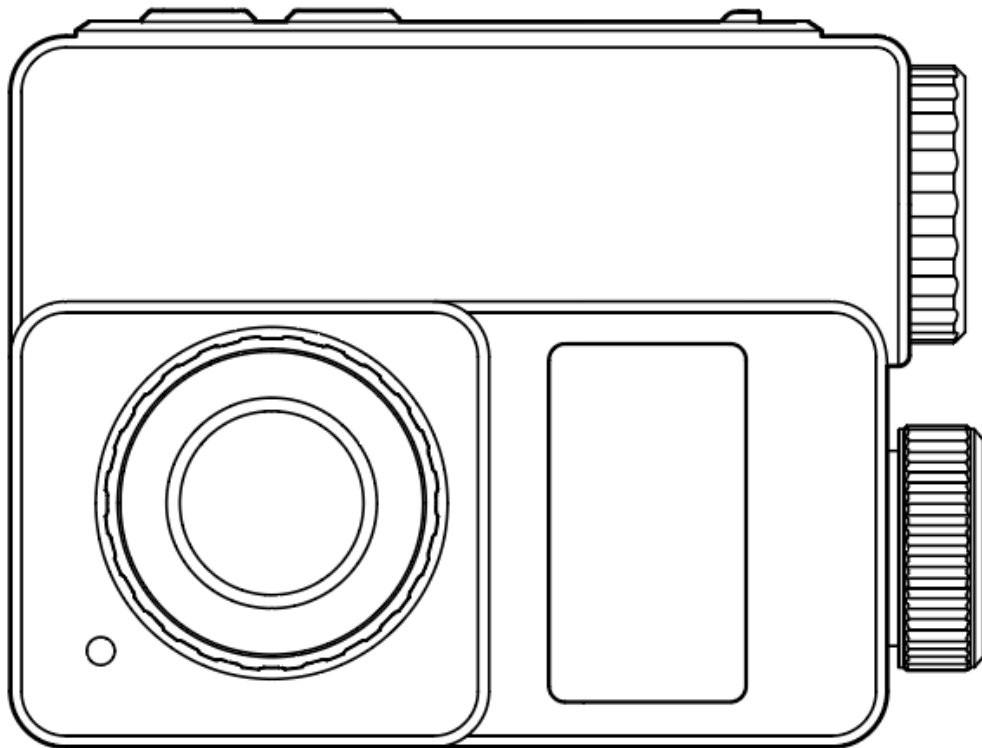


GTGUARD

ClearView B215AL

Thermal Imaging



Product User Manual

1.Introduction

1.1 Device Description

The GTGUARD ClearView B215AL 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:

Equipped with an 1024×768 LCD screen for sharp, detailed imagery rich in 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.

Laser rangefinding:

Provides precise distance measurements up to 600m with rapid response.

