Manuals+ — User Manuals Simplified.

scaled Electronics For the AI Dash Camera User Manual

Contents

scaled Electronics For the AI Dash Camera

Product Usage Instructions

Usage Caution

Warning

1. The dangerous driving alerts issued by the active safety AI device are only voice alerts, which cannot replace the driver's driving decision and operation.
2. The dangerous driving alerts issued by the active safety AI device are developed based on computer vision and deep learning technology, which cannot guarantee 100% recognition accuracy. For example, under different road conditions and weather conditions, the accuracy rate of obstacle recognition is different.
3. This device is intended to enhance the situational awareness when used properly. If used improperly, you could become distracted by the display, which could lead to an accident causing serious personal injury or death. DO NOT seek to access the information stored on the device or change the device settings whilst driving. The device should only be operated when your vehicle is stationary, and you are parked in a safe place in compliance with local laws. Always maintain awareness of your surroundings and do not stare at the display or become distracted by the display. Focusing on the display could cause you to miss obstacles or hazards. Use the device at your own risk.
4. When installing the device in a vehicle, do not place the device where it obstructs the driver's view of the road or interferes with vehicle operating controls, such as the steering wheel, foot pedals, or transmission levers. Do not place unsecured on the vehicle dashboard. Do not place the device in front of or above any airbag.
5. Video playback upon devices with display which are visible to the driver, is prohibited or restricted in some countries or States. Please adhere to these laws.

Maintenance Precautions

1. Please keep the device dry. Do not let the device and cable stay in humid environment, or operate the device with wet hands, so as to avoid short-circuiting of the device, failures caused by corrosion, and electric shocks to personnel.
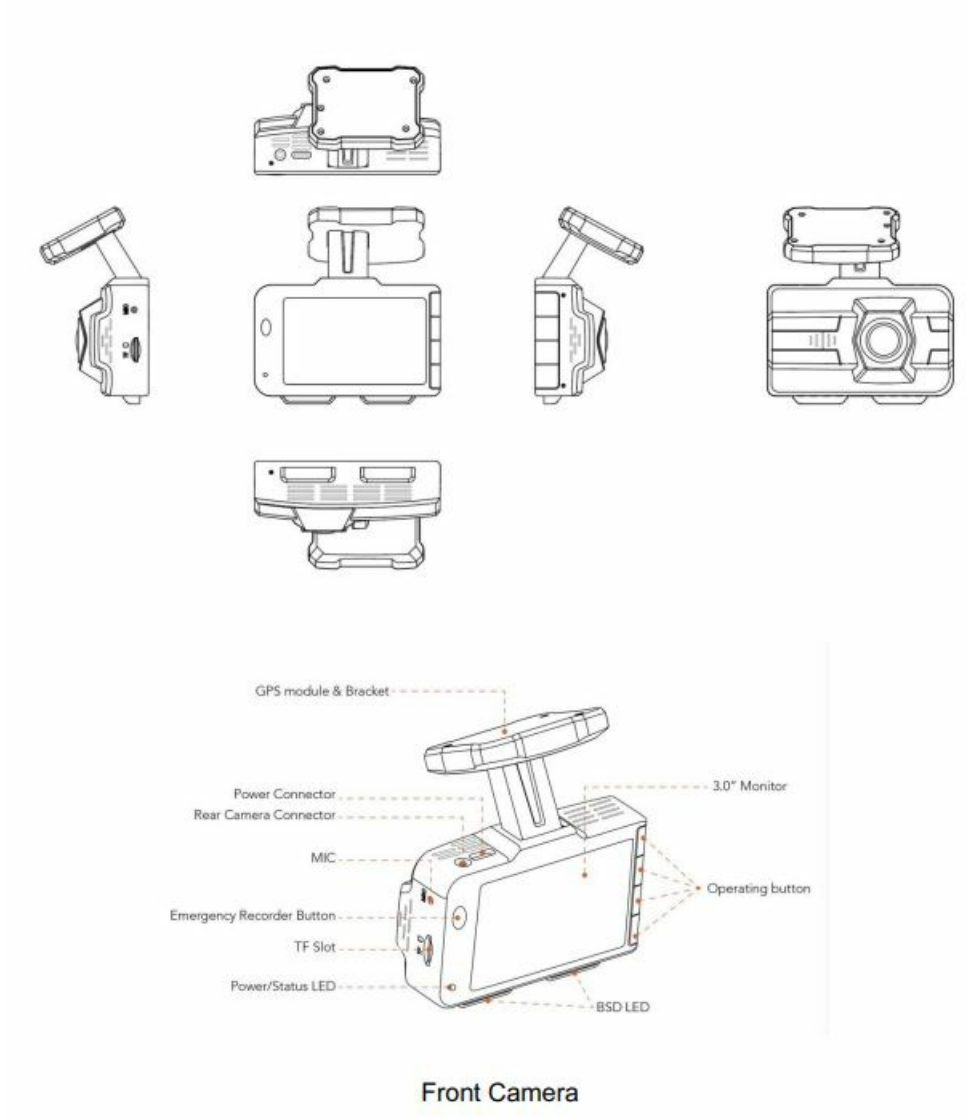
2. Do not subject the device to strong impact or vibration, so as not to cause device failure.

