

Fleet Hoster Surfsight® ADAS Calibration

User Guide

ADAS calibration from the dashcam

Why does road-facing ADAS calibration matter?

The Surfsight®dashcam uses Advanced Driver Assistance System (ADAS) features to gather information about the road ahead. It detects events such as:

- **lane weaving** - your vehicle crosses over a certain number of lane marking lines in a specific amount of time
- **tailgating** - your vehicle is driving too close to the vehicle in front of you

For tailgating events, Surfsight® manages limitation parameters for time-to-collision (TTC). When the driver exceeds the configured TTC limit and for the configured duration (or longer), visual and audio alerts are sent. Users can configure the permitted TTC and duration parameters, as shown in the table below:

Parameter name	Description	Valid values (milliseconds)	Default values (milliseconds)
Time to collision during the day (headwayAlertDayThreshold)	The TTC limit during the day	1,000 to 15,000	2,000
Time to collision during the night (headwayAlertNightThreshold)	The TTC limit at night	1,000 to 15,000	3,000
Continuous time to collision (headwayAlertTime)	The amount of time during which the TTC can be exceeded until alerts are delivered. This value is the same for both day and night.	1,000 to 60,000	3,000

Note

Default values are not recommendations.

How to calibrate from the dashcam

Important

The dashcam should first be installed at least 1.6 meters (160 centimeters/5.249 feet/62.99 inches) above the ground before beginning ADAS calibration. ***This is mandatory.***

Notice

Enter the measurements in the units of measurement that are set for your dashcam.

If your dashcam has the **Speed** setting set to:

- kilometers per hour - enter measurements in centimeters
- miles per hour - enter measurements in inches

These settings can be changed from the **Settings** menu of the [dashcam](#), or from the Surfsight® Portal.

To calibrate the road-facing ADAS through the settings menu of your dashcam:

Note

To recalibrate, press **recalibrate** under **ADAS** in the dashcam settings, and begin from step 8 above.

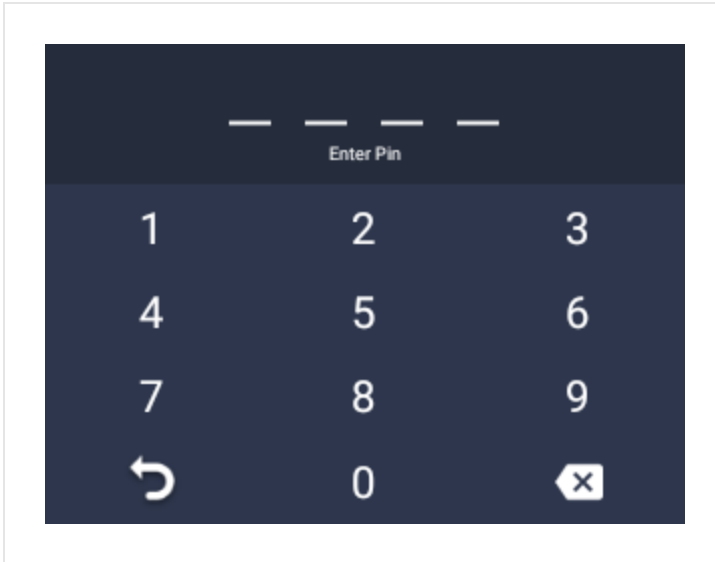
1. Drive the vehicle at above 75 km/h (46.6 mph) for around five minutes. Images from this drive are automatically obtained and saved to be used later in the calibration process.

Until your vehicle is calibrated, images are obtained and saved during every drive above 75 km/h (46.6 mph).

