

AKASO

FULL COLOR

2nd-Gen AI Night Vision Device

Sight-300



USER MANUAL

V1.0

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Important Messages

Congratulations on your new AKASO Night Vision Device! We're sure you're excited to start using it, but please take a few moments to read this manual first. Doing so will help you get the most out of its features and ensure safe operation.

1. This device is a precision instrument. Safeguard it from drops or impacts to prevent damage.
2. Store the product away from devices or objects with strong magnetic fields or power, like motors and magnets.
3. Store the device away from sharp objects and moisture-prone areas.
4. Ensure the device operates within its recommended temperature range. Avoid leaving it at high or low temperatures for extended periods, as this can reduce its lifespan.
5. DO NOT charge the device for long periods of time. While charging, keep the device away from kids and pets to prevent accidents.
6. Cease using this product if it emits smoke, odors, changes color, distorts, or shows any other anomalies.
7. DO NOT attempt to dismantle, repair, or modify this product on your own.
8. Always ensure that the card slot or charging port remains free from dust or smudges to prevent any abnormalities, such as poor connections.
9. Use only the provided USB cable. Avoid damaging or altering the USB cable, and refrain from subjecting it to heat, forceful pulling, or bending, as it may pose fire hazards or electrical shocks.



Micro SD Card Use

To capture photos and videos, you'll need a memory card (sold separately). We recommend branded memory cards that meet the following criteria:

1. Minimum requirement: C10 (Class 10)
2. Recommended: UHS-I U3 for better recording stability
3. Capacity up to 512GB

Tips:

1. Format the memory card in the device before using it to ensure compatibility.
2. Memory cards larger than the specified maximum capacity can cause issues like non-recognition or even device malfunctions like unresponsiveness or firmware failure.

Note:

1. Don't use the card near strong currents or magnetic fields.
2. Don't let the card touch metal objects, or use any metal tools on it in case it's squeezed, bent, or falls.
3. Store the card in dry places away from corrosive substances.
4. Insert the card into the card slot in the right orientation.
5. Ensure that no foreign items are inserted into the card slot.
6. Turn off the device before inserting or removing the card.



1. Specifications

Product Name	Sight-300
Dimensions	14 × 7.2 × 6.6 cm
Weight	280 g (including battery)
Zoom Levels	1×, 2×, 4×, 8×
WLAN	2.4GHz Wifi
Video & Encoding Format	MP4, H.265
Color Mode	Full-Color AI Mode & IR Black-and-White Mode
Sensor	1/1.79" CMOS
Lens	F1.0
Display	1.45" OLED (454 × 454)
Number of Microphone	1
Battery Capacity	3250 mAh
Runtime	4 hours (Note: Battery life is approximate and may vary depending on usage and environmental conditions.)
Operating Temperature	-20 °C ~ 55 °C
USB Port	USB Type-C
Memory Card Support	Micro SD (up to 512GB)
WDR	Supported



