



User's Guide

Mini HD Car Camera Recorder with Smart Impact Sensor Model: CARCAM-SDEII

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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.

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

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For Customer Service: 888-977-3777

SecurityMan

4601 E. Airport Drive, Ontario, CA 91761, USA Tel: 888-977-3777 Tel: 909-230-6668 Fax: 909-230-6889 Email: info@securitymaninc.com Website: http://www.securitymaninc.com Copyright 2014 by SecurityMan v2.2

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Introduction

The SecurityMan **CARCAM-SDEII** is an easy-to-use high-definition (1080P Full HD) car cam recorder with a 1.5" LCD display and impact sensing recording. It records both audio and video with time & date stamp which can be used to pinpoint exactly when an event occurred. The events are recorded to a Micro SD card which can be used as evidence for auto insurance company if there are any legal complications during an insurance claim. The **CARCAM-SDEII** is perfect for all motorists and it is budget-friendly.

Features

- HD video quality and real time recording (30fps)
- Auto recording, video motion detection recording, and manual recording (video or snapshot) modes
- Smart impact sensing recording (non-overwritable video) and locks up current and post impact sensing video clips
- Records up to 495/199 total minutes (at WVGA/1080FHD) on a 32GB micro SD (not included)
- Auto overwrite when SD is full (for regular recording)
- Built-in microphone and speaker
- 120 degree wide angle lens
- Has zoom capabilities up to 4x original view
- Records 30-second, 1-min, 3-min or 5-min of continuous video clips
- Built-in rechargeable battery for up 20-mins of usage (recording)

Important

This guide provides important information on the use and operation of your CARCAM-SDEII ™ and the images/features shown throughout the manual are subject to change without notice due to system and firmware upgrades. Please read all the information carefully prior to using the product for the best performance and to prevent any damage/injuries or misuse of the device(s). Customers are entitled to have read through this complete user's manual before using the CARCAM-SDEII ™. Any unapproved changes or modifications will void your warranty. Please ensure to have a complete understanding of the following restrictions.

NOTE: Please check your state laws and regulations to determine if windshield mounting is legal in your state.

Restrictions

When using this product, the safety precautions below must be taken to avoid possible legal liabilities and damages. Retain and follow all product safety and operating instructions. Observe all warnings in the product operating instructions. To reduce the risk of bodily injury, electric shock, fire and damage to the equipment, observe the following precautions.

PLEASE NOTE that under certain circumstances, audio/video recording may be PROHIBITED by law. This device should be used only in compliance with all applicable federal, state and local statutes.

• DO NOT use this product near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

• DO NOT place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.

 DO NOT disassemble this product. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock during subsequent use.

• DO NOT use this product to infringe on one's privacy, spying intercepting and related activities are illegal and punishable by law. Monitoring one's private activities without consent is illegal and this product is not designed or manufactured for these purposes.

• DO NOT use this product to carry out any illegal activities such as sneak preview, etc. SecurityMan shall not be responsible for any consequences of illegal conducts made by users.

• DO NOT put the plastic packaging bags in reach of children or babies. Plastic bags can create a suffocation hazard when placed over the nose and mouth.

- DO NOT plug the AC adapter into the outlet in improper situations.
 - Plugging in an AC adapter with wet hands might cause electric shock.
 - Plugging in the AC adapter unsteadily might cause fire or electric shock.

• DO NOT cover the AC adapter when it is connected to an outlet, place the adapter near heaters, or put it on the floor which is equipped with a heater. The above mentioned operation might cause fire or incidents.

Disclaimers

- Please make sure that you are following the regulations and laws set by your states DMV (Department of Motor Vehicles) prior to mounting your camera. This manual does not intent to provide any specific legal advice.
- Please check the CARCAM-SDEII 's features periodically to ensure that it is operating as required.
- During a car accident, the impact of the collision must be hard enough to trigger the G-Sensor In order for the CARCAM-SDEII'S to begin recording.
- Please use the CARCAM-SDEII ™ as a tool while driving and use driver's safety while driving.
- SecurityMan Inc shall not be held responsible for any traffic violations related to the position ing or improper use of our product.
- Avoid mounting the camera outside of an airbag deployment zone.
- All vehicles must use the included warning stickers when using the CARCAM-SDEII ™ which must be visible to all passengers.
- Knowing most vehicles runs off 12VDC power supply from the battery, please double check our cigarette power adapter's output rating before attempting to run power directly from the car battery.

