PARD

Thermal Imaging

SA32/SA62(LRF)
User Manual

CONTENTS

TO USERS

Thank you for your continued support and for choosing PARD SA32/62 series thermal imaging 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 and to ensure successful operation of your device.

After reading, please keep this manual in a safe place, for future reference. This manual provides step-by-step instructions on how to use your thermal imaging device and is intended for your reference only.

PARD reserves the right to amend this manual at any time without prior notice to individual users. We recommend visiting PARD's official website for updated information. PARD, reserves the final right of interpretation of this manual.

CAUTIONS

- Please remove the insulating tape on the battery before first use. It is recommended to use a fully charged lithium-ion battery with a rated voltage of 3.7V.
- Always turn off the device when it's not in use. If you do not plan on using the device for a period of more than 10 days, please remove the battery and store the battery in a safe place.
- Be extra cautious and handle the device with care during use or transportation. It is recommended to use the original packaging during transportation.
- Do not look directly at the red dot pointer to avoid eye damage when in use.
- Do not use the device to focus directly on strong sources of light such as the sun or electric welding. The detector may be damaged and it will void the warranty.
- Avoid lens scratches and damage caused by oil or chemical contamination of the lens. Keep the lens cap on when not in use.
- The device should be placed in a cool, dry, and ventilated environment without strong electromagnetic fields, and the storage environment temperature should not be lower than (-5°F) or higher than (120°F).
- Do not disassemble the device without authorization. If there are issues, please contact our after sales team and report it on our official website. Failure to do so will void the warranty service.

PACKAGING CONTENTS

	Contents	Quantity
	Thermal Imaging Device	1
	3.7V 18650 rechargeable lithium-ion battery (inside the battery compartment)	1
	Carrying case	1
	Velvet drawstring pouch	1
	Shoulder strap	1
	Type-C cable	1
	Metal mount	1
	Allen wrench (D4.0mm)	1
	Mount tightening screw (KM*10mm)	3
	Allen wrench (D1.5mm)	1
	Red dot adjustment screw (M3*3mm)	2
	Shim 1 （15*8.5*0.1mm)	1
	Shim 2 （15*8.5*0.2mm)	1
	User’s manual	1
	After sales card	1

DESCRIPTION & KEY FEATURES

The SA32/62 is a compact, lightweight multifunctional thermal imaging device. The 12um, NETD≦25mK thermal imaging sensor can detect subtle differences in temperature giving you higher image resolution and clarity. The device can be used during the day or night and is commonly used in nature observation, outdoor hunting, outdoor exploration, security and theft prevention, marine operations and night patrols.

Key Features

1. Aluminum alloy machine body, compact and durable.
2. B.C function calculates the relevant parameters affecting the bullet trajectory and indicates an auxiliary crosshair on the side, for accuracy.
3. Upgraded 12um, NETD≦25mK sensor can detect subtle differences in temperature giving you higher image resolution and image refinement.
4. Infrared image enhancement algorithm effectively improves image detail by correcting image distortion, reducing noise suppression and enhancing contrast.
5. 1200M detection range allows users to precisely acquire their targets.
6. Self-Activated recording: when the device detects recoil the whole shooting process will be recorded and saved in the TF card. Never miss a memorable moment!
7. Loop recording records in a continuous loop, saving your videos instantly to the TF card.
8. Shutter Correction detects any slight heat changes which exceed a certain range, the device will automatically close the shutter and perform a self-calibration resulting in a more static image ensuring edge to edge image clarity.
9. Hot track. The device can detect and display the highest temperature point on the screen, and automatically track this target heat source.
10. Blind pixel compensation enables effective compensation for blind spots that no longer respond to light and also reduces image distortion.
11. Three scene modes: City / Forest / Rain. The image will be adjusted according to the selected scene mode offering exceptional adaptability in different environments.
12. WiFi: connect to your mobile device through WiFi. See images and videos with a larger field of view.