1.4 Standard Components



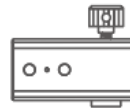
B215AL x1



Manual x1



Battery x1



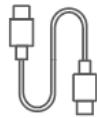
Fixed bracket x1



Lens cleaning cloth x1



Flannel bag x1



USB-C cable x1



Charger x1

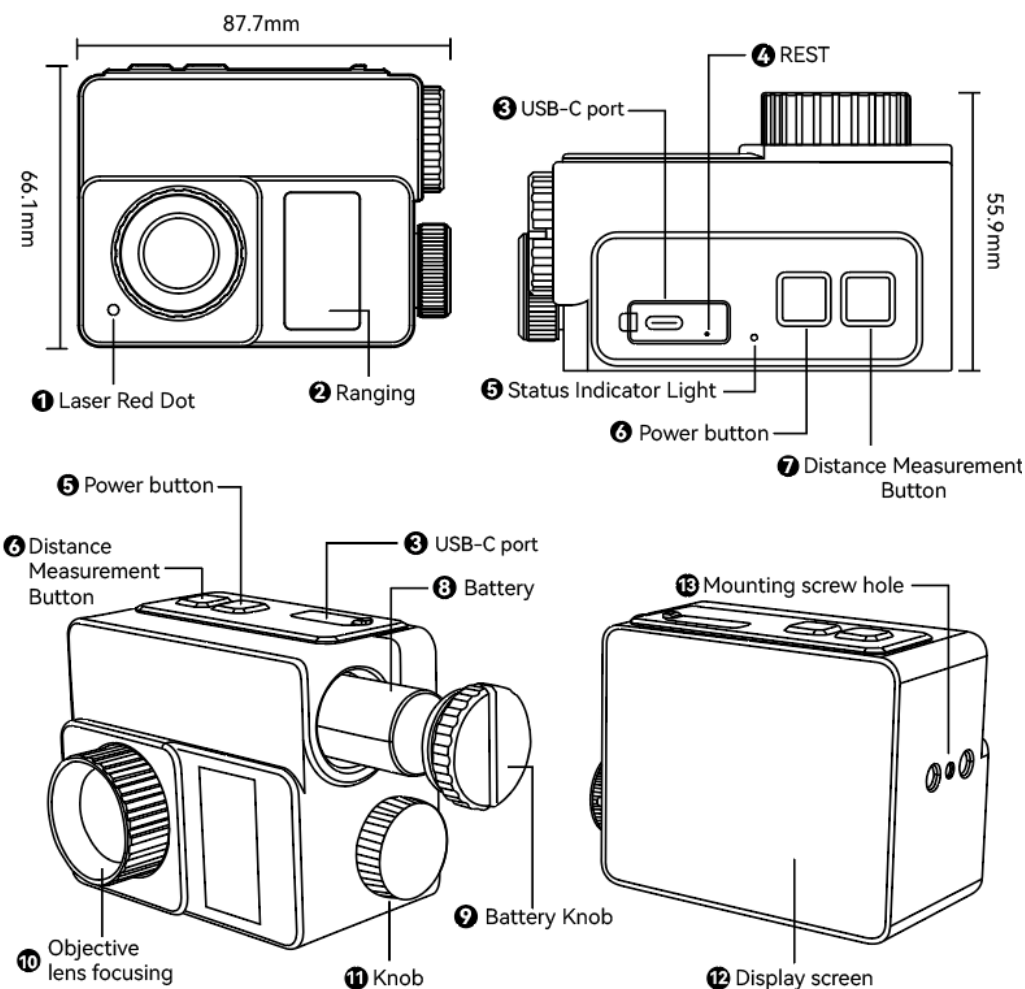


Fixing screws



Hexagon wrench

2.Appearance Description



Quick Function	Clockwise	Anticlockwise	Short press	Quick double-click	Long press
Power button				Laser	Power on/off
Distance Measurement Button			Ranging single/continuous		
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.

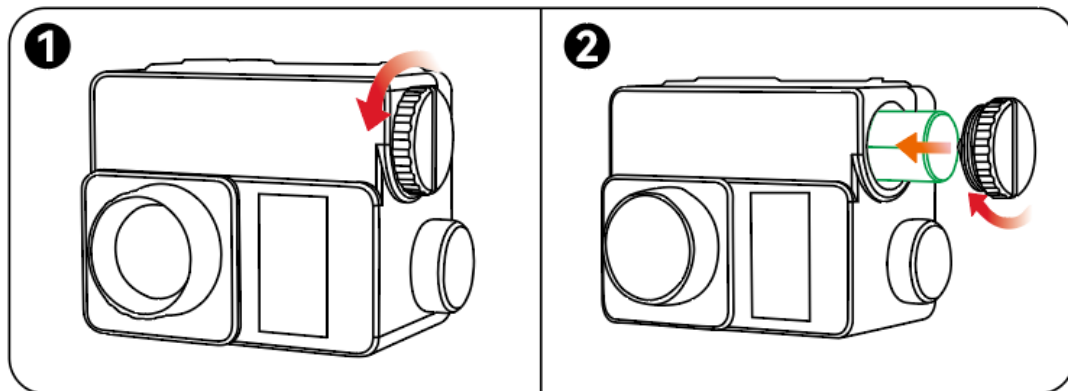
3.ProductSpecification

Model	ClearView B215AL
Detector type	Vanadium Oxide Uncooled Infrared Focal Plane Array
Detector resolution	256x192
Pixel size	12 μm
NETD	≤45mk
Response wavelength	8μm ~ 14μm
Objective	15mm F1.0
Field of view	11.69° × 8.78° ±5%
Focus mode	Manual Focus (50m to ∞)
Zoom	1× - 8× digital zoom
Display	3.2", 1024x768 LCD
False color mode	Black hot, white hot, red hot, iron red, green hot
Hot spot tracking	support
Wi-Fi hotspot	support
Screen off mode	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 type	3.7V 2000mAh Rechargeable Li-ion Battery
Operating temperature	-20°C to 60°C
Protection level	IP65
size	88.7mmx66mmx55.9mm
weight	344g (Including Battery)

4.Functional Description

Install the battery

1. Unscrew the battery compartment knob and turn it in the direction of the arrow;
2. Remove the protective cover;
3. Insert the battery into the battery compartment following the marked direction;
4. After pushing the battery in, firmly screw the battery compartment protective cover back on—this completes the installation.



