



Nighthunter H35 User Manual

Thank you for purchasing this product. Please read this Guide first and keep it properly for future reference.

The picture is for reference only, the product shall prevail in kind.

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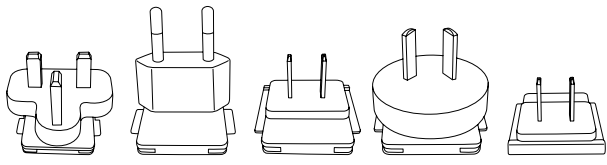
- IMPORTANT -

This Guide is a general guide for a series of products, which means that the specific model you receive may differ from the picture in this Guide. Please refer to the actual product you receive.

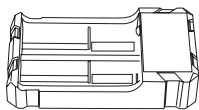
This Guide is organized for users to use and understand our products. We will do our best to ensure the accuracy of the contents of this Guide. However, we still cannot guarantee the completeness of the contents thereof. As our products are subject to continuous upgrading, we reserve the right to modify this Guide from time to time without prior notice.

- LIST OF PARTS -

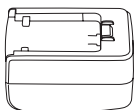
Standard accessories:



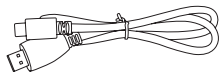
Plug of Chinese, American, British, Australian,
European standard



18650 charger



5V2A adapter



Micro USB cable



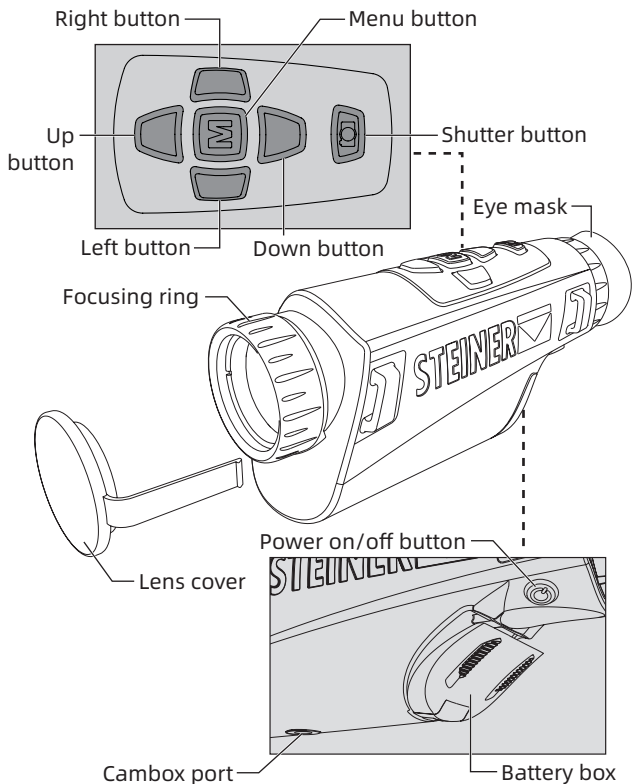
Two-in-one video cable

Options:

- Hand strap - individually changeable for left and right handers
- Better strap attachment
- Higher standard strap
- Changeable objective cover
- Ocular rain cover

- INTRODUCTION TO THE PARTS -

This Guide is applicable to several models of this series, and the illustration is only for one of them.



- QUICKSTART INSTRUCTIONS -

Buttons	Operation	Purpose	Current Device Status	Results
Power on/off button	Short-press	Compensation	Power on	Compensate based on the current compensation option
	Long-press	Power off progress bar	Power on	Display the power off progress bar
	Cancel while long-pressing the power on/off button	Display off	Power on and the power off countdown is displayed	Display off
	Release the Power on/off button when the fifth power off progress bar is completed	Power off	Power on and the fifth progress bar of the power off countdown is completed	Power off
	Long-press	Power on	Power off	Enter the real-time screen after the boot screen appears
	Long-press (2s)	Power on	Power off and battery low	Power off after battery low appears

Buttons	Operation	Purpose	Current Device Status	Results
Menu button	Short-press	Enter the main menu	Power on and the menu is not called out	Display the main menu
	Short-press	Enter the next menu	Power on and there is a next menu	Enter the next menu
	Short-press	Confirm	Power on and in menu state	Confirm the current option and back to the previous menu at the same time
	Long-press	Return to previous menu/Exit menu	Power on and in menu state	Do not save the current settings and return or exit the menu
Up button	Short-press	Zoom in	Power on and the menu is not called out	Zoom in to 1x, 2x, 4x, 8x,
	Long-press	Infinite zoom in	Power on and the menu is not called out	Infinite zoom in until the button is released or to 8x
	Short-press up	Move the menu	Power on and in menu state	Move the menu or option up
	Long-press up	Move the menu	Power on and in menu state	Move the menu or option up and cycle through the display

