VERRATEK

Dash Cam

Model: C500

Installation and Owner's Manual

Contents of the Manual

COMPLIANCE WITH FCC REGULATIONS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)This device may not cause harmful interference, and

(2)This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

WARNING

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Introduction

Thank you for purchasing *our* dash camera which captures real time video of events happening outside your vehicle while driving. Mounted on your car's windshield, the camera records video in Full HD 1080P to ensure all the moments of your trip are recorded. This User Manual will give you step-by-step instructions and advice to help you get the best experience from your new device. Please read it carefully before using the dash camera.

Package Contents

The dash camera package includes the following items:

Dash camera
Mount base with suction cup
Car adapter

Features

Full HD 1080P recording @ 30fps resolution
2.0 inch color LCD screen
140 degree wide angle lens (diagonal)
Support memory card up to 256GB
Screenshot function lets you capture picture while recording
Emergency recording

Safety Precautions

These usage and safety guidelines are IMPORTANT! Please follow them carefully to ensure your own personal safety and help protect your dash camera from potential damage.

- For in-car use only.
- It's dangerous to operate the dash camera while driving. Please always operate the camera when the car stops.
- Avoid using or storing the dash camera in an extreme temperature environment.
- Only use the provided car adapter. Using the other car adapters may cause unknown problems.
- If your car's lighter socket continues to provide power after the engine is switched off, unplug the dash camera when the engine is off or idling to reduce unnecessary power consumption and prevent any unexpected problems.
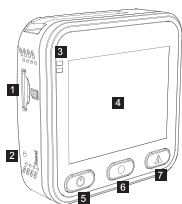
Mounting Location

- Never place the dash camera where the driver's view or deployment of airbags is obstructed.
- Mount the dash camera within range of the windshield wipers to ensure clear visibility in rain.

Backing up Data

- We will not take any responsibility for data loss or damage during operation. We strongly advise that you back up the important data in your memory card to a computer or other storage medium as soon as possible.
- To ensure Hi-Speed USB 2.0 data transfer rates when connecting your dash camera to a computer, please check that the computer has the 2.0 USB drivers or above.

1. Know your dash camera

1 MicroSD card slot
2 Reset button
3 Indication light
4 Display
5 Power/Menu button
6 Record/Next
7 Emergency recording /OK button

8 Mount bracket
9 HD out
10 Microphone
11 Micro USB Output
12 Lens
13 Speaker

2. Mounting the camera

1) Decide the mounting location--It's suggested to put the device around the area of rear view mirror to have better view.
2) Clean mounting area of the windshield thoroughly with a piece of clean cloth.
3) Attach the camera to the mounting bracket
4) Connect the camera with car 12V socket with the provided car adaptor.
5) Attach the device to the desired windshield location and then adjust the camera position to have the best view.
6) Please organize your car adaptor cables (Fig. B).

Fig. A

Fig. B
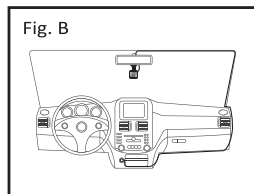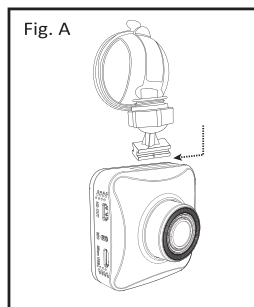
Note:
1) Make sure the lens is within windshield wiper area to have the clear video quality in raining days.
2) Don't install the device within the area of air safety bag. Our company is not responsible for any damage or injure caused by air safety bag.
3) Don't install the device on the area that will have any interference on electronic products.

Getting Started

3. Insert the MicroSD Memory Card into the card slot of the camera before you start recording.

Note:
1. Please use a MicroSD memory card with up to 256GB capacity.
2. Please insert a MicroSD memory card when the camera is off. Otherwise, the camera is not able to identify the memory card. When it occurs, please turn off the camera (pressing the power button for 5 seconds) and then turn it on again.

The following table shows approximate recording time based on capacity and resolution (for reference only):

Card Capacity	FHD1080P@30fps	720P@60fps	720P@30fps
8GB	1hr 10(±12) min	2hr 20(±12) min	2hr 20(±12) min
16GB	2hr 20(±24) min	4hr 40(±24) min	4hr 40(±24) min
32GB	4hr 40(±48) min	9hr 20(±48) min	9hr 20(±48) min
64GB	9hr 20(±80) min	18hr 40(±12) min	18hr 40(±12) min
256GB	37hr 20(±24)min	74hr 40(±24)min	74hr 40(±24)min

Note:
256GB memory card has to be formatted in this camera before use.

4. Turn your car power on and the camera is powered on accordingly. Take the camera off the bracket and start setting.

5. You will be asked to set the language, date, time and format the MicroSD memory card.

5.1 Please press ▢ to choose desired language and then press △ to confirm.

5.2 To set Date/Time, please press △ to change the Date/Time value, and then press ▢ to move to the next field.

5.3 To format the MicroSD card, press ⏻ to enter main menu interface, press ▢ until "⚙" is chosen, and then press △ to enter System Setup interface. Press ▢ multiple times until ⚙ is chosen, press △, then you will see two options. Press ▢ to choose ⚙ and confirm by pressing △. Press ⏻ twice to return back to recording screen. Press ▢ to start recording.