3. Do not place the device and power supply under too high or too low temperature, otherwise it may cause the device failure;

4. Do not hit, throw, or needle the device, and avoid dropping or squeezing the device.

5. Do not use unofficial approved or provided power and data cables.

6. Do not disassemble the device and accessories without authorization, otherwise the device and accessories will not be covered by the warranty.
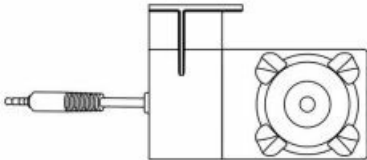
Product Introduction

Product Features

- High-definition recording, to capture every subtle detail of the driving process.
- Wide Dynamic Recognition (WDR): Clearly record details in both highlights and shadows, even in extremely strong light and dark contrasts.
- Super Night-Vision Mode: Capture clear image even in the dark night.
- Advanced Driving Assistance System (ADAS): Sensing the surrounding environment of the vehicle, real-time voice reminding safe driving, reminding the front car collision, front car start, lane departure, pedestrian collision, for safe driving escort.
- Lane Change Assistance (LCA): Monitors the driver's blind spot behind the vehicle; Warns the driver when another vehicle poses a danger to the vehicle's lane change.
- Rear Collision Warning(RCW): Real-time monitor the rear of the car, and issue a warning message when the rear collision may occur, always ensure the rear safety for the user.
- Equipped with a 3-axis accelerometer to precisely sense vehicle movement or impact. In the case of emergency braking and collisions, the crash video is saved separately.
- Multi-camera support: Can be connected to front and rear cameras for full security protection.
- Wide Angle: Wide FOV enables camera to easily capture multiple lanes and reduce shooting blind spots.
- Start simultaneously: the camera will automatically start recording after the vehicle is started, and the camera will automatically shut off after the engine is turned off.
- Parking mode recording: Parking mode recording function (optional buck line required), can ensure vehicle safety while parking.
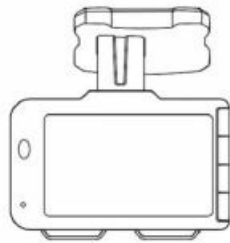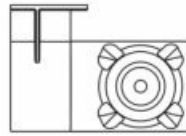
Product Overview

Front Camera

Labels: GPS module & Bracket, Power Connector, Rear Camera Connector, MIC, Emergency Recorder Button, TF Slot, Power/Status LED, 3.0" Monitor, Operating button, BSD LED

Rear Camera

Product Specification

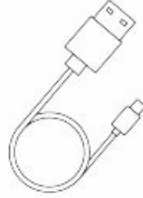| Item	Description
GPS	Support
WiFi	Support
Screen	3.0"
Built-in G-sensor	Impact detection
Memory Card	External Memory Card (32 to 512GB Card in FAT32, UHS-III/ A1)
Angle / Aperture	Front Camera: F1.75, FOV 140° Rear Camera: F1.8, FOV 140°
Recording Resolution	EAGLE SE4K: 4K@30fps + 1080p@30fps FALCON SE4K: 4K@30fps + 1080p@30fps HAWK SE4K: 4K@30fps + 1080p@30fps HAWK SE2K: 2K@30fps + 1080p@30fps
Recording Format	MP4
Voice Command	Optional

