Tail Auto-Director AI Camera

Getting Started

V0.1 2018.10.17

Product Overview

What Is Tail Auto-Director AI Camera

Tail Auto-Director AI Camera is a first-generation consumer-grade smart camera researched and developed by Remo. Fusing AI and motion control technologies with professional-grade imaging, Tail Auto-Director Ai Camera can take charge of video and photo shooting, giving content creators powerful functions and an all-new camera experience.

Tail Auto-Director AI Camera is equipped with an AI processor that provides powerful computing performance. Through its many AI algorithms, Tail Auto-Director AI Camera can perform smart tracking, smart composition for single or multiple targets, auto zoom, auto movement, and many other specialized photography and videography operations in various complex environments.Tail Auto-Director AI Camera comes with a high-precision 3-axis gimbal stabilizer that provides unobstructed 360° panning. The camera is equipped with a professional-grade wide-angle zoom lens, composed of 10 ultra-clear optical lenses. The lens provides 3.5x optical zoom and can ensure stable 4K 60FPS Ultra HD videos and 12MP photos. The camera allows for shooting under portrait or landscape mode at aspect ratios of 16:9, 4:3, and 1:1. It can also be used for time-lapse videos, slow-motion videos, panoramic photos, and other creative applications.

Tail Auto-Director AI Camera provides a wide range of accessories to suit the needs of any photographer on any shoot. Using the built-in Wi-Fi, you can connect to the OBSBOT Studio App and display HD images on your mobile device in real time. Through the app or gesture control function, you can control the camera shots with ease. Then, with the professional-grade post processing features and Auto Picture, you can polish your creations and quickly share them on social media in just a few simple steps.

Components

1. Battery Indicator
2. Camera Indicator
3. Lens
4. Cooling Intake
5. Magnetic Charging Port
6. Power/Status Button
7. USB-C Data Port
8. Cooling Outlet
9. Microphone Jack
10. Micro SD Slot
11. M3 Nut Connection
12. Electrical Contact Interface

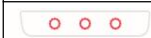
Indicator Statuses

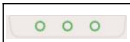
Battery Indicator

Type	Capacity	LED1	LED2	LED3	LED4
Battery Detection Upon Pressing the Power Button	0%-10%	☼	○	○	○
	11%-25%	●	○	○	○
	26%-30%	●	☼	○	○
	31%-45%	●	●	○	○
	46%-60%	●	●	☼	○
	61%-75%	●	●	●	○
	76%-95%	●	●	●	☼
	96%-100%	●	●	●	●
Discharging	0%-10%	☼	○	○	○
	11%-25%	●	○	○	○
	26%-45%	●	●	○	○
	46%-75%	●	●	●	○
	76%-100%	●	●	●	●
Charging	0%-25%	☼	○	○	○
	26%-45%	●	☼	○	○
	46%-75%	●	●	☼	○
	76%-95%	●	●	●	☼
	96%-100%	●	●	●	●
Notes	Flashing blue: ☼ Steady blue: ● Off: ○				

Camera Indicator

The camera indicator has five statuses: Red indicates warning, yellow indicates notification, green indicates normal standby or shooting, blue indicates gesture interaction or device system initialisation, and alternating green and yellow indicates calibration or upgrade.

Camera Indicator Status	Description
	All 3 bars continuously flashing red indicates a warning, such as SD card exception
	3 bars on steady red indicate an exception alarm, such as device fault and upgrade failed
	All 3 bars continuously flashing yellow indicates a notification, such as time-lapse function execution
	All 3 bars on steady yellow indicates a notification, such as lens still locked
	The middle bar on steady yellow indicates a notification, such as target lost
	The middle bar on steady green indicates there is no target and the camera is in standby status
	All 3 bars on steady green indicates there is a target and the camera is in standby status
	1 green flash of all 3 bars indicates a photo was taken
	All 3 bars continuously flashing green indicates there is a target and the camera is in normal shooting status

	3 green flashes of all 3 bars indicates shooting under Burst mode
	Repeatedly Blue flashes of all three bars from 1 to 3 indicates device system initialization
	Blue flashes of 1, 1&2, and then 1&2&3 bars and then 1 blue flash of all 3 bars indicates a successfully performed gesture
	Continuous flashes of alternating green and yellow on all 3 bars indicate that an upgrade or gimbal calibration is in progress

Obsbot Studio App

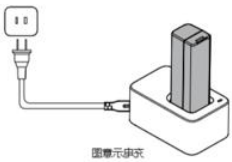
Download & Installation

If you use iOS, go to the App Store and search for " Obsbot Studio App" to download and install it.

If you use Android, you can download and install the app from the OBSBOT products page on the www.remo-ai.com website.

How to Use Tail Auto-Director AI Camera

Charging Instructions

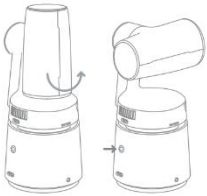


Use the magnetic charging cable to connect the camera to an adapter or power bank, and ensure a good connection. Refer to the Battery Indicator section for more information about charging statuses.

The camera will be fully charged after about 90 minutes (when using the included adapter) and the indicator will turn steady blue.

Startup & Shutdown

Before turning on the camera, gently rotate the lens clockwise to unlock it.



