PARD

Night Stalker 4K 2.0

Digital Night Vision Device



User Manual

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 conflictzones.

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To Users

Thank you for your support for choosing PARD device. 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 use.

This manual provides step-by-step instructions on how to use the digital device and is intended for your reference only.

Please note that PARD reserves the right to update this manual without prior individual notifications. For the latest information and updates, we recommend you to visit our official website.

Precautions

- **Device Storage:** Store the device and battery in a dry and safe place.
- **Handling and Transportation:** Exercise caution and handle the device with care during use and transportation. It is recommended to use the original packaging for transportation.
- **Light Exposure:** Do not use the device to focus directly on strong light sources such as the sun. Doing so may damage the sensor and void the warranty.
- **Lens Protection:** Avoid scratches and damage to the lens caused by oil or chemical contamination. Keep the lens cap on when the device is not in use.
- **Environmental Considerations:** Store the device in a cool, dry, and well-ventilated environment, free from strong electromagnetic fields. The storage temperature should not be lower than -30°C (-22°F) or higher than 55°C (131°F). Charge the device only within the temperature range of 0°C to 45°C (32°F to 113°F).
- **Device Disassembly and Support:** Do not disassemble the device without authorization. If you encounter any problems, please contact our after-sales support team. Unauthorized disassembly will void the warranty.
- **Attention:** All PARD devices require an export license when shipped outside of your country.

Package Contents

No.	Contents	Qty.
1	Night Stalker 4K 2.0	1
2	18650 removable lithium-ion battery	1
3	Protective case	1
4	Type-C cable	1
5	Mount rings	2
6	Allen wrench	2
7	Lens cleaner	2
8	Rubber eye cup	1
9	User manual	1
10	After sales card	1

Key Features

1. 4K Sensor (3840*2160)
2. Display (1280*1280)
3. LRF in the lens
4. Detachable IR module
5. 65mm long eye-relief display system
6. 30mm standard tube
7. Dual battery: built-in 21700 battery + removable 18650 battery
8. Recoil-activated recording
9. WiFi connection
10. IP67 waterproof
11. 6000J recoil resistance

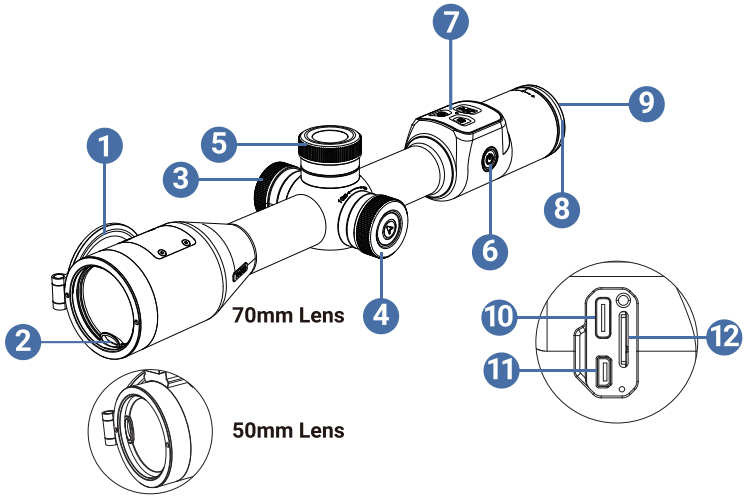
Specifications

Model		Night Stalker 4K 2.0
Sensor		
Resolution (pixel)		3840*2160
Pixel Size (μm)		2
Sensitivity (lux)		0.001
Frame Rate (Hz)		60
Image Engine		PARD VLEA
Optics		
Objective Lens (Focal length/mm)		50/70
Magnification (x)		5.0-20.0x | 6.5-26x
Field of view (°)	Horizontal	4.2/3
	Vertical	4.2/3
	Diagonal	5.9/4.2
Field of view (m @100m)	Horizontal	7.3/5.2
	Vertical	7.3/5.2
Focus Range		10m - ∞
Eye Relief (mm)		65
Diopter adjustment (D)		-5~5
Display		
Type		IPS
Resolution (pixel)		1280*1280
Reticle (Style 1/Style 2)		3/6
Reticle Color		Red/White/Yellow/Green