2. What's in the Box



Sight-300
× 1



Battery
× 1



USB-C Cable
× 1



Shoulder Strap
× 1



Carrying Case
× 1



Mounting Screw
× 2



Dovetail Adapter
× 1



Mounting Rail
× 1



Tripod Adapter Clip
× 1



Wrist Strap
× 1



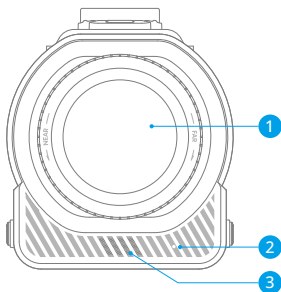
Lens Cloth
× 1



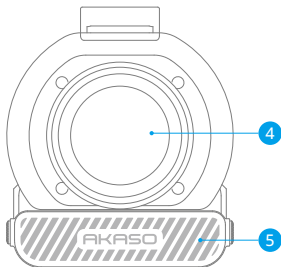
Quick Start Guide
× 1



3. Your Sight-300 Night Vision Device

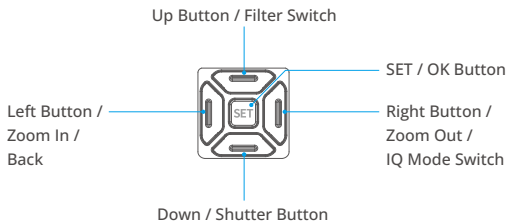
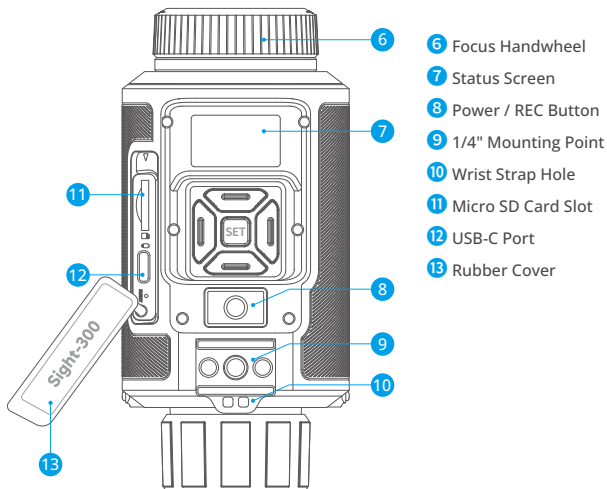


- 1 Lens
- 2 Microphone
- 3 Speaker



- 4 Display
- 5 Battery Cover





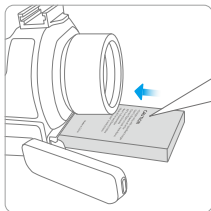
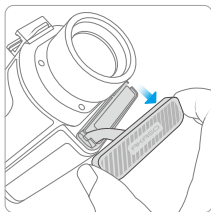
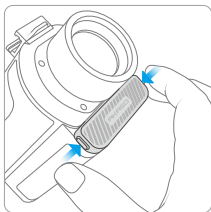
4. First Use

(1) Installing the Battery

- ① Press the buttons on both sides of the battery cover with two fingers, then pull it straight backward to open.
- ② Insert the battery into the compartment with the side marked "CAUTION" facing upward.
- ③ Reattach the battery cover and press it with both thumbs until you hear a "click."

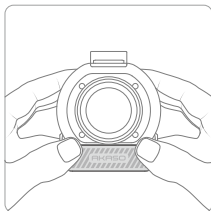
Note:

- Make sure the cover is fully closed to prevent the battery from slipping out.
- To remove the battery, pull the battery removal tab.



CAUTION

- Charger only with specified charger
- Don't dispose of in fire
- Do Not Open, Crush, or Heat
- 60°C or Incinerate
- Don't disassemble

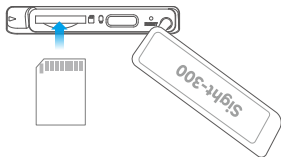


(2) Inserting your Micro SD Card

First pull down the rubber cover, then insert the memory card with the contacts facing up.

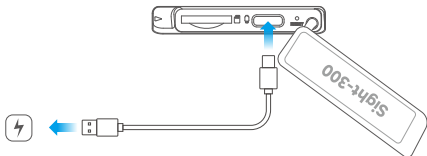
To remove the card, press it gently into the slot with your fingernail, and it will pop out.

Note: Only insert or remove the card when your device is off.



(3) Charging the Device

Fully charge the device before using it for the first time. Pull down the rubber cover and connect the device to a USB adapter or computer using the USB-C cable. Once fully charged, disconnect the cable and close the cover.

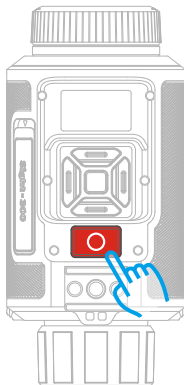


Tips:

- The device will automatically power on while charging.
- You also can charge the battery separately to swap in a fully charged one for continuous recording. Additional batteries and battery charger are available separately if needed.

