

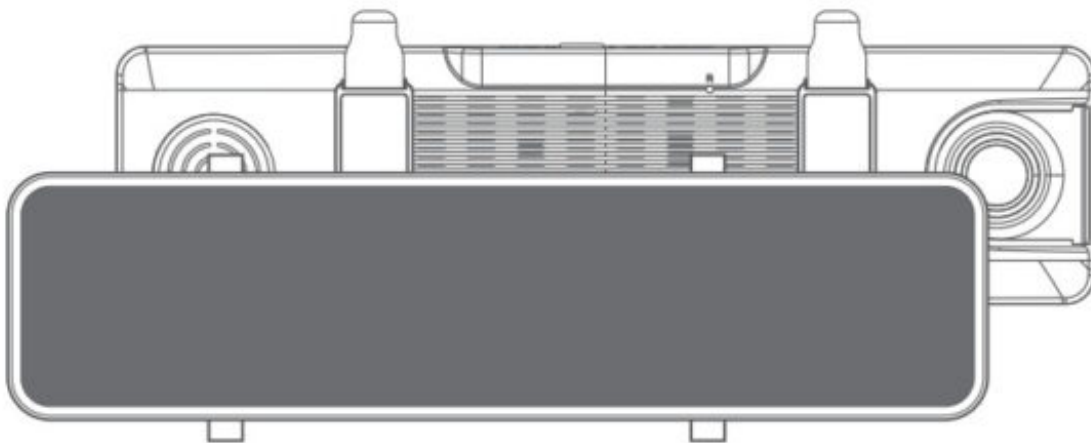


TOGUARD RM05 Touch Screen Streaming Video Rear View Mirror User Manual

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TOGUARD[®]

RM05 Touch Screen Streaming Video Rear View Mirror
User Manual



If you have any other questions or problems, please feel free to contact us at DC@yoomail.com
We have a professional team at your service, and your satisfaction is guaranteed.

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Important Notice:

- NOTICE: Due to the high power consumption of this unit, it should always be connected to an external power supply. This unit will not power on without an external power supply.
- 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 need to format the micro SD card to FAT32 format on the PC first, then format the memory card in 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 128GB cards are recommended.
- We do recommend doing a benchmark test and making sure the unit is working perfectly before installing the unit on your vehicle.
- Be sure the lens is clean and there is nothing blocking the lens.
- Make sure you are using the originally included power adapter to power the unit.
- DO NOT leave the device in direct sunlight for a long period of time or where the temperature could go above 170°F(75°C).
- The GPS function has to work with the customized GPS module, please download "player". (Please contact the seller for details.)

Installation Guide

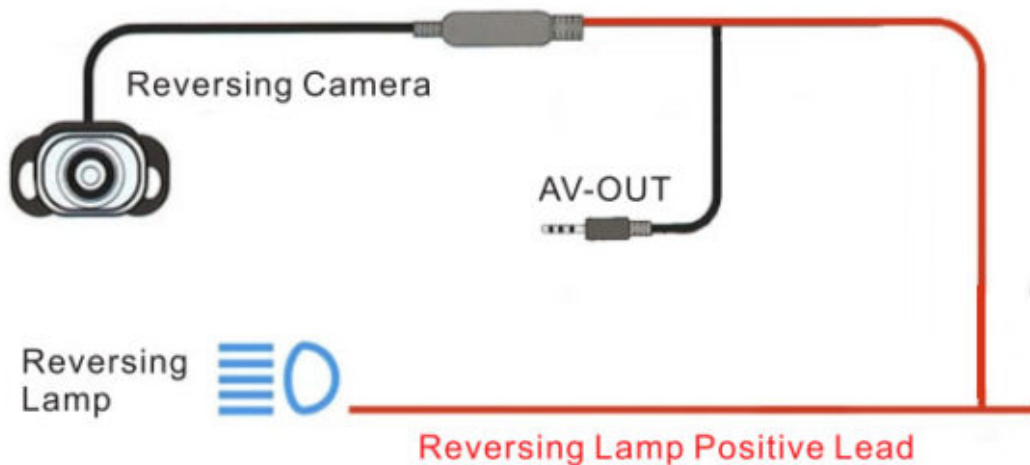
1. Before installation, please insert a high-speed memory card in the unit and format the memory card in the unit set, also do a simple test to make sure the unit is working perfectly.
2. Mount the mirror over the original rearview mirror and use the included rubber ring to fix it. Make sure the mirror is in the right place and secured.
3. Adjust the mirror angle according to your driving position, make sure the mirror is right in 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 routes the power cable along with the interior trim board, you can route it as indicated below, and hide the excess cable in the gaps for good-looking.



