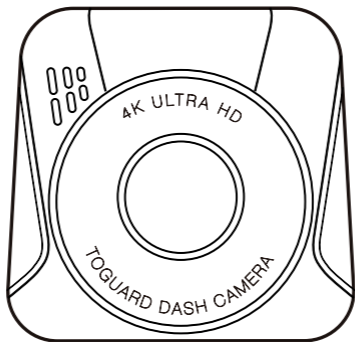# Toguard CE56
Ultra HD 4K Dash Camera
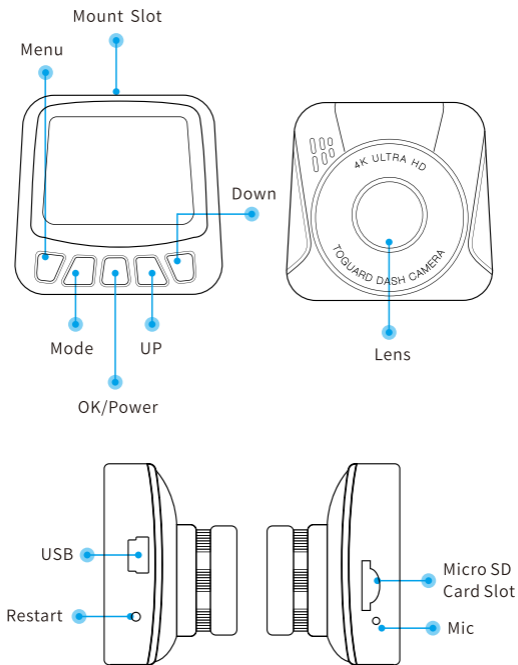
TOGUARD®

Important Notice

- This product is intended for use in motor vehicle only. Do NOT install the camera where it might block the driver's view of road (including the mirrors) or the deployment of the airbag.

- Before using this device, please insert the memory card first, and need to format micro SD card to FAT32 format on PC firstly, then format the memory card in camera menu.

- This camera records video at high resolution, Be sure to use high speed Micro SD card, Class 10 or above is recommended, 16GB or 32GB cards are recommended.

- For safety reasons, this camera has a small built-in battery, It's used only for saving the video file after external power supply cuts off (car turns off).

- Be sure the camera lens is clean and there is nothing blocking the lens.

- DO NOT leave the camera in direct sunlight for a long period of time or where the temperature could go above 140°F(60°C)

- In order to get best signal, The GPS module needs to be installed near the edge of the windscreen.

- The GPS module should be installed with the sticker side up. The sticker side should always face the outside to get better reception.

Interface and Button Function

Mount Slot

Menu

Down

Mode

UP

OK/Power

Lens

4K ULTRA HD

TOGUARD DASH CAMERA

USB

Restart

Micro SD Card Slot

Mic

Button Function

🗒	• In Video / Photo / playback mode (video /playback stopped), short press to access the menu settings for that particular mode, and press twice to access System Setting Menu. • Return to the previous directory when set up menu.
Ⓜ	• In standby, press to switch mode between Video / Photo / Playback
⏻	• In Video Mode, short press to start / stop video recording. • In Photo Mode. short press to take a photo. • In Setting Menu, short press to confirm selection and adjustment. • In Playback short press to select and play recorded files • In Playback, short press to stop/start playing video. • Long press to turn off/on the dash cam.
◁	• In Setting Menu. Short press to select option and adjust values. • In Playback, short press to select media files. • In recording, short press to lock/unlock the video; In playback model, long press to lock/unlock the recorded video
▷	• In Setting Menu. Short press to select option and adjust values. • In Playback, short press to select media files. • During video recording, short press to turn on/off audio recording.

Standby: The camera is on, and no recording or playing in progress.

Set up and Installation

Cigarette lighter Socket
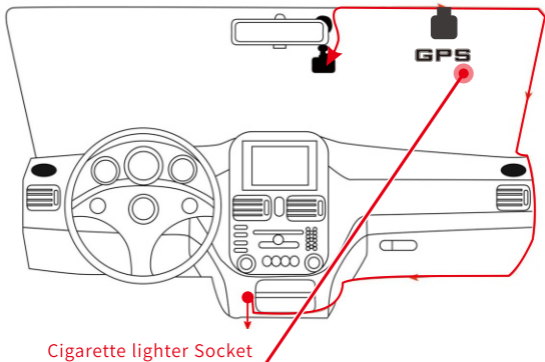
* The GPS module should be installed on the top edge of the windscreen, fixed with sticker.