(4) Powering On and Off

Press and hold the Power button for 2 seconds to turn the device on or off.



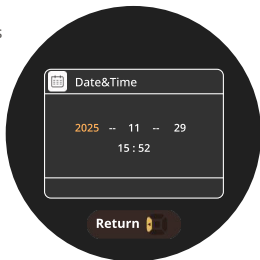
(5) Setting Date and Time

Make sure the system time is set correctly before recording, so your videos and photos have the correct date and time.

Step 1: On the preview screen, press the SET button to open the settings menu.

Step 2: Press the Down button repeatedly to scroll and highlight "Date & Time".

Step 3: Press the SET button to enter the Date & Time settings.



Step 4: Use the Up or Down button to adjust each value, and press the SET button to save and move to the next option.

Step 5: Repeat Step 4 until all values are set. The device will then return to the menu screen.


Note: Pressing the Left button will exit without saving the date.

(6) Formatting your Micro SD Card

Format your memory card to ensure it works correctly with your device before using. Follow these steps:

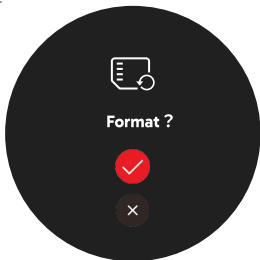
Step 1: On the preview screen, press the SET button to open the settings menu.

Step 2: Press the Down button repeatedly to scroll and highlight "Format".

Step 3: Press the Up button to select the  icon.

Step 4: Press the SET button again to confirm.

Step 5: The formatting process will start. Once complete, your card is ready to use.



Tip: In the menu, you can also enable "Overwrite When Full" to automatically replace the oldest files when the memory card becomes full.

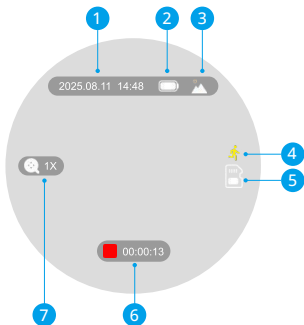
5. Getting Started



(1) Screen Overview

The preview screen shows what the device sees in real time, and the status screen displays device information.

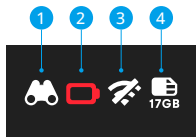
Tip: To turn the status screen on or off, go to **Menu > Status Screen**, and press the SET button to confirm.

A. Preview Screen



- 1 Date & Time
- 2 Battery Level
- 3 Shooting Status
- 4 Image Quality Mode (IQ mode)
 -  Motion Mode
 -  Observation Mode
- 5 Micro SD Card Status
- 6 Recording Status
- 7 Zoom Level

B. Status Screen



- 1 Image Quality Mode (IQ mode)
- 2 Battery Level
- 3 Wifi Status
- 4 Micro SD Card Status



(2) Using the Buttons

Using different buttons allows you to perform various operations.



Power / REC Button

Preview Screen: Press and hold (2s) to power on / off; press to start/stop video recording.



Up Button

Preview Screen: Press and hold (2s) to switch Full-Color / Black-and-White mode.

Menu / Playback Screen: Press to scroll up.



Down/ Shutter Button

Preview Screen: Press to take a photo.

Menu / Playback Screen: Press to scroll down.



Left Button

Preview Screen: Press to zoom in.

Menu / Playback Screen: Press to go back.



Right Button

Preview Screen: Press and hold to switch Motion / Observation mode; press to zoom out.

Menu / Playback Screen: Press to move right



SET / OK Button

Preview Screen: Press to open menu.

Menu / Playback Screen: Press to enter sub-menu, switch selection, or confirm.

Video Album: Press to play or pause a video.

(3) Selecting Filter

The Sight-300 offers both Full-Color and Black-and-White modes, allowing you to switch between clear true-to-life color images or sharp monochrome visuals for optimal visibility.