Format SD Card			Please wait
OFF 60Hz			
SD OFF			
🏠 ➡ ↵			🏠 ➡ ↵

5.4 To remove MicroSD card, push to eject the card out of the slot.

⚠ **WARNING!**
Do not remove the memory card during recording or shutdown to avoid damage to the memory card and the recorded videos.

**6. The dash camera will start recording when the car is powered. When the 12V car power is out, the dash camera will automatically save the current recording and power off.**

⚠ **WARNING!**
On some cars, the lighter socket continues to provide power after the engine is switched off. If this happens, unplug the camera when the engine is off or idling to reduce unnecessary power consumption and prevent any unexpected problems.

Recording Screen
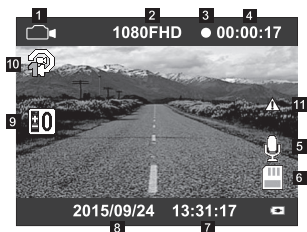
1 Video Mode
2 Video Resolution
3 Recording Indicator
4 Recording Time
5 Audio Status
6 MicroSD Card
    Indicator

7 Time
8 Date
9 Exposure Data
10 Loop Recording
11 Emergency Recording
    Indicator

Function Buttons in Different Modes

A   B   C

Mode	A ⏻	B ⬤	C ⚠
Recording Mode	Power ON/OFF* Screen Shot	Stop Recording	Emergency Recording
Standby Mode	Power ON/OFF* Setting Menu	Start Recording Switch to Photo Mode*	Emergency Recording
Photo Mode	Settings/Back	Take Photos Switch to Video Mode*	N/A
Setting Mode	Back	Next	OK or Changing Setting Values

Press and hold the button for 5 seconds.

LED Indicator Reference Chart

LED Status	Definition
Solid Red	Standby
Flashing Red	Recording

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With Loop Recording enabled (by default), the oldest files in the memory card will be overwritten by new video files when memory card is full. To disable Loop Recording, please enter setting menu to operate.

In emergency recording mode, the dash camera records data after the event occurs and protects the emergency file from being overwritten. The emergency file is saved in folder DASH \ MOVIE \ RO. The dash camera can save up to 30% of total files and an old emergency file can be overwritten by a new emergency file after the folder is full.

When emergency recording is activated, the emergency record ⚠ will show on the display while the current video file is protected.

Emergency recording will be activated under the following two situations.

1. **G-Sensor event recording:** During video recording, if the dash camera detects an impact, it will automatically activate emergency recording mode.

   If the G-Sensor sensitivity is set to "High Sensitivity", even minor shocks will be detected.
   If the G-Sensor sensitivity is set to "Low Sensitivity", it will only detect significant shocks.
   G-Sensor sensitivity can be adjusted or disabled in the Settings menu.

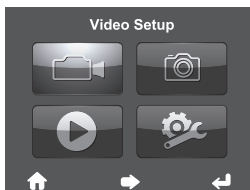2. **Manual emergency recording:** During video recording, press button " ⚠ " to activate the emergency recording function manually.

Note:
The oldest emergency files will be overwritten by new emergency files when the emergency folder is full.

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Menu Operation

Press ⏻ *(under standby mode) to enter setup menu and there are four sections for operation:*

Video Setup

1. Video Setup

Press ➡ *to choose the setting menu and press* ↵ *to confirm or change setting values.*

Resolution: Set the resolution/quality for video recording.
Available Options: 1080P at 30fps 720P at 60fps 720P at 30fps

Loop Recording: Set the recording length of each recorded video file.
Available options: 1 Min / 3 Mins / 5 Mins / OFF

EV(Exposure Value): Adjust exposure composition value to lighten or darken the preview screen.
Available options: +2.0 / +1.5 / +1.0 / +0.5 / 0 / -0.5 / -1.0 / -1.5 / -2.0

Motion Detection: If there is no moving object detected for 1 minute, the recording will stop automatically. The camera will start recording again when it senses the moving objects in front of the car.
Available options: ON / OFF

Movie Audio: Turn on/off the microphone during video recording.
Available options: ON / OFF

G-sensor: Adjust the sensitivity of the G-Sensor.
Available options: OFF / Low / Middle / High

Date Stamp: Put date information on the video.
Available options: ON / OFF

2. Photo Setup

Press ➡ to choose the setting menu and press ↵ to confirm or change setting values.

Image Size: Adjust the image size.
Available options: 16M / 12M / 10M / 8M / 5M / 3M / 2M / 1.3M

Image Quality: Adjust the image quality. The better quality, the larger image size.
Available options: Super fine / Fine / Normal

Sharpness of the Photo: Adjust the sharpness of the photo.
Available options: Strong / Normal / Soft

Adjust white balance.
Available options: Auto / Cloudy / Daylight / Fluorescent / Tungsten

Adjust ISO date.
Available options: Auto / 100 / 200 / 400

EV(Exposure Value): Adjust exposure composition value to lighten or darken the preview screen.
Available options: +2.0 / +1.5 / +1.0 / +0.5 / 0 / -0.5 / -1.0 / -1.5 / -2.0

Date Stamp: Put date information on the video.
Available options: ON / OFF

3. Playback

Press ➡ to choose the setting menu and press ↵ to confirm or change setting values.