Conditions

Please read the following messages to make sure your working environment is suitable.

- If your vehicle does not cut off power to your cigarette lighter port, then you may have to manually turn off or unplug the charger to prevent it from overheating.
- The temperature should be kept between -10°C and 50°C (14°F to 122°F). The relative humidity should be kept between 20% and 80%.
- Avoid putting the product in places where temperature or humidity may change rapidly.
- Keep it dry, dustless and avoid lens exposure in direct sunlight.
- Keep product away from heat sources such as electric heaters.
- Do not use the camera near harmful chemicals.
- Do not place product near any strong magnetic objects
- It might influence the normal operation of the product if used at the fringe range of normal temperature. Please turn off the power when not in use.
- Do not disassemble the product.
- Do not shake or strike the product.
- Please obey the local government's environment protection policy.

Package Contents



1x Carcam-SD



1x Suction Cup



2x Warning Stickers Must be used and visible to all passengers



1x Car Charger



1x USB Cable



Micro SD card not included (supports up to 32GB)



User's Manual





01. Up (Zoom in) 02. Menu/Back 03. Down (Zoom out) 04. Power/USB 05. Lens 06. Speaker 07. REC/OK

- 08. Mode (Video lock) 09. ON/OFF
- 10. LCD Screen
- 11. Micro SD card slot
- 12. Bracket socket
- 13. Reset
- 14. Microphone

Quick Start

MOUNTING THE CAMERA

Please make sure that you are following the regulations and laws set by your states DMV (Department of Motor Vehicles) prior to mounting your camera. This will avoid any accidents and traffic violations that can occur if the camera is mounted in a location that is prohibited by law.

NOTE: Security/Man Inc shall not be held responsible for any traffic violations related to the positioning or improper use of our product.

1. Determine where you will be mounting the camera. The following diagram depicts mounting locations on a vehicle based in the state of California and its restrictions.

NOTE: According to CA VC Section 26708 (13) (A) "A video event recorder with the capability of monitoring driver performance to improve driver safety, which may be mounted in a **seven-inch square** in the lower corner of the windshield farthest removed from the driver, in a **five-inch square** in the lower corner of the windshield nearest to the driver and outside of an airbag deployment zone, or in a **five-inch square** mounted to the center uppermost portion of the interior of the windshield. As used in this section, "video event recorder" means a video recorder that continuously records in a digital loop, recording audio, video, and G-force levels, but saves video only when triggered by an unusual motion or crash or when operated by the driver to monitor driver performance."



INTERIOR VIEW OF THE WINDSHIELD (Based on California's vehicle code restriction & requirement)

 Using the suction cup and rotating bracket, mount the CARCAM-SDEII™ to the inside of your vehicles windshield (use the adjustment knob to loosen and tighten the CARCAM-SDEII™ as needed).

NOTE: The CARCAM-SDEII™ can also be used to record both exterior and interior (front and rear) of your vehicle. For interior recording, simply follow the steps above and rotate the camera so that the lens is facing the inside of your vehicle.

INSERT THE SD CARD

Insert your micro SD card into the **CARCAM-SDEII**TM's micro SD slot. Make sure that you insert the in the correct direction as shown. The SD card will make a clicking sound, indicating it has been locked into the Carcam.



CONNECT THE POWER CABLE

1. Connect the car chargers cable into the **CARCAM-SDEII**'s power socket located on the right side of the Carcam.

NOTE: Use the brackets adjustment knob to make adjustments as needed.