1. Use the suction cup mount to install the CE56 dash cam on the windshield, recommended place near the rear view mirror, adjust the lens angle for best coverage.

2. Plug the included power adapter into the car cigarette lighter socket, the indicator will light up meaning power is on.

3. Connect the power cable to the camera. For better looking, route the excess cable alongside the interior trim as the diagram shows.

4. While routing the cable, make sure the GPS module is in right place: The module should be installed near the top edge of the windscreen with the sticker applied to the windshield. The stamped side of the module facing the inside of the car, and the sticker should always be facing outside it the car.

5. After installation, please start the engine, and do a bench test to make sure all function works well.

Operating Mode

The CE56 operates in 3 modes: Video Recording Mode, Photo Mode and Playback Mode, These modes also have menu to help you configure recording and taking photos,

Press [icon] button to switch between different modes and access the mode you want. Watch the icon on top left corner of the screen for each mode.

A. Video recording Mode

The camera will automatically enter Video Recording Mode and start recording when connected to a car charger and power on. A Red dot flashing on the top left corner indicates recording is in progress. Press the [icon] to stop recording, or start recording again.

5

1. Video Mode Icon
2. Loop Recording Status
3. Exposure Value
4. Audio Recording Status

5. Video Resolution
6. Memory Card Status
7. Power Status
8. Date & Time

In all 3 operating mode, you can press the [icon] button once to access the menu settings for that particular mode, and press twice to enter System Setting Menu.

The System Setting Menu is common to all modes, See Page 9-12. Press [icon] and [icon] to scroll through the various setting options and press [icon] to select and confirm selection, Press [icon] again to exit the setting menu.

Video Recording Menu

	Video Settings
Video Resolution	>
Video Quality	>
Loop Recording	>
Travelapse	>
White Balance	>
	1/2
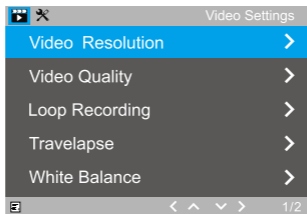
**Video Resolution:** Adjust recording video resolution, 4K 25fps / 2.7K 30fps / 1080P 60fps / 1080P 30fps / 720P 30fps available.

Video Quality: Adjust video quality, General / Good / Very Good available.

Loop Recording: This function allows you to set video file length to 1/2/5minutes, Select a value to activate loop recording, so when storage fills up, it will automatically loop back to the earliest file and overwrite it.

Travelapse: With this function,the video recorded will be accelerate by 3X/6X/9X .

White Balance: Adjust white balance according to the surroundings to get best color effect, We recommend keep it on Auto, Automatically / Sunny / Cloudy / Incandescent / Fluorescence available.

Video Settings
Contrast
Exposure
Power-On Recording
Timestamp
Plate Number Stamp

2/2
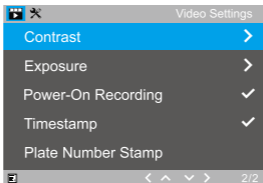
Contrast: Adjust video contrast to enhance video quality.

Exposure: Adjust exposure value to adjust the brightness of the video.

Power-On Recording: Turn on this function so when the car starts and camera powers on, it will automatically start video recording.

Time Stamp: Enable/Disable the date and time marks in video files.

Plate Number Stamp: With this function on, your plate number will be marked in the video files,The plate number can be edited in the menu.

B. Photo Taking Mode

The CE56 camera can operate in Photo Taking Mode, and take HD photo up to 12 Mega pixels,
To take a photo:
Simply power on the CE56 camera. Press ⬜ to select Photo Mode, and Press ⬜ to take a photo.
Like the Video Recording Mode, you can press the ⬜ button once to access the setting menu for Photo Mode, Press MENU twice to enter System Setting ⬜ .
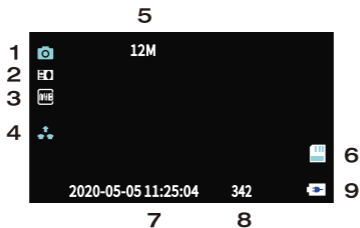
1. Photo Taking Mode Icon	6. Memory Card Status
2. Exposure Value	7. Date & Time
3. White Balance	8. Remaining Photo Storage
4. Photo Quality	9. Power Status
5. Photo Resolution	

Photo Mode Setup Menu
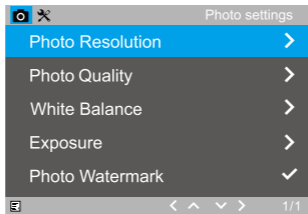
Photo Resolution:

Set the photo resolution, 12 MP/ 8 MP/ 5 MP/ 2 MP available.

