



User Manual

VISTA H35 / VISTA H50 /VISTA H35R /VISTA H50R



1 Specification

Model	VISTA H35	VISTA H35R	VISTA H50	VISTA H50R	
Thermal Sensor	640×	:512,12µm	640×512,12µm		
NETD,mK		≤15	≤	15	
Frame rate,Hz		60	(60	
Objective lens,mm	3	5 F0.9	50	F0.9	
Field of view(H×V),°/m@100m	12.5×	10.0/22×18	8.8×7.()/15×12	
Magnification,×		3~28	4~	-40	
Detective range,m(Target size:1.7m×0.5m,P(n)=99%)		1800		2600	
Exit relief,mm		25	25		
Exit pupil diameter,mm	8			8	
Diopter,D	-	-4~+6		-4~+6	
Display	AMOLE	D 2560×2560	AMOLED	2560×2560	
Battery Type	Replaceable li-ion ba	Replaceable li-ion battery pack IBP-7/4400mAh		ry pack IBP-7/4400mAh	
Max.operation time,(t=22°C)h	5.5		5	.5	
Safety Class for Laser	/	/ Class 1		Class 1	
Max.Rangerfinder distance,m	/	1200	/	1200	
MIC	Support		Sup	port	

Memory capacity,GB	64		64	
IP rating	IP67		IP67	
Operating temperature, $^\circ\!$	-20 ~ +50		-20 ~ +50	
Weight,g(with battery)	600	640	630	650
Dimension,mm	184×61×71	190×67×79	190×67×79	194×70×82

★ The actual operating time depends on the density of Wi-Fi use, photographing, video recording, etc.

> Improvements may be made to the design and software of this product to enhance its features without prior notice to the customer.

2 Package Contents

- VISTA series Thermal Imaging Monocular
- Portable bag
- Battery pack IBP-7 × 2
- Data cable
- Neck Strap
- Lens cleaning cloth
- Quick start guide

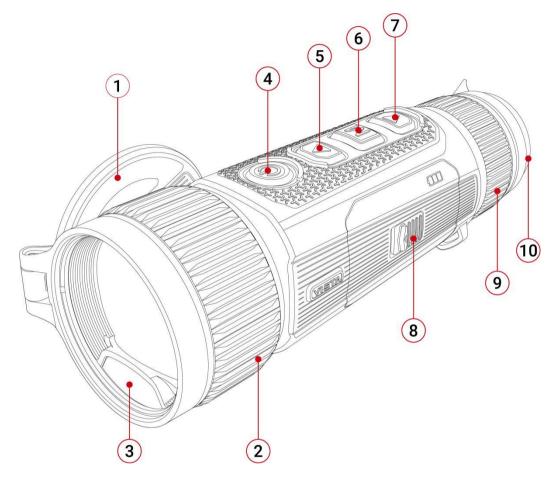
3 Description

The Vista series thermal imaging monoculars are designed for use both at night-time and during the day and provide exceptional image quality even in adverse weather conditions (fog, smog, rain) and beyond obstacles like branches, tall grass, dense foliage, etc. known to hinder target detection. VISTA thermal imagers are designed for various applications including hunting, observation, security, terrain orientation, search and rescue operations, etc.



- 640×512 12µm detector
- NETD≤15mK
- 60Hz high frame rate
- F0.9 objective lens
- Lens and Laser rangefinder 2 in 1 (VISTA H35R/VISTA H50R)
- AMOLED 2560×2560 round display
- Rechargeable Battery pack IBP-7 for quick replacement
- Smooth digital zoom: 1×~8×
- Ultra clear mode
- Eye protection with low brightness, color palette and warm hue
- Electronic image stabilization

5 Components and Buttons



1.lens cap	4. Power (P) button	7. Down button	10. Eyeshade
2. Lens focus ring	5. Up button	8. Battery Pack	
3. Laser rangefinder (H35R/H50R)	6. Menu (M) button	9. Eyepiece	