2. Depending on where you've chosen to mount the **CARCAM-SDEIITM**, run the power cable around the trim of your vehicle so that it will not obstruct your view while driving.



3. Insert the car charger into your vehicles cigarette lighter port as shown. A red light on the car charger will light up, indicating it is connected.



TURNING THE CAMERA ON

The two ways in turning on your **CARCAM-SDEII™**:

1) Start your vehicle and the CARCAM-SDEII™ will automatically turn on and

begin recording.

2) Press the power button manually to turn on the CARCAM-SDEII™

NOTE: The CARCAM-SDEII™ will automatically turn on/off whenever your vehicle turns on/ off, respectively.



LIGHT INDICATORS



BASIC OPERATIONS

SET DATE & TIME

- 1. Turn on your Carcam
 - Press and hold the Power button until the "Welcome" screen appears
- 2. Press the Menu button twice to get to "Setup" menu
 - If there is a SD card already inserted, press the Menu button until the "Setup" settings appears on the screen
 - If there is no SD card, wait for the "Please Insert SD Card" message to disappear, and then press the Menu button until the "Setup" Settings appears
- 3. Select the Date/Time
 - Press the "Down" button until Date/Time option is highlighted
 - Press the "OK" button
- 4. Change the Date/Time
 - Use the "Up" and "Down" buttons to change the date and the time
 - Use the "Mode" button to scroll through the selection

FORMAT YOUR SD CARD

- 1. Turn on your Carcam
- Press and hold the Power button until the "Welcome" screen appears
- 2. Press the Menu button
 - If there is a SD card already inserted, press the Menu button until the "Setup" settings appears on the screen
 - If there is no SD card, wait for the "Please Insert SD Card" message to disappear,

and then press the Menu button until the "Setup" Settings appears

- 3. Select the Format option
 - Press the "Down" button until "Format" option is highlighted
- 4. Confirm Formatting
 - Press "OK" to confirm your SD Card to be formatted

CHANGE TO DEFAULT SETTINGS

- 1. Turn on your Carcam
 - Press and hold the Power button until the "Welcome" screen appears
- 2. Press the Menu button
 - If there is a SD card already inserted, press the Menu button until the "Setup" settings appears on the screen
 - If there is no SD card, wait for the "Please Insert SD Card" message to disappear, and then press the Menu button until the "Setup" Settings appears
- 3. Select the "Default Setting" option
 - Press the "Down" button until "Default Setting" option is highlighted
- 5. Confirm "Default Setting"
 - Press "OK" to confirm your Carcam will switch back to its default settings

BUTTONS & SETTINGS



UP/ZOOM IN

The UP/ZOOM IN button is used to navigate through out the menu and make setting selections. It can also Zoom-In up to 4x its original distance while in video or photo mode.

MENU

The MENU button allows access your Carcam menu settings. Pressing the Menu button again will exit you out of the menu settings. While in the Video mode, you may access the Video and System settings. While in Photo mode, you may access the Photo and System settings. While in Playback mode, you may access the Playback and System settings.

DWN/ZOOM OUT

The DOWN/ZOOM OUT button is used to navigate through out the menu and make setting selections. It is also used to Zoom-out while in video or photo mode.

REC/OK

The REC/OK button is used to start and stop manual recording while in Video mode. It is also used to take pictures while in Photo mode. It can be used to make setting changes and select which event to view during playback.

MODE/LOCK

The MODE button is used to switch between Video, Photo and Playback. This function also locks the current video recording on your Carcam. By locking the video file, it will prevent the file from being manually deleted.

POWER

The power button is used to manually turn the **CARCAM-SDEII™** on or off when needed, but in most cases the **CARCAM-SDEII™** will automatically turn itself on and off whenever the vehicle does.

SETTINGS

The **CARCAM-SDEII**'s settings are divided into 4 categories: Video settings, Photo settings, Playback settings, and Setup settings.

NOTE: The "Setup" settings can be accessed from The Video, Photo, and Playback settings.

