



User Manual



Sphinx Series
Thermal Imaging Handheld Camera

Important Reminder

- 1 All PARD products are exclusively designed for civilian use and strictly prohibited for any military purposes.

- 2 All PARD products are not authorized for export to, including but not limited to Russia, Belarus, Palestine, Israel, Sudan, South Sudan, and other conflict zones.

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Introduction

Thank you for your continued support and choosing PARD Sphinx Series thermal imaging handheld camera.

Please read this manual carefully before using the device for the first time.

Please follow the instructions in this manual to avoid any damage caused by improper usage. Please keep this manual in a safe place for future reference.

It provides step-by-step instructions for using your device.

This manual is for reference purposes only and may be subject to updates without prior notice.

For the latest information, please visit PARD's official website.

PARD reserves the final right to interpret this manual.

Precautions

- **Battery Usage:** Please remove the insulating tape from the battery before first use. Use a fully charged lithium-ion battery with a voltage rating of 3.7V.
- **Device Storage:** Turn off the device and remove the battery if not use for more than 10 days. Store the device & battery in a dry and safe place.
- **Handling and Transportation:** Exercise caution when handling or transportation the device. It is recommended to use the original packaging for transportation.
- **Light Exposure:** Do not use the device to focus directly on strong sources of light such as the sun or electric welding. Direct exposure may damage the detector and void the warranty.
- **Lens Protection:** Prevent lens scratches and damage from oil or chemical contamination. Keep the lens cap on when not in use.
- **Environmental Considerations:** Place the device in a cool, dry, and well-ventilated environment. Avoid strong electromagnetic fields. Ensure the storage temperature remains between -20°C/-4°F and 50°C/122°F.

- **Device Disassembly and Support:** Please refrain from attempting to disassemble the device without proper authorization. Unauthorized disassembly can result in voiding the warranty and may cause irreparable damage to the device. If you encounter any problems, please contact our after-sales team. Report any issues promptly to ensure timely resolution and proper support.
- **Attention! Export Requirements:** Please note that all PARD night-vision and thermal imaging devices require a license for export outside the country.

Package Contents

Icon	Contents	Quantity
	Thermal Imaging Handheld Camera	1
	Handle	1
	3.7V 18650 Rechargeable lithium-ion battery	1
	3.7V 21700 Rechargeable lithium-ion battery	1
	Mount	1
	Mount fastening screws	4
	Type-C cable	1
	Allen wrench D1.5 mm	1
	Allen wrench D3.0mm	1
	Allen wrench D4.0 mm	1
	18650 Battery adaptor	1
	21700 Battery adaptor	1
	User's manual	1
	After-sales card	1

Description & Key Features

Sphinx 480/640 is a compact and lightweight multi-purpose thermal imaging handheld camera. It features a 5-inch large screen with new generation 12 μ m, NETD $\leq$ 20mK vanadiumoxide sensor, you'll be amazed at how effortlessly it helps you spot your target, revolutionizing your hunting experience like never before. Additionally, our quick-release mount offers you an instant switch between a handheld thermal searching camera and a large-screen thermal aiming scope, adding unmatched convenience to your thermal imaging adventures.

Key Features

- 5-inch large screen multipurpose thermal imaging handheld camera
- Quick switch from a handheld camera to a thermal imaging scope
- Simple and easy to operate, beginner-friendly
- 480*360/640*512 Ultra-sensitive Uncooled Vox sensor
- 1200yd/1000m LRF
- Infrared Image Enhancement Algorithm (IREA)
- Compact body, compact design
- Hot track
- WiFi
- IP67 weatherproof rating
- 18650/21700 Lithium-Ion rechargeable battery
- 6000J recoil resistance