Main Function	
PIP	Yes
Ballistic Calculator	Yes
Gyroscope	Yes
Recoil-activated Recording	Yes
Loop Recording	Yes
Time Stamp	Yes
Exposure Compensation	Yes
USB Type-C	Yes
HDMI Output	Yes
WiFi	Yes
Supported Apps	PardVision2
Storage (GB)	Micro SD Card (128GB, Max)
Lithium Battery Type	Built-in 21700*1+removable 18650*1
Output Voltage (V)	3.7
Operating Time (h, max)	6
External Power Supply (V)	USB Type-C
Protection Class	IP67
Operating Temp (℃/℉)	-30~55/-22~131
Recoil Resistance (J)	6000
Housing	Aluminium Alloy
Objective Lens	Glass
Measurement	
Product Dimension (L x W x H, mm)	367*85*70
N.W/pcs (with battery, g)	905

Components

Night Stalker 4K 2.0



No.	Name	No.	Name
❶	Lens cap	❼	Keypad
❷	LRF module	❽	Diopter focus ring
❸	Battery cap	❾	Eyepiece lens
❹	Objective focus knob	❿	Type-C port
❺	Control knob	⓫	HDMI port
❻	Power/Sleep button	⓬	Micro SD card slot

Installation

1. Battery Installation and Startup

The battery installation steps are as follows:

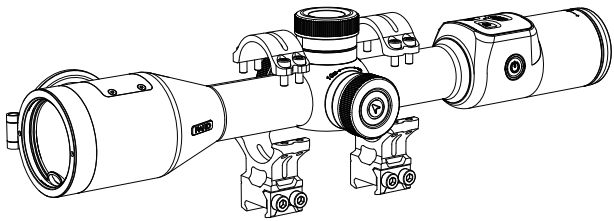
❶ Rotate the battery cap and remove the battery.

❷ Remove the insulating tape.

3. Insert the battery, ensuring the correct positioning of the battery's positive (+) and negative (-) terminals and tighten the battery cap.
4. Long press the power button for about 3 seconds. (When the PARD Logo appears on the screen, the device is ready for use.)

2. Mount Installation

1. Prepare the screws, Allen wrench, ring-shaped mount, and Night Stalker device.
2. Tighten the screws with the Allen wrench to securely attach the mount to the scope.
3. Install the ring-shaped mount and scope as a whole onto the Picatinny rail of the firegun.
4. Tighten the screws on the side of the ring-shaped mount to securely fix it to the Picatinny rail.



3. Diopter Focusing

Rotate the diopter focusing wheel so that you can see the icons on the screen clearly.



4. Objective Lens Focusing

Aim at the target and rotate the objective focusing knob until you can see the target clearly.

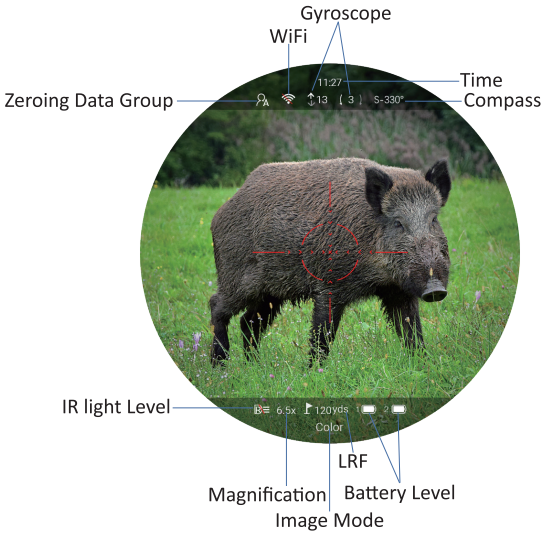


5. Compass Calibration

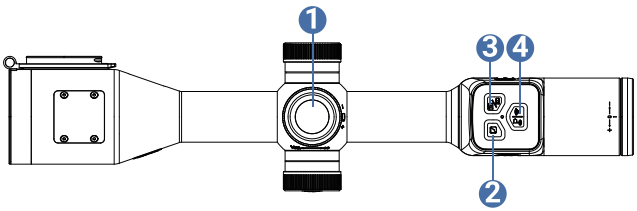
Tilt and move the device in a figure 8 motion until the compass is calibrated.