Play current video.

Slide show pictures & files at chosen interval seconds.
Available options: 2 Seconds / 5 Seconds / 8 Seconds

Protect and protect files.
Available options: Protect current file / Unprotect current file / Protect all files / Unprotect all files

Previous file & next file.

Delete file.
Available options: Delete current file / Delete all files

Menu Operation

4. System Setup

Press ➡ to choose the setting menu and press ⏎ to confirm or change setting values.

Auto Power off: The camera will turn off automatically if the camera is standby for pre-set minutes.
Available options: OFF / 1 Minute / 3 Minutes

Beep Sound: Set the sound on/off when operating on the camera buttons.
Available options: ON / OFF

Setting date and time: Set the current date and time.

Set the on-screen display menu language.
Available options: English / French

Set duration for display to automatically turn off after recording begins.
Available options: OFF / 1 Minute / 2 Minutes

Frequency: Select the appropriate frequency to avoid flashing A/C light (60Hz for N.A. market; 50Hz for Asian and European market).
Available options: 50Hz / 60Hz

Format: Format the MicroSD memory card.
Available options: Cancel / Ok

Format Warning: It's suggested to format the microSD card regularly to release the storage capacity of the memory card.
Available options: OFF / 15 Days / 30 Days / 60 Days

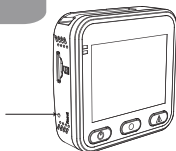**Default Setting:** Reset all settings to factory default settings.
Available options: Ok / Cancel

**Version:** Shows firmware version.

Reset the Device

If the device display is suspended and doesn't react to any button press, you can use a needle or sharp point object to press "Reset" button to reset the device.

Transfer Files to A Computer

To transfer files between the dash camera memory card (not included) and your computer:

Option 1: Take the MicroSD memory card out of the camera and use a card adaptor to transfer files to your computer.
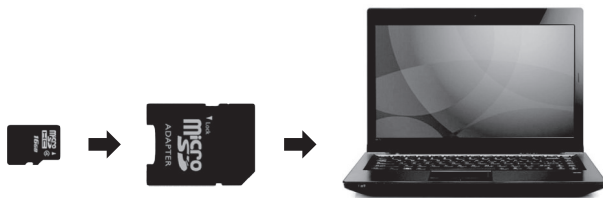
Option 2: Connect the camera with computer with the USB cable (not included), and you will see a new storage device in your laptop To transfer videos simply drag-and-drop files from the folder of the camera to the local driver of your computer.

WARNING!
To prevent data loss, always follow the proper removal procedures when disconnecting the dash camera from your computer.

Troubleshooting

If a problem occurs with your dash camera, please check the information listed below. If you

The camera can't be powered on

Check the followings:
1. Is your car power system on? If not, please turn on the car power.
2. Is the camera connected to a valid 12V socket with the provided 12V car adaptor? Is the connection solid?

My computer's operating system cannot detect my dash camera

Check the following:
1. Is your dash camera properly connected to the USB port? If not, unplug it and plug it in again. Make sure the USB port is connected on both ends, as shown in the User's Manual.
2. Is your dash camera connected to the Mac keyboard? If yes, unplug it and plug it into an available USB port on your Mac Desktop.
3. Is the computer's USB port enabled? If not, refer to the user's manual of your computer (or motherboard) to enable it.
4. Please check whether the memory card has problem. You can remove memory card and insert it into a card reader and then check whether your computer can detect your memory card.

I was using my dash camera, now no buttons are responding (hangs / lags / stalls)

1. Try unplugging the car adapter from your dash camera, then reconnecting it to your dash camera again. Please ensure you use the car adapter provided in the package because the car adaptor from your other devices may not be compliant with this dash camera.
2. Reset your camera. Please refer to "Reset" instruction in the manual.

My dash camera cannot read videos on my memory card

Edited and deformed videos may not display properly on your dash camera.

The camera shows "Card Error" or remind me to format the memory card

Please format the memory card as instructed. If the same phenomenon appears, it is possible that the memory card is broken or doesn't work for this camera. Please change to a new memory card and try.

Build-in Image Sensor	2.0 Megapixel Sony IMX323 Sensor
Angel of View	140° (Diagonal)
Shooting Resolution Rate	FHD 1920 x 1080 @ 30fps
Video Compression Format	H.264 MOV
HDMI Output	HDMI V1.3A
Screen Size (LCD Display)	2"
Storage Temperature	-40 °C to 70 °C
Operating Temperature	-20 °C to 65 °C
Operating Humidity	15% to 65% (RH)
Capacity of Memory Card	8GB to 256GB
Standard Working Voltage	DC 5V
G-Sensor	Yes
Data Transfer	USB2.0

Always keep your receipt as proof of purchase!

SCAN ME

1220   Printed in China