

VOXXADAS[®]

ADVANCED DRIVER ASSISTANCE SYSTEMS

QUICK START GUIDE 4K AI DASH CAM / ACADC5

SAFETY
FIRST

REV: 0

Notice:

The VOXX ADAS ACADC5 is compatible with the VOXX ADAS Mobile App.

Scan the QR code below to download the Mobile app



QR Code



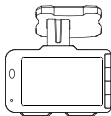
**Detailed operation instructions can be downloaded at
voxxelectronics.com**

Scan the QR code below to download the Owner's Manual

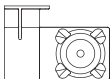


QR Code

Package Contents



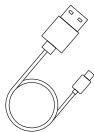
AI Dash Cam



Rear Camera



Car Power Adapter



Car Power Cable



ACADCHW
Hardwire Kit (Optional)



User Manual
(Online)



Quick Start Guide



Panel Pry Tool



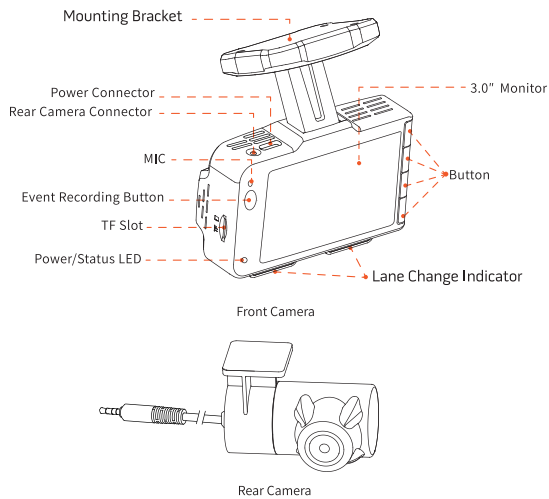
64G TF Card

Product Feature

- Monitor the front and back of your vehicle in high resolution
- Wide Dynamic Recognition (WDR)
- Super Night-Vision Mode
- Advanced Driving Assistance System (ADAS)
- Lane Change Assistance (LCA)

- Rear Collision Warning (RCW)
- Automatic Recording in case of emergency braking and collision
- Loop Recording
- Wide Angle Field of View
- Parking Mode Supported, Requires ACADCHW

Product Overview



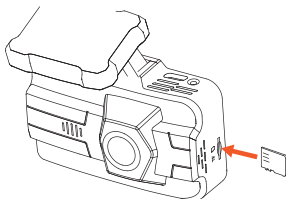
Screen Icons



Installation

♦ Step 1

Insert a suitable Memory card (16G-256G, FAT32 / 2U HS-111) 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).



Insert the Memory Card

Please make sure to use a memory card of UHS-111 level or above, otherwise it may cause device abnormalities.

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.

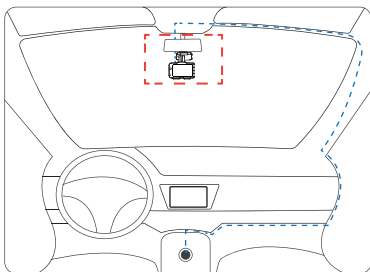
♦ Step 2

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 10cm, otherwise the accuracy of the AI function may be affected.

Note: It is recommended that the front camera should be mounted behind the rear-view mirror to avoid obstructing the driver's view.

AI Dash cam location (Recommended area below).



Wire alignment diagram

2. Attach the front camera on Windshield

Select a proper mounting location on the windshield. Wipe the location with a lint free cloth. The windshield must be free of dust wax oils or coatings. Then remove the backing from the 3M adhesive tape. Apply the dash cam to the windshield. Press firmly for 60 seconds to ensure proper adhesion.

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.



3. Adjust the Front camera angle

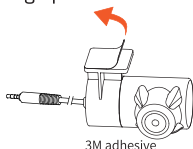
It is recommended to make the camera capture an image with both the sky and the ground equally (50% is the sky and 50% is the ground).

♦ Step 3

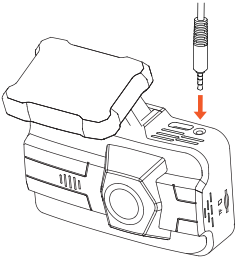
1. Select a proper mounting location on windshield and wipe it clean with a lint-free cloth. The windshield must be free of dust, wax, oils, or coatings.

2. Remove the cover layer to expose the 3M adhesive surface; ensure that the cable of rear camera directs to the right side and the view captured is desired view; firmly place the bracket on the mounting location of windshield for 30 seconds.

Note: Attach the rear camera with the cable on the right side to avoid capturing upside-down images.