Photo Quality:

Adjust photo quality, General / Good / Very Good available.

White Balance:

Adjust white balance according to the surroundings to get best color effect, We recommend keep it on Auto.
Automatically / Sunny / Cloudy / Incandescent / Fluorescence available.

Exposure:

Adjust exposure value to adjust the brightness of the photo.

Photo Watermark:

Enable/Disable the date and time marks in photos.

C. Playback Mode

This mode allows you to play back recorded video or view photos, and manage the recorded files.

1. Stop video recording, and press ⬛ button twice to enter Playback Mode.
2. Use ⬛ and ⬛ button to scroll through the recorded files/ photos, and press ⬛ to view recorded video.
3. Press ⬛ button to delete the selected file.

D. System Setting Menu:

In video or photo mode, press ⬛ button twice to access System Setting Menu. The TOOL icon is highlighted in the upper left corner.

	System Settings
Parking Monitor	❯
G-Sensor	❯
Recording Sound	☐
Volume	❯
Keytone	✔
	‹ ⌃ ⌄ › 1/4
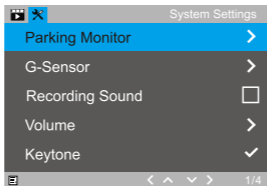
Parking Monitor

OFF / Low / Middle / High

It's used to protect your car after parking, with this function on, after you stop the car and the camera turns off, it stays standby, when camera detects shaking, it will automatically turn on and take a 15 seconds video, then return to standby automatically. The detection sensitivity can be adjusted.

G-Sensor:

OFF / Low / Middle / High

G-sensor will detect significant or sudden shock and movement then the camera will automatically locks current recording file from loop recording, detection sensitivity can be adjusted accordingly.

Recording Sound:

Turn ON/OFF audio recording in video.

Volume:

Low / Middle / High

Adjust camera speaker volume

Keytone:

Turn ON/OFF button operation prompts.

		System Settings
Light Frequency		›
Cardinfo	1.0/14.9G	›
Delay Shutdown		›
Format		
Language		✓
	‹ ∧ ∨ ›	2/4
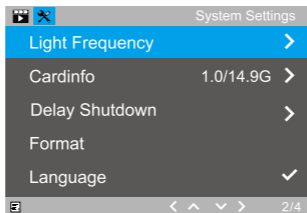
Light Frequency:

Auto / 50Hz / 60Hz

Set light frequency according to local regulation.

Card Info

a.Available / Total

Remaining available storage / total storage on the memory card.

b.Locked Files Occupied

Storage space taken by locked files

c.Card Speed Test

Press to run speed test of the memory card.
Recommended card write speed should be over 10MB/S.

Delay Shutdown

OFF / 5S / 10S / 15S

Adjust the time delay when the camera will power off after external power supply cuts off.

Format

Choose to format the memory card.
Recommended to format the memory card if the memory card is never used on this camera before.

Language

Adjust menu language.
English / French / Germany / Italian / Spanish / Japanese

		System Settings
Date & Time		
DST		
Screen Saver	1.0/14.9G	›
Restore Factory Settings		
GPS Function		✓

3/4
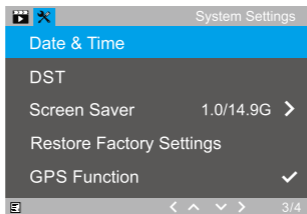
Date & Time

Set the system date and time.

Change the date and time by using the UP and DOWN button, then press (⊙) to confirm adjustment.

DST

Daylight saving time. You can turn on/turn off this function according to local demand.

Screen Saver

OFF / 10S / 30S / 60S

Set the time to automatically turn off the LCD display after no operation.

Restore Factory Settings

Reset all settings back to factory default.

GPS Function

Turn ON / OFF all GPS related function (Speed Display / Track Logger /GPS Time).