Full-Color Mode: Restores up to 99% of colors for clear, accurate video in low-light or dark environments.


Black-and-White Mode: Captures sharp images in very low light. Optional IR fill light can further enhance visibility in complete darkness.



(4) Selecting IQ Mode

You can choose the image quality mode that best suits your shooting scenario.

Motion Mode : Optimized for handheld or moving-subject use in low-light and nighttime environments. Minimizes motion blur and improves clarity when tracking moving objects.

Observation Mode : Optimized for long, stable viewing in dark conditions. Enhances detail and reduces noise when mounted on a tripod, helmet, or stable surface, providing a clear and comfortable viewing experience.

(5) Adjusting the Focal Length / Zoom

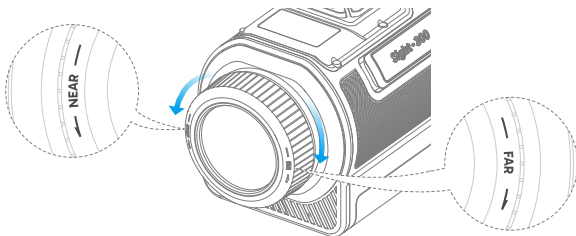
Adjust the focal length using Digital Zoom and the Manual Focus handwheel for optimal clarity. A longer focal length zooms in on distant subjects but narrows the field of view, while a shorter focal length provides a wider view.

Digital Zoom: On the preview screen, press Left/Right to zoom in or out. Supports up to 8× digital zoom.

Manual Focus: After digital adjustment, rotate the focus handwheel to fine-tune clarity. The handwheel is marked NEAR and FAR.

Tips:

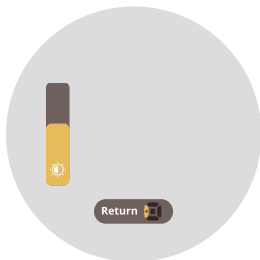
- After use, reset digital zoom to 1× and return the focus handwheel to the minimum (NEAR) position.
- Focal length adjustments are available in both Full-Color and Black-and-White modes.



(6) Adjusting Screen Brightness

Adjust the screen brightness as needed for clearer viewing in low-light conditions.

- ① Select "Screen Brightness" in the menu and press SET.
- ② Use the Up/Down buttons to adjust the brightness,
- ③ Press Left to save and return to the previous menu.



6. Setting Up Your Sight-300

This menu allows you to customize shooting, display, system, and connectivity settings for the Sight-300.

Navigate the menu using the Up/Down buttons and press SET to confirm a selection.

(1) Configuring Image Settings

1. Resolution

2K60 (default)/ 4K30

Choose the video resolution before recording.

4K30 (3840 x 2160) – Higher detail; ideal for static nighttime scenes (e.g., stationary observation).

2K60 (2560 x 1440) – Higher frame rate; ideal for capturing fast-moving subjects at night (e.g., tracking wildlife).

Note: Changing resolution will restart the device.

2. Recording Duration

1 min/ 3 min (default)/ 5 min

Sets the maximum length for each video clip. Recording stops automatically when the selected duration is reached.

3. Time Lapse Video

Off (default) / 60 frames/h / 1 frames/h

Captures frames at fixed intervals and compiles them into a short video. Ideal for long-term nighttime monitoring while saving storage.

Examples:

- Wildlife monitoring: Place the device near a waterhole to record nocturnal



animal visits over several hours, showing subtle night movements such as a fox's approach.

- **Surveillance:** Mount the device in remote areas to monitor slow changes in low-light environments during nighttime (e.g., foggy landscapes, livestock activity).

4. Filter

Full Color (default)/ Black and White

Switch between color and monochrome imaging modes.

Tip: Use IR fill light (sold separately) in Black-and-White mode for clearer detail in complete darkness.

5. Image Quality Mode (IQ Mode)

Motion (default)/ Observation

Motion Mode reduces motion blur and enhances clarity for handheld use or when capturing/observing moving subjects, while Observation Mode improves detail and reduces noise during long, fixed-point observation in low-light environments.

