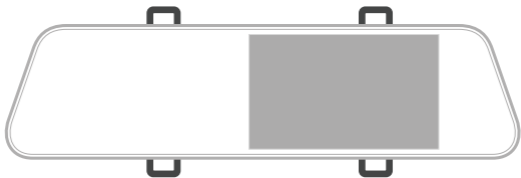


TOGUARD CE34

FHD 1080P DASH CAMERA
5 INCH TOUCH SCREEN REAR
VIEW MIRROR



TOGUARD[®]

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IMPORTANT NOTICE

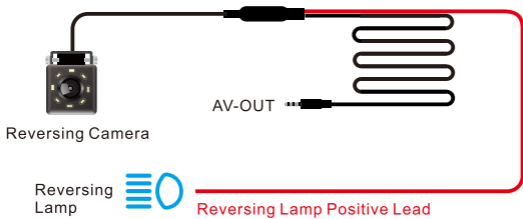
- This product is intended for use in motor vehicles only. Do not install the device where it might block the driver's view of the road (including the mirrors) or the deployment of the airbag.
- Before using this device, please insert the memory card first, and format the memory card from within the camera menu.
- This device records video at high resolution, Be sure to use a high speed memory card, Class 10 or above is recommended, 16GB or 32GB cards are recommended.
- We do recommend that you make sure the unit is working perfectly before installing the unit in your vehicle.
- Be sure the lens is clean and there is nothing blocking the lens.
- DO not leave the device in direct sunlight for a long time or where the temperature could go above 170°F(75°C).

INSTALLATION GUIDE

1. Before installation, please insert a high speed memory card in the unit and format the memory card from within the camera menu, also do a simple test to make sure the unit is working perfectly.
2. Mount the camera over the original rearview mirror and use the included rubber rings to fix it, make sure the camera is in place and secured.
3. Adjust the mirror angle according to your driving position, make sure the mirror is in the right place and the view is clear.
4. Adjust the angle of the lens, make sure you get the best coverage over the hood and the road ahead, so you can record what happens.
5. Connect the power adapter to the mirror and the cigarette lighter, then route the power cable along the interior trim board, you can route it as indicated below, and hide the excess cable in the gaps for tidiness.



6. The rear view camera should be installed above the number plate, screw pad upwards, you might need to drill screw holes to install the camera.
7. The excess RED lead near the rear view camera is used for reverse status sensing. Connect the RED cable to the positive lead of the reverse lamp power source.



8.Route the camera cable to the front of the car and connect it to the main unit. There are 2 pictures below for reference.

(NOTICE: Holes might need to be drilled to route the cable.)



Wiring Method A

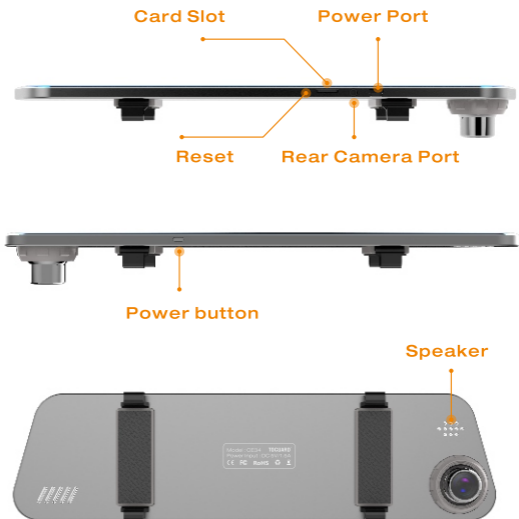


Wiring Method B

9.After the installation is completed, please start the engine and have a test run, making sure all functions are working.

NOTICE: The wiring and the installation requires certain manual work and some professional electrical skills, if you are not sure about it, please get some professional help.

INTERFACE AND BUTTON FUNCTIONS



BUTTON FUNCTIONS EXPLAINED

Power button

Power On/ Power Off

Press the power button for 3 seconds to power on or power off the unit.

Turn off / Turn on Screen Display

When the unit is on, briefly press the power button to turn off the screen display and enter the power saving mode (recording still takes place with the screen off);

Briefly press the power button or touch the screen to reactivate the screen display again.

Reset button

If the recorder crashes or malfunctions, press the [RESET] key to reset the unit and press the [POWER] button again to restart the device.