Specifications

Model		Sphinx 480	Sphinx 640
Classification		Multi-Purpose Thermal Imaging Handheld Camera	
Sensor			
Type		Uncooled VOx(vanadium oxide)	
Resolution(px)		480*360	640*512
Pixel Size(μm)		12*12	12*12
NETD		≤20mK (0.020℃)	≤20mK (0.020℃)
Frame Rate(Hz)		50	50
Detection Distance(m)		1800	1800
Image Engine		PARD IREA	PARD IREA
Objective lens(mm)		35	35
Optical Magnification(x)		2.5	2
Digital Zoom(x)		2/4/6/8	2/4/6/8
Field of view(HxV)	Horizontal	9.4°	12.5°
	Vertical	7.1°	10°
	Diagonal	11.8°	16°
Display			
Type		LCD	

Resolution(pixel)	1280*720
Reticle Style	6
Reticle Color	4(Red/White/Yellow/Green)
Scene Mode	City/Rain/Forest
Image Mode	WT-HOT/BK-HOT/EDGE/RD-HOT/IN-HOT/SKY
Photo / Video	
Photo Resolution(pixel)	1280*720
Photo Format	.JPG
Video Resolution(pixel)	1280*720
Video Format	.mp4
Storage(GB)	Micro SD card (Max. 128)
Main function	
LRF Detection Range (yd/m)	1200/1000
PIP	Yes
Loop Recording	Yes
Hot track	Yes
Shutter	Mechanical shutter
Microphone	Yes
Firmware Upgrade	Yes

Connections	
USB Tpye-C	Yes
WiFi	Yes
Supported Apps	PardVision2
Power Supply	
Main Device Battery Type	Li-ion 18650
Handle battery type	Li-ion 21700
Output Voltage(V)	3.7
Operating Time(h)	≤6
External Power Supply Type	Type-C
Environmental characteristic	
Degree of Protection	IP67
Operating Temp(°C/°F)	-30 ~ +55 / -22 ~ +131
Recoil Resistance(J)	6000
Material	
Housing	Aluminum Alloy

Components

Sphinx 480/640



Fig. 1

No.	Name	No.	Name
①	5-inch screen	⑥	Rangefinder (LRF)
②	Keypad	⑦	Battery compartment cap
③	Handle (Include 18650/ 21700 battery adaptor)	⑧	Objective lens focus ring
④	Objective lens	⑨	Micro SD card slot
⑤	Torchlight	⑩	Type-C charging port

Installation

1. Unboxing

Before using this device, please do the following:

- ① Open the box and remove the device.
- ② Check to ensure that the package contents listed above are all included in the box.
- ③ Check the device for any damage to the display, body, lens, buttons, etc.
- ④ Make sure that the objective lens and eyepiece are clean & functioning properly.

Note: If any accessories are missing or damaged, please contact PARD after-sales service.

2. Battery Installation and Startup

The battery installation steps are as follows:

1.1. Unscrew the battery cap clockwise and pull out the battery.

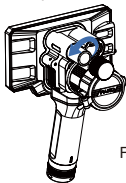


Fig. 2

1.2. Tear off the insulating tape on the positive terminal of the battery.



Fig. 3

1.3. Insert the battery, ensure the positive (+) side goes in first and tighten the battery cap in a clockwise direction.

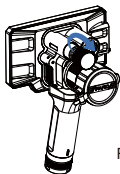


Fig. 4

1.4. Long press the power button for about 3 seconds to power the device. (The power indicator lights up and PARD Logo is displayed on the screen, which means the device is ready for use.)

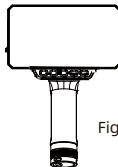


Fig. 5

Note:

- 1 Use 18650/21700 rechargeable lithium-ion battery with a voltage rating 3.7V;
- 2 Do not expose the battery pack to high temperature or to a naked flame;
- 3 Do not put the device into water when the battery cover is open;
- 4 Do not expose disassemble the device without authorization;

- ⑤ Do not pierce the device with sharp objects;
 - ⑥ Battery should be kept out of reach of children, and the positive and negative terminals of the battery should be installed correctly;
 - ⑦ Whilst charging the battery do not leave the battery unattended;
 - ⑧ When using the battery at cold(low) temperatures, the battery capacity decreases, this is normal and not a defect;
 - ⑨ Do not use the battery if it has been damaged in any way;
 - ⑩ After charging is complete do not leave the battery on charge connected to the network.
-  Please act responsibly and recycle or dispose of all used batteries according to the law.