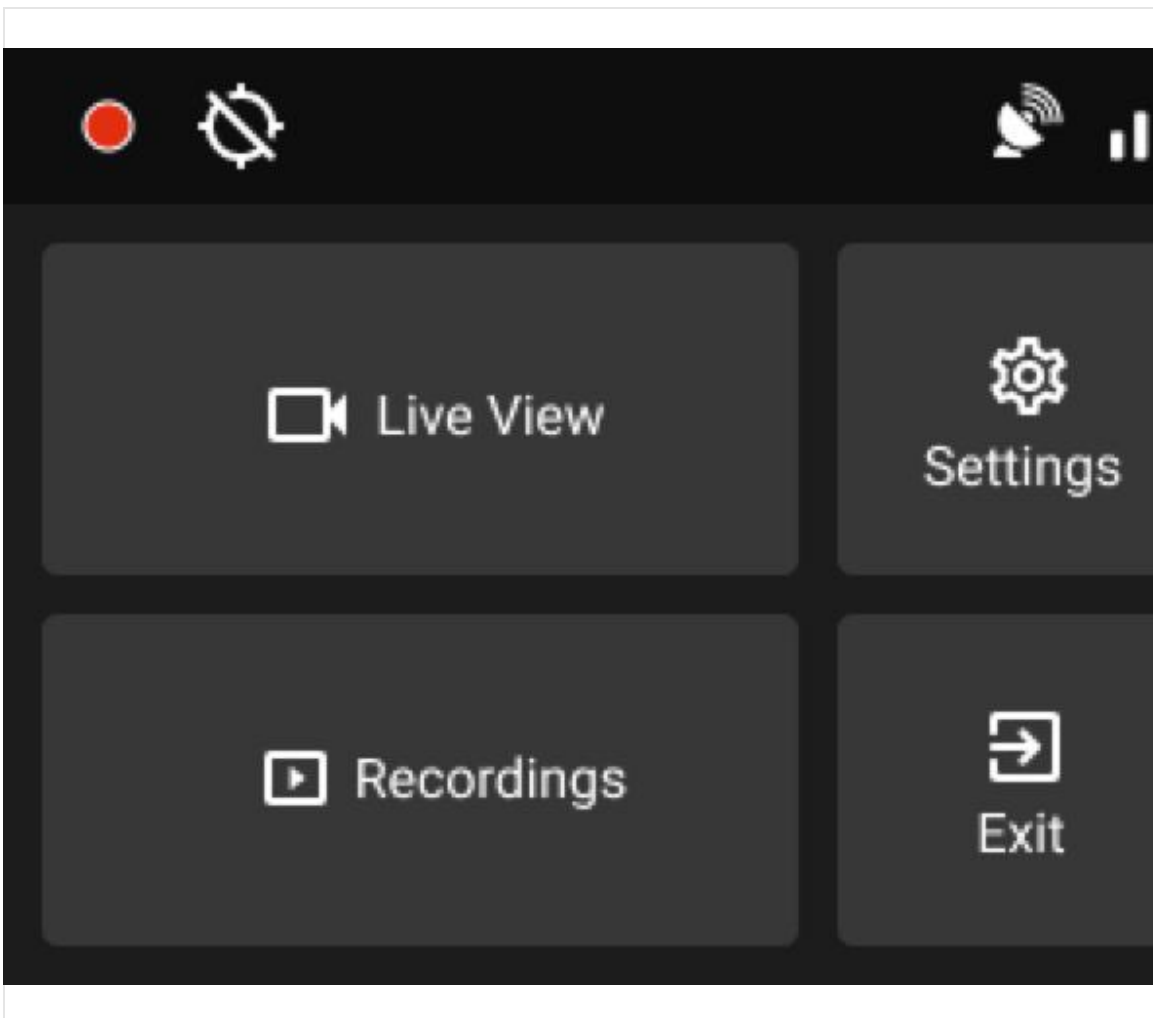
Note

Installers who do not have insurance to drive client vehicles can provide the required measurements in steps 9-11 for their clients to fill in when calibrating.

2. Park the vehicle safely.
3. When you are in the parked vehicle with the parking brake on, the ignition on, and the door closed, press the touchscreen of the dashcam to view the PIN screen.
4. Enter the default PIN 3333 to unlock the dashcam for the first time, or your own PIN subsequently.