6. The rearview camera should be installed at the rear end of the car, normally the best place is above the number plate. The camera can be fixed with a sticker or a screw. You can see the diagram for reference.
(Note: Please check whether the backup camera is installed upside down before you install screws.)
7. The excess RED lead near the rearview camera is used for reverse status sensing. Connect the RED cable to the positive lead of the reverse lamp power.



8. Route the backup camera cable to the front of the car and connect it to the main unit. There are 2 pictures for reference. (NOTICE: Holes might need to be drilled to pass the cable and please check whether the cable for the backup camera is long for your car before you install it.)



Wiring Method A



Wiring Method B

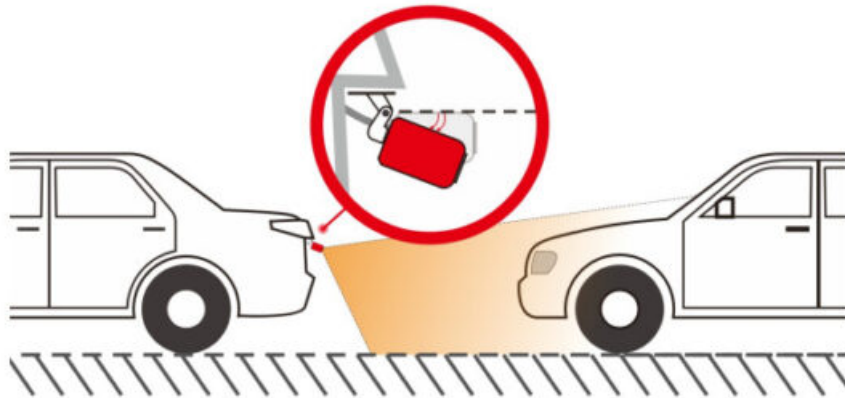
9. After the installation is completed, please start the engine and have a test run, making sure all functions are working.