3. Mount Installation

To ensure optimal performance and user experience, we highly recommend using our original mount provided in the product packaging.

- ① Open the box and take out the device, 1 mount and 1 Allen wrench.
- ② The device features 3 mounting holes located at the bottom.
- ③ Attach the mount securely to the bottom of the device using the Allen wrench and screws.
- ④ The mount is compatible with standard rail.
- ⑤ Start by closing the quick-release lever and then securing the screw (on the left of Fig. 6) to attach it to the rail.

Note: Tighten the fastening screw securely during the initial setup. Subsequently, there is no need to re-tighten the fastening screw for future use.



Fig. 6

4. Objective Lens Focusing

Adjust the objective lens focus ring until a clear image of the target is achieved.

5. E-Compass Calibration

This device only needs to do compass calibration when it is used as thermal imaging scope or handheld monocular.

Please use the "figure 8 pattern method" to calibrate the compass.

Users are required to tilt and move the device in a figure 8 motion until the compass is calibrated as shown in the Fig. 7.



Fig. 7

6. Zeroing

This device only needs to be zeroing when it is used as thermal imaging scope. Reticle adjustment refers to aligning the reticle with the point of impact at a specific zeroing distance. This ensures that the aiming point coincides with the bullet's actual point of impact at that distance.

(1) **Set the target:** Set the target at the desired zeroing distance and ensure that the device provides a clear image of the target.

(2) **Enter the reticle adjustment (Zeroing page):** From the home screen, press [Key 2] to access the menu. Then press [Key 3] to select the Reticle Adjustment option. Press [Key 4] to enter the sub-menu interface shown in Fig. 8.



Fig. 8

(3) **Profile setting:** Once on the zeroing page, press [Key 3] or [Key 5] create a new zeroing profile or edit an existing one (Fig. 9).



Fig. 9

(4) **Shoot:** Fire a shot at the center of the target (A) and ensure that the point of impact(B) is clearly visible on the screen as shown in Fig. 10.



Fig. 10

(5) **Adjust zero value:** After shooting, hold the device steady. Press [Key 4] to move the cursor to the "X" item, click [Key 3] or [key 5] to freeze the screen. Press [Key 3] or [Key 5] again to adjust the value of "X". Similarly, move the cursor to the "Y" item by pressing [Key 4], and adjust the value of "Y" with [Key 3] or [Key 5] until the center point of the reticle (A) aligns with the point of impact (B) on the display screen;

(6) **Save and exit:** Press [Key 5] to set the "Save" item and set it to "Y". Once the settings are complete, press [Key 4] to save and exit. The center point of the reticle(A) will now align with the point of impact(B).

Note: There are five profiles A-E. The "X" and "Y" values represent the corresponding display positions of the crosshairs. "Style" represents the corresponding reticle type. "Color" represents the corresponding color of the reticle.

Operation Instruction

Interface

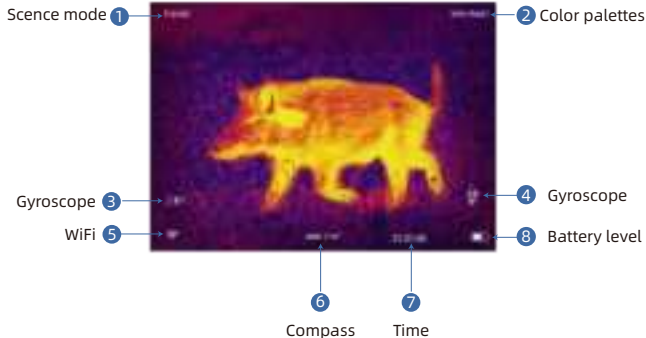
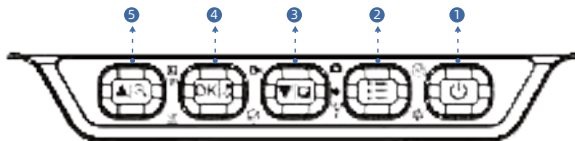