MAIN INTERFACE




1. Time & Date
2. Power Status

3. Setup Menu
4. File Playback

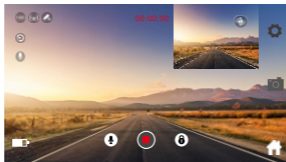
5. Record Mode















WORKING MODE

1.Video Recording Mode

If the unit is powered properly, when you start the car engine, the unit will automatically power on and enter video recording mode then start video recording.(The recording indicator  flashes)

Press the  "RECORD" to enter video recording live view, and press the recording indicator  to start/stop the video recording.



	Video Resolution		Video Mode Setup
	Loop Recording Time		Photo Mode Switch
	Audio Recording Status		Home Button
	G-sensor sensitivity		Power Status
	Parking Monitor Status	A B C	License NO Stamp
	HDR Status		Audio Recording Switch
00:03:46	Remaining Recording Time		Start/Stop Recording
	Picture In Picture Display Switch		Manual Lock

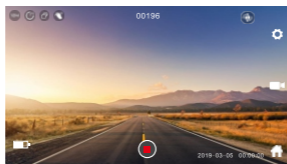
Video Mode Setup Menu:

When video recording is stopped, press the Video Mode Setup button to enter video mode setup menu to change to change video settings.

Resolution:	1080P/720P/480P	Adjust Front Camera Recording Resolution
Dual Rec	Close/Open	Turn ON/OFF to record both front and rear lens video.
Loop Rec	Off/1min/3min/5min	Adjust video length under loop recording
HDR	Close/Open	Turn ON/OFF High-Dynamic Range to enhance video quality.
Exposure	-3/-2/-1/0/1/2/3	Adjust exposure according to the conditions to adjust the picture brightness
License	Close/Open	Turn ON/OFF license NO stamp
Motion Detection	ON / OFF	Turn ON / OFF motion triggered recording.
Time Stamp	Close/Open	Turn ON/OFF Date & Time stamp
G-Sensor	Off/High/Middle/Low	Adjust G-sensor lock trigger sensitivity
Sound	Close/Open	Turn ON/OFF audio recording.
Parking Guard	Close/Open	Turn ON/OFF parking monitor.

2. Photograph

Press the Photo mode switch  to enter Photo mode, press the shutter button  to take pictures, press the  Home button to return to the main interface.














	Photo Resolution		Remaining Storage Counts
	Shutter Delay		Photo Mode Setup
	Continuous Shot		Video Mode Switch
	Anti-Shake		Home Button
	Shutter		Power Status

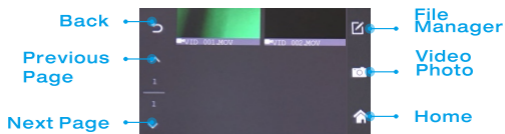
Photo Mode Setup Menu:

Press the Photo Mode Setup button to enter the photo mode setup menu to change photo settings.



Resolution:	12MP/10MP/8MP/ 5MP/3MP/2MP/1MP	Adjust Photo Resolution
Delay	Shot/2S/5S/10S	Choose shutter delay time.
Continuous Shot	Close/Open	Turn ON/OFF to take 3 photos in one shot
Anti-Shake	Close/Open	Turn ON/OFF anti-shake function
Watermark	Close/Open	Turn ON/OFF time stamp in photo

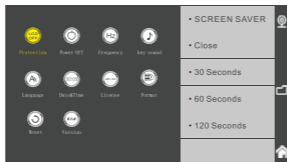
3. Playback

Press “Files”  on the home page to enter Playback mode to view all recorded files. to view all recorded files, as below:



4. Settings

Press “Settings”  to enter the settings menu, and choose the mode specific menu. Press “Home”  to return to home interface. As below:



General Setup Menu

Screen Saver	OFF / 10s / 30s / 60s	Set time for the screen saver to activate.
Auto Power Off	Off/1min/3min/5min	Set the time for the camera to automatically power off to save energy, after the camera is idle for set time, it will power off.
Frequency	50Hz / 60Hz	Adjust light frequency according to local regulation.
Key Sound	Close/Open	Turn ON/OFF button operation sound.
Language	English/Chinese	Change device menu language.
Date/Time	N/A	Change Device time and date settings.
License	N/A	Setup the plate number stamp.
Format	Yes/No	Format the memory card.
Reset	Yes/No	Reset the device to factory default setting.
Version	N/A	Check device firmware version.