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

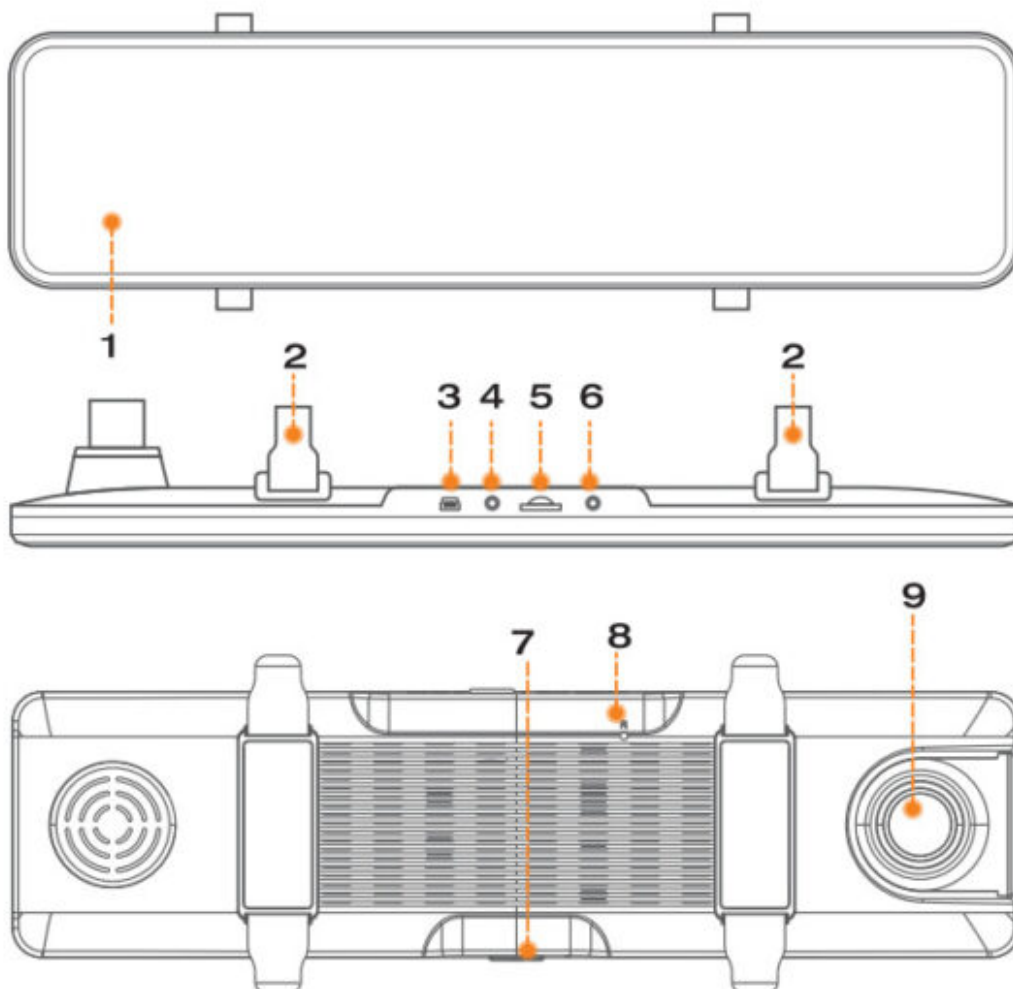
Adjust the Reversing Camera

Adjust the reversing camera angle, the best angle is the camera can cover the rear of the car and the ground surface under the rear end.

Notice: When the car is in reverse, the rear camera will automatically display in full screen, and turn to the lowest angle, so you can see the ground surface under the rear end while reversing.



Interface and Button Functions



1. Touch screen	6. GPS interface(Optional)
2. Securing clip	7. Power
3. Mini USB	8. Reset
4. Rear camera interface	9. Lens
5. Memory card slot	

Power button

NOTICE: Due to the high power consumption of this unit, it should always be connected to an external power supply. This unit will not power on without an external power supply.

Power On/ Power Off

Long press the power button for 3 seconds to power off the unit.

Turn off/Turn on Screen Display

When the unit is on, short press the power button to turn off the screen display, enter the power saving mode(the recording is still working with the screen off); Short press the power button or touch the screen to reactivate the screen display again.







Reset button

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

The main interface and Operations

When the unit is powered properly, when you start the car engine, the unit will automatically power on and start recording.



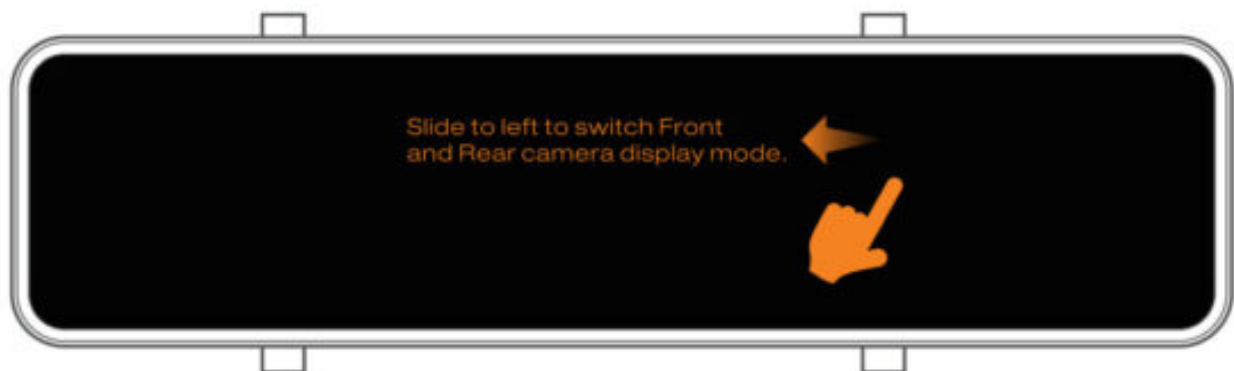
	Click to turn ON/OFF audio recording in the video.
	Click to take a photo.
	Click to start/stop video recording.
	Click to enter the Setup menu.
	Click to enter the camera playback interface.
	Click to manually lock the current video.