Fig 11

Shortcut Mode



Keypad	Single press	Press and hold	Double press
KEY 1	Sleep/Wakeup	Power on/off	-
KEY 2	Menu	Switch scene mode	-
KEY 3	Down key/ Switch image mode	Take photo	Turn on/off torchlight
KEY 4	Confirm/LRF on	Record video	Shutter correction
KEY 5	Zoom in/Up key	Disable WiFi/View files	Open/Close PIP

Explanation

Key 1

1.1 Single press: Press [Key 1] to put device into sleep mode when the device is on. Press [Key 1] again to wake up device from sleep mode.

1.2 Press and hold: Press and hold [Key 1] to turn on/ off the device.

Key 2

1.1 Single Press

Home screen mode: press [Key 2] to open/close the menu interface.

1.2 Press and hold

Home screen mode: press and hold [Key 2] to switch among City/Forest/Rain scene modes.

Key 3

1.1 Single press

Home screen mode: press [Key 3] to switch image modes:
WT-HOT/BK-HOT/EDGE/RD-HOT/IN-HOT/SKY.

Menu mode: press [Key 3] to scroll down or adjust the relevant option settings.

1.2 Press and hold

Home screen mode: press and hold [Key 3] to take a photo.

1.3 Double press

Home screen mode: double press [Key 3] to turn on/off the torchlight.

Key 4

1.1 Single press

Home screen mode: press [Key 4] to start the LRF range detection function. The distance will be measured and displayed automatically.

Menu mode: press [Key 4] mens confirm.

1.2 Press and hold

Home screen mode: press and hold [Key 4] to record a video.

1.3 Double press

Home screen mode: double press [Key 4] to perform a shutter calibration action.

Key 5

1.1 Single press

Home screen mode: press [Key 5] to zoom in 2x/4x/8x times.

Menu mode: press [Key 35] to scroll up or adjust the relevant option settings.

1.2 Press and hold

Home screen mode: press and hold [Key 5] to view video and picture files saved on the memory card:

- ① Press [Key 3]/[Key 5] to switch between files.
- ② Press [Key 4] to play/pause the saved videos.
- ③ When playing videos, press [Key 3] / [Key 4] to fast forward or rewind 2x/4x/8x times.
- ④ Press the [Key 2] button to access the following settings.

- | | | |
|-------------------|--------------------|------------------|
| 1)Delete: | 2)File Protection: | 3)Slide Show: |
| a) Delete Current | a) Lock Current | a) Two seconds |
| b) Delete All | b) Unlock Current | b) Five seconds |
| | c) Lock All | c) Eight seconds |
| | d) Unlock All | |

- ⑤ Press and hold the [Key 2] button to return the home screen.

1.3 Double press

Home screen mode: double press [Key 5] to turn on/off the picture-in-picture function.

Menu Mode

Home screen mode: press [Key 2] to enter the Menu mode, where you can set various function options within the menu bar. Please note that the shortcut key function is disabled in this mode (Fig. 12).



Fig. 12

1. Image Setting

Users can adjust the image contrast, brightness, detail and mode under this setting.

- ① Press [Key 3] to move the cursor to the Image Setting option, press [Key 4] to enter the sub-menu.
- ② Press [Key 2]/[Key 4] to switch between Contrast/Brightness/Target/Mode options, and press [Key 3]/[Key 5] to adjust the option value.
- ③ Press and hold [Key 4] to exit. Upon the next startup, the device will maintain the saved image settings.

2. Display setting

Users can adjust the LCD brightness and Image Setting under this sub-menu.

- ① Press [Key 3]/[Key 5] to move the cursor to the display setting options and press [Key 4] to enter the sub-menu.
- ② Press [Key 2]/[Key 4] to switch between the two options. Press [Key 3]/[Key 5] to adjust the value.
- ③ Press and hold [Key 4] to save and exit.

