

Dash Camera

Product Manual / Installation Instructions



Model # RVS-450C

What's in the Box?



- DVR unit
- Suction cup holder
- Car Charger
- USB cable

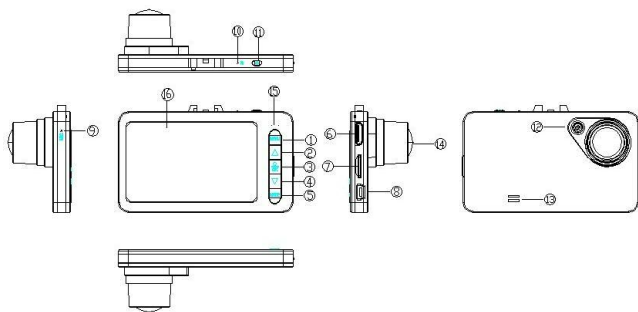
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Introduction

Please read all of the installation instructions carefully before installing the product. Improper installation will void manufacturer's warranty.

Thank you for choosing our Full HD1080P Parking Mode Car DVR. Please read this user manual carefully before operating the DVR.



Product Image and Feature Identification

- | | |
|--------------------------|------------------------|
| 1. Menu | 8. USB port |
| 2. Up (Mute On/Off) | 9. Microphone |
| 3. REC/Snapshoot | 10. Reset |
| 4. Down (Emergency lock) | 11. ON/OFF |
| 5. Mode | 12. IR LED |
| 6. HDMI port | 13. Speaker |
| 7. Micro SD card slot | 14. Lens |
| | 15. Charging Indicator |
| | 16. Screen |

Operations

Methods to Charge Battery:

1. Connect DVR to car charger through Mini-USB port, DVR powers on automatically to enter standby mode and start charging with red indicator light ON.

Once DVR been fully charged, red indicator light goes out.

2. Connect DVR to computer via USB cable, DVR power on automatically to enter mode choice between 'Mass Storage (MSDC)' and 'PC-Cam', press 'UP'/'DOWN' to choose the desired mode and 'REC/OK' button to enter your choice and start charging.

Once DVR been fully charged, red indicator light goes out.

For the power capacity in the battery, refer to the following icons:



Full



Middle



Low

Installation and Removal of Micro SD card

1. In the direction as indicated, insert the Micro SD card into the slot until it is held firmly.

2. To take the Micro SD card out, slightly press the Micro SD card to eject it out.

[Note] - Observe the direction to insert the Micro SD card; if the direction is reverse, the DVR and the Micro SD card may be damaged.

- When the Micro SD card is inserted into the DVR, the machine will set the Micro SD card as preset storage unit and the data in the original Micro SD card will be unreadable.
- If the Micro SD card is incompatible with the DVR, please insert the card again or replace it for retry.
- To protect the internal circuit, please make sure DVR is OFF before inserting micro SD card.
- 4GB-32GB/C6-C10 Micro SD card supported.

Operation Instructions

Turn On/Off DVR

1. Press the power key for 1 second to switch ON and hold for 3 seconds to switch OFF DVR manually.
2. Connect the DVR with car charger in the car. When car ignition been turned on, DVR switches ON automatically. When car engine shuts off or car charger been disconnected, DVR switches OFF with 10 seconds delay (as per setting).

System Setup

In Video or Photo mode, press the Menu->UP/DOWN->REC/OK key to enter the System Setup:

Operations

- **Parking Mode (Parking Surveillance):** Off/Low/Middle/High. With 'parking mode' set ON, DVR will provide 24/7 protection to your car, that is, after car parking, DVR will power on to start recording automatically if any external shocks to your car have been detected. 20 seconds later, DVR powers off again automatically. During this recording, DVR works with internal battery only. By selecting among options Low/Middle/High, you can set the sensitivity to trigger 'Parking Mode'.
- **G-Sensor:** On/Off. When G-sensor is ON, DVR will protect and lock the current video once G-sensor been triggered by instant impacts or shocks from traffic accident.
- **File Type:** Emergent Video/Common Video/Photo. Select the specified type of files to browse at playback mode.
- **Sounds:** Voice Recording On/Off, Key Sound On/Off and Volume.
- **Power Save:** Off/10 sec./30 sec. Select to screen off automatically after DVR continue recording for 10 sec. or 30 sec. As default, power save is 'Off' and DVR screen stays on indefinitely.
- **Date & Time:** Date and time adjustment.
- **OSD Language:** English/Russian/Korean/French/Portuguese/Chinese, etc.
- **Light Freq:** 50Hz/60Hz
- **Format:** Format the memory card. Select to format the memory card at the first use.
- **System:** Factory Reset / System Info (Version) / Card Info

- **Delay shutdown:** On/Off. As default, 10 sec. off delay is ON, to avoid any improper shutdown command caused by power interruption during recording.

Take Video and Set Video Menu

1. Take video

After power ON, DVR enters Video Mode as default, with icon displaying at the upper-left corner of screen. Press the 'REC/OK' key to start video recording after proper Micro SD card been inserted. During recording, the red icon flashes.

[Note]

- When the DVR is mounted on the windshield with car charger connected, it will power ON and start recording automatically once car engine starts up.
- During charging with car charger connected, it supports simultaneous recording.

2. Set Video Options

Press the Menu key to enter the setup of video options.

- **Resolution:** 1080P (30fps) / 720P (60fps)
- **Seamless (Loop Recording):** Off/1min/3min/5min. Select to store and cycle the video files by 1 min./3 min./5 min. per section.