VIDEO SETTINGS

The Video configuration menu consists of settings and options that are used to configure the **CARCAM-SDEII**'s video recording settings. In the Video mode, press the "Menu" button to open up the Video configuration menu.



VIDEO SETTINGS

The Video settings consist of the following configuration options.

- Resolution Video resolution configuration.
- Loop Recording Overwrite configuration.
- Exposure Adjust the amount of light that will affect your image sensor.
- Motion Detection Enables/Disables motion detection recording.
- Record Audio Enables/Disables audio recording.
- Date Stamp Enables/Disables date stamp on recorded events.
- G-Sensor G-force sensor configuration
- Beep Sound Enables/Disables button sound.

RESOLUTION

The CARCAM-SDEII™ supports various video resolutions that you can select from. The higher the resolution, the better your video quality and the bigger the video size will be. Use the UP/DOWN keys to scroll through the options. Press the REC/OK button to select your desired settings. The available options include:

- 1080FHD (1920x1080) (default)
- 1080P (1440x1080)
- 720P (1280x720)
- WVGA (848x480)
- VGA (640x480)
- QVGA (320x240)





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LOOP RECORDING

The loop recording option serves as two features: "Overwrite" & "Segment Length". The **overwrite** feature allows the DVR to delete previously recorded events in increments when the SD card becomes full. The **segment length** feature is the length each recorded event can be before generating a new file. Use the UP/DOWN keys to scroll through the options. Press the REC/OK button to select your desired settings. The available options include:

• Off - Disables overwrite and enables the default 24 hour segment recording.

NOTE: Setting this feature to off will create on long video which will stop recording as soon as the file exceeds the memory cards capacity.

- 30 Seconds (default) Enables the DVR to record/overwrite in 30 second increments
- 3 Minutes Enables the DVR to record/overwrite in 3 minute increments
- 5 Minutes Enables the DVR to record/overwrite in 5 minute increments



EXPOSURE

The exposure option lets you select the numeric exposure value for your video recording. The exposure feature consists of the following options:

- +2.0
- +5/3
- +4/3
- +1.0
- +2/3
- +1/3

- +0.0 (default)
- -1/3
- -2/3
- -1.0
- -4/3
- -5/3
- -2.0



MOTION DETECTION

The motion detection option is used to enable/disable motion detection recording. While the Carcam is on, and the Carcam is on standby, any movement in front of it will trigger a recording. The Motion Detection feature consists of the following options:

- Off/Disable(default)
- On/Enable

NOTE: Make sure the "Auto Power Off" function is set to "Off" to let the Carcam stay on during standby mode. When motion detection is active or turned ON, the G sensing will be deactivated. Please make sure motion detection is turned OFF for G1 and G2 sensor to function properly.



AUDIO RECORDING

The Audio Recording option is used to enable/disable audio recording. A "Mic" symbol will appear on the recording screen to indicate that audio recording is enabled. The record audio feature consists of the following options:

- Off/Disable
- On/Enable (default)

NOTE: Some states prohibit the use of audio recording. Please make sure you contact your local law enforcement agency if you are unclear on your state laws and guidelines.

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DATE STAMP

The date stamp option is used to enable/disable the date & time stamp from being displayed on playback videos. The date stamp feature consists of the following options:

- Off/Disable
- On/Enable (default)

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G-SENSOR

The G-Sensor option is used to enable/disable the Carcam's G-force/impact sensor which will lock the previous and current file from being deleted by the overwrite feature. The G-force acts as a sensor for the Carcam to secure any video files recorded in the event that the vehicle gets hit. Any force that is acted upon the vehicle will result in locking the current recording video file.

NOTE: Formatting the SD card will result in erasing all files, including the locked video files. The G-Sensor feature consists of the following options:

Off/Disable

- 1G (default)- Represents 9.81m/s2 of force (passenger car turning on a corner)
- 2G-Represents 19.62m/s2 of force (bump on the road)
- 3G Represents 29.43m/s2 of force (heavy braking in a car)



BEEP SOUND

The Beep sound enables/disables the button sound.