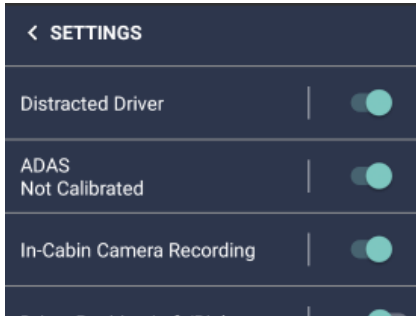


5. The screen unlocks and the menu appears.
6. Press **Settings**.

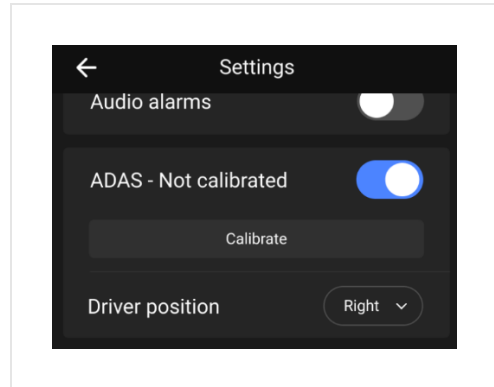


7. Scroll down to **ADAS**.
8. Toggle the button to turn calibration on.

In the AI-12 dashcam:



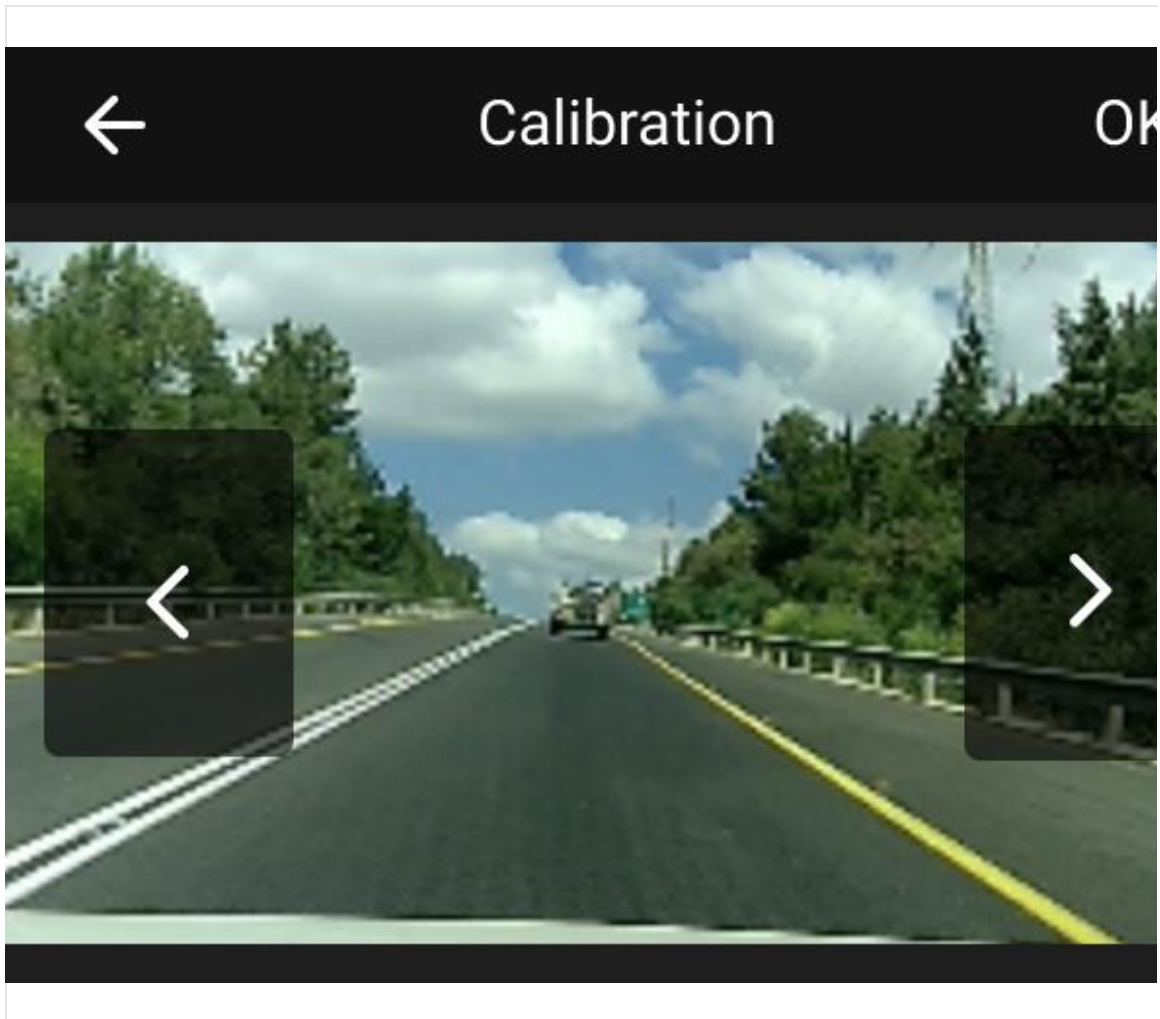
In the AI-14 dashcam:



Press **Calibrate**.

9. The set up for the calibration process begins automatically.
10. Press the upper left and right arrow buttons to view various image options. These images are those obtained in [step 1](#).

Select an image where you have a clear view of the road in front of your vehicle and press **OK**.



11. Enter the camera height, from the ground.

Important

The dashcam should first be installed at least 1.6 meters (160 centimeters/5.249 feet/62.99 inches) above the ground before beginning ADAS calibration. ***This is mandatory.***

Tip

The more exact the measurements used in calibration are, the better road-facing ADAS performs.

You can measure the distance from the ground to the floor of the vehicle, measure from the floor of the vehicle to the dashcam, and add the two measurements.

Another option is to measure from the ground to a point parallel in height to the dashcam.

Notice

Enter the measurements in the units of measurement that are set for your dashcam.

If your dashcam has the **Speed** setting set to:

- kilometers per hour - enter measurements in centimeters
- miles per hour - enter measurements in inches

These settings can be changed from the **Settings** menu of the [dashcam](#), or from the Surfsight® Portal.

In the AI-12 dashcam:



12. Enter the rear axle width, from the outer edges of each tire.

Notice

Enter the measurements in the units of measurement that are set for your dashcam.

If your dashcam has the **Speed** setting set to:

- kilometers per hour - enter measurements in centimeters
- miles per hour - enter measurements in inches

These settings can be changed from the **Settings** menu of the [dascham](#), or from the Surfsight® Portal.

In the AI-12 dashcam:



13. Enter the camera offset, from the center of the windshield to the road-facing lens.

If the road-facing lens is to the right of the windshield center from inside the cabin, enter the measurement as a positive number. If the road-facing lens is to the left of the windshield center from inside the cabin, enter the measurement as a negative number.

Notice

Enter the measurements in the units of measurement that are set for your dashcam.

If your dashcam has the **Speed** setting set to:

- kilometers per hour - enter measurements in centimeters
- miles per hour - enter measurements in inches