Shortcut Operation

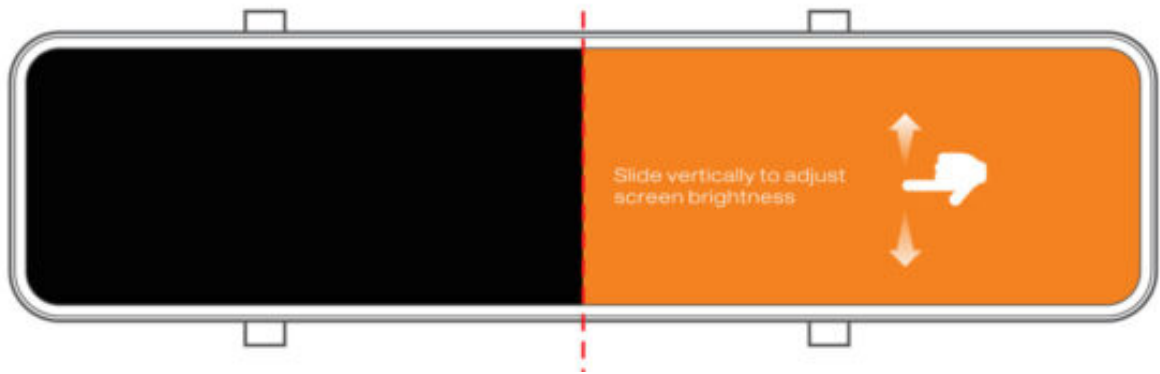
In the recording interface, there are several shortcut operations:



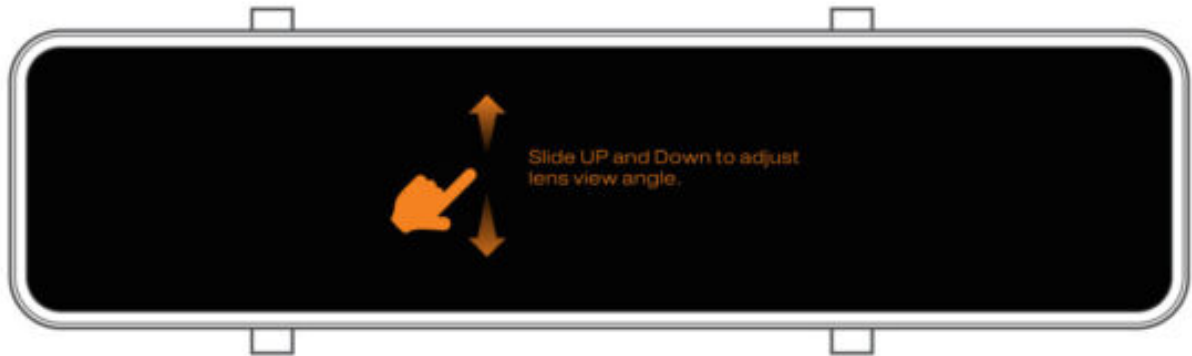
1. In the recording interface, slide horizontally to the right to enter Playback Mode.