6. Audio Recording

On (default)/ Off

Turns audio capture on or off during video recording.

7. Crosshair

Off (default)/ On

Displays a crosshair in the preview screen for easier subject alignment.

8. Date Stamp

No (default)/ Yes

Shows when your video or photo was taken by adding a visible timestamp (e.g., 2025-12-01 20:30:45).

(2) Configuring General Settings

1. Screen Brightness

Adjust the screen's brightness according to the light condition.

2. Wifi Info

- Wifi Info

View the Wifi name and password used to connect the app.

- Wifi Status: Off (default)/ On

Turning Wifi on allows the Sight-300 to connect to the AKASO NVG App for remote preview, control, and file transfer.

3. Key Volume

Off (default)/ On

Enables or disables the device's key-press sound.

4. Overwrite When Full

Yes (default) / No

Yes: Automatically overwrites the oldest files when the memory card is full.

No: Stops recording videos and saving photos when the memory card is full.

5. Date & Time

Manually set the system date and time according to your time zone.

Tip: Set the correct time before shooting to ensure accurate timestamps.

6. Language

English (default)/ Español/ Français/ Italiano/ Deutsch/ 日本語/ 简体中文 /繁体中文

Select the on-screen display language.

7. Auto Shutdown

Off (default)/ 5 min/ 15 min/ 30 min

Automatically powers off the device after a period of inactivity to conserve battery.

8. Status Screen

On (default)/ Off

Turns the status screen on or off.

(3) Configuring System Settings

1. Upgarde

Used for updating the firmware via the memory card. Follow official AKASO firmware upgrade instructions.

2. Format

Format the memory card.

Note: All data will be permanently erased. Back up important files before formatting.

3. Reset

Restores all settings to factory defaults.

Note: Restart the device after performing a reset.

4. About

Displays the device's firmware information.

7. Album


The Album lets you view all the photos and videos stored on the memory card.

(1) Accessing the Album


When on the preview screen, press the SET button to open the menu. Select Album, then press SET to enter.



(2) Viewing Photos

- ① In MENU > Album, select the Photo icon  and press SET to open the Photo Album.
- ② Press SET again to view the highlighted photo.
- ③ Use the Up/Down buttons to scroll through photos.

(3) Playing Videos

- ① In MENU > Album, select the Video icon  and press SET to open the Video Album.
- ② Press SET again to play the highlighted video.





- ③ When the video is not playing, use the Up/Down buttons to scroll through videos.
- ④ During playback, press SET to play or pause.

Tips:

- Press Left to return to the Photo or Video Album .
- Files are named by shooting date, allowing you to easily find photos and videos captured on a specific day.

(4) Deleting Files

- ① While viewing a photo or video, press Right to highlight the Delete icon , then press SET.
- ② When prompted, press Up to select , then press SET to confirm deletion of the current file.



8. Using the AKSAO NVG App

The AKASO NVG app works with the Sight-300 night vision device to enhance your user experience. Once connected via the built-in Wifi, you can preview and download videos or photos, view real-time status, and remotely control your Sight-300 from your phone.

(1) Downloading the App

Download the AKASO NVG app from the App Store (iOS) or Google Play (Android) by searching for "AKASO NVG".



AKASO NVG

(2) Connecting to the App via Wifi

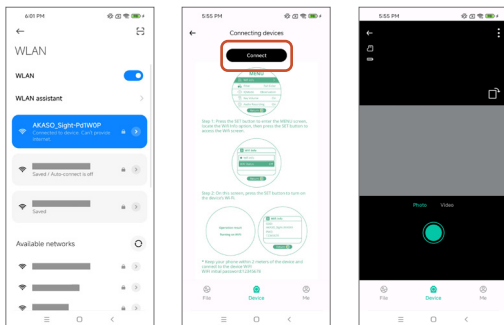
- ① When on the preview screen, press the SET button to open the menu. Press the Down button to go to "Wifi Info" > "Wifi Status", then press the SET button to turn Wifi on.