Package Contents

AI Dash Cam

Rear Camera

Car Power Adapter

Type-C Power Cable

Static Sticker

Quick Start Guide

Warranty Card

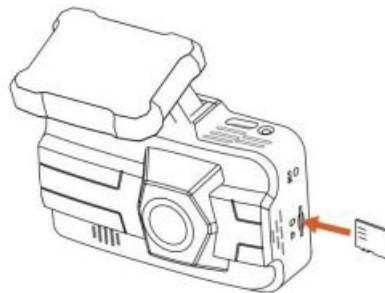User Manual
(Digital)

Cable Tidy Tool

64G TF Card

Hardwire Kit
(Optional)

Installation

Insert the Memory Card

Insert a suitable Memory card (16G-512G, FAT32 / UHS-III) into the Dash Cam. Push the memory card until it clicks into place (The text side of the memory card is oriented in the same direction as the screen). Please make sure to use a memory card of UHS-III level or above, otherwise it may cause device abnormalities.
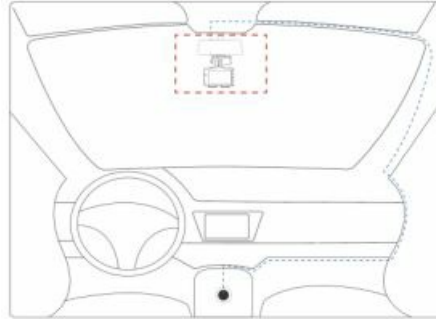
Insert the Memory Card

Note: Do not remove or insert the memory card while the power is on, as this may damage the card or the video content therein.

In-Vehicle Installation – Front Camera

1. **Select a mounting location**

   The front camera needs to be mounted right in the middle of the windshield, and the deviation from the center line should not exceed 10 cm, otherwise the accuracy of the AI function may be affected.

   Note: It is recommended that the front camera be mounted behind the rear-view mirror to avoid obstructing the driver's view. AI Dash cam location(Recommended area, as below):
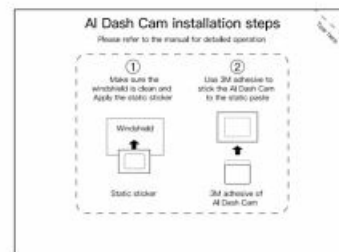
2. **Attach the front camera on Windshield**

   Select a proper mounting location on windshield, wipe the location area clean with a lint-free cloth. The windshield must be free of dust, wax, oils, or coatings, and then apply the static sticker. Remove the overlay to expose the 3M adhesive side and stick the AI Dash Cam into the dashed box in the middle of the static sticker. Make sure the front camera is horizontal and facing straight to the windshield to capture the desired view, such as the road in the center. Place the bracket firmly on the mounting position of the static sticker for 30 seconds.
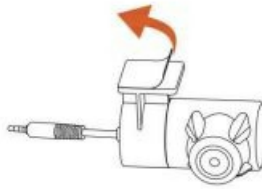
   3M adhesive   The Static Sticker

3. **Adjust the Front camera**

   Note: Recommend to make the camera capture an image with both the sky and the ground equally (50% is the sky and 50% is the ground).

In-Vehicle installation – Rear Camera

1. Select a proper mounting location on windshield, wipe the location area clean with a lint-free cloth. The windshield must be free of dust, wax, oils, or coatings.
2. Remove the cover layer to expose the 3M adhesive surface; Ensure that the cable port of rear camera directs to the right side and the view captured is desired field; Firmly place the mount on the mounting location of windshield for 30 seconds.
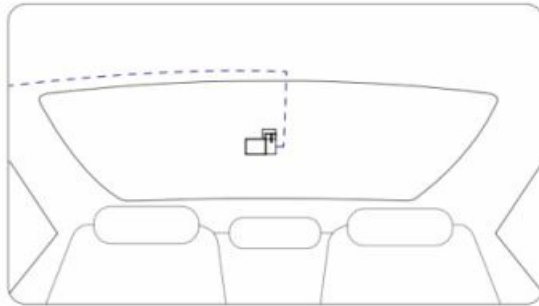3. Route the rear camera cable and plug another end of cable into the front camera.