6 Button Operations

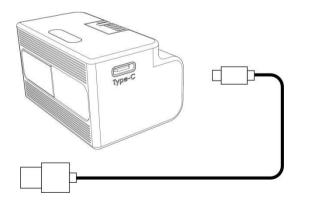
Button	Current Status	Short Press	Press and Hold
	Powered off		Power on the device
Power button	Home screen	Standby the device	Power off the device
(¹)	Standby mode	Wake up the device	Wake up the device
U	Shortcut menu interface	Return to the upper menu with saving changes	Power off the device
	Main menu interface	Return to the upper menu without saving changes	Power off the device
	Home screen	Digital zoom	Turn on/off the LRF function
Up button	Shortcut menu interface	Navigation upwards	
	Menu interface	Navigation upwards	
	Home screen	Open the shortcut menu	Go to the main menu
Menu button M	Shortcut menu interface	Switch and confirm parameters	Save and back to the home screen
IVI	Main menu interface	Enter the submenu / Switch and confirm parameters	Save and back to the home screen
	Home screen	Take a photo	Start a video recording
	Video recording	Take a photo	Stop and save the video
Down button	Shortcut menu interface	Navigation downwards	
•	Menu interface	Navigation downwards	
▲ + M	Home screen		Turn on/off PIP
▲ + ▼	Home screen	Shutter calibration	Background calibration
M + ▼	Home screen or Laser rangefinder		Switch the ranging mode between s ingle ranging and cont inuous ranging

7 Battery charging

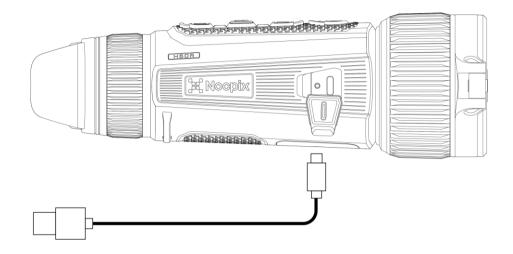
The Vista series uses the rechargeable lithium-ion Battery pack. Please charge the Battery before use.

Method 1: Charging directly

- > Connect the Type-C plug of the data cable to the port of the battery pack.
- Connect the other plug of the data cable to the USB port of the power adapter.
- Insert the power adapter to a 100V 240V power socket to charge the Battery.
- During the charging process, the LED indicato on the Battery pack will start to glow and blink. If all four indicator lights are on and stationary, the Battery is fully charged.



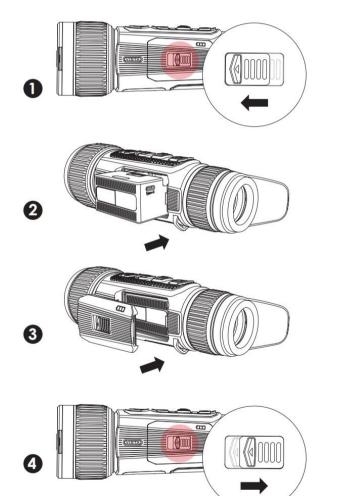
Method 2: Charging with Type-C Port



- > Open the Type-C port cover on the bottom of the Vista series.
- > Connect the Type-C end of the data cable to the Type-C port.
- > Connect the other end of the data cable to the power adapter.
- > Plug the adapter into a 100-240v power socke for charging.
- The battery icon will be changed to the charging icon on the display.
- During charging the Battery with the Type C port, the status light on the Vista series will change also to display the battery status.
 - If the status light is steady red, the Battery is being charged.
 - If the status light turns green, the Battery is fully charged.

Battery Pack Installation

- Slide the button on the battery compartment cover, open the battery compartment, and pull out the battery pack
- Insert the battery pack, cover the battery compartment cover, and slide the button to lock it.