Operations

- **Date Stamp:** On/Off. Select to stamp the date and time on video screen as watermark.
- **Motion Detection:** On/Off. The DVR can be set to record **ONLY** when motion is detected. This can be useful while your car is parked. In this mode, DVR will record automatically after sensing motion and for 10 seconds afterward. The DVR will return to standby mode if no other motion is detected.

Take Photos and Set Photo Menu

1. Take Photos

Press the power key to enter the video mode as default; press the Mode key to enter the Photo mode with icon displaying on the upper-left corner of the screen.

Then, hold the DVR firmly, then press REC/OK key to take photos. Photos will be stored into memory card automatically.

2. Set Photo Menu

During photo mode, press MENU and REC/OK key to enter photo menu settings.

- **Resolution:** 12M/10M/8M/5M/2M
- **Exposure:** EV -2.1/-1.0/0.0/+1.0/+2.1

[Note]: It's available to switch freely between Video Mode and Photo Mode.

Playback Mode

1. Browse Files

After the DVR powers ON and enter the VIDEO mode, press the mode key twice to enter the PLAYBACK mode, press the UP/DOWN key to browse the video files or Photo files.

[Note] If the File Type (in System Setting) is chosen to be 'VIDEO', then only VIDEO files (loop recording files) are available in PLAYBACK mode. If File Type is chosen to be 'EVENT', then only emergent video files are available in PLAYBACK mode. And 'PHOTO' File Type for photo files only browsing in PLAYBACK mode.

2. Delete and Protect

In playback mode, press the menu key to have the options **Delete** and **Protection Lock**. Press the UP/DOWN and REC/OK keys to select the options "Delete the current" and "Delete All", press the REC/OK to enter your choice. You may add a lock to the file. Locked file are protected to be important files and cannot be deleted until unlocking it.

Connection to computer via USB Cable

USB Backup Mode

You can upload your videos and pictures to your computer by using the provided mini-USB cable. Make the connection while DVR is powered off and the display will show 2 options:

Operations

MSDC / PC-CAM. MSDC = upload to computer, Highlight the MSDC by using the UP/DOWN keys and press REC/OK key to enter your choice. Your computer should now unload all photos and videos. [NOTE] To watch recorded videos, please transfer videos from memory card to the computer. This DVR is compatible with Windows XP, Windows 7/8 and Macintosh computers.

PC-CAM

Connect the DVR to computer while DVR is powered off and the display will show 2 options: MSDC / PC-CAM. PC-CAM = use the DVR as a web camera. Highlight the PC-CAM by using the UP/DOWN keys and press REC/OK key to enter your choice. You are now able to video chat with friends on Skype or Messenger.

Connection to TV via HDMI Cable

Connect DVR to TV via HDMI cable (if available). DVR screen will go black, and TV screen comes to show the playback files (Video or Photo). Press UP/DOWN key to select the desired file and REC/OK key to enter your choice.

Reset

During daily operations, improper operation or incorrect memory card probably causes DVR to freeze. Please press the small key RESET on the bottom side of DVR to power OFF the DVR. Power ON DVR manually and DVR will automatically restore the factory defaulted settings.

Specifications

Screen Size.....	2.7" 960x240 TFT-LCD
Lens.....	170° A+ classs Glass lens
OSD language.....	English/Russian/Chinese/etc
Video Resolution.....	1080P (30fps)/720P (30fps)
Video format.....	H.264 codec, AVI
Photo size.....	12M/10M/8M/5M/2M
Photo format.....	JPG
Memory Card.....	Micro-SD card, support from 4GB-32GB/C6-C10
Microphone/Speaker.....	Built-In
Power Frequency.....	50Hz/60Hz
USB.....	USB 2.0
Power supply.....	car charger, DC12V-24V adapt to 5V/1000mA
Battery.....	3.7V/300mAh
Operation System.....	Windows 2000/XP/Vista/Win 7/ Win8, MAC OSX 10.3.6 or above

[Note] We do our best to reflect accurate specifications above, however periodic updates and changes may occur after this manual was printed. We reserve the right to change the parameters without prior notification.

Disclaimer

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One Year Warranty

RVS SYSTEMS Inc. warrants this product against material defects for a period of one year from date of purchase. We reserve the right to repair or replace any such defective unit at our sole discretion. RVS SYSTEMS, Inc. is not responsible for a defect in the system as a result of misuse, improper installation, damage or mishandling of the electronic components. RVS SYSTEMS, Inc. is not responsible for consequential damages of any kind.

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear and tear, this damage is due to abuse, improper maintenance, neglect or accident; or the damage is due to use of the RVS SYSTEMS, Inc. system after partial failure or use with improper accessories.

Warranty Performance

DURING THE ABOVE WARRANTY PERIOD, SHOULD YOUR RVS SYSTEMS PRODUCT EXHIBIT A DEFECT IN MATERIAL OR WORKMANSHIP, SUCH DEFECT WILL BE REPAIRED WHEN THE COMPLETE RVS SYSTEMS, INC. PRODUCT IS RETURNED, POSTAGE PREPAID AND INSURED, TO RVS SYSTEMS, INC. OTHER THAN THE POSTAGE AND INSURANCE REQUIREMENT, NO CHARGE WILL BE MADE FOR REPAIRS COVERED BY THIS WARRANTY.

Warranty Disclaimers

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IT'S OUR GUARANTEE.**