3M adhesive

The included rear camera cable is designed to be routed out of sight, and it can be hided along or behind the trim or headline, as below picture.
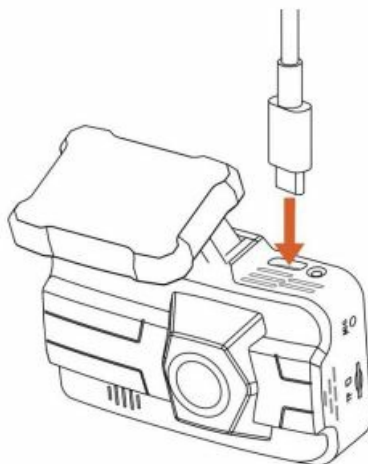
Cautlon Please attach the rear camera with the cable on the right side to avoid capturing upside-down images.

Wire alignment diagram

Connect car power cable

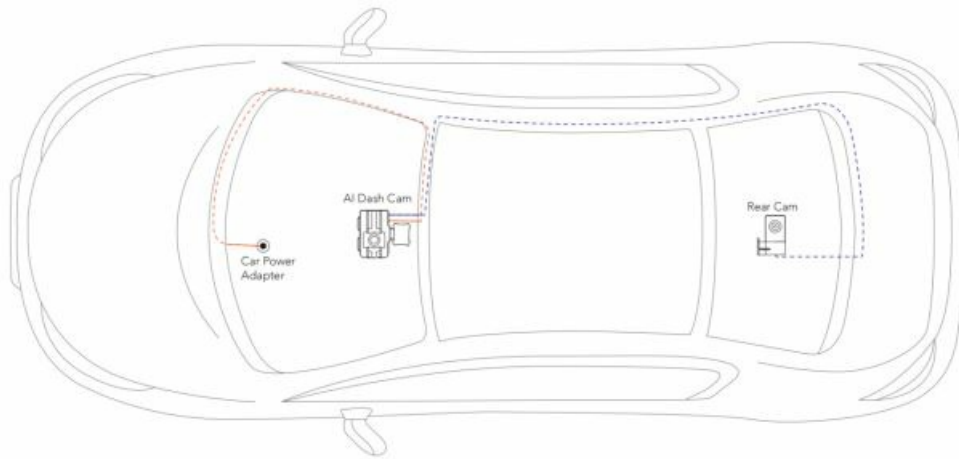1. Plug the power cable into the Type-C connector of the front camera.

Power cable plugin

2. Route the power cable and hide the power cable along or behind the trim or headline to make sure the view of

driver unobstructed. Plug the car power adapter into the DC-12V outlet of your vehicle, as below pictures.

Overall wire alignment diagram

AI Functions

Auto-calibration

When AI Dash Cam works on a running vehicle for the first time, it will turn on the auto-calibration function. The calibration will complete in about 5 minutes when the following conditions are met.

1. Driving on a straight, level road with clear lane lines.
2. The vehicle speed is more than 13mph(20km/h);
3. There are few vehicles on the road.
4. Try not to change lanes.

After the calibration, the calibration icons on the status bar will be check. The first calibration may take a long time, please be patient. After the first calibration is completed, the device will continue to learn and adjust.

Lane Departure Warning

When current Vehicle speed > 40mph(60km/h) and the lane-center-driving vehicle state is changing to across the lane, the AI system will issue related sound alert to driver and display alert icon on the dash cam screen.

Lane Departure Warning

Note: Normal lane changing will also trigger this warning, this alarm can be turned off in the AI function settings.

Forward Collision Warning

When current Vehicle speed > 20mph(30km/h) and the Time to Collision (TTC) between the vehicle and the vehicle ahead is less than 2.7s, the AI system will issue related sound alert to driver and display alert icon on the dash cam screen.