Precautions for Battery

- After a long storage time, the battery should be partially charged, not fully charged or discharged.
- Do not charge the battery immediately after you bring it from the cold environment to the warm environment. Wait 30 to 40 minutes for it to warm up.
- > Do not charge the battery unsupervised.
- Charge the battery in the environment of 0°C to +45°C. Otherwise, the service life of the battery will be reduced.
- > Charging time should not exceed 24 hours.
- > Do not expose the Battery to high temperature or a naked flame.
- > Do not immerse the Battery in water.
- Do not connect external device with a current consumption that exceed permitted levels.
- The Battery is equipped with a short circuit protection function. However, any situation that may cause short-circuiting should be avoided.
- Please do not disassemble or modify the Battery without professional instructions.
- > Do not knock or drop the Battery.
- The battery capacity may decrease when using the battery in negative temperature, that is normal, not a defect.

- Avoid using the Battery at the temperature above the temperature shown in the table, this may decrease the battery pack's life.
- > Please keep the Battery out of the reach of children.

8 External Power Supply

The Vista series can be powered with an external power supply, such as a Power Bank (5V).

- Connect the external power supply to the Type-C por on the bottom of the vista series.
- The device will switch to the external power supply and charge the internal Battery Pack at the same time.
- \succ The battery icon will be changed to the charging icon .
- > If the device is connected to an external power source and no Battery
 - Pack is installed, the battery icon will be changed to the USB icon \square .
- When the external power supply is disconnected, the Vista series will automatically switch to the Battery Pack without powering off.

9 Power On/Off and Image Settings

- Power On: Remove the lens cap. Press and hold the Power button to power on the device. Then, the home screen is displayed after several seconds.
- Rotate the eyepiece diopter ring until the image becomes clear in the eyepiece. After the adjustment, it no needs to be adjusted for the same user.
- Rotate the focusing ring of the objective lens to focus on the object to be observed.
- To set the image mode, display brightness, image sharpness, image contrast, refer to the Shortcut Menu section in this manual.
- Power Off: After use, press and hold the Power button and a shutdown countdown is displayed. Then release your finger. During the process, press any key can cancel the shutdown.

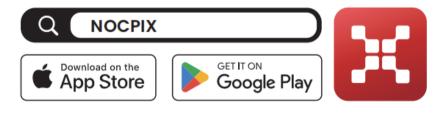


Client Software Connection

The Vista series thermal imaging monocular supports control with **NOCPIX** App, which allows you to transmit images in real time, operate the device, and update the program by connecting a smartphone or laptop via Wi-Fi. You can download and install the NOCPIX App In the official website (www.nocpix.com) or the app store. Alternatively, you can scan the QR code below to download it for free.

The vista series has a built-in Wi-Fi module. The device can connect to an external apparatus (computer or mobile phone) via Wi-Fi.

- In the home screen, press and hold the **M button** to go to the main menu. enable the Wi-Fi on the device.
- After the Wi-Fi is enabled, search for the Wi-Fi named VISTA_H50R_XXXXXXX on the external device, among which XXXXXXX is the serial number of the device. Select the Wi-Fi, enter the password and connect. The initial password is 12345678.
- After the Wi-Fi connection is established, you can control the device via the mobile app.
- Through the APP, many functions can be achieved, such as upgrade device, real-time image transmission, device file and date&time calibration.



Upgrade Device

- > When installation completed, open NOCPIX application.
- If your device has been connected to a mobile device, please switch on the mobile data in mobile device. After connection, an update prompt will be displayed automatically in the APP. Click Now to download the latest version immediately or click Later to update later.
- NOCPIX can store the last connected device automatically. Therefore, once you have connected with NOCPIX before, it will automatically detect the update even when the scope is not connected to a phone or laptop.
- If an update is available and the mobile device accesses the internet, you can download the update first. Then when the device is connected with the mobile device, it will be updated automatically.
 After the update is installed, the device will restart automatically.