- On (default)
- Off



SETUP SETTINGS

The Setup menu configures the **CARCAM-SDEII**'s system settings such as date and time, language, default settings, etc. It can be accessed from the Video, Photo, and Playback mode. Press the Menu button twice to access the Setup menu.



SETUP SETTINGS

The Setup settings consist of the following configuration options. Press the Menu Button twice.

- Date/Time Date and Time configuration.
- Auto Power Off Auto System Shut Off configuration.
- Language Language settings.
- Frequency Light frequency configuration.
- Screensaver Backlight/screensaver duration configuration.
- IR Sensor Enables/Disables the infrared night vision.
- Flip Screen- Flips your screen upside-down.
- Format- Formats your SD card.
- Default Settings- Restores the CARCAM-SDEIITM to its factory default settings.
- Firm Version- Displays Firmware information.

DATE/TIME

The date/time option is used to set and configure the **CARCAM-SDEII**'s current date and time format. The button configurations are listed and described below:

- UP/DOWN Use these to scroll through each selection
- MODE This button scrolls through the date and time (i.e. Month to Day to Year, etc.)
- REC/OK Press this button to accept and save your date/time.



AUTO POWER OFF

The auto power off option is an auto shutdown feature which, after a set time frame of inactivity (not recording) or standby, the Carcam shuts off. The auto power off feature consists of the following options:

- Off
- 1 Minute (default)
- 3 Minutes



LANGUAGE

The language option lets you change the language of the Carcam. The language feature consists of the following options:

- English (default)
- French
- Spanish
- Portuguese
- Dutch
- Italian
- Chinese
- Russian
- Japanese



FREQUENCY

The frequency option switches between the two most commonly used refresh rates "60Hz" and "50Hz". By default the **CARCAM-SDEII™** is set to 60Hz which is standard for United Sates and Japan. The frequency feature consists of the following options:

- 50Hz Standard for Europe and China.
- 60Hz (default) Standard for United Sates and Japan.





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SCREENSAVER

The backlight option controls the time you want your screen to stay on before the screen turns off during video recording. For safety purposes, it is recommended for the screen on the Carcam to not stay on while the vehicle is in motion. The backlight feature consists of the following option:

- Off
- 30 Seconds (default)
- 1 Minute
- 2 Minutes



IR SENSOR

The IR Sensor enables/disables the IR night vision sensor.

- On (default)
- Off



FLIP SCREEN

The image rotation flips the screen, vertically. This provides the option of having the Carcam mounted upside down. The image rotation setting feature consists of the following options:

- Off (default)
- On Selecting this option flips the screen



FORMAT

The format setting option is used to erase all files inside your SD card, including protected files. The format feature consists of the following options:

- Cancel
- Ok



DEFAULT SETTING

The default setting option is used apply the **CAECAM-SDEII**'s manufacturer default settings. The default setting feature consists of the following options:

- Cancel
- Ok



FIRM VERSION

The version option is used to view the **CARCAM-SDEII**'s firmware.

NOTE: UPDATING FIRMWARE

- To update your Carcam's firmware, make sure you have the firmware file downloaded and pasted it into the root of the micro SD card on your PC.
- 2) Insert the micro SD card into your Carcam device.
- 3) Turn on the Carcam. The power light will turn on and the screen will remain black.
- 4) Wait for the firmware to install into the Carcam
- 5) Once complete, the Carcam screen will display its welcome screen
- 6) To check if the firmware has been updated, go into the Setup Settings menu and check the "Version"

NOTE: Please remember to remove the firmware file from your micro SD card to prevent the firmware from flashing every time you restart your Carcam device.





PHOTO SETTINGS

The Camera configures the **CARCAM-SDEII**'s photo snapshot settings. In the Photo mode, press the "Menu" button to open up the Camera configuration menu.



CAMERA SETTINGS

The Camera settings consist of the following configuration options.