Forward Collision Warning

Virtual Bumper

When the distance between the vehicle and the vehicle ahead / Current vehicle speed < 0.7S, and 20mph(30km/h) > Current vehicle speed > 0.6mph(1km/h), the AI system will issue related sound alert to driver and display alert icon on the dash cam screen.

Virtual Bumper

Pedestrian Collision Warning

When the distance between the vehicle and the pedestrian ahead / Current vehicle speed < 1.2S, and 40mph(60km/h) > Current vehicle speed > 0.6mph(1km/h), the AI system will issue related sound alert to driver and display alert icon on the dash cam screen.

Pedestrian Collision Warning

Stop & Go

When the vehicle stops for more than 5s and the vehicle ahead (within 20ft distance) continues to drive away for more than 1s, the AI system will issue related sound alert to driver and display alert icon on the dash cam screen.

Stop & Go

Lane Changing Assistance

Level 1 Alert: If the velocity of vehicle > 6mph(10km/h), while another vehicle (within 23ft distance) is approaching from the rear-side lane, the AI alert will be triggered.

1. The LED indicator light will be solid on to remind the driver. The faster the speed, the farther the alarm can be triggered, up to 41ft.
2. When there is a car on your left rear, the orange LED on the left will be on, and when there is a car on your right rear, the green LED on the right will be on.

Left LED Indicator   Right LED Indicator

Level 2 Alert: If the velocity of vehicle > 20mph(30km/h) with its outer edge of wheel less than 0.32ft from the lane line, another vehicle (within 23ft distance) is approaching from the rear-side lane at the same time, the AI alert will be triggered.

1. the related LED indicator light will be solid on;
2. the sound alert will be issued every 3s;
3. the alert Icon (side-view mirror) will display on the dash cam screen. The faster the speed, the farther the alarm can be triggered, up to 41ft.

Lane Changing Assistance

Note: This alarm will be triggered by a car on the left rear or right rear even when you have no intention to change lanes. This alarm can be turned off in the AI function settings.

Rear Collision Warning

If the on-driving vehicle > 20mph(30km/h), the Time to Collision(TTC) between the vehicle and the vehicle behind is less than 2.7s, the AI system will issue related sound alert to driver and display alert icon on the dash cam screen.


Rear Collision Warning

Dash Cam Recording

- The screen displays [icon] means the Memory card is normal.
- The screen displays [icon] means the Memory card is in failure.
- The screen displays [icon] means no Memory card is inserted.

Interface Description

Interface Description

Time stamp is default on, able to turn off from [icon]-[Video Settings]-[Time stamp] Front camera default as

4K@30fps(4K version), able to set as 4K@30fps or 2K@30fps or 1080P@30fps, [⚙]-[Video Settings]-[Video resolution], Rear camera default as 1080P.

GPS position:

- Positioned: screen displays 📍 Non-positioned: screen display 🚫.

Normal recording

After the vehicle is started, the dash cam automatically turns on and starts recording. After the vehicle is turned off, the recording will stop automatically.

Note: REC red light flashing means the dash cam is recording. REC blue light on means the dash cam isn't recording. Screen view switching Press the first button on the right to switch screens. The order of switching screens is as follows:

1. Traffic Visualization Interface (default).

2. Front camera view.
3. Rear camera view.
4. The PIP (Picture in picture) view.

The Traffic Visualization Interface will show the real-time traffic environment. The left side of the screen shows the vehicles and pedestrians ahead, while the right side shows the speed of the vehicles moving.

When the device detects an object of interest in front of or behind the vehicle, the corresponding object and

distance are displayed on the right side of the traffic visualization interface.

Audio recording

System is default off, but able to turn on by switching 🎤

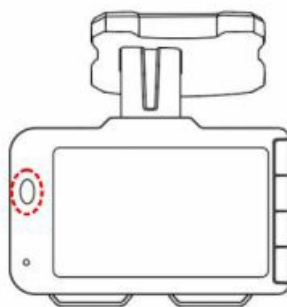Audio recording switch

Emergency Recording

Emergency recording starts working under 2 conditions as below:

Impact detected (G-Sensor)

- If the dash cam detect an impact whilst normal recording, it will start emergency recording.
- If G-Sensor sensitivity is set as [high sensitivity], even slight impact would be detected.
- If G-Sensor sensitivity is set as [medium sensitivity (default)], only medium impact would be detected.
- If G-Sensor sensitivity is set as [low sensitivity], only heavy impact would be

Manual emergency recording

- Pushing the emergency button can start emergency recording whilst under the normal recording mode.