Press and hold the [Power button] for 3 seconds to turn off the device. If you will not be using it for a short period of time, please remove the battery, clean the lens and device, and install the lens cap.

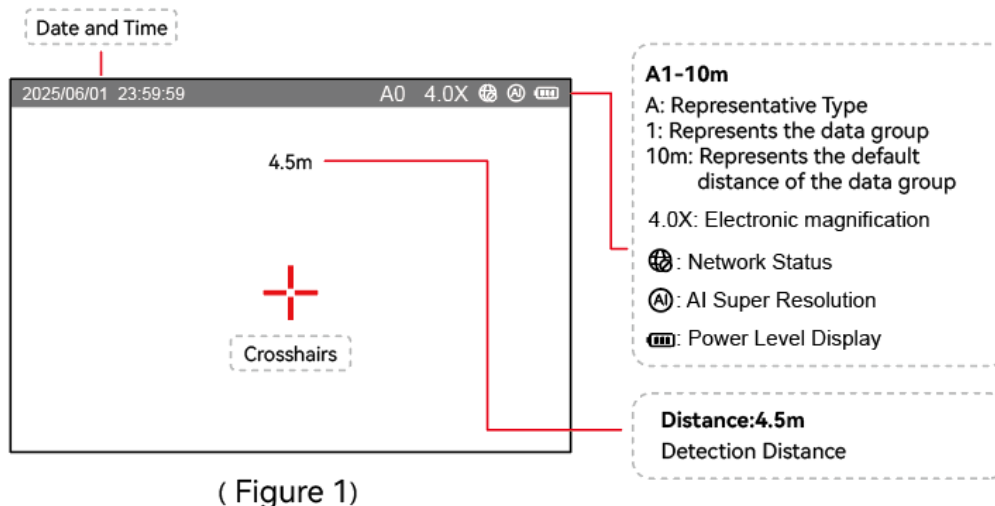
1.Power on/off

Long press the power button for 3 seconds to turn on/off the thermal imager

2.Thermal imaging instrument

When the target image in the scene is blurry, the lens focusing ring should be rotated to focus until the target image is clear. Clockwise rotation of the focusing ring results in close range focus, while counterclockwise rotation results in long-range focus.

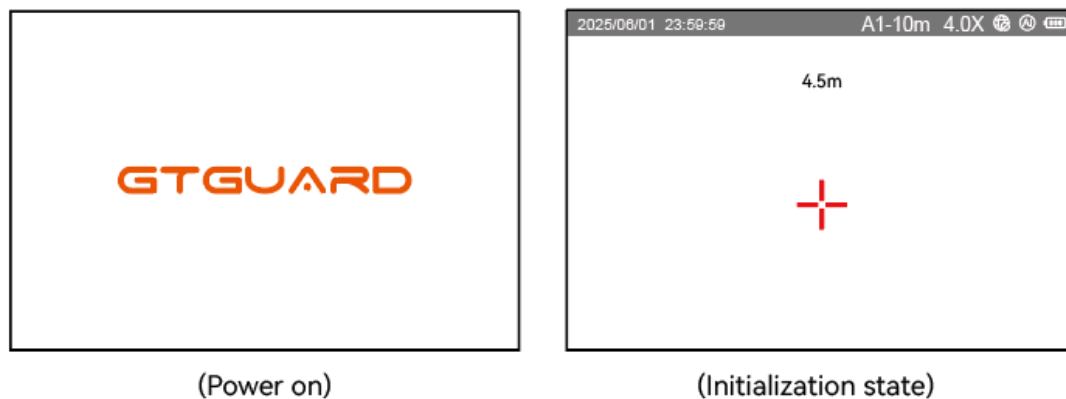
The preview interface is an interface for displaying images, pictures, character information, etc. Some picture descriptions are shown in Figure 1.



(Figure 1)

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.

Laser Indication

Double-click the [On/Off button] to turn on/off the laser pointer function.

Distance Measurement Modes

A short press on the [Laser Button] triggers the distance measurement function. The distance measurement modes include single-shot and continuous (you can select the distance measurement mode in the menu).