- Capture Mode Used to configure single or timed snapshots.
- Resolution Photo resolution configuration.
- Burst Mode Burst mode option.
- Sharpness Image sharpness configuration.
- White Balance White balance configuration.
- Exposure Image exposure adjustment.
- Quick Review Enables/Disables quick review.
- Date Stamp Enables/Disables date stamp on recorded events.

CAPTURE MODE

The capture mode option lets you configure how the CARCAM-SDEII™ will operate every time the snap shot button is pressed. For example, you can set it to take an instant snap shot every time or you can implement a timer delay which will automatically take a snap shot when the set time has expired. The capture mode feature consists of the following options:

- Single (default)
- 25 Timer
- 5 S Timer
- 10 S Timer



RESOLUTION

The **CARCAM-SDEII™** supports various "Mega Pixel" resolutions that you can select from. The resolution feature consists of the following options:

- 1MP (default)
- VGA



BURST MODE

The burst mode option lets you enable the "multiple shot" option. When you take a snapshot, it will take multiple shots in a single take, up to 5 pictures. The burst mode feature consists of the following options:

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- Off (default)
- On





SHARPNESS

The sharpness option lets you select the image sharpness of the photos being taken. They make edges appear more defined by darkening the darker pixels and brightening the brighter pixels. The sharpness feature consists of the following options:

- Strong
- Normal (default)
- Soft



WHITE BALANCE

The white balance option lets you remove unrealistic color casts, so that objects which appear white in person are rendered white in your photo. The white balance feature consists of the following options:

- Auto (default)
- Daylight
- Cloudy
- Tungsten
- Fluorescent





EXPOSURE

The exposure option lets you select the numeric exposure value for your snap shots. The exposure feature consists of the following options:

- +0.0 (default) • +2.0 -1/3
- +5/3
- +4/3
- +1.0
- +2/3
- +1/3

 -4/3 • -5/3

-2/3

• -1.0

• -2.0

🚺 🗩 Photo Settings		🗩 Exposure
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EU Exposure		+1/3
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	MENU	

QUICK REVIEW

The quick review option lets you preview images you've just taken for a short amount of time. The quick review feature consists of the following options:

- Off (default)
- 2 Seconds
- 5 Seconds



DATE STAMP

The date stamp option lets you enable or disable the time stamp from being displayed on all the photos. The date stamp feature consists of the following options:

- Off
- Date
- Date/Time (default)



PLAYBACK SETTINGS

The Playback settings menu provides actions for video clips or photos that have been recorded in the Carcam. In the Playback mode, press the "Menu" button to open up the Playback configuration menu.



PLAYBACK SETTINGS

The Playback settings consist of the following configuration options.

- Delete Delete video/photo files
- Protect Protect video/photo files

DELETE

This option allows you to delete video or photo files in your SD card. You may choose to delete one file at a time or delete all simultaneously. The available options include:

- Delete Current Delete selected video/photo
- Delete All Delete all videos and photos in the Carcam

NOTE: Any protected files will not be deleted if "Delete All" is selected



PROTECT

The Protect option helps prevent any video files or photo files from being deleted. When selecting "Delete All", the protected file will not be erased.

NOTE: When "Formatting" the SD card, protected files will also be erased. The available options include:

- Lock Current Protects the selected file.
- Unlock Current If the file is already protected, selecting this option will unprotect the file.
- Lock All Locks all files on the SD card.
- Unlock All Unlocks all files on the SD card.



PLAYING BACK VIDEOS

You can play back recorded events using two methods; directly from the CARCAM-SDEIITM or on a computer.

CARCAM-SDEII

To play back events directly from the **CARCAM-SDEIITM**, navigate to the playback screen using the Mode button. You can use the following buttons to play back and delete the recorded events:

NOTE: Traffic lights may flash during playback.

BUTTON	ACTION	DESCRIPTION
REC/OK	Press once (when not playing back video)	 Selects the highlighted event to play back/view Confirm an option when prompted
	Press once (during video play back)	- Pause the video.
Mode	Press once	- Switches to "Video" mode
Up	Press once (during multiple file view)	- Used to navigate through the recorded events.
	Press once (during video play back)	- Fast forward the video
Down	Press once (during multiple file view)	- Used to navigate through the recorded events.
	Press once (during video play back)	- Rewind the video.