Emergency Recording Button

- Pushing the emergency button can also start emergency recording.

  Note: The screen displays the icon, which is on the process of emergency recording for 15s recording file.
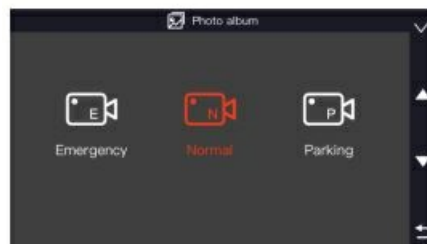
Emergency recording

Parking Mode Recording

When the parking mode turns on, the screen displays **P** and start time-lapse recording. When the parking mode turns off, the icon **P** disappears.
Note: Parking mode is available only when equipped with the Hardwire Kit(optional).

Playback mode

Pushing [🖼️] can enter the playback mode, and select ▲ or ▼ to choose the file type: Normal / Emergency / Parking, and select √ to enter and review.

1. 3 types of recording file: normal, emergency and parking.

2. Each recording type has 2 channel file: Front view and Rear view.

Types of recording file

Types of channel file

3. The dash cam supports loop recording to allow continuous recording by replacing the file in Normal and Parking with the new content, but the file in Emergency won't be replaced or erased.

4. The playback progress adopts the forward timing method, and the file duration remains unchanged.
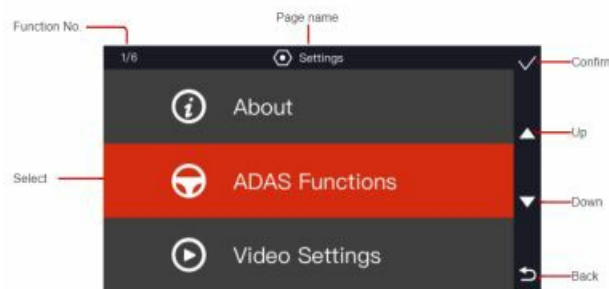
Video playback interface

5. Push [×1]to change the speed by 1X, 2X, 4X, 8X on a loop.

Menu and Settings

Settings

Operating Instructions

1. Video Settings
    1. Recording resolution, recording duration time, Time stamp are settable.
    2. Collision sensitivity setting: G-sensor support impact motion. When detect a impact, the dash cam can start emergency recording with 2 cameras.
    3. Parking Mode: default as turn off. Able to turn on by working with extra Hardwire Kit.
2. Format the memory card
    The memory card may need to be formatted in the following situations.
    1. If the dash cam can't work properly after changing a new memory card, please select [Format the memory card].
    2. When the Memory card isn't FAT32, the screen will display as below, please change a new memory card FAT32.
3. Factory Default Settings
    1. Factory Default Settings is an option that restores all settings of the AI Dash Cam to factory settings,
    2. The screen will display as below:

Format Confirmation

Formatting Requests

Select [√], all settings will get back to the factory default, then back to [Setting] Page.

Select , No change, then back to [Settings]

4. **About**

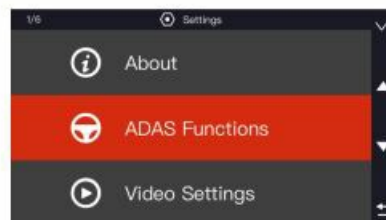Product information and system version number, the screen displays as below:

Resetting progress

AI Function Settings

Functions: Lane Departure warning, Forward Collision warning, Pedestrian Collision Warning, Stop & Go, Virtual Bumper, Rear Collision Warning, Lane Change Assistance. These AI functions are turned on by default and their activate speed and sensitivity can be adjusted.
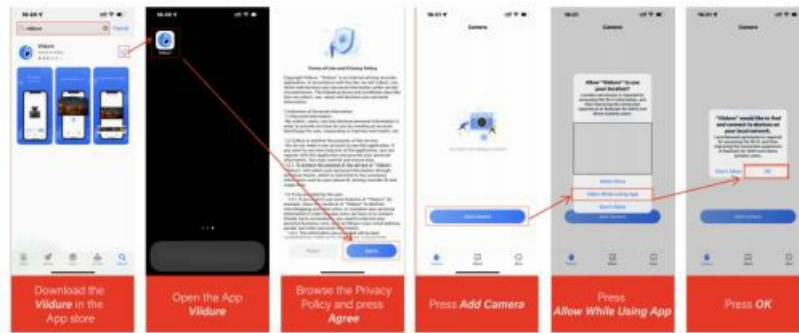

AI Function Setting List

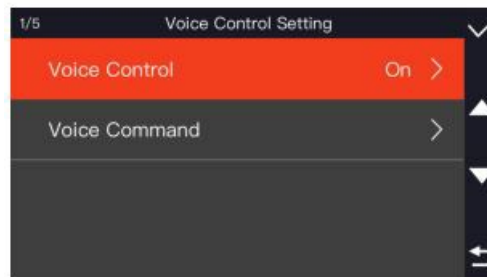
AI Function Selection   AI Function Settings

Wi-Fi Connection

Download the Viidure APP on the Appstore or GooglePlay to connect to the AI Dash Cam from your phone.In the APP you can view live footage and what the device is storing, as well as configure the device.
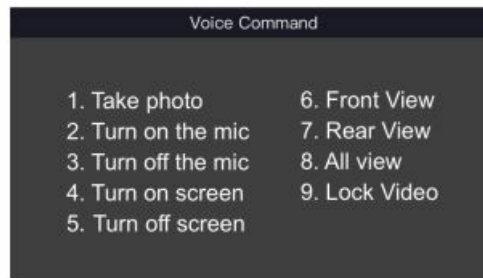
Connect to the Wi-Fi named AI Dash Cam (Wi-Fi always on, password:12345678) in your cell phone's Wi-Fi list, and then click "Add Camera" in the app to successfully connect to the device.

Voice Command

In "Settings – Advanced Settings – Voice Control Setting," you can enable or disable the Voice Control feature. Under Voice Commands, you'll find a list of specific voice instructions that the system can recognize.
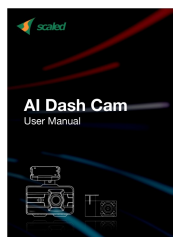

1. Take photo: The AI Dash Cam will capture a real-time photo.

2. Turn on the mic: The AI Dash Cam will activate the microphone, allowing it to record indoor audio.

3. Turn off the mic: The AI Dash Cam will deactivate the microphone.

4. Turn on screen: The AI Dash Cam will illuminate the screen backlight.

5. Turn off screen: The AI Dash Cam will dim the screen backlight.

6. Front View: The AI Dash Cam's screen will display the footage captured by the front camera.

7. Rear View: The AI Dash Cam's screen will display the footage captured by the rear camera.

8. All View: The AI Dash Cam will simultaneously display footage from both the front and rear cameras.

9. Lock Video: The AI Dash Cam will record a 20-second event video and lock it for safekeeping.

Simple troubleshooting

Trouble	Solution
The recording is disabled	Please use a FAT32, read / write speed ≥ UHS-III memory card.
The loop recording is disabled	Please check the space of memory card is enough for recording. Please format the memory card if no enough space.
The recording is blurry	Please tear off the film on camera lens and clean up the lens and windshield .

The recording has no audio	Please make sure you turn on the audio.
The dash cam is over temperature	When the dash cam is working at 4K / 2K, it's normal to get a little hot around the dash cam and Memory card port.
Recording files on the memory card can't display on the computer	Please change a new video player to display. If still unworkable, maybe the memory card get damaged, please try to format it or change a new one.
Others	If troubles above still can't be solved, please restore all settings to the factory settings or contact a local technical to support.

Documents / Resources

	scaled Electronics For the AI Dash Camera [pdf] User Manual Electronics For the AI Dash Camera, Electronics For the, AI Dash Camera, Dash Camera, Camera

References

- **User Manual**