Buttons	Operation	Purpose	Current Device Status	Results
Left button	Short-press	Switch the pseudo color	Power on and the menu is not called out	Switch the pseudo color mode
	Short-press	Return to previous menu	Power on and in menu state, and there is a previous menu	Do not save the current settings and return to the previous menu, and no response occurs if there is no parent directory
	Long-press	Keep returning to previous menu	Power on and in menu state, and there is a previous menu	Do not save the current settings and return to the previous menu until the real-time screen appears
	Select left	Move the menu	Power on and in menu state	Move the menu or option left

Buttons	Operation	Purpose	Current Device Status	Results
Right button	Short-press	Switch the scene mode	Power on and the menu is not called out	Switch the scene mode
	Short-press	Enter the next menu	Power on and in menu state, and there is a next menu	Enter the next menu, and no response occurs if there is no subdirectory
	Long-press	Keep entering the next menu	Power on and in menu state, and there is a next menu	Enter the next menu and press the Menu button to confirm if a dialog box pops up
	Select right	Move the menu	Power on and in menu state	Move the menu or option right

Buttons	Operation	Purpose	Current Device Status	Results
Down button	Short-press	Zoom out	Power on and the menu is not called out	Zoom out to 8x, 4x, 2x, 1x
	Long-press	Infinite zoom out	Power on and the menu is not called out	Infinite zoom out until the button is released or to 1x
	Select down	Move the menu	Power on and in menu state	Move the menu or option down/right
	Long press down	Move the menu	Power on and in menu state	Move the menu or option down, recyclable display
Shutter button	Short-press	Photo	Power on and the menu is not called out	Take a photo and freeze it for 300ms to restore the real-time screen
	Short-press	Photo	Video recording	Take photos
	Long-press	Video	Power on and the menu is not called out	Start video recording
	Long-press	End video recording	Video recording	End and save the video

[BUTTON DESCRIPTION]

1. Power button

- **Power on**

Long-press the Power button until the boot screen appears in the eyepiece, then the device is turned on successfully.

- **Power off**

Manual power-off: Long-press the Power button to display the shutdown progress bar until the progress bar is completed and the shutdown is successful.

Automatic power-off: If there is no button operation within the set automatic shutdown time, it will power off.

- **Display off**

Long-press the Power button to display the shutdown progress bar. Before the progress bar is completed, release the Power button to cancel the shutdown and enter the Display off mode.

- **Display on**

In Display off mode, press any button to wake up the screen.

- **Compensation**

When it is turned on and before the menu appears, press the Power button briefly to complete the

corresponding compensation action (except automatic compensation).

2. Up button

- **Zoom in**

When it is turned on and before the menu appears, short-press the button to zoom in the image to Normal/2X/4X/8X in turn and long-press to zoom in by 0.5X step by step.

- Move the menu and option

When it is turned on and the menu appears, short-press or long-press the Up button to move the menu or option up.

3. Down button

- **Zoom out**

When it is turned on and before the menu appears, short-press the button to zoom out the image to Normal/8X/4X/2X in turn and long-press to zoom out by 0.5X step by step.

- Move the menu and option

When it is turned on and the menu appears, short-press or long-press the Down button to move the menu or option down.

4. Left button

- **Switch the pseudo color**

Short-press the Left button in the real-time screen to switch the pseudo color in the order of White hot, Black hot, Red hot, Iron red, Flame and Amber in loop mode.

- **Return to previous menu**

When it is turned on and in menu state, and there is a next menu, short-press the Left button, and do not save the current settings and return to the previous menu, and no response occurs if there is no parent directory; long-press the Left button, and do not save the current settings and return to the previous menu until the real-time screen appears.

- **Move the menu and option left**

When it is turned on and in menu state, short-press the Left button to move the menu or option left.

5. Right button

- **Switch the scene mode**

Short-press the Right button in the real-time screen to switch the scene mode in the order of Enhanced , Detect and Standard in loop mode.

- **Enter the next menu**

When it is turned on and in menu state, and there is

a next menu, short-press the Right button to enter the next menu, and no response occurs if there is no subdirectory; long-press the Right button to keep entering the next menu and press the Menu button to confirm if a dialog box pops up.