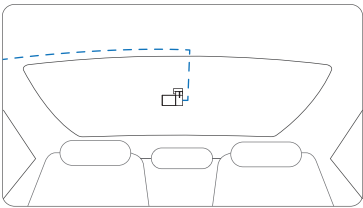


3. Route the rear camera cable to the front dash cam and plug into location shown below.



Plug into the front camera

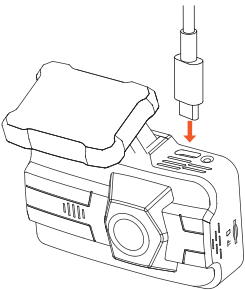
The rear camera cable is designed to be routed out of sight, and it can be hidden along or behind the trim or headliner, as shown below.



Wire alignment diagram

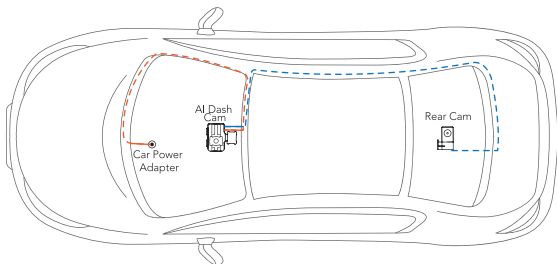
♦ Step 4

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



Power cable plugin

2. Route the power cable and hide it along or behind the trim or headliner to make sure the view of driver is unobstructed. Plug the car power adapter into the DC-12V outlet of your vehicle, as shown below.



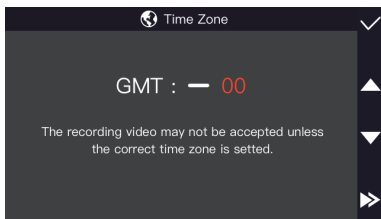
Overall wire alignment diagram

Basic Functions

◆ Initial Power On

AI Dash Cam will turn on automatically after you connect the power.

Set the time zone of your location. The date and time will be updated automatically after the GPS location.

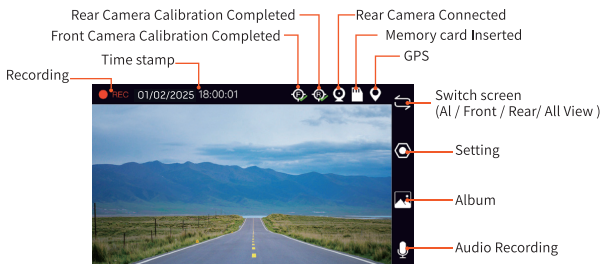


Date & Time Setting

◆ Loop 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: Device status indicators: A red light indicates that recording is in progress, while a blue light indicates that recording is not active



♦ Emergency Recording

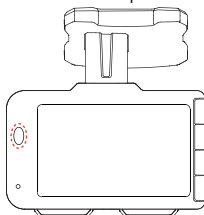
Emergency recording starts working under 2 conditions as below:

1. Impact motion recording

- If the dash cam detects an impact while recording, it will start event recording.
- If impact detection is set to High Sensitivity, even a slight impact will trigger event recording.

2. Manual emergency recording

- Pushing the emergency button can start emergency event recording while under the loop recording mode.



Emergency Recording Button

Note: Emergency videos will record a total of 20 seconds: 5 seconds before the trigger and 15 seconds afterward.



Emergency Recording

◆ **Parking Mode Recording**

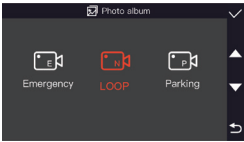
When the Parking Monitoring Mode (Optional) is activated, the device enters a sleep state after the vehicle is turned off. In the event of impact or vibration while the vehicle is parked, the device will awaken and capture a 20-second emergency video.

Note: Parking Mode requires the use of the ACADCHW Kit (optional).

Video Playback

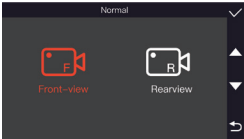
Pushing [📷] can enter the playback mode, and select ▲ or ▼ to choose the file type: Loop/ Emergency/ Parking, and select ✓ to enter and review.

1. Three types of recording files: Loop, Emergency and Parking.



Types of recording file

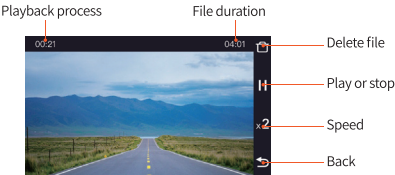
2. Each recording type has 2 channel folders: Front view and Rear view.



Types of channel file

3. Once the storage capacity is reached, the oldest files within the 'Loop' and 'Parking' folders will be overwritten by new files, however, files within the 'Emergency' folder will not be subject to loop replacement.

4. The playback process adopts the forward timing method, and the file duration remains unchanged.



5. Push x1 to change the speed by 1X, 2X, 4X, 8X on a loop.

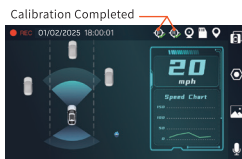
AI Function

◆ Auto-calibration

Upon the initial activation of the AI Dash Cam, an automatic calibration process for the AI algorithms will commence. The calibration duration may vary between 1 to 10 minutes, depending on the scene conditions captured. To expedite the calibration process, consider the following recommendations:

1. Drive on a road with a straight, level trajectory and clear lane markings.
2. Maintain a speed greater than 13 mph.
3. Choose routes with lower traffic density.
4. Minimize unnecessary lane changes.