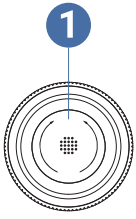
Home Screen Guide



Shortcut Mode Guide



Knob (Key 1)	**Rotate Counterclockwise**	**Rotate Clockwise**	
	Down/-/zoom out	Up/+/zoom in	
	Single Press	**Long Press**	**Double Press**
	Menu/Ok	Menu	Turn on/off PIP
	Single Press	**Long Press**	**Double Press**
Key 2	Adjust the IR light level	Switch black&white / color image mode	-
Key 3	Take a photo	Record video	Files
Key 4	LRF/Ballistic calculator/Back	Turn on/off WiFi	-



Key 1

Single Press

① **Home Screen Mode:** Single press [Key 1] to enter the menu.
② **Menu Mode:** Single press [Key 1] means confirm/ok.

Long Press

Home Screen Mode: Long press [Key 1] to enter the menu.

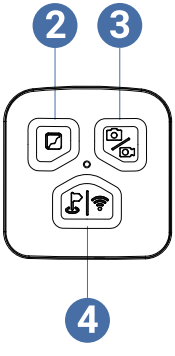
Double Press

Home Screen Mode: Double press [Key 1] to turn on/off the picture-in-picture function.

Rotate Counterclockwise

① **Home Screen Mode:** Rotate [Key 1] counterclockwise to zoom out.
② **Menu Mode:**

- In the menu interface, rotate [Key 1] counterclockwise to scroll down among menu options.
- In the parameter setting interface, rotate [Key 1] counterclockwise to decrease the values.



Rotate Clockwise

① **Home Screen Mode**, Rotate [Key 1] clockwise to zoom in.
② **Menu Mode:**
In the menu interface, Rotate [Key 1] clockwise to to scroll up among menu options.
In the parameter setting interface, rotate [Key 1] clockwise to increase the values.

Key 2

Single Press

Home Screen Mode: Single press [Key 2] to adjust the IR light level.

Long Press

Home Screen Mode: Long press [Key 2] to switch color mode.

Key 3

Single Press

Home Screen Mode: Single press [Key 3] to take a photo.

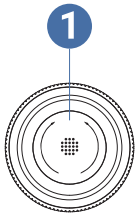
Long Press

Home Screen Mode: Long press [Key 3] to record a video, Long press [Key 3] again to save the video.

Double Press

Home Screen Mode: Double press [Key 3] to enter the file where the video and images stored.

- Rotate [Key 1] to switch between files.
- Single press [Key 1] to play/pause the video.
- When playing videos, rotate the [Key 1] to fast forward or rewind 2x/4x/8x times.
- Press [Key 4] to access the following settings:



1) Delete:
   - Delete Current
   - Delete All

2) File Protection:
   - Protect Current
   - UnProtect Current
   - Protect All
   - UnProtect All

3) Slide Show:
   - 2S
   - 5S
   - 8S

- Long press [Key 4] to exit.

Key 4



Single Press

Menu Mode: Single press [Key 4] to return to the previous interface.

Home Screen Mode: Single press [Key 4] to turn on LRF, Single press [Key 4] again to turn on ballistic calculator.

Long Press

Home Screen Mode: Long press [Key 4] to turn on/off WiFi function.

Menu Mode Guide

Home Screen Mode:

1. Single press [Key 1] to enter the menu.

1. Ballistic Calculation

1. Ballistic Calculation

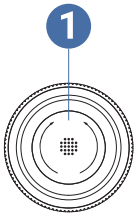
The ballistic calculator can quickly calculate bullet trajectories and give you a precise aiming point, enabling you to accurately shoot. The device supports 10 groups data which allowing you to use the scope on multiple rifles.

① Single press [Key 1] to enter the ballistic calculation, Long press [Key 1] to enter the ballistic calculation.

② Rotate [Key 1] to select “Data” group(From A-J), and Long press [Key 1] to save.

③ Single press [Key 1] to scroll up or down and select the parameters option you want to set.

④ Rotate the [Key 1] to adjust the value of the corresponding parameter, and Long press [Key 1] to save and exit.







Parameter Guide:

Ballistic Data: 10 groups ballistic data profiles (A-J) can be saved.

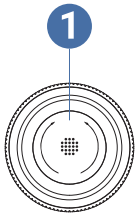
Velocity: The bullet travel speed after it is fired from rifle, expressed in "meters per second" (m/s) or "feet per second" (f/s).