3. Ballistic Calculator

Through the ballistic algorithm, the relevant parameters affecting the bullet trajectory are calculated and then an auxiliary crosshair is indicated on the side, for accurate shooting.

- ① Press [Key 3]/[Key 5] to move the cursor to the Ballistic Calculator setting option, press [Key 4] to enter the submenu interface.
- ② Press the [Key 3]/ [Key 5] to move the cursor to select the parameters /turn on/ turn off the ballistic calculator sub-option, and then press the [Key 4] to save or enter.
- ③ After entering the Ballistic Calculator Parameter settings submenu, press the [Key 4] to move up or down to select the parameters option you want to change, and press the [Key 3]/[Key 5] to adjust the value of the corresponding parameter.

Note:

Parameter settings guide:

- **Ballistic data:** There are 5 sets of ballistic data profiles (A-E) that can be saved.
- **Velocity:** refers to the measurement of bullet travel speed after it is fired from your rifle. It is expressed in meters per second(m/s) or feet per second(f/s) and can be measured using professional testing equipment.

- **Bullet Wt:** refers to the weight of the bullet and is expressed in grams(g) or grains(gr). This information can be obtained from the manufacturer's specifications on the box of ammunition that you purchase.
- **Bullet BC:** refers to bullet ballistic coefficient, is a measure of the bullet's ability to overcome air resistance in flight. This data can also be obtained from the manufacturer's specifications on the box of ammunition.
- **Altitude:** refers to the elevation of the location where you are shooting. It is expressed in meters(m) or feet(ft). Altitude is an important factor affecting air density in ballistic calculation and can be measured using professional testing equipment.
- **Temperature:** refers to the local temperature at the shooting location. It is expressed in Celsius(°C) or Fahrenheit(°F). Temperature is another important indicator affecting air density in ballistic calculations and can be measured using professional testing equipment.
- **Scope Ht:** refers to the height difference between the optical axis of the sight and the barrel. It is expressed in millimeters(mm) or inches(inch). To calculate the Scope Height, add the following measurements together: a), measure the diameter of your barrel and divide it by 2. b), measure the diameter of your scope or lens and divide it by 2. c), measure the distance between the top of your barrel and the bottom of your scope. This combined value (a+b+c) will give you the Scope Height. Use professional testing equipment for accurate measurements.
- **Zero range:** refers to the unit distance at which the rifle is zeroed. It is expressed in meter(m) or yard(yd). Typically, the zero range is set to 100 meters or 100 yards, but users can adjust it according to their preferences.
- **Reference Point Shape and Color:** The ballistic calculator allows customization of point shape and color. Press [Key 5] to enter this sub-option. Use [Key 4] to switch between Shape and Color. Press [Key 3]/[Key 5] to select the desired style and color. Press [Key 2] to confirm and return to the previous interface.

4. Range Unit Selection

Users can switch between "meter" or "yard" and the range unit can be updated instantly to meet the user's preference.

- ① Press [Key 3]/[Key 5] to move the cursor range unit selection option, and press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to choose between "meter" or "yard", then press [Key 4] to save and return to the previous page.

5. Reticle Adjustment

Reticle Adjustment refers to aligning the reticle with the point of impact at a common shooting distance, so that the position of the aiming point at this specific distance is the bullet hit point, to achieve shooting accuracy.

- ① Press [Key 3]/[Key 5] to move the cursor to the reticle adjustment setting option, press [Key 4] to enter the sub-menu interface.
- ② Press [Key 4]/[Key 2] to switch sub-menu options, and press [Key 3]/[Key 5] to adjust the value of the corresponding item.
 - The first item represents the crosshair storage type (there are 5 profiles A-E).
 - X and Y represents the coordinates of the cross line.
 - Style corresponds to the crosshair type (6 types for selection).
 - Color corresponds to the color of the cross line (red/white/yellow/green 4 colors for selection).
 - Under the Save item, "Y" means to save, and "N" means not to save.
- ③ After selecting your preferred settings, press and hold [Key 4] to save and return to the home screen.

