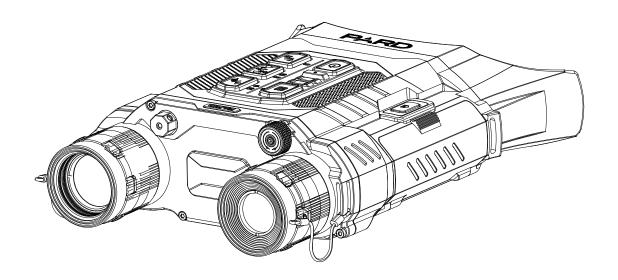


# **Digital Night Vision Binocular**

# Merlin Series

# **Quick Start Guide**



Shenzhen Pard Technology Co.,Ltd

# **Important Reminder**

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

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.

# Scan To Enjoy Privilege



## Scan The QR Code To Join Our Membership

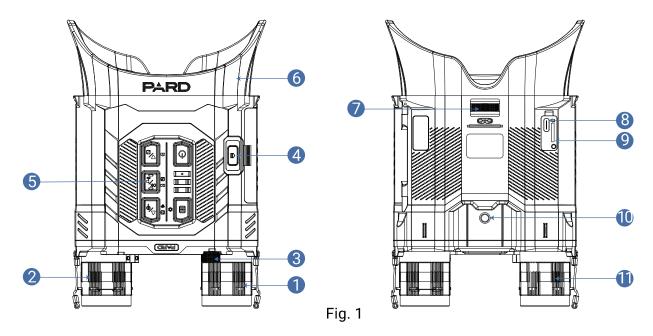
- Extend warranty
- Enjoy 1 on 1 expert service
- Get the product experience officer opportunity

# 

Icon	Contents	Quantity
1	Merlin Unit	1
2	21700 Rechargeable Lithium-Ion battery	1
3	Type-C cable	1
4	Cloth	2
5	User's manual	1
6	After-sales card	1

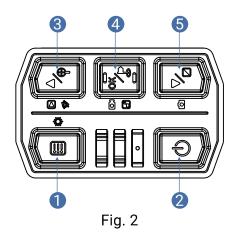
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### **Merlin Series**



No.	Name	No.	Name
1	IR illuminator	7	Interpupillary Adjustment Wheel
2	Objective Lens	8	Type-C charging Port
3	Diopter Focusing Wheel	9	Micro SD Card Slot
4	Battery Cap Button	10	Tripod screw hole
5	Keypad	1	Objective Lens focusing ring
6	Rubber eyepiece		

### **Shortcut Mode**



Keypad	Single Press	Press and Hold	Double Press
0	Turn on/off menu	-	-
2	Sleep mode	Power on/off	-
3	Up/Zoom in	Playback/Turn off WiFi	-
4	ОК	Record/Save video	Turn on/off PIP
5	Down/ Adjust IR illuminator level	Switch black&white/ color mode	Take photos

## 

### 1. Battery Installation and Startup

Please following the steps below for battery installation:

- (1) Press the battery cap button until it opens and remove the battery.
- (2) Remove the insulating tape from the battery.
- (3) Put the positive pole(+) of the battery near the objective lens, and then press the battery cap until the battery cap is locked.
- (4) To turn on the device, press and hold the power button for about 3 seconds. (Whenthe PARD logo appears on the screen, the device is ready for use)

#### Note:

- 1 Use a single 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.
- Oo not put the device into water when the battery cover is open;
- 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;
- 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.
- Do not use the battery if it has been damaged in any way.
- f U 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.

### 2. Diopter Adjustment Ring

Diopter adjustment in a night vision device refers to the ability to adjust the focus of the device's eyepiece to compensate for differences in users' vision. It allows individuals with varying levels of eyesight to achieve a clear and focused view of the displayed content on the device's screen.

- 1 After turning on the device, rotate the diopter adjustment ring until the texts or icons on the screen are clearly.
- Please note that the image may not be clear after diopter adjustment. As long as the text on the screen is clear and visible, it is sufficient.

**Note:** If the objective lens is not properly focused, the image may be unclear.

### 3. Interpupillary distance adjustment

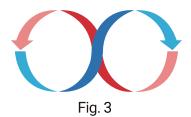
Adjust the appropriate interpupillary distance by toggling the wheel.

### 4. Objective Lens Adjustment Ring

- $oldsymbol{0}$  Before adjusting the objective lens, it is important to complete the diopter focusing.
- Then adjust the objective lens focus ring until a clear image of the target is achieved.

### 5. E-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.

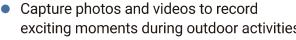


### **Key Features**

- 1920\*1080 CMOS Image Sensor
- Adjustable interpupillary distance function
- Visible Light Enhancement Algorithm (VLEA)
- Adjustable beam IR illuminator with a range of 350m.
- exciting moments during outdoor activities

### **PRECAUTIONS**

- 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.
- Please 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.
- Be extra caution and handle the device with care during use or transportation. It is recommended to use the original packaging during transportation.
- 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 temperature should not be lower than -30°C/-22°F or higher than 55°C/131°F.
- Do not disassemble the device without proper authorization. If you encounter any problems, please contact our after-sales team and report them issues on our official website. Failure to do so will render the warranty service null and avoid.
- Attention! All PARD night-vision and thermal imaging devices require a license when exported to outside your country.



One large display, comfortable for observation

# 

Model		Merlin		
Classification		Digital Night Vision(Binocular)		
Sensor				
Туре		CMOS		
Resolution(Pixel)		1920*1080		
Pixel Size(μm)		2.9		
Sensitivity(Lux)		0.001		
Frame Rate(Hz)		60(Color)/30(B&W)		
Image Engine		PARD VLEA		
Optics				
Objective Lens(mm)		35/50		
Optical Magnification(X)		3.2/4.6		
Digital Zoom(X)		2		
	Horizontal	6.8°/4.8°		
Field of View(HxV)	Vertical	5.1°/3.6°		
	Diagonal	8.5°/6.0°		
Focus Range		3m-∞		
Diopter Adjustment(D)		-5~3		
IR Illuminator				
IR Type		VCSEL		
IR Power(W)		5		
IR Illuminating Level		3 Levels		
IR Distance(M)		350		
IR Wavelength(nm)		850/940		
Display				
Туре		OLED		
Resolution(Pixel)		640*480		
Color Mode		Color/Black&White		

Main Function				
PiP	Yes			
Auto Recording	Yes			
Loop Recording	Yes			
Time Stamp	Yes			
Record Audio	Yes			
<b>Exposure Compensation</b>	Yes			
Storage(GB)	Micro SD card (Max. 128GB)			
Connections				
Usb Type-c	Yes			
WiFi	Yes			
Supported Apps	PardVision2			
Power Supply				
Battery Type	Lithium Ion 21700*1			
Output Voltage(V)	3.7			
Operating Time(h,Max)	6			
External Power Supply(V)	Type-C			
Environmental Characteristic				
Degree of Protection	IP67			
Operating Temp(°C/°F)	-30 ~ +55 / -22 ~ +131			
Material				
Housing	AL6061 & Composite			
Objective Lens	Glass			

## 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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