Press and hold the power button for 3 seconds to turn the camera on or off.

Connecting to the App

1. When you turn on the Tail Auto-Director AI camera, the device will run a self-check, while the camera indicator slowly flashes yellow. After the self-check is completed, the camera indicator will turn to steady green.

2. Enable the Wi-Fi function on your mobile device and run the OBSBOT Studio App. Select the OBSBOT-XXX network and enter the default password "12345678" to connect.

3. After connecting to your mobile device, go to the shooting interface shown below.

Gesture Control

Tail Auto-Director AI Camera provides a simple and easy-to-use gesture control function, allowing you to conveniently command the camera to shoot photos or videos. Go to the Settings tab on the app homepage to enable or disable the gestures function. Tail Auto-Director AI Camera can recognize gestures made near your face and the camera indicator light will turn blue. Blue flashes of 1, 1&2, and then 1&2&3 bars and then 1 blue flash of all 3 bars indicates a successfully performed gesture

- Start/Stop: tells the camera to start or stop shooting.
- Select Target/Cancel Target: tells the camera to use you as the target or stop using you as the target.

Target Selection

Tail Auto-Director AI Camera allows you to select a target to shoot in three ways:

- Gestures: After turning on the camera normally, make the "Target Selection Gesture " to quickly select or cancel the target for shooting.
- App Selection: On the app's shooting interface, tap the Select Target button to cancel the camera's current target and enter the Target Selection mode. A pop-up window will appear with three target selection buttons: "Quick", "Multi-Person", and "Owner". Tap an object on the screen to select it as the target or cancel a

previously selected target. You can select one or two objects as targets. After selecting the desired target, tap the Confirm Target button to complete target selection.

- Quick Mode: Tap the "Quick" button to have the camera select the object of the largest relative size in its current field of view as the target and automatically leave the target selection mode. If there are no selectable objects in the current field of view, the camera will automatically switch from target selection mode to multi-person shooting mode.
- Multi-Persor Mode: Tap the "Multi-Person" button to switch from target selection mode to multi-person shooting mode.
- Owner Mode: Tap the "Owner" button to have the camera select the preset owner as the target and automatically leave the target selection mode. If the owner is not in the current field of view, the camera will select the object of the largest relative size in its current field of view as the target and automatically leave the target selection mode.

⚠ 1. After you select a target, the camera lens will begin to track it.
2. When on target, all three bars of the indicator will light up. When not on target, only one bar will light up.
3. After switching between portrait and landscape mode, you must reselect the target.

Shooting Modes

Tail Auto-Director AI Camera provides multiple shooting modes, including photo, panorama, video, slow motion, and time lapse. Select the desired shooting mode by sliding left and right on the shooting mode bar or simply tapping a shooting mode. In the shooting interface, swipe right to display the settings menu, which provides various functions, and swipe left to display the advanced settings menu.

Specifications and Parameters

Complete Device	
Dimensions	In use: 167.2*86.7*85.5mm Off: 185.7*86.7*85.5mm
Weight (incl. battery)	580g
Power consumption (incl. camera)	8W
Gimbal	
Angle jitter	±0.02°
Gimbal installation	Non-removable
Controllable range of rotation	Pan: Unrestricted; Tilt: -50° to +50°; Roll: -45° to +135°
Structurally possible range	Pan: Unrestricted; Tilt: -90° to +90°; Roll: -135° to +135°
Max control speed	180°/s
Camera	
Model	Tail Auto-Director AI Camera
Image sensor	1/2.3" CMOS SENSOR; effective pixels: 12.40MP
Lens	3.5x optical zoom lens, equivalent focal length 24-84mm, 3.85-13.4mm F2.4 (wide angle) - F5.0 (telephoto), FOV 92° (wide angle) -32° (telephoto)
ISO range	100-3200 (video); 100-1600 (photo)
Electronic shutter speed	1/8000-1/30 (future support for long exposure)
Max photo resolution	4000x3000
Photo shooting modes	Single shot Burst: 10, 5, 3, 2, 1 Continuous shooting Panorama Smart capture
Video resolution	4K: 30/60 fps 2.7K: 30/60 fps 1080p: 30/60 fps
Slow motion	1080p: 240fps
Recording modes	Normal video, slow motion, time lapse, and smart shooting
Max video storage bit rate	80Mbps
File system	FAT32

Image format	JPEG, DNG (RAW)
Video format	MP4
Supported memory cards	Micro SD, Class 10 and above, or UHS-1 card; up to 128 GB
Operating temperature	0°-40°
Audio input	Analog MIC
Wi-Fi	
Operating frequency	2.4G / 5.8GHZ /5.2GHz
Signal transmission range	2.4G: 50m (awaiting testing) 5.8G: 100m (awaiting testing) 5.2G:100m(awaiting testing)
Battery	
Model	OBS-LI-TWS-001
Type	LiPo
Capacity	1850mAh
Energy	20.54Wh
Voltage	11.1V
Charging temperature	0°-40°
Use temperature	0°-40°

To learn more about this product, please download the Tail Auto-Director AI Camera *User Manual*

http://remo-ai.com/

This content is subject to change without prior notice.

Warning words

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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 and can radiate radio frequency energy, 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.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

FCC ID:2ASMC-OBS-TAIL-01