Bullet Weight: The weight of the bullet, expressed in "grams" (g) or "grains" (gr), which can be obtained from the manufacturer’s specifications of the bullets.

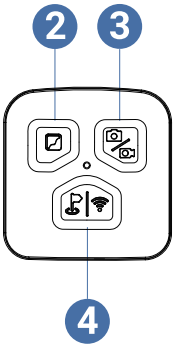
Bullet BC (ballistic coefficient): The bullet’s ability to overcome air resistance in flight, which can be obtained from the manufacturer’s specifications of the bullets.

Altitude: The altitude of the location, expressed in "meters" (m) or "feet" (ft).

Temperature: The local temperature, expressed in "Celsius" (°C) or "Fahrenheit" (°F), which is an important indicators affecting air density.
Scope Height: The height difference between the optical axis of the scope and the barrel, expressed in "millimeters" (mm) or "inches" (inch).
Zero Range: The distance expressed in "meter" (m) or "yard" (yard), usually set to 100m or 100yds, users can adjust according to their own preferences.
Reference Point Shape And Color: Rotate [Key 1] clockwise to enter the shape and color setting interface. Rotate [Key 1] to switch among nine options. Single press [Key 1] to select the desired shape and color.







⑤ After setting, Long press [Key 1] to save and exit. Long press [Key 4] to exit without saving.
Note: By setting the "meter" or "yard" in the range unit selection option, the other parameters related to the ballistic calculator will be set automatically.

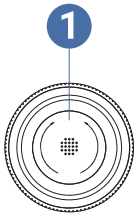
Ballistic Calibration

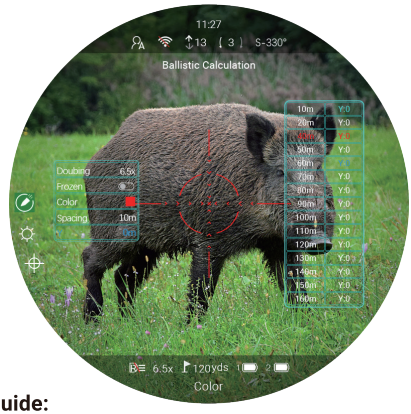
Users need to manually create a ballistic trajectory database by entering at least **three** sets of data. Ballistic calibration is based on this database to calculate the bullet's point of impact at different distances.
Principle: users first set the interval (**spacing**) for each shooting distance, then record the bullet's impact point by adjusting the "Y" value, thereby building the database.

- Rotate [Key 1] to move the cursor to ballistic calibration, Long press [Key 1] to enter it.
- Single press [Key 1] to move the cursor among options, and rotate [Key 1] to adjust the relative values.
- Long press [Key 1] to save and return to the menu.

Note:

When moving cursor to the “Distance”/”Y”, single press [Key 1] again to the right table and Single press [Key 1] to move the cursor **backward** through the table, Single press [Key 4] to move the cursor **forward** through the table. Long press [Key 4] to turn off the table.







Parameter guide:

Doubling: The magnification of the device.

Frozen: Locks the main interface screen to facilitate subsequent operations.

Color: 4 color options are available (red/white/yellow/green). For better visibility, select a color different from the reticle.

Spacing: Allows input of Y-axis deviation of the actual impact point at different distance, supporting up to 15 data entries (the more data recorded, the more accurate the provided aiming point).

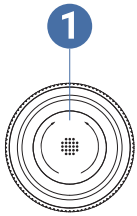
2. Display Brightness

Users can choose the preferred display brightness.

- Rotate [Key 1] to move the cursor to brightness option, and Single press [Key 1] to enter it.
- Rotate the [Key 1] to move the cursor from "Level 0" to "Level 6".
- Single press [Key 1] to confirm the option and exit.

3. Reticle Adjustment

Reticle Adjustment refers to aligning the reticle with the impact point at a zeroing distance, so that the position of the aiming point at the specific distance corresponds with the impact point of the bullet.



- Rotate [Key 1] to move the cursor to the reticle adjustment. Single press [Key 1] to enter it.
- Rotate the [Key 1] to select “Show” or “Hide” the reticle and then Single press [Key 1] to save.
- Single press [Key 1] to switch among options. Rotate the [Key 1] to adjust the value of the corresponding option.
- Long press [Key 1] to save and exit.