SPECIFICATIONS

Model	SA32/SA32 LRF	SA62/SA62 LRF
Sensor		
Resolution(px)	384*288	640*480
Pixel size(μm)	12μm*12μm	12μm*12μm
NETD(mK)	≤25mK（0.025℃）	≤25mK（0.025℃）
Frame rate(Hz)	50Hz	50Hz
Human detection distance(m)	800/1100/1400/1700m	1200/1500/1800m
Vehicle detection distance(m)	1800/2200/2600/3000m	2500/2900/3300m
Optics		
Objective lens	19mm/25mm/35mm/45mm	25mm/35mm/45mm
Optical Magnification(x)	2X/2.6X/3.7X/4.7X	1.6X/2.2X/2.8X
Digital zoom(x)	2x/4x/8x	2x/4x/8x
Field of view (HxV) Horizontal	13.8°/10.5°/7.5°/5.9°	17.5/12.5°/9.7°
Field of view (HxV) Vertical	10.4°/7.9°/5.6°/4.4°	13.1°/9.4°/7.3°

Model	SA32/SA32 LRF	SA62/SA62 LRF
Field of view (HxV) Diagonal	17.2°/13.1°/9.4°/7.3°	21.7°/15.6°/12.2°
Eye relief(mm)	30mm	30mm
Diopter adjustment(D)	- 5D~+5D	-5D~+5D
Display		
Type	OLED	OLED
Resolution(px)	1024*768	1024*768
Reticle Style	6 options	6 options
Reticle Color	Red/White/Yellow/Green	Red/White/Yellow/Green
Scene Mode	City/Rain/Forest	City/Rain/Forest
Image mode	WT-HOT/SKY/EDGE/BK-HOT/ RD-HOT/IN-HOT	WT-HOT/SKY/EDGE/BK-HOT/ RD-HOT/IN-HOT
Photo/Video		
Photo resolution(px)	2592*1944	2592*1944
Photo format	.JPG	.JPG
Video resolution(px)	1024*768	1024*768
Video format	.mp4	.mp4

Model	SA32/SA32 LRF	SA62/SA62 LRF
Storage(GB)	TF card (128 GB, Max)	TF card (128 GB, Max)
Additional functions		
LRF detection range(m)	1200m	1200m
Illuminator	1W(350mA)	1W(350mA)
Power supply		
Battery type	Lithium Ion 18650*1	Lithium Ion 18650*1
Output voltage(V)	3.7V	3.7V
Operating time(h)	≤5h	≤5h
Environmental specifications		
Degree of protection	IP67	IP67
Operating temp	-20°C(-5°F) ~50°C(120°F)	-20°C(-5°F) ~50°C(120°F)
Measurements		
Product dimension (L x W x H, mm)	SA32:195*77*56mm SA32 LRF:195*79*59mm	SA62:195*77*56mm SA62 LRF:195*79*59mm
Weight （g）(with/without battery)	SA32 :425g SA32 LRF :455g	SA62 :425g SA62 LRF :455g

COMPONENTS AND CONTROLS

NO.	Name	No.	Name	No.	Name
❶	Button panel	❼	Battery cap	⓭	TF Card slot
❷	Focus lever	❽	Objective lens	⓮	Type C- charging port
❸	Lens focus ring	❾	Red dot pointer	⓯	HDMI port
❹	Range finder (LRF model)	❿	Range emitter	⓰	Picatinny rail
❺	Power/Sleep	⓫	Range receiver	⓱	Lens cap
❻	Diopter focus	⓬	Illuminator		

INSTALLATION

1.Unboxing

Before using this device, please do the following:

❶ Open the box and remove the device.

❷ Check to ensure that the package contents listed above are all included in the box.

❸ Check the device for any damage to the display, body, lens, buttons, etc.

❹ Make sure that the objective lens and eyepiece are clean & functioning properly.

Note: If any accessories are missing or damaged, please contact our after sales service at once.