2. In the recording interface, slide horizontally to the left to switch Front and Rear camera display modes.

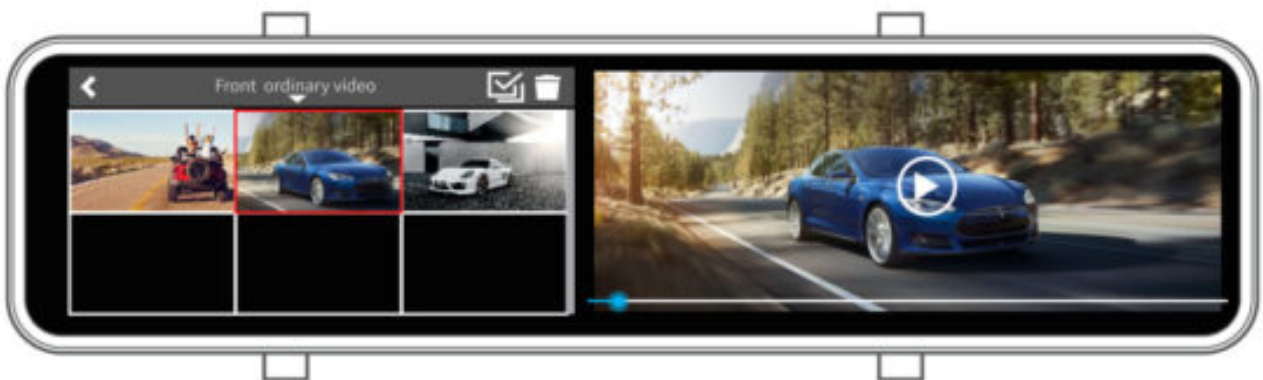







3. In the main recording interface and on the Right side of the screen, slide vertically up and down to adjust screen brightness.



4. In the main recording interface and on the left side of the screen, slide vertically up and down to move lens view angle.

Playback Mode



	Exit
	Folder Selection
	Multiple Selection
	Delete
	Playback

Setup Menu

Setup	Option	How it works
Resolution	4K/2K 1080P	Adjust video resolution.
Loop Record	1MIN/3MIN/5MIN	Adjust Loop Recording video clip length.
Record Audio	OFF / ON	Turn-ON / OFF audio record.
Date stamp	ON/OFF	Video watermark switch.
G-Sensor	OFF / Low / Middle / High	Adjust G-sensor lock sensitivity.
Parking Guard	OFF / ON	Adjust the Parking Guard switch.
License	OFF / ON	Setup your car license plate number, and watermark in the video.
Auto Power Off	OFF/1MIN/3MIN/5MIN	Automatic shut-down
Screen Saver	OFF/A	Setup the screen saver activated time.
Power Frequency	50Hz / 60Hz	Setup local power frequency.
Back Mirror	OFF / ON	Turn-ON / OFF streaming media mode.
Speaker	Mute / Low / Middle / High	Adjust the speaker volume.
Boot Sound	OFF / ON	Turn-ON / OFF system boot-up notification.
Key sound	OFF / ON	Turn-ON / OFF operation prompt.
Language	English/Chinese/ Japanese/Korean	Setup the system menu language.

Setup	Option	How it works
Date/Time	Adjustable	Set up local date and time.
Time zone	Adjustable	Setup the time zone according to your location.
Speed Unit	KM/H or MP/H	Speed unit adjustment.
GPS test		Test GPS signal.
Format	Cancel / Confirm	Format the memory card and delete all data.
Default	Cancel / Confirm	Restore the mirror to factory default status.
ASR	OFF/ON	Intelligent voice assistant.
ASR	Ten voice commands	Turn on screen, Turn off-screen, Video start, Video stop, Turn on audio, Turn off audio, Take a photo, Show the front camera, Show the rear camera, Show both cameras, Lock the video, Turn on WIFI, Turn off WIFI
Version		Check the software version.

Featured Function

Dual Recording

The RM05 mirror comes with a dual-channel lens, they can record video in Front 4K(3840*2160)+Rear 1080P(1920*1080) simultaneously.