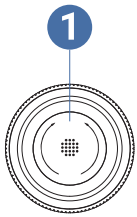
Parameters guide:

√ **Mag:** the magnification of the device.
√ **Data:** 10 groups data profiles (A-J) that can be saved.
√ **X:** the reticle will move along the “X” axis as the “X” value is adjusted.
√ **Y:** the reticle will move along the “Y” axis as the “Y” value is adjusted.
√ **Style 1:** 3 reticle style options are available.
√ **Style 2:** 6 reticle style options are available.
√ **Color 1:**4 color options are available (Red/White/Yellow/Green).
√ **Color 2:** 4 color options are available (Red/White/Yellow/Green).
√ **Zero Range:** The distance at which the point of aim and point of impact are aligned during zeroing.

4. Default Color

Users can choose “Black & White”, “Red”, “Yellow”, “Green” or “Color” as the preferred default color.

- Rotate [Key 1] to move the cursor to default color option, and Single press [Key 1] to enter it.
- Single press the [Key 1] to select your options, then rotate the [Key 1] to change the value.
- Long press [Key 1] to save and exit.



5. Other Menus

- Rotate [Key 1] to move the cursor to other menus,Single press [Key 1] to enter it, there are 18 options under other menus.

6.Statues Bar Display Settings

Users can customize what icon to display on the home screen.



- Rotate [Key 1] to move the cursor to the Status Bar Display. Single press [Key 1] to enter it.

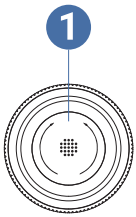


- Single press [Key 1] to move the cursor among options.
- Rotate the [Key 1] to set whether to display the icon on the home screen. (The blue box indicates that the icon is displayed on the home screen.)
- Long press [Key 1] to save and exit.

7. Picture in Picture

The PIP mode displays a 2x magnified center area in the top of the screen, allowing you to see magnified target details without losing the field of view.

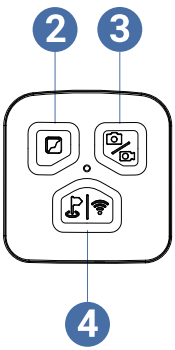
- Rotate [Key 1] to move the cursor to the PIP, and Single press [Key 1] to enter it.
- Rotate [Key 1] to move the cursor to select “OFF” or “ON”.
- Single press [Key 1] to save and exit.



8. Gyroscope

This function measures the orientation of the device so that the yaw and pitch angles of the device can be displayed and calibrated.

- Rotate [Key 1] to move the cursor to the gyroscope. Single press [Key 1] to enter it.
- Single press [Key 1] to select "Show" or "Hide" the yaw and pitch angle of the device on the home screen.
- If selecting "Show", then rotate [Key 1] to move the cursor between "gyroscope calibration" or "compass calibration", and Single press [Key 1] to choose the desired option, then operate as prompts.



9. Range Unit Selection

Users can choose "m" or "yds" as the unit of measurement for the device according to their habits.

- Rotate [Key 1] to move the cursor to the Range Unit Selection, and Single press [Key 1] to enter it.
- Rotate [Key 1] to move the cursor to select “m” or “yds”. Single press [Key 1] to save and exit.

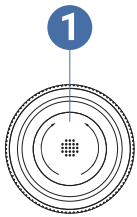
10. Self-activated Recording

Self-activated recording provides an ongoing 20-second loop. when recoil is detected, the video is automatically moved to the Micro SD card.

- Rotate [Key 1] to move the cursor to the self-activated recording option, and single press [Key 1] to enter it.

- Single press [Key 1] to select “On” or ”Off”. After selecting “On”, rotate [Key 1] to move the cursor among impact sensitivity: "Low", "Medium" or "High", them single press [Key 1] to confirm the option.
- Long press [Key 1] to save the option and exit.

11. Video Recording Settings



- Rotate [Key 1] to move the cursor to video recording settings, Single press [Key 1] to enter it.
- Rotate [Key 1] to move the cursor among options, single press [Key 1] to confirm the option.
- Long press [Key 1] to save and exit.

12. Date Stamp

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



- Rotate [Key 1] to move the cursor to the date stamp option, and Single press [Key 1] to enter it.
- Rotate [Key 1] to move the cursor between“Off” and “On”.
- Single press [Key 1] to save and exit.