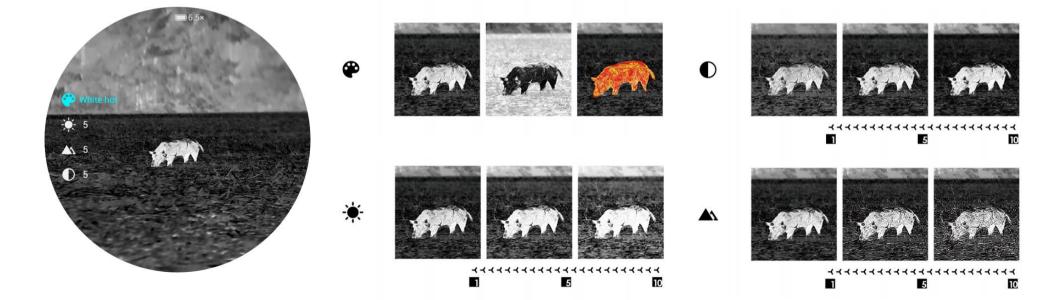


11 Shortcut Menu

On the shortcut menu, you can quickly adjust basic configurations of commonly used functions, including the image mode, display brightness, image sharpness,

and image contrast.

- > In the home screen, press the **M button** to go to the shortcut menu.
- > Press the **Up / Down** button to switch the following options.
 - Image mode: Press the M button to change the image mode (white hot, black hot, red hot, color, and highlight).
 - Image brightness: Press the M button to change the image brightness from level 1 to level 10.
 - Image sharpness: Press the M button to change the image sharpness from level 1 to level 10.
 - Image contrast: Press the M button to change the image contrast from level 1 to level 10.
- > Press and hold the **M button** to save the changes and return to the home screen.
- > In the shortcut menu, if there is no operation within 7s, the device will automatically save the changes and return to the home screen.



12 Main Menu

- > In the home screen, press and hold the **M button** to go to the main menu.
- > Press the **Up / Down** button to switch the menu options.
- The function options in the main menu are cyclical: when the arrow > reaches the last option on the first page, it will turn to the first menu option on the second page. When the arrow > is on the first option of the first page, press the Up button to switch to the last option of the second page.
- Press the M button to modify the parameter settings of the current menu option or to open the submenu.
- In the second and third-level submenu, press the Up / Down button to choose a parameter or function; press the M button to confirm the selection. An icon flashes, indicating the changes are being saved, and then the upper menu or the submenu is displayed.
- In any menu interface, press the **Power button** to return to the upper menu or home screen without saving the changes, and press and hold

the M button to save the changes and return to the home screen.

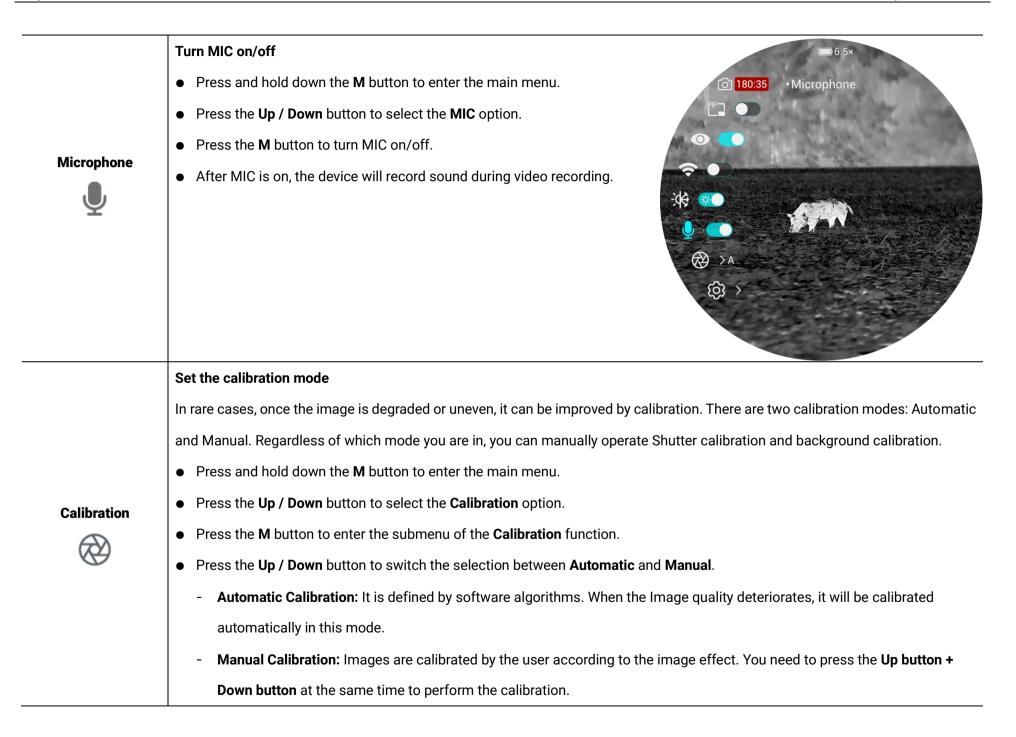
- In any menu interface, the device will automatically return to the home screen without saving the changes when there is no operation within 15s.
- During the continuous operation of the thermal imaging monocular, when you exit from the main menu, the cursor > remains at the position before exiting. When you restart the thermal imaging monocular and go to the main menu for the first time, the cursor stays at the first menu option.