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.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;

Laser Pointer: Enable/disable;

Range Measurement Mode: Single/Continuous;

Network Mode: Wi-Fi/Hotspot;

Posture Display: Enable/disable;

Aiming Group: Image aiming types are divided into 5 groups: A, B, C, D, and E;

Shooting Table: Image aiming data is grouped into 0, 1, 2, 3, 4, and 5;

Aiming Correction: Adjust coordinates;

Laser Calibration: Enable/disable, exit by long-pressing the confirm button;

Aiming Table - Type: Select from 5 cursor types;

Aiming 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;

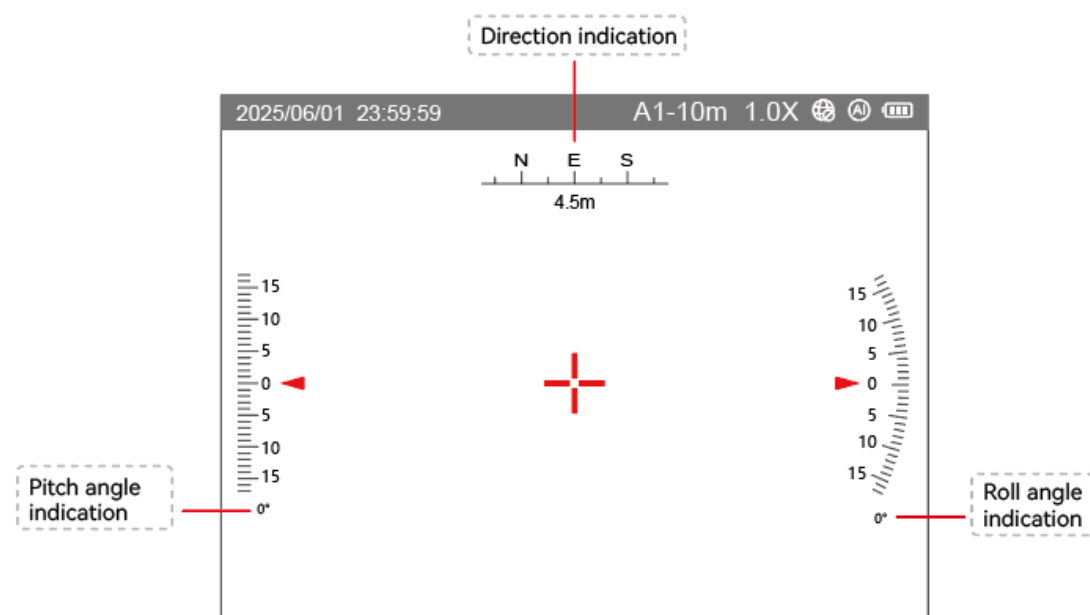
System

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 "B215AL-WIFI" (Password: 12345678). Open the corresponding mobile app to operate.

AP

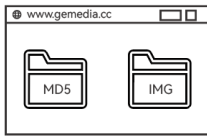
Long-press the knob button to open the menu, then select Network Mode: Hotspot Mode. After a short press on the knob button, a hotspot icon will appear next to the [Magnification] label on the preview interface. The host AP name is "B215AL-xxxxxx" (Password: 12345678). Open the corresponding mobile app to operate.

Firmware update via PC

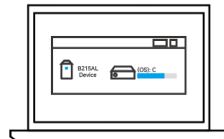
Please download the corresponding upgrade package from the official website "www.gtmedia.cc".

Copy MD5 and IMG to the Root storage file of "B215AL Device".

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



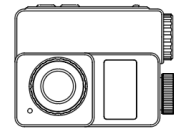
Unzip the upgrade package (MD5 and IMG)



PC



Data cable connected to computer



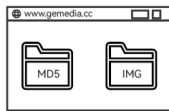
B215AL

Firmware update via U disk

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

Copy MD5 and IMG to the Root storage file of "B215AL Device".

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



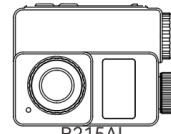
Unzip the upgrade package (MD5 and IMG)



PC



U disk



B215AL

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;



Upgrading, the system will automatically shut down after the upgrade is completed, please wait...

*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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For more product feature introduction/user guide/
software update/technical support, please visit the official forum www.freesat.cn
and the official
channel www.youtube.com/c/gtmediapub



YouTube Channel



www.freesat.cn