After the calibration, the calibration icons on the status bar will be checked.



◆ Lane Departure Warning

When current vehicle speed >40mph 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

This function can be turned off in AI Function settings, and the trigger sensitivity (high, medium, low) and minimum speed activation (40-50mph, default 40mph) can also be modified.



Note: Normal lane changing will also trigger this warning.

◆ Forward Collision Warning

When current vehicle speed >20mph 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

This function can be turned off in AI Function settings, and the trigger sensitivity (high, medium, low) and minimum speed activation (20-30mph, default 20mph) can also be modified.



◆ Virtual Bumper

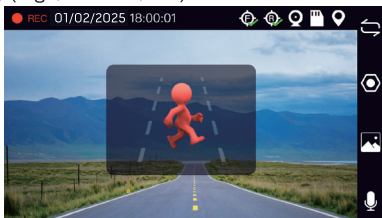
When the distance between the vehicle and the vehicle ahead/ Current vehicle speed <0.7s, and 20mph> Current vehicle speed >0.6mph, the AI system will issue related sound alert to driver and display alert icon on the dash cam screen. This function can be turned off in the AI Function settings, and the trigger sensitivity (high, medium, low) can also be modified.



Virtual Bumper

♦ Pedestrian Collision Warning

When the distance between the vehicle and the pedestrian ahead/ Current vehicle speed <1.2s, and 40mph>, Current vehicle speed >0.6mph, the AI system will issue related sound alert to driver and display alert icon on the dash cam screen. This function can be turned off in the AI Function settings, and the trigger sensitivity (high, medium, low) can also be modified.



Pedestrian Collision Warning

♦ Stop & Go

When the vehicle stops for more than 5s and the vehicle ahead (within 20 ft 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. This function can be turned off in the AI Function settings, and the trigger sensitivity (high, medium, low) can also be modified.



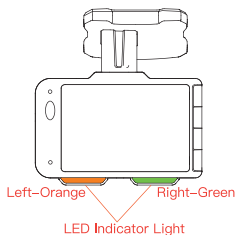
Stop & Go

♦ Lane Changing Assistance

Level 1 Alert: If the velocity of vehicle >6mph, 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 41 ft.

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.



Level 2 Alert: If the speed of the vehicle is $>25\text{mph}$ and another vehicle is approaching from the rear, an AI alert will be triggered.

1. The related LED indicator light will be on solid.
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 an overtaking from the rear car even when you have no intention to change lanes.

♦ Rear Collision Warning

If the oncoming vehicle $>20\text{mph}$, 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. This function can be turned off in the AI Function settings, and the trigger sensitivity (high, medium, low) can also be modified.

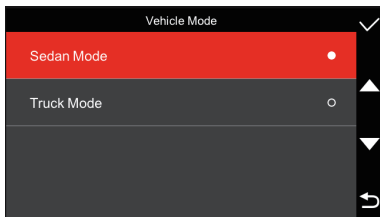


Rear Collision Warning

♦ Vehicle Mode

To ensure that Lane Changing Assistance and Rear Collision Warning work correctly in a (pick-up) truck, you can set the Vehicle Mode to either Sedan or Truck mode as required.

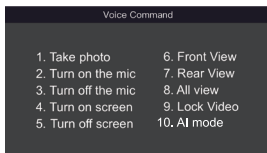
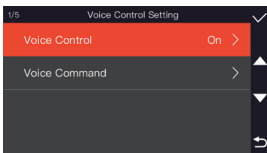
(Setting path: ADAS function-Vehicle mode)



Other Settings

♦ Voice Control

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.



♦ Wi-Fi Connection

Download the VOXX ADAS app on the Apple App Store or Google Play Store to connect the AI Dash Cam from your phone. In the app you can view live footage and device storage, as well as configure the device.



VOXX ADAS

Connect to the Wi-Fi named AI_CAM (Wi-Fi always on, **password: 12345678**) in the Wi-Fi list, and then click "Add Camera" in the app to successfully connect to the device.

1 YEAR LIMITED WARRANTY

VOXX by Gentex Corporation (the Company) warrants to the original purchaser of this product that should this product or any part there of, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product,(at the Company's option) without charge for parts or repair labor. A transmitter for a vehicle security or remote start system is warranted for 12 months from the date of original purchase.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), authorization number, specification of defect(s), transportation prepaid, to an approved warranty station. This warranty is not transferable.

This Warranty does not cover damage to the vehicle's electrical system or costs incurred for the installation, removal or re-installation of the product. This Warranty does not cover batteries, broken LCD transmitter display screens, nor apply to any product or part there-of which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, abuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s).

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