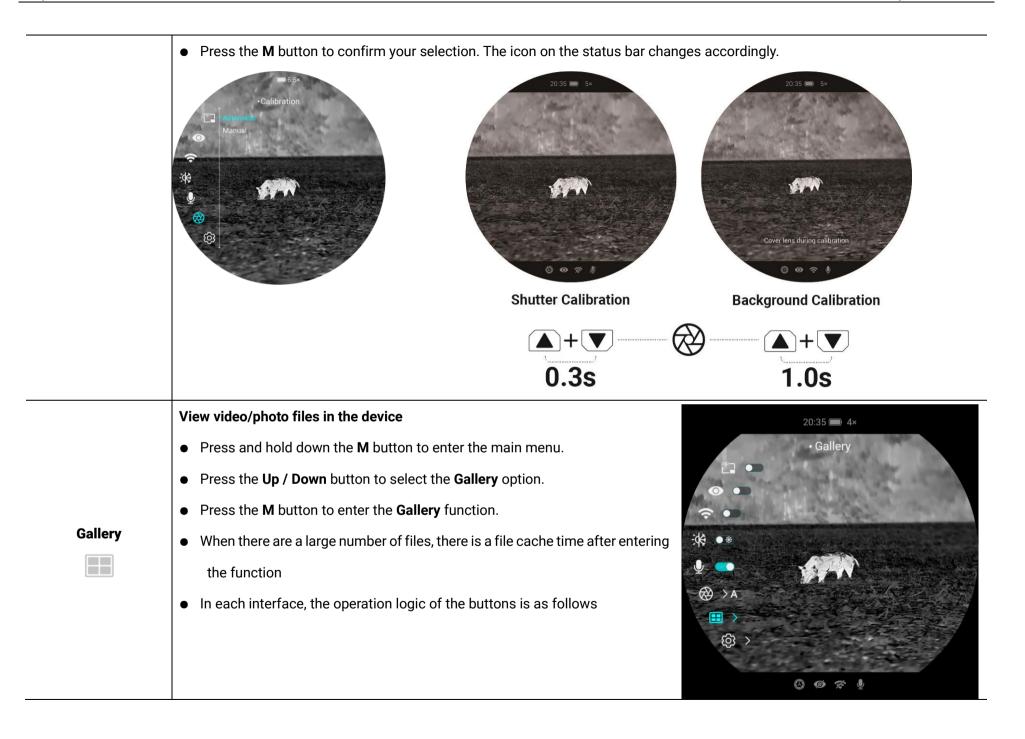


Main Menu Options and Descriptions

Picture In Picture	 Turn the PIP on/off Press and hold down the M button to enter the main menu. Turn the PIP on /off with a short press of M button. Picture-in-Picture (PIP) provides a floating window independent of the full screen. This window shows part of the image which is enlarged to 2× in a certain area centered on the reticle of the main image. 	
Ultra-clear	 Turn the Ultra-clear mode on/off Press and hold down the M button to enter the main menu. Select the Ultra-clear menu option with the Up / Down button. Turn the Ultra-clear mode on /off with a short press of M button, during which you will hear a click of shutter calibration. When the function is turned on/off, the icon on the status bar changes accordingly. When the Ultra-clear mode is on, the image contrast is enhanced, which is suitable for rainy, foggy and other harsh weather conditions. 	180:35 •Ultra-Clear 892m ** ** ** ** **