6. Gyroscope

Through this function, the orientation of the device can be measured, and the yaw and pitch angles of the device can be displayed and calibrated.

- ① Press [Key 3]/[Key 5] to move the cursor to the gyroscope setting option, and press [Key 4] to enter the submenu interface.
- ② Press [Key 3]/[Key 5] to select "Display" or "Calibration", and then press [OK] to enter;
- ③ "Display" means whether to display the yaw and pitch angle of the device on the home screen, press [Key 3]/[Key 5] to select "Off" or "On", and press [Key 4] to save and return to the menu interface.
- ④ "Calibrate" means to enter the calibration state. After selecting, please place the device on a horizontal plane surface, and press [Key 4] to perform automatic calibration. After calibration, it will automatically return to the home screen.

7. Scene

There are three built-in scene modes, "City", "Forest" and "Rain". Users can choose any of the available scenes to achieve the best image display effect.

- ① Press [Key 3]/[Key 5] to move the cursor to the scene option, press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to move the cursor to select "City", "Forest" or "Rain" mode. Press [Key 4] to save and return to the previous page.

8. Picture in Picture (PIP)

The top center of the display can show a 2x magnified picture to improve aiming visibility.

- ① Press [Key 3]/[Key 5] to move the cursor to the PIP setting option, and press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to move the cursor to select "PIP OFF" or "PIP ON" .
- ③ After selection, press [Key 4] to save and exit.

9. Hot Track

The device can detect and display the highest temperature point on the screen and automatically keep tracking this target heat source.

- ① Press [Key 3]/[Key 5] to move the cursor to the hot track setting option and press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to move the cursor to select "Off" or "On" . Press [Key 4] to save and return to the previous page.

10. Self-activated Recording

Just turn on Self-activated recording and as soon as the device detects recoil, it will automatically start recording at 20 seconds intervals. The 20-second video footage of the shooting moment will be saved in the Micro SD card .

- ① Press [Key 3]/[Key 5] to move the cursor to the self-activated recording setting, and press [Key 4] to enter the sub-option interface.
- ② Press the [Key 3/Key 5] to move the cursor to select the option "OFF" , "ON" and "Impact Sensitivity" .
- ③ After selecting "Off" or "On" , press [Key 4] to save and return to the previous page;
- ④ After selecting "Impact Sensitivity", press [Key 4] to enter the sub-option menu of sensitivity level, press [Key 3]/[Key 5] to move the cursor to select "Low", "Medium" or "High" mode; Press [Key 4] to save and return to the previous page.

11. Auto Power Off

When this function is enabled, the device will detect the last button operation as the starting point and execute the auto power-off command based on the set shutdown duration. This setting will be retained and continue after the next power-on.

- ① Press [Key 3]/[Key 5] to move the cursor to select the auto power off setting, and press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to select "Off", "1 Min", "10 Min" or "30 Min" duration options. After selection, press [Key 4] to confirm and save, and return to the previous page.

12. Auto recording

After auto recording is on, device will start recording and continue to record after the next startup.

- ① Press [Key 3]/[Key 5] to move the cursor to the auto recording setting option and press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to select "Off" or "On" options, press [Key 4] to save and return to the previous page.

13. Loop Recording

Through this function, users can customize the segmented recording duration setting or turn off the loop recording function. When the memory card capacity is full, the new recording will automatically overwrite the previous video file. When Off is selected, the loop recording feature is turned off.

- ① Press [Key 3] / [Key 5] to move the cursor to the loop recording setting option, and press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to move the cursor to select preferred loop time duration "Off", "1 Min", "3 Min", "5 Min" or "10 Min". Press and hold [Key 4] to save and return to previous page.

14. Date Stamp

Users can set whether to display the time stamp in the lower right corner of photos and videos taken.

- ① Press [Key 4]/[Key 5] to move the cursor to the date stamp option, press [Key 4] to enter the sub-menu;
- ② Press [Key 4]/[Key 5] to select on/off date stamp, and press [Key 4] to confirm and exit.