- ② Go to "Wifi Info" to view the SSID and password.
- ③ On your phone, go to Wifi Settings, select the device SSID, and enter the default password: 12345678.



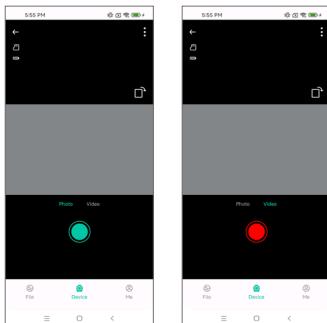
- ④ Open the AKASO NVG app, then tap Connect. Your Sight-300 is now linked to the app.




Note: Make sure your phone is connected to the device's Wifi hotspot before tapping Connect in the app.

(3) Capturing with the App

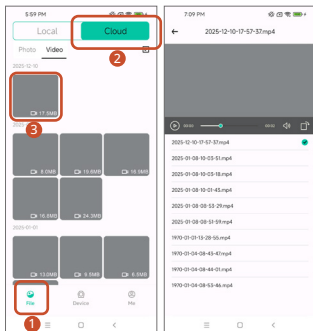
- On the preview screen, tap "Video" or "Photo" to switch modes.
- Tap the Shutter to start recording or capture a photo.
- In Video mode, tap the Shutter again to stop recording.





(4) Playing Back Files in the App

- ① Tap the File icon , then tap "Cloud" to view all photos and videos.
- ② Tap a file to play it in full screen.

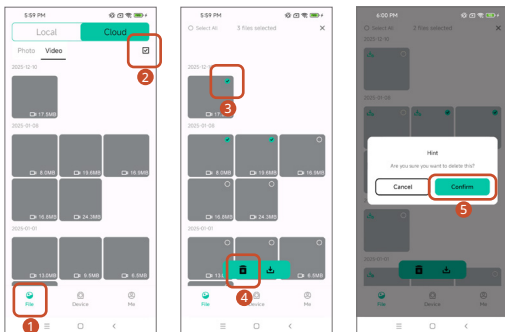
Note: Do not change Wifi settings or leave the app while deleting files.




(5) Deleting Files in the App

- ① In the File > Cloud screen, tap and hold a file or use the Select icon  to choose multiple items. Tap X to exit selection mode.
- ② Tap the Delete icon  and confirm.

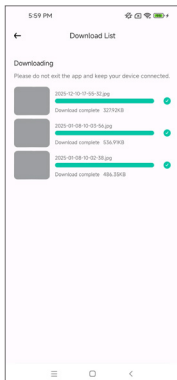
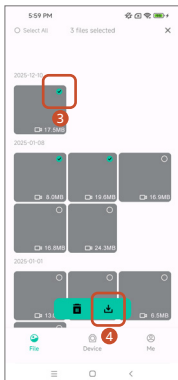
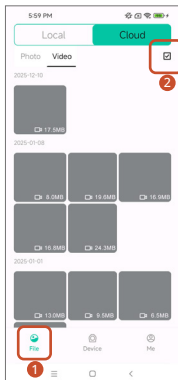
Note: Do not change Wifi settings or leave the app while deleting files.



(6) Downloading Files to Your Phone

- ① In the File > Cloud screen, tap and hold a file or use the Select icon ☒ to choose multiple items. Tap **X** to exit selection mode.
- ② Tap the Download icon . Files will be saved to your phone's gallery or the app's Local screen.

Note: Do not change Wifi settings or leave the app while downloading files.



9. Transferring Files to a Computer

Using a Card Reader

- ① Turn off the device and remove the Micro SD card carefully.
- ② Insert the Micro SD card into a card reader and plug it to your computer.
- ③ Copy files to your computer for playback or editing.