FEATURED FUNCTION

Cycle Recording/Loop Recording: This function allows you to set video file length to 1/3/5minutes, Select a value to activate loop recording, so when storage fills up, it will automatically loop back to the earliest file and record over it.

eg: If set to 3 minutes, then the unit will keep recording video in 3 minute clips. When the card is full, the unit will keep recording and overwrite the earliest unprotected video file and so forth.

Parking Guard / Parking Monitoring: It's used to protect your car after parking, with this function on, after you stop the car and the unit turns off, it stays in standby, when unit detects a significant shock, it will automatically turn on and take a 30 second short video, then shut down automatically. Video recorded by the parking monitor will be protected and will not be overwritten by loop recording.

G-Sensor Lock: This unit has a built-in Gravity sensor. In the event of a serious vehicle collision or rapid acceleration deceleration, the G-sensor will be triggered and immediately lock the current video file so it will not be overwritten by loop recording. The G-sensor supports sensitivity adjustment. You can change any settings in the menu according to your actual requirements.

Screen Saver: Set the time after which the unit will automatically turn off the screen. Used to save power and reduce distraction while driving.

For example, it is set to 30 seconds, if the unit is not operated in 30 seconds, the unit will automatically turn off the screen while the recording is still working, operating any button or touching the screen will reactive the screen display.

CAMERA SPECIFICATION

Screen Size	5 inch
Video Resolution	1920*1080P/1280*720P/VGA
Video format	MOV
Photo format	JPEG
Microphone	Built-in
Speaker	Built-in
Working Voltage	DC 5V/1.5A
Storage	Micro SD card 8 ~ 32GB,(Class 10 or above)
Battery	Lithium-ion polymer battery
Operating temperature	(-20°C to +60°C)
Function Feature:	
Front + Rear Dual Recording	Front: 1080P + Rear: VGA
Picture in Picture Display	Yes
Language	English/ Chinese
Loop Recording	Yes
Auto power off	Yes
Parking monitoring	Yes
G-sensor	Yes
Automatic reversing view	Yes
Touch screen	Yes
Sound recording	Yes
File compression	H.264

COMMON PROBLEMS AND SOLUTIONS

- **Recorder shows memory full, unable to loop video, etc.**

1. If the new memory card is used for the first time on the machine. Please format the memory card in the settings menu. Or if the memory card is used on other devices, it needs to be formatted in the settings menu too.
2. Check whether the sensitivity of the G-sensor is set too high. If the sensitivity is too high, the bumping and shaking of the camera will cause the file to be locked. Locked files cannot be overwritten. If the locked file accumulate, there will be insufficient memory available to loop record. When parking monitoring is turned on, shaking will also cause too many stray files, which will also affect the reading and writing of the memory card.)

- **The device will automatically turn on or turn off.**

1. Please check whether the parking monitoring function is on. With parking monitor on, the device will automatically turn on and record when it detects a collision or shaking.
2. When the car battery voltage is too low, or the car charger does not supply power to the machine, or the battery of this unit is too low to charge.

- **The rear camera does not display an image**

1. Please check if the AV plug is properly connected and the cable is plugged in correctly.
2. Try to disconnect the camera and clean the connector with some medical alcohol and connect it again.

- **Screen operation or button reaction is slow during recording**

1. Please check whether the memory card used is a high-speed card (Class10), If you use a non-high-speed card, problems such as missed seconds, video playback jams, screen display Coloured stripes, and crashes may occur.
2. Reset the camera if necessary.

- **The touch Screen operation is not accurate or the device keeps “operating itself”**

1. The power supply is not stable or static electricity is building up, please turn off the car and restart later.
2. Replace the cigarette lighter power adapter.

- **While I am reversing, the rear lens will show coloured stripes, image distortion or a blank screen.**

1. Please check the rear lens connection. The right connection is: Red cable connect to the positive lead of the reverse lamp(DC 12V)
2. Check if the DVR battery is low. under low battery the rear camera might not be powered correctly, please connect the power adapter.

- **The camera crashes or malfunctions after certain operations or changes to settings**

Unsuitable settings or operations might cause the system to crash, you can use a pin to press the RESET button to reset the camera to the factory default settings.

If you have any other questions or problems, please feel free to contact us:

[USA&Canada support@toguard.cc](mailto:support@toguard.cc)

[Europe eu.support@toguard.cc](mailto:eu.support@toguard.cc)

[UK uk.support@toguard.cc](mailto:uk.support@toguard.cc)

[Australia au.support@toguard.cc](mailto:au.support@toguard.cc)

We have a professional team at your service, and your satisfaction is guaranteed.

