



Operating Manual

V1.0



equipment, which is used for individual reconnaissance.

The night-vision instrument is light in weight, small in size, easy to carry, and has the characteristics of long

working time and good concealment.

WARNING!





Wavelength:545nm Maximum power:<5mW

Parameter

	PFN384+	PFN640+	
Detector	384 × 288/17 μ m	640 × 512/12 µ m	
Lens	f25mm		
Eyepiece	14 [×]		
Human recognition	420m	600m	
Vehicle recognition	750m	1070m	
NETD	≤40mK		
Frame rate	50Hz		
FOV	14.6° × 10.9°	17.2° × 13.7°	
Exit pupil distance	15mm~35mm		
Diopter	-5~5		
Picture mode	White, Black, Red, Color		
E-zoom	1X、2X、4X		
Battery life	≥4h		
Battery type	1X18650/1X18700		
Display	1024X768,0.39inch		
Storage	64G		
Interface	Picatinny Rail、Helmet mount		
Weight	≤360g		
Dimensions (mm)	115 × 65 × 48		
IP rating	IP67		
Operating temperature	-40°C~60°C		
Storage temperature	-50℃~70℃		

Parts



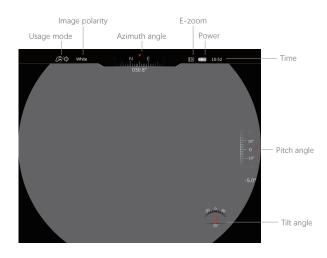
Button

Key	Current	Short press	Long press
	Off		On
	Main interface	E-zoom	Off
	Menu	Switch options	
	Reticle/Blind pixel correction	Move 1 pixel in the positive direction	Move 10 pixel in the positive direction
	Main interface	Enter menu	Switch mode
	Menu	Select	Return
_	Main interface	Photo	On/Off record
	Menu	Switch options	
	Reticle/Blind pixel clear	Move 1 pixel in the positive direction	Move 10 pixel in the positive direction
	Main interface	On/Off sleep	Adjust laser point
	Main interface	Shutter correction	Background correction
	Main interface		On/Off laser point

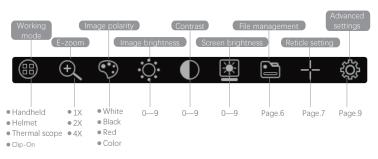
Note: When performing image background correction, make sure the lens cover is closed.

Laser point is optional, the position of laser point has been adjusted before leaving the factory.

Observation



Menu

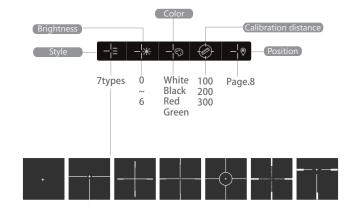


Under Helmet and Clip-on mode, the length and width of screen display is reduced to 70% of average size.

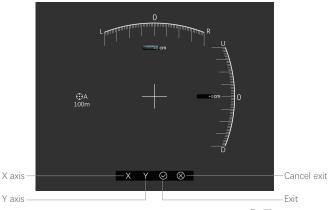
File management



Reticle settings

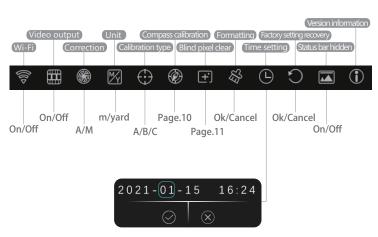


Position



Before entering the X/Y direction selection, long press to freeze the screen; After entering the X/Y direction selection, short press to move 1 pixel, long press to move 10 pixels.

Advanced settings



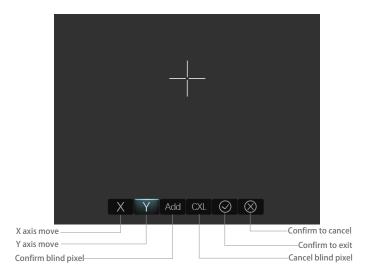
Compass calibration



Under compass calibration interface, calibrate the compass by rotating the device over 360° along the X, Y and Z axises respectively as icon demostrated.

- . a) The rotation direction is not limited;
- b) The rotation sequence of X, Y and Z is not limited, but the operation must be completed in all three directions;
- . c) The rotation axis is centered on the product itself;
- d) The rotation range must be greater than 360°.

Remove blindness



APP introduction

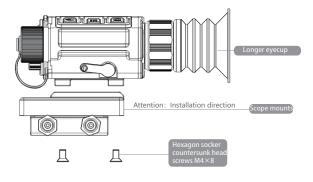
You can go to the website (www.xinfared. com) or search the infiray outdoor in the app store to download and install the app, or scan the QR code below for free download.



When Wi-Fi is turned on, search for the Wi-Fi named "INFRARE_XXXX" on the mobile device, where XXXX is a 4-digit serial code consisting of numbers and letters. Select the Wi-Fi, enter the password and connect, the initial password is 123456789.

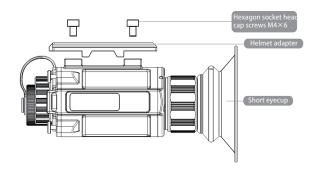
Install accessories: Handheld mode and thermal scope mode

- Install eyecup: It is recommended to use a longer eyecup for handheld mode and thermal scope mode.
- Install scope mounts: The thermal scope mode and Clip-on mode need to install the scope mounts.



Install accessories: Helmet mode and Clip-on mode

- Install eyecup:shorter eyecup for helmet mode and Clip-on mode.
- Install helmet adapter: The helmet adapter needs to be installed in helmet mode.



Maintenance

- Switch off timely when the obervation is finished or no object is detected for long time, so as to prolong the battery service time.
- Lens is the critical optical component. Avoid oil and chemical contamination which will damage the lens during installation and usage.
 After the usage, cover the lens cap.
- Remove the battery and place the device in packing case during the transportaion or unused time.
- The device shall be stored in cool and dry environment.
- Clean the device enclosure with clean, soft and dry lint.
- Chemical resolution is not allowed.
- Clean the lens only when there is stain/dirt with special lens cleaning cloth. Don't clean the lens directly with hands. Finger print will stain lens and acidic matieral on skin will damage the len surface.
- Power on and calibrate the device every half year.



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