2.Installation

The battery installation steps are as follows:

2.1 Unscrew the battery cap counterclockwise and remove the battery.

2.2 Remove the insulating tape on the positive (+) terminal of the battery.

2.3 Insert the battery, ensuring that the positive (+) side goes in first and tighten the battery cap clockwise.

2.4 Press and hold the power button for about 3 seconds to power the device. (The power light illuminates and the PARD Logo will be displayed on the screen, indicating the device is ready for use.)

Note: Please use a single 18650 rechargeable lithium-ion battery rated with a 3.7V voltage.

1. Do not put battery into fire.
2. Do not put device into water when the battery cap is open.
3. Do not disassemble the device without authorization.
4. Do not pierce the device with sharp objects.
5. Battery should be kept out of the reach of children and please ensure that the positive and negative terminals of the battery are installed correctly.

3. Mount Installation

To ensure the best user experience, we highly recommend using our original mount. This is included in the product packaging).

1. Remove the thermal imaging device,mounting bracket and accessories: (mount tightening screws, Allen wrench (D4.0mm) and shims) from the box.

2. Position the device upside down, place the end of the mount with two screws facing the objective lens direction, attach the flat side of the mount on the bottom of the device. Adjust the mount to your preferred position (Attention: the end of the mounting bracket facing the eyepiece cannot exceed the junction edge of the rubber eyecup and the focusing ring. Failure to follow this direction may result in eye damage during use).

3. Install 3 screws in the front, middle and rear positions.

4. Use the Allen wrench and tighten the screws clockwise.

5. If there is any horizontal deviation, you may use the two shims to adjust. Select the appropriate shim size and place it in the corresponding screw position, then repeat the above steps.

4. Diopter Focusing

Diopter focusing is used to adjust to users with different levels of corrected vision to clearly see the content displayed on the screen.

1. After powering the device, rotate the diopter focusing wheel so that you can see the screen clearly.
2. As long as you can clearly see the crosshair and text on the screen, the diopter focusing setting has been completed.

Note: The image may not seem clear after diopter adjustment, as the objective lens still needs to be focused.

Picture 1

Picture 2

5. Compass Calibration

After the eyepiece is focused, please use the "figure 8 pattern method" to calibrate the electronic compass.Users are required to tilt and move the device in a figure 8 motion until the compass is calibrated as shown in picture 2.

6. Objective Lens Focusing

1. Before you focus the objective lens, ensure that the diopter focusing has been completed.
2. Aim at the target and adjust the objective focusing wheel until you can see the target image clearly.
3. Thermal imaging a short focusing distance. Users may not be able to see a target within 3 meters.

Picture 3

Picture 4

7. Zeroing

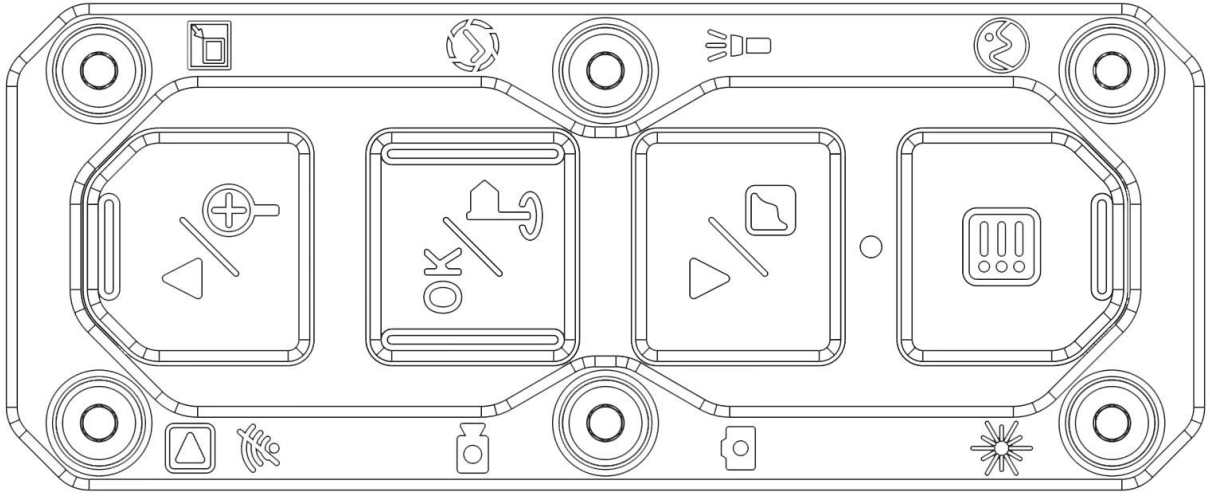
1. Set the target so that the device can obtain a good image.
2. Select the reticle adjustment option from the main menu.
3. Fire a 1st shot after focusing on the image, ensuring that you can see a clear point of impact displayed on the screen after the shot has been taken. Refer to picture 4.
4. Keep the device in a stable position, then press [+/-] to freeze the screen.

5. To adjust the “zero” value -- move the crosshair on the screen display towards the point of impact by adjusting "X" and "Y" values.
6. Set the "SAVE" item to "Y", after the setting is completed. Press and hold [Menu] to save and exit.

Note: The first item "RTZ" in the sub-menu represents the saved “zero” setting, 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

1. Shortcut Mode



		Single press	Press and hold	Double press
Key 1		up / zoom in	file / (turn off Wi-Fi)	turn on/off PIP
Key 2		OK/range detection/ B.C function	record video / save video	shutter correction
Key 3		down / switch image mode	take a photo	turn on/off illuminator
Key 4		menu/back	red dot pointer	switch between scene modes

Note: The above is the latest description of the button functions. If the device you received does not match the above description, please contact our dealer or our after sales team, and we will help you update to the current version.

Key 1

1. Single press:

① Home screen mode: press [+] to zoom in 1x/2x/4x/6x/8x times.
② Menu mode: press [+] in the menu mode to scroll up and adjust the relevant option settings.

2. Press and hold:

① Home screen mode: press and hold to view video and picture files saved on the memory card:
- Press [+/-] to switch files.

- Press [OK] to play/pause the saved videos.
- When playing videos, press [+/-] to fast forward or rewind 2/4/8 times.
  Press [Menu] to access the following settings:

  1) Delete:
     - Delete Current
     - Delete All
  2) File Protection:
     - Lock Current
     - Unlock Current
     - Lock All
     - Unlock All
  3) Slide Show:
     - Two seconds
     - Five seconds
     - Eight seconds
- Press and hold [Menu] to return.

② **When the Wi-fi is turned on:** Menu interface cannot be opened when the Wi-Fi is turned on, press and hold [+] to turn off the Wi-Fi and then enter the menu interface.

3. Double press:

① Home screen mode: double press [+] to turn on/off PIP.

Key 2

1. Single press:

Home screen mode:

- Press [OK] to start the range detection function. If using the version with the laser range finder (LRF), the distance will be measured automatically.
- The standard version will display “0m” or "0yds". Please note: For non (LRF) version, the distance is not measured automatically, and you need to manually input the target distance value.
- Press [OK] a second time to turn on the B.C indicator (when the B.C function is turned off, the range indicator is turned off).
- Press [OK] a third time to turn off the B.C indicator; (when the B.C function is turned on).

2. Press and hold：

① Home screen mode: press and hold [OK] to enable the recording function, and press and hold [OK] again to save the video and exit.
② Menu mode:pressing[OK]confirms or saves the function.

3. Double press：

Home screen mode: double press [OK] to start the shutter correction function.

Key 3

1. Single press:

①Home screen mode: press [-] to switch the display mode between: White hot/sky/edge/black hot/red hot/iron mode.
②Menu mode: press [-] to scroll down or adjust the relevant option settings.

2. Press and hold：

Press and hold [-] to take a photo.

3. Double press:

Double press [-] to turn on the illuminator and double press [-] again to turn off the illuminator.

Key 4

1. Single press:

Home screen mode: press [Menu] to open/close the menu interface.
Menu mode: press [Menu] to go back to the previous page.

2. Press and hold:

Home screen mode: press and hold [Menu] to enable/disable the red dot pointer.

3. Double press:

Home screen mode: double press [Menu] to switch between city/forest/rain scene modes.

2. Menu Mode

Press [Menu] to enter the menu setting mode. You can set various functional parameters under the menu bar (the shortcut key function is invalid at this time).

Picture 5

Picture 6

1. Image Settings:

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

- Press [+/-] to move the cursor to the image setting option, and press [OK] to enter the sub-menu.
- Press [menu]/ [OK] to switch the contrast / brightness / detail / mode options, and press [+/-] to adjust the option value.
- Press and hold [OK] to exit. Upon the next startup, the device will maintain the saved image settings.Image default settings: contrast value is 105, brightness value is 60, detail is 5, and the mode value is 0.

Picture 7

2. Display Settings:

Users can adjust the contrast, brightness, and color temperature of the screen, to adapt to different surroundings.

- Press [+/-] to move the cursor to the display setting options and press [OK] to enter the sub-menu.
- Press [Menu]/ [OK] to switch the contrast/ brightness / color temperature option.
- Press [+/-] to adjust the value, and press and hold [OK] to exit.
  Default value: contrast is 4, brightness is 3, and color temperature is 2.

3. B.C Function:

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

- Press [+/-] to move the cursor to the B.C setting option, press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select the parameters /turn on/turn off the B.C sub-option, and then press [OK] to save or enter.
- After entering the B.C parameter settings sub-menu, press [Menu]/[OK] to move up or down to select the parameters option you want to change, and press [+/-] to adjust the value of the corresponding parameter.

Parameter Settings Guide:

① B.C data: There are 5 sets of B.C profiles (A-E) that can be saved.
② Velocity: is the measurement of bullet travel speed after it is fired from your rifle, expressed in "meters.
③ Bullet Wt: refers to the weight of the bullet, expressed in "grams" (g) or "grains" (gr), which can be obtained from the manufacturers specifications of the bullets you purchased.
④ Bullet BC: is a measure of the bullet's ability to overcome air resistance in flight. Data can be obtained from the manufacturers specifications of the bullets you purchased.

⑤ Altitude: refers to the altitude of the location, expressed in "meters" (m) or "feet" (ft), which is one of the important indicators affecting air density in B.C which can be measured by using professional testing equipment.

⑥ Temperature: refers to the local temperature, expressed in "Celsius" (°C) or "Fahrenheit" (°F), which is also one of the important indicators affecting air density in B.C which can be measured by using professional testing equipment.

⑦ Scope Ht: refers to the height difference between the optical axis of the sight and the barrel, expressed in "millimeters" (mm) or "inches" (inch), which can be measured by using professional testing equipment.

⑧ Zero range: refers to the unit distance expressed in "meter" (m) or "yard" (yard), usually set to 100m or 100yds, users can adjust according to their own preferences.

⑨ Reference Point Shape and Color: press [+] to select the shape and color setting interface. Press [OK] to switch between shape options and color sub-options. Press [+/-] to select the desired shape and color. Three options of shapes and three colors are available: (yellow/green/blue); press [Menu] to confirm and return to the previous page.

- After adjusting your preferred settings, press and hold [OK] to save and return to the home screen. Long press [Menu] to exit without saving.

Note: By setting the "meter" or "yard" in the sub-menu range unit selection, the metric or imperial units parameters related to the B.C will be updated automatically.

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.

- Press [+/-] to move the cursor range unit selection option, and press [OK] to enter the sub-menu.
- Press [+/-] to choose between "meter" or "yard", then press [OK] to save and return to the previous page.

5. Reticle Adjustment：

Reticle Adjustment refers to aligning the reticle with the point of impact at an established shooting distance, so that the position of the aiming point at this specific distance corresponds with the point of impact of the bullet.

- Press [+/-] to move the cursor to the reticle adjustment setting option. Press [OK] to enter the sub-menu.
- Press [Menu]/[OK] to switch sub-menu options, and press [+/-] to adjust the value of the corresponding item.

① X represents the current magnification (1x/2x/4x/6x/8x times).
② RTZ represents the crosshair storage type (there are 5 profiles A-E).
③ XY represents the coordinates of the cross line.
④ Style corresponds to the crosshair type (6 options available).
⑤ Color corresponds to the color of the cross line (red/white/yellow/green).
⑥ Under the Save option, "Y" means to SAVE, and "N" means DO NOT save.

- After selecting your preferred settings, press and hold [OK] to confirm and save and return to the home screen.

6. Gyroscope：

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

- Press [+/-] to move the cursor to the gyroscope setting option and press [OK] to enter the sub-menu.
- Press [+/-] to select "Display" or "Calibration" and then press [OK] to enter.
- "Display" indicates whether (or not) to display the yaw and pitch angle of the device on the home screen. Press [+/-] to select "Off" or "On", and press [OK] to save and return to the menu.
- “Calibrate” means to enter the calibration state. After selecting, please place the device on a horizontal plane surface, and press [OK] to perform automatic calibration. After calibration, the device 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.

- Press [+/-] to move the cursor to the scene mode setting option, and press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select "City", "Forest" or "Rain" mode, after selecting, press [OK] 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, allowing you to see magnified target details without losing the field of view.

- Press [+/-] to move the cursor to the PIP setting option. Press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select “PIP OFF” or “PIP ON”, “Shortcut Key OFF” and “Shortcut Key ON” setting you prefer.
- After selection, press [OK] to save and return to the previous page.

Note:

- After PIP mode is turned on, clicking [+] on the home screen will only zoom the image in PIP window and the main screen will not be magnified.
- After the PIP shortcut key mode is turned on, the PIP shortcut key will automatically replace the red dot indicator shortcut key.

9. Shutter Correction：

The heat generated by the detector itself will affect the imaging effect of the device. Through the shutter correction function, the device will detect any slight heat changes which exceed a set range, deviation will automatically close the shutter and the device will perform a self-calibration. This will improve edge to edge clarity on the image.

- Press the [+/-] to move the cursor to the shutter calibration setting option and press the [OK] to enter the sub-menu.
- Press the [+/-] to move the cursor to select "Auto", "Manual" or "Close" shutter correction.
- Press [OK] to save and return to the previous page.

10. Hot Track：

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

- Press [+]/-] to move the cursor to the hot track setting option and press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select “Off” or “On”. Press [OK] to save and return to the previous page.

11. Self-activated Recording:

By turning on the self-activated recording, the device will automatically record in 20 second intervals when it senses the recoil from the shot. The incremental 20-second video footage will be saved on the TF card.

- Press [+/-] to move the cursor to the self-activated recording setting and press [OK] to enter the sub-menu.
- Press the [+/-] to move the cursor to select the option “OFF”, “ON” and “Impact Sensitivity”.
- After selecting “Off” or “On”, press [OK] to save and return to the previous page.
- After selecting "Impact Sensitivity", press [OK] to enter the sub-option menu of sensitivity level, press [+/-] to move the cursor to select "Low", "Medium" or "High" mode. Press [OK] to save and return to the previous page.

12. Auto Power Off:

The auto power off function allows the device to automatically power down after being idle. This setting will still be enabled after the next startup.

- Press [+/-] to move the cursor to select the auto power off setting, and press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select "Off", "One minute", "Ten minutes" or "Thirty minutes" duration options. After selection, press [OK] to confirm and save, and return to the previous page.

Note: After selecting your preferred time duration, the device will sense the last point of operation before beginning the shutdown. Shutdown will not start immediately after imputing the time, but will start after the device has been idle then it automatically triggers the shutdown command.

13. Auto Recording:

After auto recording is turned on, the device will start recording and continue to record after the next startup. Press and hold [OK] to confirm and save the recording.

- Press [+/-] to move the cursor to the auto recording setting option, and press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select “Off” or “On” options, press [OK] to save. and return to the previous page.

14. Loop Recording:

Users can customize the segment recording duration. This can be set up under loop recording. When the capacity of the memory card is full, the new recording will automatically overwrite the previous saved files. When you select “Off” the recording will stop when the memory card is full, and the oldest video file will not be overwritten.

- Press the [+/-] to move the cursor to the loop recording setting option, and press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select preferred loop time duration "Off", "Three minutes", "Five minutes" or "Ten minutes". After selection, press [OK] to save and return to the previous page.

15. Date Stamp：

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

- Press [+/-] to move the cursor to the date stamp setting option and press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select “Off” or “On” options. After selection, press [OK] to save and return to the previous page.

16. Record Audio：

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

- Press [+/-] to move the cursor to the recording audio setting option, press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select “Off” or “On” option. After selection, press [OK] to save and return to the previous page.

17. WiFi：

Through the Wi-Fi 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.

- Press [+/-] to move the cursor to the Wi-Fi setting option, and press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select “On” or “Off” option. After you select "Off" to return to the previous page and select "On" to enable Wi-Fi and return to the home screen.

Steps to connect to your mobile device:

- For Android users please download OKCAM or ppshow and for Apple (IOS) users please download Roadcam app.
- Turn on the WiFi on your device and on your mobile device.
- Search the WiFi on your mobile device (the device Wi-Fi network is a string of numbers starting with PARD).

Please enter the password: 12345678 to connect.

- Enter the application to operate and use.

Note: After the Wi-Fi is turned on, you cannot access the menu. Press and hold [+] to disable the Wi-Fi and then enter the menu interface.

18. Language:

Users can choose their preferred language.

- Press [+/-] to move the cursor to the language setting option, press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select the desired language. After selecting, press [OK] to switch the system language and returnto the previous page.

19. Date/Time:

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

- Press [+/-] to move the cursor to the date/time setting option, press [OK] to enter the sub-menu.
- Press [+/-] to adjust the setting date and time value. Press [OK] to switch options, and press [Menu] to save and return to the previous page.

20. Format:

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

- Press [+/-] to move the cursor to the format setting option, and press [OK] to enter the sub-menu.
- Press [+/-] to move the cursor to select "Cancel" or "OK" option. After selection, press [OK] to confirm the relevant operation and return to the previous page.

21. 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.

- Press [+/-] to move the cursor to the blind spot repair setting option, press [OK] to enter. You will see an important reminder: **Please attach the lens cap before performing blind pixel compensation process!**
- Press and hold the [Menu] button to return to the main menu. Press the [Menu] button to start the blind pixel compensation. After the repair is completed, you can press [+/-] to move the cursor to select backup, save or cancel.

22. Default Settings:

If users decide to reset the default settings of the device, it will restore the device to the original operating system and delete all the user data AND all personalized settings. **Please operate with caution!**

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

23. Firmware Upgrade:

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

- Press [+/-] to move the cursor to the firmware update setting option, and press [OK] to enter the sub-menu.
- Press and hold [OK] to select "Cancel" or "OK" option. Press [OK] to select "Cancel".

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!**

24. Version :

Users can check the DSP Version, FPGA Version, and the date of FPGA Version of the device.

- Press [+/-] to move the cursor to the version option, press [OK] to enter the sub-menu to view.
- Press [OK] again to exit and return to the previous page.

REMARK

PARD has included an original mount in the package. To ensure the best user experience, we highly recommend our original mount.

If users want to use their own mount, some deviation when zeroing the device manually might occur. If there is any horizontal deviation, you may use the 2 metal shims to adjust.

Please consult our after sales team if you face any problems when mounting PARD devices on your rifle rail.