- **Move the menu and option right**

When it is turned on and in menu state, short-press the Right button to move the menu or option right.

6. Shutter button

- **Photo**

Short-press the Shutter button to save the current screen and freeze it for 300ms to restore the real-time screen. The current watermark UI and steiner logo information is saved and other UI information is not saved.

- **Video**















Long-press the Shutter button to start video recording and long-press the Shutter button again to end video recording. The current watermark UI and steiner logo information is saved and other UI information is not saved. The video file will be automatically split into two files if it is larger than 4GB. Short-press the Shutter button while video recording to take photos.













7. Menu button

When it is turned on and before the menu appears, long-press the Menu button to pop-up the menu.

- **OK and back/exit**

When it is turned on and the menu appears, short-press the Menu button to enter the next menu or confirm the current option, and back to the previous menu at the same time. Long-press the Menu button to return or exit the menu without saving the current setting.

Icon	Function	Icon	Function
	Image quality adjustment		Image enhancement
	Scene mode		PIP
	Pseudo color		Stroke algorithm
	Hotspot tracking		Brightness
	Screen brightness		Contrast
	Compensation mode		Rough ranging
	WiFi		Power settings

Icon	Function	Icon	Function
	Auto sleep		Automatic power off
	Power saving mode		Boot vibration
	Local settings		Watermark
	Time format		Date format
	Time settings		Language settings
	Format the memory		Restore default

- **Scene mode:**

The scene mode can be switched to Enhanced , Detect and Standard.

- **Zoom in/out:**

Display in 1x, 2x, 4x and 8X in loop mode.

- **Color Palettes:**

Colors can be adjusted to White hot, Black hot, Red hot, Iron red, Flame and Amber.

- **Edge Detect:**

Stroke the edge of the observation object when turned on.

- **Compensation mode:**
There are three compensation modes: automatic compensation, scene compensation and shutter compensation.
- **Sharpness Filter:**
Adjust the parameters to change the imaging quality.
- **PIP:**
In PIP mode, the image can be magnified to 2X within 256px×192px and located in the upper left, upper middle and upper right, which can be saved in photos and videos.
- **Hotspot tracking:**
A white cross cursor displays and at this time, and the cursor appears at the point with the largest AD value in the screen to achieve real-time preview.
- **Brightness:**
The detector brightness can be adjusted from level 1 to 10.
- **Screen brightness:**
The screen brightness can be adjusted from level 1 to 10.
- **Contrast:**
The contrast can be adjusted from level 1 to 10.

- **Stadiametric Range:**

The position of the lower horizontal line remains unchanged and the upper horizontal line can be moved. The number of pixels between the two horizontal lines is ≥ 6 . The rough ranging interface will not actively exit, unless the user presses the Menu button or Shutter button.

- **WiFi settings:**

WiFi switch. When the mobile client and the device are connected, real-time videos can be transmitted to the mobile phone, the device can be operated through the APP and the photos/videos of the device can be accessed, and photo/video play, sharing, deletion, etc. can be performed. Each device has independent MAC address.

- **Automatic sleep:**

Automatic sleep time can be set at 5/10/15min. If no operation is made within the set time, a countdown to sleep will appear and the countdown can be canceled by pressing any button. The ARM will enter the low power mode if no operation is made during the countdown. If the WiFi is turned on and connected to the device or video output, the countdown to auto sleep will stop and restart when the device is not

connected to WIFI.

- **Automatic Shutdown:**

Automatic power off time can be set at 15/30/60min. If no operation is made within the set time, a countdown to power off will appear and the countdown can be canceled by pressing any button. The device will be powered off when the countdown is over. If the WIFI is turned on and connected to the device or video output, the countdown to auto power off will stop and restart when the device is not connected to WIFI.

- **Power saving mode:**

When the power saving mode is enabled, the ARM switches to the low power mode; the brightness is fixed at 20%, which cannot be adjusted, and WIFI cannot be turned on. If the current WIFI has been already turned on, the above functions are disabled.

- **Power Vibration:**

The boot vibration can be set on/off. If it is on, the device will vibrate for 1s before the boot screen appears.

- **Watermark settings:**

Options can be made from Date only/Time only/Time and date/Off.

- **Date format:**

The date format can be YYYY-MM-DD/MM-DD-YYYY/
DD-MM-YYYY.

- **Time format:**

The time format can be 12H/24H.

- **Time settings:**

The time adjustment interface will display based on the time format and date format. Leap year needs to be considered for time adjustment. The time range is from January 1, 2016 to December 31, 2037.