15. Record Audio

User can set whether to record audio synchronously in the video.

- ① Press [Key 3]/[Key 5] to move the cursor to the recording audio setting option, press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to move the cursor to select “Off” or “On” option, after selection, press [Key 4] to save and return to the previous page.

16. WiFi

Through the WiFi connection, you can use your phone, PC or tablet as an external viewfinder enabling users to synchronously see the photos and videos on a larger screen.

- ① Press [Key 3]/[Key 5] to move the cursor to the WiFi setting option, and press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to move the cursor to select “On” or “Off” option. Select “Off”, and return to the previous page. Select “On” to enable WiFi and return to the home screen.

Steps to connect to your mobile device:

- Download “PardVision2” from the Apple App Store or the Google Play Store.
- Turn on the WiFi on your device and on your mobile device.
- Search the WiFi on your mobile device (the device WiFi network is a string of characters starting with PARD, which is a unique string of numbers). Please enter the password: 12345678 to connect.

Note:

The menu interface cannot be opened after the WiFi function is turned on, please long press [Key 5] to turn off the WiFi and re-enter the menu interface.

17. Language

Users can choose their preferred language.

- ① Press [Key 3]/[Key 5] to move the cursor to the language setting option, press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to move the cursor to select the desired language.
Press [Key 4] to switch the system language and return to the previous page.

18. Date/Time

Users can set the system date and time of the device.

- ① Press [Key 3]/[Key 5] to move the cursor to the date/time setting option, press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to adjust the setting date and time value, press [Key 4] to switch options, press [Key 2] to save and return to the previous page.

19. Format

If users want to reformat the Micro SD Card, it will delete all the data on this card permanently. Data cannot be recovered after reformatting. Please operate with caution!

- ① Press [Key 3]/[Key 5] to move the cursor to the format option, press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to select Cancel/OK, and press [Key 4] to confirm and exit the menu interface.

20. Blind Pixel Compensation

The blind pixel compensation algorithm enables automatic compensation for blind spots that no longer respond to light and also reduces image distortion.

- ① Press [Key 3]/[Key 5] to move the cursor to the blind pixel compensation option, press [Key 4] to enter the sub-menu.

You will see important reminders:

- 1) Please put on lens cap;
 - 2) Long press the menu key to execute;
 - 3) Short press the ranging key to exit;
- ② Put on lens cap, press and hold [Key 2] to start the blind pixel compensation. After the process is completed, you can press [Key 5] to move the cursor to backup: "Yes" or "NO" .

21. Default Setting

If users decide to reset the device, it will restore the device to the factory default settings and all of the user data and personalized settings will be deleted.

Please operate with caution!

- ① Press [Key 3]/[Key 5] to move the cursor to restore default setting option, press [Key 4] to enter the sub-menu.
- ② Press [Key 3]/[Key 5] to move the cursor to select "Cancel" or "OK" option. After selection, press [Key 4] to confirm the relevant operation and return to the previous page.

22. Firmware Upgrade

System firmware can be updated to maintain an optimized current version.

Notes: Before upgrading operation, please insert the Micro SD card with the upgrade software.

- ① Press [Key 3]/[Key 5] to move the cursor to the firmware upgrade option, and press [Key 4] to enter the sub-menu. You will see an important WARNING!: Upgrading firmware may cause damage to the equipment, please operate with caution!
- ② Press and hold [Key 4] to confirm and short press [Key 4] to exit and return to the previous page.

Note: When performing this operation, please load the device with a fully charged battery and type-C power supply. Powering off the device during the firmware update process may cause damage to the device components. Please operate with caution.

23. Version

This function displays the device's firmware version.

- ① Press [Key 3]/[Key 5] to move the cursor to the version option, press [Key 4] to enter the sub-menu to view.
- ② Press [Key 4] again to exit and return to the previous page.

FCC Warning

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.

Note: 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.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment. The device has been evaluated to meet general RF exposure requirement. This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna(s) must not be co-located or conjunction with any other antenna or transmitter.

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