10. Battery Maintenance

(1) Maximizing Battery Life

1. Before using the device for the first time, fully charge the battery and secure it in its slot.
2. To extend battery life during use:
 - Turn off the device when not in use.
 - Turn off Wifi when not needed.
 - Reduce screen brightness when possible.
 - Enable the Auto Shutdown feature.
3. Fully charge the battery before storing it for a short period.
4. For optimal performance, replace the battery once a year.
5. To prevent damage, use only AKASO-approved batteries, charging cables, and chargers.

(2) Battery Storage and Handling

1. For long-term storage, keep the battery at 50–60% charge. Recharge every 3 months and fully discharge every 6 month
2. Do not store the battery with metal objects such as coins, keys, or necklaces. If the battery terminals come close to metal objects, a short circuit may cause fire.
3. Store in dry areas, safe from potential physical damage caused by squeezing or collision.
4. Avoid using or storing the battery at high temperatures, such as in direct sunlight or a hot compartment. The battery will heat up, malfunction, or have its service life shortened in these conditions.
5. Avoid using or storing the battery in low-temperature environments, as this will shorten the battery life or cause it to malfunction.



6. Avoid environments with strong static or magnetic fields; these can compromise the battery's protective unit, posing safety risks.
7. If the battery emits an odor, overheats, changes color, gets distorted, or exhibits any anomalies, discontinue use and remove it immediately from the device or the battery charger whether it is being used, charged, or stored.
8. Safely insulate used electrodes to prevent potential hazards.
9. Never discard batteries in fire to prevent the risk of explosion.

11. Using with Accessories

You can carry the device using the wrist strap, or mount it to compatible accessories using adapters. This allows you to observe your targets more stably and comfortably, giving you greater flexibility.

(1) Wrist Strap

Thread the strap through the small hole on the device, pull the red cord to tighten, and adjust the buckle to secure it firmly on your wrist.



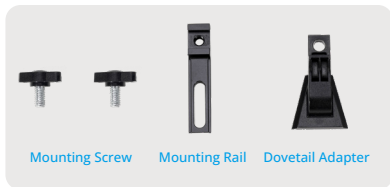
(2) Tripod Mount

Attach the tripod adapter clip to your tripod. Loosen the bolt, position the device on the adapter, then tighten the bolt until it is securely fixed.



(3) Helmet Mount

Insert the mounting rail into the guide rail on the Sight-300 and secure it with screws. Attach the Dovetail Adapter (G24-compatible) to the other side, then fasten it into the triangular slot of the G24 helmet mount (sold separately).



12. FAQ

Q: How is this different from traditional night vision?

A: Traditional devices use image intensifier tubes, which produce grainy green images, whereas the Sight-300 employs digital sensors and AI processing to deliver nearly 99% accurate full-color vision.

Q: Does it work in complete darkness?

A: Yes. The Sight-300 performs exceptionally well in low-light conditions, down to 0.001 lux.

Q: How long does the battery really last?

A: Each 3250 mAh battery provides 4–5 hours of continuous use. The removable design allows you to swap batteries instantly, and you can also connect a power bank while using the device.

Q: How does it perform outdoors?

A: It is IP65 rated for dust and water resistance, providing reliable protection against dust and rain.

Q: Can I mount it on my helmet?

A: Yes. It includes standard mounting parts compatible with any helmet using a G24-style mount.

Q: Does it have internal storage?

A: No. The device supports Micro SD cards up to 512GB.

Q: What is the zoom capability?

A: It offers up to 8x digital zoom with minimal distortion.



Q: Does it control remotely?

A: Yes. Once the device is connected to the app, you can use the app to preview, capture, and share content wirelessly within a 10-meter range.

Q: What is the difference between the Seemor-200 and Sight-300?

A: The Seemor-200 is a binocular-style night vision device, designed for long-range, high-clarity, focused observation. This Sight-300 is a monocular, optimized for head-mounted, wide-angle, close-to-mid-range use, especially in mobile or tactical scenarios.

13. Contact Us

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For any inquiries about AKASO products, please feel free to contact us. We will respond within 24 hours.