Loop Record

This function allows you to set video file length to 1/3/5 minutes, Select a value to activate loop recording, so when storage fills up, the camera will automatically loop back to the earliest file and record over it. EG: If set the time to 3 minutes, then the unit will keep recording the video in 3 minutes clips, When the card is full, the unit will keep recording and overwrite the earliest unprotected 3 minutes video file, and so forth.

G-Sensor

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.

Parking Guard

The Parking Monitor is used to protect your car after parking, with this function on, after you stop the car and the unit turns off, it stays on standby, when the unit detects significant shock, it will automatically turn on and take a 20 seconds short video, then shut down automatically.

Video recorded under the parking monitor will be protected and will not be overwritten by loop recording.

Screen Saver

Set the time after which the unit will automatically turn off-screen. Used to save power and reduce distraction while driving. For example, it is set to 3 minutes, if the unit is not operated in 3 minutes, the unit will automatically turn off-screen while the recording is still working, and any button operation or touch on the screen will reactivate the screen display.

Streaming Media

The RM05 mirror features the Back Mirror function; with this function on, the camera will display the rear camera view in full screen as default. It will work as a real rearview mirror.

GPS Function

With the GPS module connected, the RM05 can display the current speed on the screen. You can enter the setup

menu and check the GPS signal status. The speed unit KM/H and MPH are optional.

NOTICE:

The speed displayed is an average speed calculated based on the locations and time, there might be certain errors, especially under low speed. It's for reference only.

GPS Logger

With the GPS module connected, the RM05 can record real-time GPS coordinates in the video file, it can be reviewed with the customized GPS player.

NOTICE

The GPS playback needs a customized player "GXPlayer"(Please contact seller support to get it), for the Windows operating system only.

Specification:

Modell	RM05
Screen display	12 inches (11.26 inches)
Screen resolution	1920×440
Lens	Front and rear wide angle lenses
Video resolution	Front 3840x2160P Rear.1920x1080P
Video format	MP4
Video encoding	H.264
Image format	JPG
Loop record	Built-in
Parking monitor	Built-in
G-Sensor	Built-in
Microphone	Built-in
Loudspeaker	Built-in
Storage	Micro SD card up to 128 GB (NOT included)
Operating temperature	-20~60 °C
Storage temperature	-30~ 70 °C
Operating humidity	15 ~65% RH
Power supply	DC5V / 3A

Common Problem and Solution

The recorder shows memory full, unable to loop video, etc.

1. First, when a new memory card is used for the first time on the machine. Please format the memory card to FAT32 format on the PC then format it in the camera.If the memory card is previously used on another type of device, it needs to be formatted when used on this camera. Or change to another new SANDISK 32G Micro SD CARD.
2. Check the sensitivity of the G-sensor, If the sensitivity is too high, the bumping and shaking of the camera will

trigger the G-sensor, and the file will be locked. Locked files cannot be overwritten. If the lock file is accumulated, there will be no memory card to loop the record. When the parking guard is turned on, shaking will also cause too many stray files, which will also affect the reading and writing of cards.)

The device will automatically turn on or turn off.

1. Please format the memory card to FAT32 format on the PC then format it in the camera.
2. Please check whether the parking guard function is on. With a parking monitor on, the device will automatically turn on and record when it detects a collision or shaking.
3. Check the car charger connection status, if the connection is loose, the power supply is not stable, and the camera will automatically turn on and off.

The rear camera does not display the image

1. Please switch the camera display mode to double-check the rear camera status.
2. Please check if the AV plug is properly connected and the cable is plugged incorrectly.
3. Try to disconnect the camera and clean the connector with some Medical alcohol 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 Colorful stripes, and crashes may occur.
2. Reset the camera if necessary.


Change in the setting menus won't save.

1. After changing settings, please manually press the Power button to shut down, and the device settings will be saved.
2. When the device is abnormally powered off, the unit might not save the settings.
3. When the battery is too low, the customized settings might be lost.

Even though set the screen saver, the screen will randomly come back on.

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

Documents / Resources

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