Wi-Fi	 Turn Wi-Fi on/off Press and hold down the M button to enter the main menu. Press the Up / Down button to select the Wi-Fi option. Turn the Wi-Fi on /off with a short press of M button. When Wi-Fi is on, the default password is prompted for 3s behind the icon of Wi-Fi. The default password is 12345678. After the password is changed, it will not be displayed. When the function is turned on/off, the icon on the status bar changes 	0 (° 12345678 (° 12345678) (° 12345678) (°)))))))))))))))))))
Image Hue -	 accordingly. Set the image hue Press and hold down the M button to enter the main menu. Press the Up / Down button to select the Image Hue option. Press the M button to switch the Image Hue between W (warm) and C (cool). Cool hue image is brighter and warm hue image is softer and eye protection. The switch between the warm and cool hues is not applicable to the color palettes. 	





			Folder interface	File interface	View interface
	Power button	Short press	Return to the upper menu	Return to the upper menu	Return to the upper menu
		Short press	Navigation upwards	Navigation upwards	Backward
	Up button	Press and Hold	Previous page	Previous page	/
	Manu huttan	Short press	Enter folder	View file	Pause/Play
	Menu button	Press and Hold	Back to the home screen	Back to the home screen	Back to the home screen
	Down button	Short press	Navigation downwards	Navigation downwards	Fast forward
	Down button	Press and Hold	Next page	Next page	/
	 Press the Up Briefly press	/ Down button to a the M button to er	ton to enter the main menu. select the Settings option. nter the submenu. configure the following settings		
Settings	Setting the system date In the Settings submenu, select the Date menu option with the Up / Down button. The date is in the format of YY/MM/DD. Briefly press the M button to active the Date submenu. Two triangle icons will appear above a the value. Switch among the year, month, and day with a short press of the M button. Set the correct year, month, and day with a short press of the Up / Down button. Press and hold down the M button to save and exit.		ons will appear above and below on.		

		Setting the system time
		 In the Settings submenu, select the Time menu option with the Up / Down button.
т	ime	• The time format is displayed as HH:MM in 24-hours format.
		• Press the M button to active the Date submenu. Two triangle icons will appear above and below the value.
(9	• Select the correct value for the hour and minute with a short press of the Up / Down button.
		• Short press the M button to switch between hour and minute.
		• Press and hold down the M button to save and exit. And the time in the status bar changes accordingly.
		Setting the system language
	Language	In the Settings submenu, select the Language menu option with the Up / Down button.
Lan		• Enter the Language submenu with a short press of the M button.
	3	 Select the desired language with a short press of the Up / Down button.
		• Press the M button to confirm the selection. At the same time, it will save setting and exit to the Settings
		submenu automatically.
	_	Setting UI
Stat	tus Bar	 In the Settings submenu, select the Status Bar menu option with the Up / Down button.
	×	• When Select Hide, UI only retains time, magnification and battery level icons, When Show is selected, all
		icons are displayed.

	2015 6* • Status Bar • Status Bar • Show • Hide	
Unit	Distance measurement unit	
M	• In the Settings submenu, select the Unit menu option with the Up / Down button.	
	• You can choose units of m or yr	
EIS	 Turn Electronic Image Stabilization on/off In the Settings submenu, select the EIS menu option with the Up / Down button. Press the M button to turn EIS on/off When EIS is turned on, the image will be slightly enlarged. When the electronic zoom >1x, EIS is turned on by default. It is not affected by the function switch. When the laser rangefinder is turned on, EIS is turned off by default. 	
Footory Dooct	Restoring factory default settings	
Factory Reset	 In the Settings submenu, select the Factory Reset menu option with the Up / Down button. 	

 Press the M button to enter the Factory Reset submenu. Press the Up / Down button to select Yes or No. Yes means to restore factory settings and No means to cancel the operation. Confirm your selection with a short press of the M button. If Yes is selected, the thermal imaging monocular will reboot automatically. If No is selected, the operation is canceled and the screen returns to the upper menu. After the Factory Reset is selected, the following functions will be restored to default settings: Image mode: white hot Ultra-clear mode: off Display brightness: level 5 Image Hue: C Image contrast: level 5 MIC: off Digital zoom: 1x Status Bar: Show Unit: m Showing the system information In the Settings submenu, select the Info menu option with the Up / Down button. The relevant information of device will be shown by a short press of the M button. The relevant information of the current thermal imaging monocular: product model, Firmware, PN, SN, hardware version number, etc. Press and hold the M button to return to the General Settings submenu.					
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After the Factory Reset is selected, the following functions will be restored to default settings: Image mode: white hot - Ultra-clear mode: off Display brightness: level 5 - Wi-Fi: off Image contrast: level 5 - Image Hue: C Image contrast: level 5 - MIC: off Digital zoom: 1× - Calibration mode: A Status Bar: Show - Unit: m Showing the system information - In the Settings submenu, select the Info menu option with the Up / Down button. The relevant information of device will be shown by a short press of the M button. - The is item allows the user to view the following information of the current thermal imaging monocular: product model, Firmware, PN, SN, hardware version number, etc.			• If Yes is selected, the thermal imaging monocular	r will reboot automatically.	
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- Status Bar: Show - Unit: m Showing the system information Info Info (i) The relevant information of device will be shown by a short press of the M button. This item allows the user to view the following information of the current thermal imaging monocular: product model, Firmware, PN, SN, hardware version number, etc.			- Image contrast: level 5	- MIC: off	
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 In the Settings submenu, select the Info menu option with the Up / Down button. The relevant information of device will be shown by a short press of the M button. This item allows the user to view the following information of the current thermal imaging monocular: product model, Firmware, PN, SN, hardware version number, etc. 			- Status Bar: Show	- Unit: m	
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		i	• This item allows the user to view the following i	nformation of the current thermal imaging monocular:	
• Press and hold the M button to return to the General Settings submenu.					
	 Press and hold the M button to 		• Press and hold the M button to return to the Gene	eral Settings submenu.	

13 Digital Zoom

The Vista series supports quick digital zoom-in for images, to increase visual magnification.

- > On the home screen, press the **Up button** to zoom the image.
- > The corresponding magnification is displayed in the status bar.
- The following table lists the visual magnifications corresponding from the 1× to 8×.

14 Photographing and Video Recording

The Vista series thermal imaging monocular is equipped with a built-in 64GB memory storage and supports photographing and video recording. The image and video files will be named after time, so it is recommended to set the system date and time in the Main Menu before using the photo and video functions (refers to **Main Menu - Settings - Date/Time Setting** in this manual), or to synchronize the system date and time in the settings of the NOCPIX App. For details, refer to the Operating Instructions for the App in our official website (www.nocpixr.com).

Photographing

> On the home screen, press the **Down button** to take a photo. The image

freezes for 0.5 sec with a camera icon i flash on the upper left corner. After the image is taken, the icon disappears.

- > The images taken are saved in the built-in memory storage.
- When the exclamation mark icon () appears on the right side of the camera icon, it prompts that the memory space is insufficient. Check and transfer your videos and images to other media to free up the space.

Video Recording

- On the home screen, press and hold the **Down button** to start the video recording.
- The recording icon and recording time prompt are displayed on the upper left corner of the display, and the time is in the format of HH: MM: SS (hour: Minute: Second).
- The red dot on the left of the time prompt will flash continuously when recording.
- During recording, you can also take a photo by pressing the Down button.
- > Press and hold the **Down button** to stop and save the video. Recording.
- > All videos and photos will be saved in the built-in memory storge.
- Vista series is built-in Microphone function, You can turn on the microphone function to record while recording.

Note

- You can enter and work on the menu during video recording.
- The image taken and the recorded video will be respectively saved in the names in the formats of IMG_yyyyMMddHHmmss.jpg and VID_yyyyMMddHHmmss.mp4 in the built-in memory card (yyyyMMddHHmmss-year, month, date, hour, minute, and second);
- Due to the limitation of the storage space, it is recommended that you clean the memory regularly or move the images and videos to other storage medium to release memory space of the device.

Memory Access

When the device is powered on and connected to a computer, it will be recognized by the computer as a flash memory card. Then, you can access the memory of the device and copy images and videos.

- > Connect the device to a computer through the data cable.
- Power on the device.
- Double-click "My Computer" on the desktop double-click to open the device named "NOCPIX"- then double-click to open the device name "VISTA" to access the memory.
- Files named by time will be displayed after you access the memory.

15 Laser Rangefinder (H35R/H50R)

- In the home screen, press and hold the Up buttons to turn the laser rangefinder function on/off.
- You can change the unit of distance measurement by using the unit function in the settings menu.
- > Long press the **Up** button to exit to the laser rangefinder function.
- ➤ You can switch the ranging mode between continuous ranging(CONT) and single ranging(SGL) by long pressing M+↓. When in single ranging mode, press and hold the up button to start ranging. Release the button to stop.

16 Technical Inspection

Perform a technical inspection to check the following items each time before you use the device:

- Exterior of the device (no crack on the enclosure).
- Lens and eyepiece (no crack, oil, stain, or other sediments)
- Status of the rechargeable battery (fully charged in advance) and electrical contact (no salinization or oxidation).



The maintenance should be carried out at least twice a year and includes the following steps:

- Wipe the surface of metal and plastic parts to clear off dust and dirt with a cotton cloth. Silicone grease may be used for cleaning process.
- Clean the electric contacts and battery slots on the device using a nongreasy organic solvent.
- Check the glass surface of the eyepiece and lens. If necessary, clear off the dust and sand on the lens (it is perfect to use a non-contact method).
 Use a specialized wiping tool and solvent to clean the optical surfaces.

18 Troubleshooting

The following table lists all problems that are likely to occur during device operation. Check and address problems by referring to this table. If faults not included in this table occur or you cannot fix the fault, return the device to the vendor or supplier for troubleshooting.

Faults	Possible Causes	Solutions
The device cannot start.	The battery is out of charge	Charge the battery
The device cannot be powered by	The USB cable is damaged	Replace the USB cable
an external power supply	The external power supply is insufficient	If necessary, check the external power supply
Images are too dark	The display is not bright enough	Adjust the display brightness
The image quality is poor or the detection range shortens	These problems are likely to occur when you use the de	evice in harsh weather (such as snow, rain, and fog).
	The Wi-Fi password is incorrect	Enter the correct password
The device cannot connect to a smartphone or computer	There are too many Wi-Fi networks in the range of the device, which may cause interference	To enable stable network access, you are advised to move the device to an area with a limited number of Wi-Fi networks, or an area without Wi-Fi coverage
Wi-Fi signals are lost or interrupted.	The device is beyond Wi-Fi coverage. There is blocking (such as concrete walls) between the device and the receiver.	Move the device to a place where you can receive Wi-Fi signals.
When the device is used at a low temperature, the imaging quality is poorer than that at normal temperature.	to different heat conductivity coefficients. As a result, h At low temperatures, the observed targets (background	s with the observed objects (environment and background) due igh-temperature contrast occurs and the image quality is better.) usually cool down to a similar temperature because of reduced etails in particular) is poor, which is a characteristic of thermal

19 Legal and Regulatory Information

Wireless transmitter module frequency range:

WLAN: 2.412-2.472GHz (for EU)

Wireless transmitter module power < 20dBm (only for EU)

We, Inlumen Technologies Co., Ltd.hereby declares that the radio equipment Mate series is in compliance with the Directives 2014/53/EU and 2011/65/EU

FCC Statement

FCC ID: 2BHFB-3C-00

Labeling requirements

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.

Information to the user

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

EMC: Class A

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

To comply with RF exposure requirements, a minimum separation distance of 0.00 cm must be maintained between the user's body and the handset, including the antenna.





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