Cancel
USB Upgrade: Confirm/Cancel
Format: Confirm/Cancel
Default Setting: Confirm/Cancel
Factory Reset: Confirm/Cancel
Device Information

Postore Display

Long-press the knob button to open the menu, then enable the Attitude Display.



WiFi

Long-press the knob button to open the menu, then select Network Mode: Wi-Fi Mode. After a short press on the knob button, a Wi-Fi icon will appear next to the [Magnification] label on the preview interface. The host Wi-Fi name is "Model-WIFI" (Password: 12345678). Open the corresponding mobile app to operate.

AP

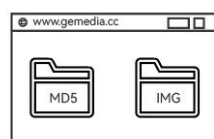
Long-press the knob button to open the menu, then select Network Mode: Hotspot Mode. After a short press on the knob button, a hotspot icon will appear next to the [Magnification] label on the preview interface. The host AP name is "Model-xxxxxx" (Password: 12345678). Open the corresponding mobile app to operate.

Firmware update via PC

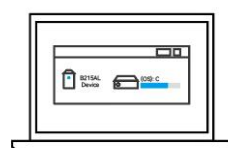
Please download the corresponding upgrade package from the official website "www.gtmedia.cc".

Copy MD5 and IMG to the Root storage file of "Model Device".

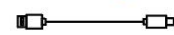
1. Long press the mode button
2. Select menu
3. System
4. PC upgrade



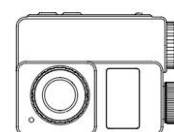
Unzip the upgrade package (MD5 and IMG)



PC

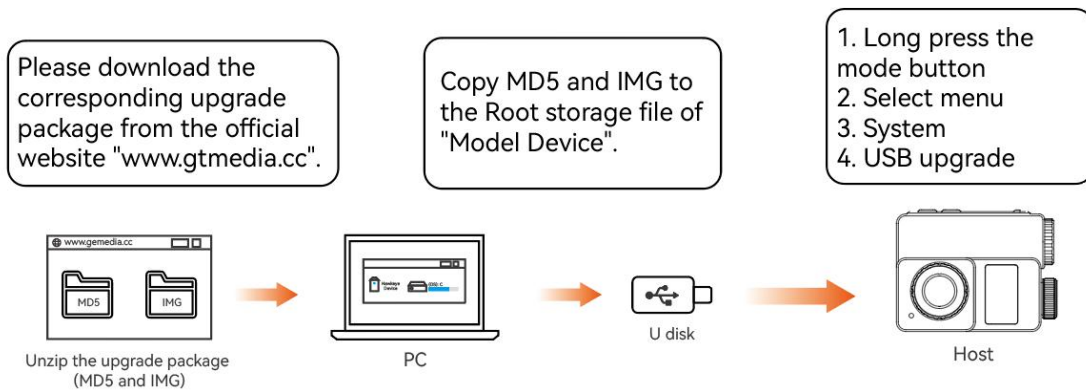


Data cable connected to computer

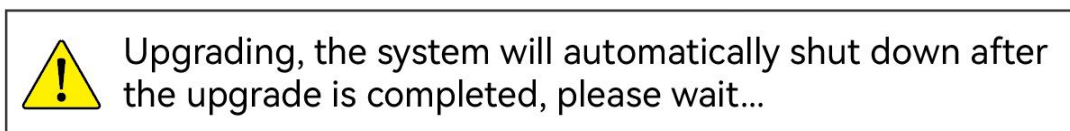


Host

Firmware update via U disk



After the copy is completed, unplug the USB cable, the machine will automatically upgrade the program and display the prompt as shown in the figure below. After the upgrade is completed, it will automatically shut down;



*Note: Please make sure the battery level indicator is above two bars before upgrading!

FCC Warning Statemen

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

REP EC

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