13. Default Magnification

Users can select the default magnification, and the device will display the set magnification at the next startup.

- Rotate [Key 1] to move the cursor to the default magnification option, and Single press [Key 1] to enter it.
- Rotate [Key 1] to select the desired default magnification.
- Single press [Key 1] to save and exit.

14. Preset Brightness of IR

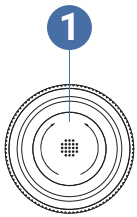
The function allows users to adjust the brightness of IR illuminator, and it will be the set level at the next startup.

- Rotate [Key 1] to move the cursor to brightness of IR, and Single press [Key 1] to enter it.
- Rotate the [Key 1] to move the cursor among"off", "1", "2" or "3".
- Single press [Key 1] to confirm the option and exit.

15. Auto Power Off

Users can select the preferred time duration. After selecting the preferred time duration, the device will monitor activity. Shutdown will be triggered only after the device has remained idle for the set time.

- Rotate [Key 1] to move the cursor to the auto power off option, and Single press [Key 1] to enter it.
- Single press [Key 1] to select “On” or ”Off”. After selecting “On”, rotate [Key 1] to move the cursor among "1 Min", "10 Min" and "30 Min", then single press [Key 1] to confirm the option.
- Long press [Key 1] to save the option and exit.



16. WiFi

By connecting via WiFi, users can use phone as an external viewfinder to view photos and videos.

- Rotate [Key 1] to move the cursor to the WiFi setting option, and Single press [Key 1] to enter it.
- Rotate [Key 1] to move the cursor to between“Off” and “On”.
- Single press [Key 1] to save and exit.

Steps to connect to your mobile device:

- Download PardVision2 from the App Store or the Google Play Store.
- Turn on the WiFi on the device and mobile phone.
- Search the WiFi on your mobile device (the device WiFi network is a unique string of numbers starting with PARD).
- Enter the password: **12345678**.
- Enter the application to operate.



17. Exposure

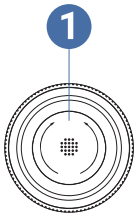
Users can choose the preferred exposure settings.

- Rotate [Key 1] to move the cursor to the exposure option, and Single press [Key 1] to enter it.
- Rotate [Key 1] to select the preferred exposure value.
- Single press [Key 1] to save the option and exit.

18. Language

Users can choose the preferred language.

- Rotate [Key 1] to move the cursor to the language option, and Single press [Key 1] to enter it.
- Rotate [Key 1] to move the cursor to select the desired language.
- Single press [Key 1] to save the option and exit.



19. Date/Time

The user can set the system date and time of the device.

- Rotate [Key 1] to move the cursor to date/time setting option, and Single press [Key 1] to enter it.
- Rotate [Key 1] to adjust the value of date and time, Single press [Key 1] to switch among options.
- Long press [Key 1] to save the option and exit.



20. Format TF Card

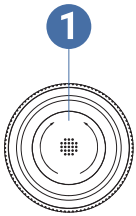
If users format the micro SD card, all data on the card will be permanently deleted and cannot be recovered. **Please operate with caution!**

- Rotate [Key 1] to move the cursor to the format option, and Single press [Key 1] to enter it.
- Rotate [Key 1] to select "Cancel" or "OK" option.
- Single press [Key 1] to confirm the option and exit.

21. Menu Display Time

Users can set up menu's icon display time.

- Rotate [Key 1] to move the cursor to Menu Display Time option, and Single press [Key 1] to enter it.
- Rotate [Key 1] to move the cursor among "Off", "30 sec", "1 min", "3 min", "5 min", "10 min".
- Single press [Key 1] to save the option and exit.



22. Default Settings

Resetting the device will restore factory settings and permanently delete all user data. **Please operate with caution!**

- Rotate [Key 1] to move the cursor to default setting option, Single press [Key 1] to enter it.
- Rotate [Key 1] to select "Cancel" or "OK" option.
- Single press [Key 1] to confirm the option and exit.



23. Version

Version shows the device's firmware information.

- Rotate [Key 1] to move the cursor to the version option, single press [Key 1] to enter it to view the version.
- Single press [Key 1] to exit.

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 used in conjunction with any other antenna or transmitter.

Thank you for choosing PARD

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