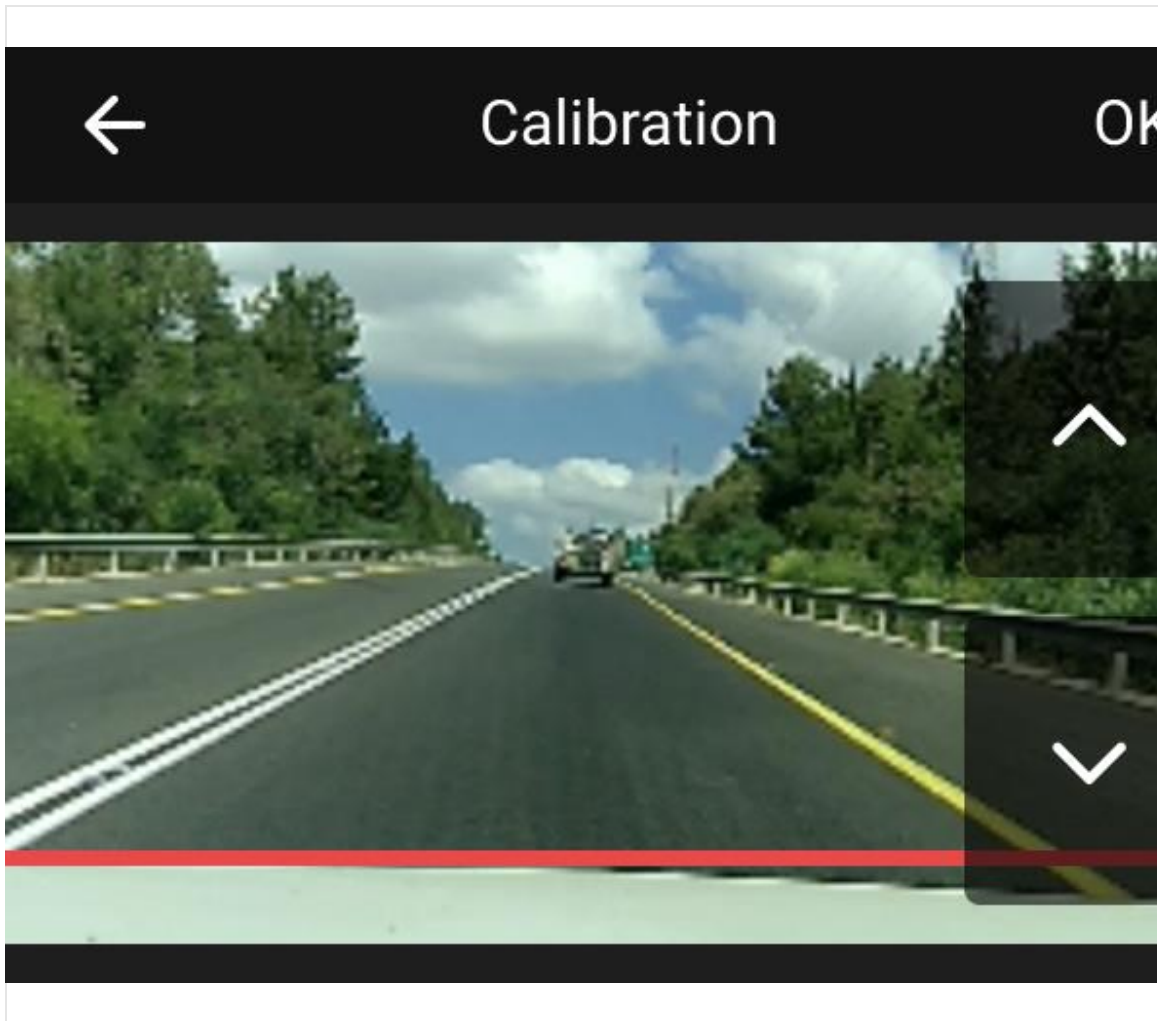
These settings can be changed from the **Settings** menu of the [dascham](#), or from the Surfsight® Portal.

In the AI-12 dashcam:

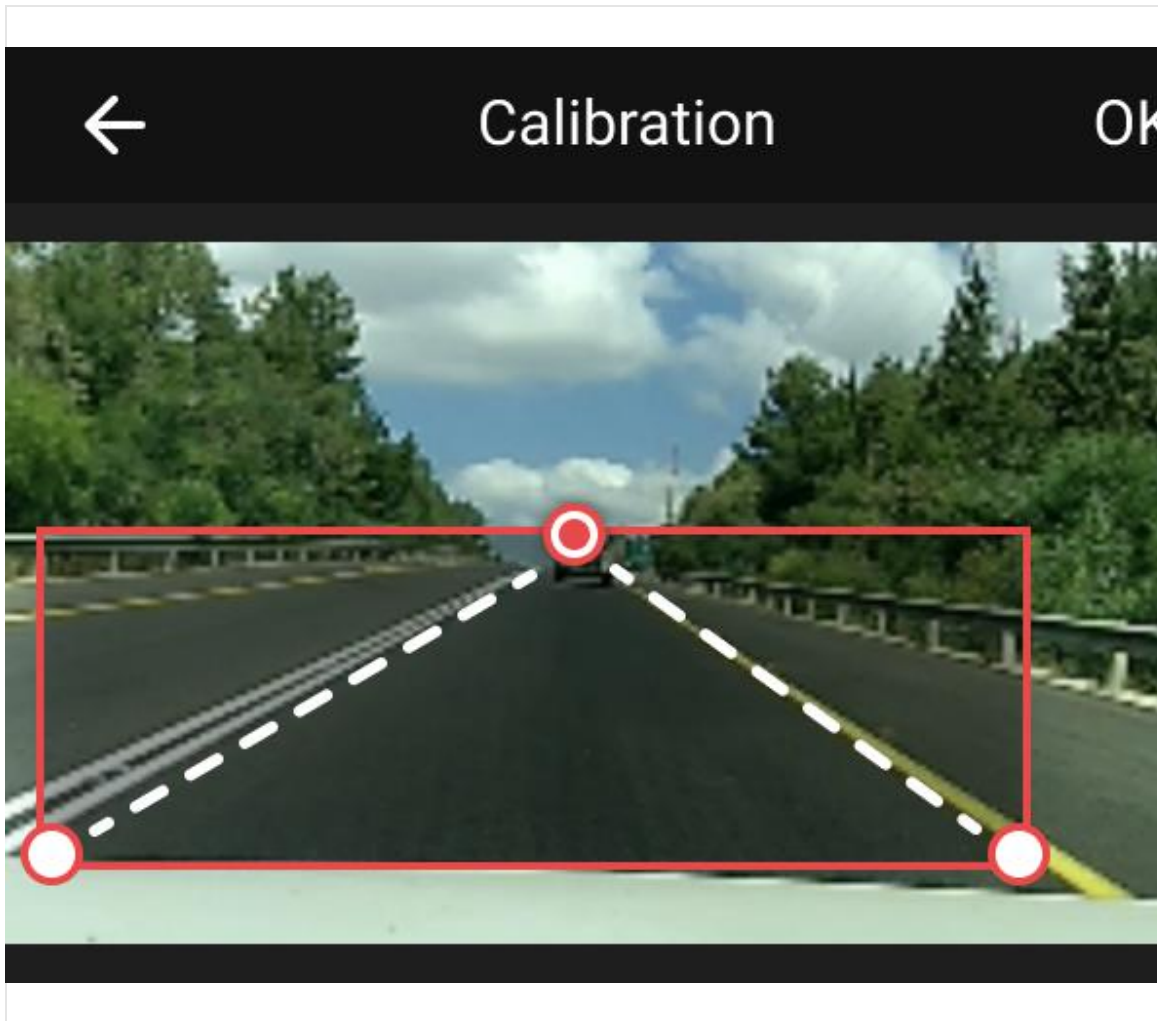


14. Adjust the height of the red line to mark the highest point where the dashboard or vehicle front is visible.

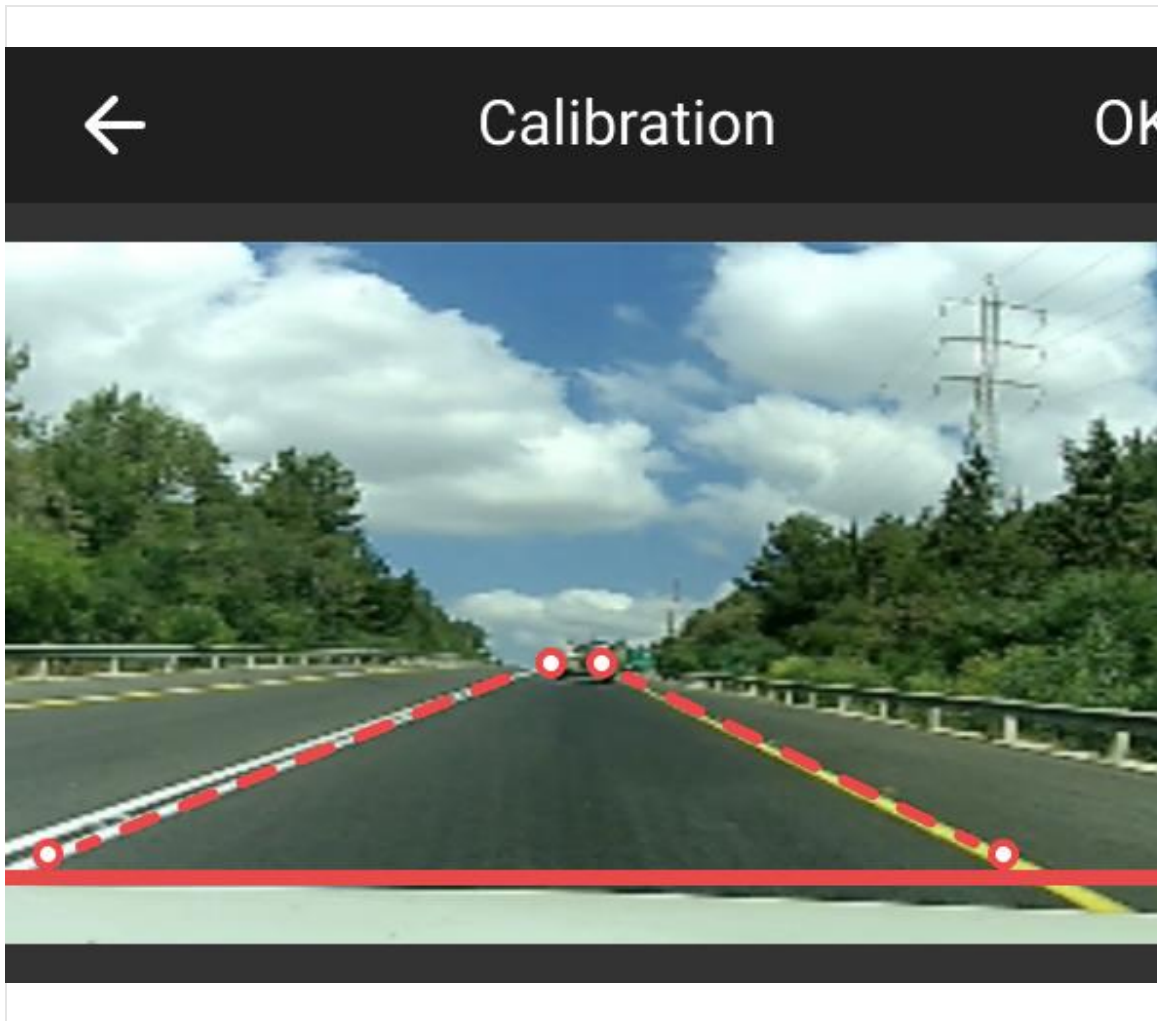
If no part of the vehicle is visible, lower the red line to the bottom of the image.



15. Adjust the red rectangle to mark the edges of the left and right lanes.

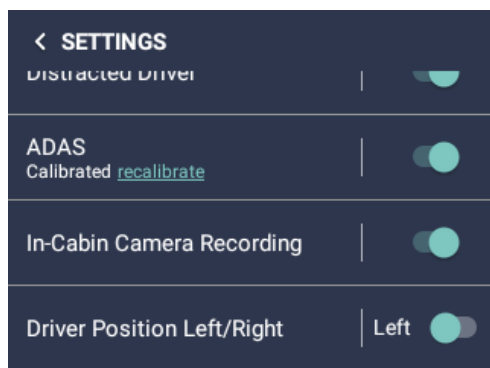


16. Confirm the calibration layout.



17. Once the calibration layout is confirmed, your dashcam calibrates. This can be seen in the **Settings** menu.

In the AI-12 dashcam:



In the AI-14 dashcam:

