



产品使用说明
PRODUCT INSTRUCTION

深圳市普雷德科技有限公司
Shenzhen Pard Technology Co.,Ltd

To users

Dear user

Thank you very much for choosing PARD infrared thermal imaging device.

Please read this manual carefully before your first use;

After you read, please keep this manual properly for easy reference in case of problems during use afterwards.

Please read this user manual carefully and be sure to follow the procedures elaborated in this manual to avoid components damage caused by improper operation.

If this manual has any amendments due to any software version upgrade or any other reasons, PARD will not provide separate notice to individual users, users are recommended to visit PARD official website periodically for update information.

PARD TA32 THERMAL IMAGING CAMERA



Operation manual

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Usage and Precautions

- ◇ TA Series products can be used on day time and at night. Please use 3.7V lithium ion rechargeable battery.
- ◇ User needs to remove the protection tape at battery, and charge battery until full before first time use.
- ◇ Device maintenance or repairing work should be conducted by PARD official authorized technicians, DO NOT open device case by any unrecognized technicians. In case of failure, please contact your domestic Distributors at once for after sales service. If any unauthorized mechanical work applied to the device will treat as abandoning the warranty service.
- ◇ Do not have the device focus directly at high-intensity radiation sources such as the sun, electric welding and strong laser. Detector will be damaged under direct

focused at strong light source, and such corresponding defects will not under warranty service.

- ◇ Please keep the device in temperature between - 40 °C to 60 °C.
- ◇ Original packaging must be used and cannot open during transportation.
- ◇ Recommend to keep the device in a place of cool, dry and ventilated environment without strong electromagnetic field.
- ◇ Avoid oil stains or any kinds of chemicals from contaminating and damaging the lens surface.
- ◇ After use, please put on the lens cover at once.

1、Product Overview

This product is a compact and lightweight multifunctional thermal imaging device. Proving users high sensitivity, high refresh rate and high stability, which suitable to use in natural observation, outdoor hunting and exploration, security monitoring and marine operation, night patrol in different occasions.

Please do the following before using this product:

- A. Open the package box, take out the equipment and accessories.
- B. Check and confirm there has no missing parts.
- C. Check the equipment body, objective lens, operation button, etc. are not damaged.
- D. Ensure all objective lenses and eyepieces clean and can be used properly.

Note: if any parts are missing or damaged, please contact our after-sales department at once.



2、Performance parameters

Model	Detector	NETD	Camera lens	Frame rate	Optical Magnification	Field angle	Dimension (mm)	Detection distance	Weight (excluding battery)
TA37	17μm 384*288	≅40mK	19/25/35mm	50Hz	1.7/2.2/3x	19.5°/14.9° /10.7°	145/153/159*68*44	0.8/1.2/1.5km	288/300/328g
TA32	12μm 384*288	≅25mK	19/25/35mm	50Hz	2.7/3.5 /4.5x	13.8°/10.6° /7.5°	145/153/159*68*44	1.2/1.6/2km	288/300/328g
TA62	12μm 640*480	≅25mK	25/35mm	30Hz	2/2.8x	17.5°/12.5°	153/158*68*44	1.5/1.8km	300/328g
General parameters									
Digital zoom	1/2/4/6/8x	Focusing range	1m-∞	Exit pupil distance	15mm	Diopter adjustment	±5D	Battery	Li18650*1
Eyepiece resolution	1024*768 OLED	Operating Temperature	-30°C~+60°C	Transmission mode	WiFi/HDMI	Protective performance	IP67	Storage type	TF Card (max128G)
Frame rate	30 fps	Battery life	5H(Max)	Video format	MP4	Casing material	AL6061 + Plastic		
Voltage	3.7V	Video resolution	1440*1080	Charging port type	TYPE-C	Image mode	White Hot/RedHot/BlackHot/Edge/Sky/IronHot		

3. Installation and basic operation methods

For the first time you use the device, follow the below steps: install the battery > eyepiece focusing > objective focusing.

Install the battery



1. Please use 18650 lithium ion rechargeable 3.7V battery.

2. Press the battery compartment cover to open, install the battery positive electrode towards the front objective lens. Put on the battery compartment cover and well fasten it.

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Objective focusing

1. Before the objective lens focusing, please make sure you have the eyepiece focusing (diopter adjustment) completed.

2. Focus at the target you want and adjust the focusing wheel of the objective lens until you can see the target image sharply.

3. Generally, the focusing position of the objective lens is placed at objects located far away from you.

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3. Press the [power key] to start up. In the power on status (after 15 seconds), press the [power key], internal screen will enter in sleep mode, press [power key] again to switch on the screen, long press [power key] to shut down.

Eyepiece focusing

1. Eyepiece focusing, also known as diopter adjustment, aim at enable users with different vision conditions can clearly see the displayed content.

2. Turn the focusing wheel until you can see the text or icon on the screen clearly.

3. Please note that the image is not clearly visible after eyepiece focusing adjustment, as long as the words on the display screen are clearly visible (the image may not be clear when the objective lens is not well focused), this procedure is done.

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4. Thermal imaging has the least focusing distance. It is normal an object may not be able to see sharply within 3 meters.

5. Objects behind glasses cannot be detected.

Key and interface operation method

There are two controlling key arrangements at the thermal imaging device, which are

- 1: non menu mode (shortcut key mode)
- 2: menu mode (enter normal setting mode)

Non menu mode (shortcut)

After startup, without pressing the [menu key] machine is in non menu mode (15 seconds after startup)

1. Press [power key] to sleep / wake up the device; long press to shutdown.

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2. Press the [+ key] to switch magnification function : 1,2,4,6,8 times. When the picture in picture function is on, press the [+ key] to switch between magnifications of 1,2,4,6,8; long press to enter the playback function menu.

In the playback interface menu, press [+ key] [- key] to switch the video / picture mode in the TF card. When the interface is in video, press [menu key] can play video. Press [+ key] [- key] to adjust the playback speed accordingly.

When playing video, press [menu key] to pause, press [+ key] [- key] to play by frame, long press [menu key] exit to the previous folder to switch files, and long press [menu key] again exit to the display interface.

3. Press [menu key] to enter the menu interface; long press to turn on / off the video recording function.

4. Press [- key] to turn on / off the red dot indicator; long press to switch display mode.

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the target option value. Long press [menu key] to exit.

Image default settings:

The contrast value is 90, the brightness value is 65, the sharpness value is 2, and the mode is 0.

2. Display setting: press [+ key] [- key] to move the cursor to the display setting option, and press [menu key] to switch the contrast/ brightness / color option, press [+ key] [- key] to adjust the option value. Long press [menu key] to exit.

Default value:

contrast is 3, brightness is 3, and color temperature is 3

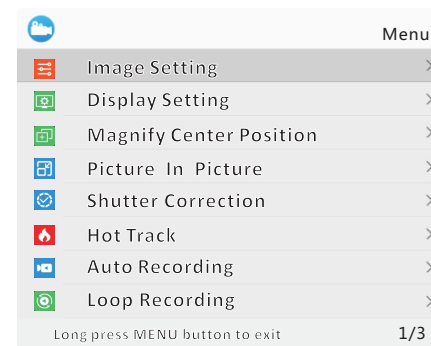
3. Magnify Center Position: press [+ key] [- key] to move the cursor to the magnify center position, press [menu key] to switch the X / Y axis option, press / long press [+ key] [- key] to adjust the option value. Long press [menu key] to exit.

4. Picture in picture: press [+ key] [- key] to move the cursor to the picture in picture option, and press [+ key] [- key] to select on/off the shortcut [+ key] picture in picture function, press [menu key] to save and exit.

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Menu mode (setup mode)

Press [menu key] to enter the menu setting mode, and the interface is shown as pictures below (at this time, the shortcut key is not function)



1. Image setting: press [+ key] [- key] move the cursor to the image setting option, and press [menu key] to enter the sub menu, press [menu key] to switch the contrast / brightness / sharpness / mode options, and press [+ key] [- key] to adjust

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5. Shutter Correction: press [+ key] [- key] to move the cursor to the shutter correction option, and press [menu key] to enter picture correction. Manual picture correction can obtain better picture effect.

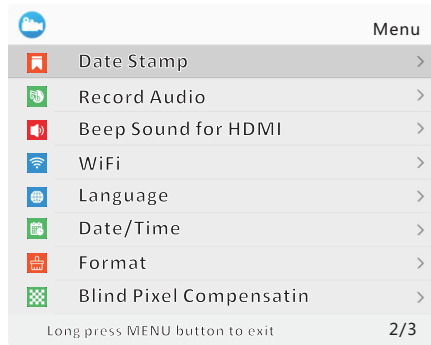
6. Hot Track: press [+ key] [- key] to move the cursor to the hot track option, and press [menu key] to enter sub-menu. Press [+ key] [- key] to switch on and off the thermal imaging tracking function. Press [menu key] to confirm and exit.

7. Auto Recording: press [+ key] [- key] to move the cursor to the automatic video recording option, and press [menu key] to enter the sub-menu. Press [+ key] [- key] to select on / off automatic video recording option, press [menu key] to confirm and exit.

8. Loop Recording: press [+ key] [- key] to move the cursor to the loop recording option, press [menu key] to enter the sub-menu, press [+ key] [- key] to select cyclic recording off / 3minutes / 5minutes / 10minutes, press [menu key] to confirm and exit.

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9. Date Stamp: press [+ key] [- key] to move the cursor to the date stamp option, press [menu key] to enter the sub-menu, press [+ key] [- key] to select on / off date stamp, and press [menu key] to confirm and exit.



10. Record Audio: press [+ key] [- key] to move the cursor to the record audio option, and press [menu key] to enter the sub-menu, press [+ key] [- key] to select on / off recording audio, press [menu key] to confirm and exit.

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14. Date/Time: press [+ key] [- key] to move the cursor to the date/time, and press [menu key] to enter the sub-menu, press [+ key] [- key] to adjust the setting time value, press [menu key] to switch options, and long press [menu key] to exit and save.

15. Format: press [+ key] [- key] to move the cursor to the format option, press [menu key] to enter the sub-menu, press [+ key] [- key] to select Cancel / confirm, and press [menu key] to confirm and exit the menu interface.

"Formatting will delete all data", please consider carefully before you confirm! Data cannot be recovered after deleted.

16. Blind Pixel Compensation: press the [+ key] [- key] to move the cursor to the blind spot repair option, and press the [menu key] to enter. You can see the prompt.

Please put the lens cover on before blind spot repair, press the [menu key] to

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11. Beep Sound for HDMI: press [+ key] [- key] to move the cursor to the beep sound for HDMI option, and press [menu key] Enter the sub-menu, press [+ key] [- key] to select on / off HDMI prompt tone, press [menu key] to confirm and exit.

12. WiFi: press [+ key] [- key] to move the cursor to the WiFi option, press [menu key] to enter the sub-menu, and press [+ key] [- key] to select on / off WiFi function, press [menu key] to confirm and exit.

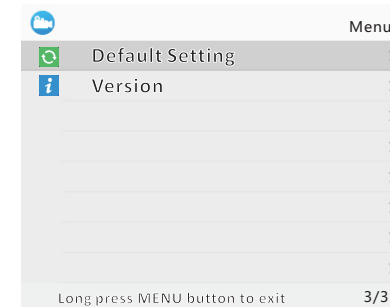
The menu interface cannot be opened after the WiFi function is turned on. Please turn off the WiFi hotspot by long pressing [+ key].

WiFi account is a string of characters starting with PARD, and the password is 12345678.

13. Language setting: press [+ key] [- key] to move the cursor to the language setting option, press [menu key] to enter the sub-menu, press [+ key] [- key] to select "English" / ""Français" / "Español" / "Português" "Deutsch"/ "Italiano" / "Русский" / "Cesky" language, press [menu key] to confirm and exit.

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start blind spot repair, which will be completed within ten seconds. After the repair is completed, you can choose to save or cancel. If you cancel blind spot repair, long press the [menu key].



17. Restore factory default setting: press [+ key] [- key] to move the cursor to the restore default setting option, press [menu key] to enter the restore default setting page, press [+ key] [- key] to select Cancel / confirm to restore the default setting, press [menu key] to confirm and exit.

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4、Warranty description

Thank you for purchasing PARD product. During the warranty period, we will provide you a quality after-sales service, in accordance with this warranty clause.

1: Warranty policy

PARD guarantees users of this product can get effective warranty under the following conditions.

(1) This warranty card shall be provided at the same time.

(2) During the warranty period, faults caused under normal operation, not man-made damages, shall be repaired and replaced free of charge.

2: Warranty limitations

When product is damaged and cannot be used due to the following reasons, will not within the scope of warranty.

(1) Disassemble the machine by yourself. In case of failure, please contact the

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5、After sales support

PARD provides users with after-sales support services for the company's products. If you need after-sales service support, please log on to our official website www.pard-tech.com/support to fill in and submit the information. We will get back to you within one working day.

In order to provide you with better service, we need you to fill in and submit the following information:

1. Where you bought the machine
2. Your country/name/email address/telephone number
3. Machine models that need after-sales support
4. The SN code of the machine
5. Describe the problem encountered

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manufacturer at once. Maintenance, modification or product sealing sticker rupture without the approval of PARD are not within the scope of warranty.

(2) Damage caused by human factors or accidents, including use under abnormal working environment, damage caused by man-made failure to use and install not according to the instructions, etc., are not within the scope of warranty.

(3) PARD reserves the right to modify and interpret the terms in this user menu.

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6、Packing Contents

Item No.	Packing Contents	Quantity	Remark
1	Thermal imaging device	1	
2	Shoulder bag	1	
3	Hand strap	1	
4	Type-C cable	1	
5	Li-ion 18650 3.7V rechargeable battery	1	
6	User manual	1	
7	Warranty card	1	
8	Cloth bag	1	
9	Lens cap	1	

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Warning:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

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.

FCC Statement:

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.

In normal use, the wifi module away from the human body at least 5mm



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