For more details about GPS function, check the details in the next section "Featured Function"

13
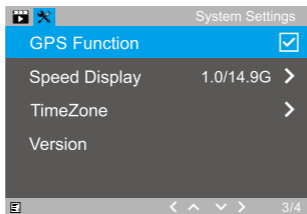
Speed Display

OFF / MPH / KM/H

Turn ON / OFF current speed display on screen, active only when GPS module is connected and GPS signal is good.

The speed can be displayed in MPH or KM/H.

NOTICE :

The speed displayed is calculated based on the average speed of a certain time period before that. There might be certain error under low speed. It's for reference only.

Time Zone

Choose the Time Zone according to your current location. Make sure you choose the correct Time Zone.

Version

Check camera firmware version.

GPS Function

The CE56 comes with GPS function and external GPS module.
With the GPS module connected, the CE56 will release several
additional functions: Track Logger / Speed Display / Time Sync

Track Logger:

With the GPS module connected and GPS function on, the CE56
camera will record real time GPS coordinate in the video file, so you
can playback the driving path as well as the video.
(The GPS playback needs customized player "Dash Go", for
windows operating system only.Please download the
"Dash Go" software from our official website
" www.toguard.cc" like the picture shows below.)
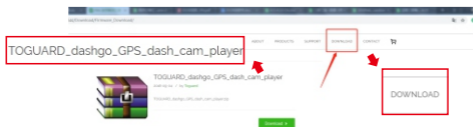
Speed Display:

Based on the GPS location changes in certain time and average
speed of a certain time period, the camera will calculate current
moving speed and display it on screen for your reference.
NOTICE :
The speed displayed is calculated based on the average speed of a
certain time period before that. There might be certain error under
low speed. It's for reference only.

Time Sync:

With GPS module connected, the camera will automatically
synchronise time when GPS signal is strong and GPS located
successfully.
(Time Sync function requires correct Time Zone setup to work,
please make sure you setup the right time zone.)

Specification:

Model	Toguard CE56
Image Sensor	High Resolution CMOS Sensor
Screen	2 inch LCD Display
Lens	170°High-Resolution Wide Angle Lens
Video Resolution	4K 25fps / 2.7K 30fps / 1080P 60fps / 1080P 30fps / 720P 30fps
Video Format	MP4
Video Coding	H.264
Video Mode	Normal / Loop Record
Picture Format	JPG
Photo Resolution	12MP/8MP/5MP/2MP
Loop Recording	1 / 2 / 5 minutes
Power on recording	Supported
G-Sensor Lock	Supported
Language	English / French / Germany / Italian / Spanish / Japanese
Audio Recording	Built-in microphone, On / Off optional
Storage	Support Micro SD Card(32GB Recommended)
USB interface	Mini USB
Operating System	Windows 7/10 or MAC
Internal Power	Built-in Li-ion Battery
External power supply	DV 5V / 2A
Storage temperature	-4°F~140°F(-20°C~60°C)
Operating temperature	14°F~122°F(-10°C~50°C)

Common Problems and Answers:

Q: Even though set the screen saver, but the screen will randomly

A: The power supply might not be stable, please change another car charger to try.

Q: Why dash cam drain car battery?

A: Please check whether the cigarette lighter still be on after you turn off car engine.

Q: The dash cam will stop automatically while recording.

A: 1. Check whether the memory is full.
2. Check whether the loop recording function is turned ON.
3. Check whether the Micro SD card is high-speed above C10
4. Check the memory card, there might be too many locked video that the loop recording won't work right.
5. Check the car charger connection status, if the connection is loose, the power supply is not stable, the camera will automatically turn off.

Q: The camera powers on automatically.

A: That could be the parking monitor function being triggered, check the setup menu.

Q: The camera keeps starting and off

A: That could be the parking monitor function being triggered, check the setup menu.

Q: If the video played on the computer is somehow not fluent or jammed.

A: 1.Try to play the video with different video players, like : Potplayer or VLCplayer.

2.Format your Micro SD card in the camera.

3.Run speed test on the memory card to make sure the memory card fits the requirement: Write Speed is over 10MB/S.

Q: Why it doesn't display the menu of the system when I press the menu button?

A: Please press power button to pause recording firstly.

Q: 3M tape cannot attach on the windshield well?

A: Please contact our support to get new 3M tape.

Q: Without external power supply, the camera only lasts very short time,or it just can't turn on.

A: The built-in battery is low capacity for safety reasons, and the battery is used to save the video and parking monitor only. It is not designed to work without external power supply.