- **Language settings:**

Language can be selected in English/German/
French/Italian/Spanish.

- **Memory card formatting:**

Memory card formatting can be selected. Select "Yes" to format the memory card and select "No" to cancel the operation.

- **Restore default:**

Users can choose whether to restore the default value. Select 'Yes' to restore all parameters to factory settings; select 'No' to cancel the operation.

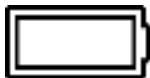
8. Battery status

When the thermographic camera is turned on and the battery capacity changes, the capacity indicator is

displayed in the left lower corner of the screen, and the part of the lit power indicator shows the remaining battery capacity.

After starting up and entering the real-time screen, the icon corresponding to the power levels below will be displayed in the left lower corner of the screen.

The power levels are as follows:



High



Medium high



Medium



Medium low





Low



Extremely low

Notes:

1. Please replace the battery in a timely manner when the battery is low!
2. When a rechargeable battery is used, the duration of full capacity is long, i.e., the time of switching  to  is longer than the time of switching between other capacity levels!

- TROUBLESHOOTING -

1. The device cannot be powered on

Solution: replace the battery or connect the adapter for power supply

2. The device cannot take photos/videos

Solution: the internal storage space of the device is full. It is needed to format the memory card or disconnect the device from the computer

3. The display time of the device is inconsistent with the actual time

Solution: reset the time and date of the device in the menu

4. The screen goes black during use

Solution: short-press any button to wake up sleep and light up the screen

5. The image is blurred

Solution: turn the lens for manual focusing until the image sharpens

- STORAGE AND TRANSPORT -

The following is about the correct storage and transportation methods of the product. In order to prevent danger and property loss, please read this guide carefully before using the device and strictly observe it during use. Please keep this guide properly after reading.

Storage

- The storage environment of packaged products is -30 °C ~ 60 °C, the relative humidity is not more than 95%, without condensation and corrosive gas, and is well ventilated and clean indoor.
- Please charge the thermographic camera once every 3 months.

Transportation

The thermographic camera shall be protected from rain, water, inversion, violent vibration and impact during transportation, and shall be handled with care. Throwing is not allowed.

- FCC WARNING -

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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.
- The rating information is located at the bottom of the unit.

- PRECAUTIONS -



DANGER

- 1) Please charge the battery with the method described in this Guide and follow the charging procedure and precautions. Improper battery charging will cause heating, damage and even physical injury;
- 2) Do not try to open or disassemble the battery at any time. In the event the battery leaks and the spill enter the human eye, wash the eyes with clean water immediately and take medical care.



WARNING

- 1) When using the device, please try to keep it stable and avoid violent shaking;
- 2) Do not use or store the device in an environment that exceeds the allowable operating temperature or storage temperature of the device;
- 3) Do not directly aim the device at high-intensity thermal radiation sources, such as the sun, lasers, spot welding machines, etc.;
- 4) Do not block the holes on the device;
- 5) Do not knock, throw or vibrate instruments and

accessories to avoid damage;

- 6) Do not disassemble the machine by yourself, which may cause device damage and loss of warranty rights;
- 7) Do not use soluble or similar liquids on device and cables, which may cause damage to the device;
- 8) Please do not use the device in an environment that exceeds the operating temperature of the device, which may cause damage to the device;
- 9) Please observe the following requirements when wiping this device:
 - Non-optical surface: use a clean soft cloth to wipe the non-optical surface of the thermographic camera when necessary;
 - Optical surface: when using the thermographic camera, please avoid polluting the optical surface of the lens, especially avoid touching the lens with your hands, because the sweat on your hands will leave traces on the lens glass and may corrode the optical coating on the glass surface. When the surface of the optical lens is polluted, use special lens paper to wipe it carefully;
- 10) Do not place the battery in a high temperature or

- near a high-temperature object;
- 11) Do not short circuit the positive and negative poles of the battery;
 - 12) Do not expose the battery to moisture or water.



NOTICE

- 1) Do not expose the device to dust or moisture. Avoid water splashing to the device when using it in an environment with water. Cover the lens when not using the camera;
- 2) Please put the device and all accessories in the special packaging box when not using it;
- 3) Avoid using SD cards for other purposes;
- 4) Using the eyepiece for a long time will reduce the contrast of the eyepiece, and the picture will turn white. You can switch to LCD display, and then to eyepiece display after a period of time.

Special statement: the version of the Guide will be updated after the technical improvement of the product.