COMPUTER

To playback recorded video on a PC or Mac:

1. Remove the Micro-SD card from the camera by gently pushing on the SD card allowing it to pop out from its slot.



2. Insert the Micro-SD card into a Micro-SD card reader (not included) connected to your PC (your PC should load the SD card as a new Removable Drive).



3. When prompted, select the "Open folder to view files" option to view its contents (you should see a folder labeled DCIM).





4. Open the DCIM folder to view a list of all the recorded event folders. Once inside the dated folder you can double-click any of the recorded AVI or JPG files to open them up in your default media player.

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PLAYING BACK AND TRANSFFERING VIDEO/PICTURE USING USB CABLE

1. Connect the USB data cable provided to your PC/MAC and the other end to the CAR-CAM-SDEII mini USB port.



2. Select "Mass Storage" as shown below.



3. When prompted, select the "Open folder to view files" option to view its contents (you should see a folder labeled DCIM).

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5. To transfer video/data from the CARCAM-SDEII or backup your video footages, simply use your mouse to click-drag the desired videos/pictures to select them. Next, right mouse click on the the selection(s) and select "Copy" as shown below.



6. Find a free space in your computer and right-mouse click on that location and the select "Paste" to transfer and backup your videos/pictures to your computer as illustrated below.



On-Screen Display

LIVE VIEW VIDEO



LIVE VIEW PHOTO



PLAYBACK SCREEN



Specifications

LCD size	1.5" TFT LCD
Image sensor	Digital HD color CMOS
Viewing angle	120°A+ grade high-resolution ultra wide-angle
Language for options	English/Deutsch/French/Spanish/Italian/Portuguese/Traditional Chinese/
	Simplified Chinese/Korean/Japanese/russian
Video resolution	1920x1080(FHD), 1440x1080(1080P), 1280x720(720p), &
	840x480P(WVGA),640x480(VGA),320x240(QVGA)
Video/Photo formats	AVI(MJPEG)/JPEG
Recording video format	M-JPEG
Photo pixels	1.3M /VGA
SD slot	Micro SD card (supports up to 32GB, class 4 or above)
Overwrite	Yes
Microphone	Built-in (Menu: On/Off)
Speaker	Built-in
Video output	No
Recording frame rate	30fps
G-Sensor	1G, 2G, and 3G built-in
Video recording mode	*Auto record when the ignition is turned on and stop when engine is
_	turned off (with car cigarette lighter cable connected)
	*Manual record by pressing REC button
	*Video Motion Detection record
Shooting mode (photo)	Single, 2s timer, 5s timer, 10s timer, & Burst Mode (5 consecutive shots)
Video motion detection	Yes (On/Off; default Off)
Infrared night vision	Yes (On/Off; default On)
Frequency	60Hz/50Hz
TV standard	NTSC/PAL
USB port	USB 2.0
PC mode (via USB)	Mass Storage or PC Camera
Power supply	Input: DC12V-24V, Output: 5VDC / 600mA
Rechargeable battery	3.7V / 165 mAh (Charging time: 45-Minutes. Recording time: 20-Minutes.
	Standby Time: 35-Minutes)
Camera size (LxWxH)	2.80″x1.2″x1.5″(without bracket)
Operating temperature	-10°C to 50°C (14°F~122°F)
Non-Operating temperature	-20°C to 65°C (-4°F~149°F)
Operating humidity	≤85% RH
Weight (net/Gross)	0.14lb/0.66lb

If you encounter any difficulty in the operation of this product after reading the manual, please feel free to contact us. You can reach us by phone at 1-888-977-3777 from 8:30 AM to 5:30 PM Monday through Friday (Pacific Standard Time) or by email techsupport@securitymaninc.com. We will be happy to answer your questions and help you in any way we can.

www.securitymaninc.com