



User's Guide

Micro HD Car Camera Recorder with Smart Impact Sensor Model: CARCAMMICRO

SecurityMan[®]

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(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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Introduction

The Security/Man **CARCAMMICRO** is a compact, easy-to-use high-definition car cam recorder with a 1.5" LCD display and impact sensing recording making it a wonderful accessory for a car or truck. 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 submitted to your auto insurance company as evidence if there are any legal complications during an insurance claim. The **CARCAMMICRO** is budget friendly and perfect for all motorists.

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-over writable video)
- Records up to 168 total minutes at 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, 3-min, or 5-min continuous video clips
- Built-in rechargeable battery for up to 40 minutes of usage (recording)
- For a close-up view of vehicle or property damage, you can remove the camera from your vehicle and take snapshots.

Important

This guide provides important information on the use and operation of your CARCAMMICRO 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 CARCAMMICRO. 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. Some jurisdictions regulate or prohibit use of these devices. It is your responsibility to know and comply with applicable laws and rights to privacy in jurisdictions where you plan to use this device.

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.

• **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 in the car cigarette lighter adapter with wet hands might cause electric shock.
- **DO NOT** cover the car cigarette lighter 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.

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.

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.
- 2. In most vehicles, the camera will automatically turn on/off whenever the car does because the power to the cigarette port is controlled by the ignition. Users with vehicles that cigarette ports are always on will have to manually start and stop recording as needed by pressing the rec/ok button.
- 3. Please check your cameras features periodically to ensure that it is operating as required.
- 4. During a car accident, the impact of the collision must be hard enough to trigger the G-Sen sor In order for the camera to lock the file being recorded.
- 5. Please use the camera 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.
- 7. Avoid mounting the camera outside of an airbag deployment zone.
- All vehicles must use the included warning stickers when using the camera which must be visible to all passengers.

Package Contents



1x CARCAMMICRO



1x Suction cup mounting bracket



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



1x Car Charger



1x USB Cable



User's Manual



IR LED: The IR LED can be manually turned on/off by pressing and releasing the power button during live view and only helps in low light environments. It is not meant to be used as a main source of lighting.



Reset: Restarts the camera in the event that it freezes due to a corrupt memory card. Recording LED (blue): Flashes repeatedly when the camera is recoding. Power LED (red): Solid when connected to a power source (charging).

Quick Start

NOTE: Menu options, settings and switching between modes (video, photo and playback) will not be accessible while the camera is recording (flashing blue LED) or if the camera is connected to a low voltage USB port such as a computer using the supplied USB data transfer cable. To stop recording, press the REC button once or simply eject the memory card and re-insert it when done.

SETTING THE TIME AND DATE

Turn your camera on by pressing the power button, then press the menu button to bring up the Video Settings screen. If you've already inserted your memory card the camera may start to record as soon as it's on. Simply press the ok button to stop recording.



The first set of options displayed will be the Video options. Time & Date settings are located on the System Settings screen (wrench icon) so you will need to press the menu button one more time to tab over to the next screen.



On the Setup menu page, navigate to the Date option using the up/down arrows and press ok. By default the Time/Date option is set to "on" so there is no need to select the on option. Using the up/down arrows navigate to the "SetDate" option and press ok.



On the Set Date screen, use the up/down buttons to change the selected value and the Mode button (M/) to tab over to the next value. When you are done press the ok button to save and exit the Set Date screen. You can return back to the previous value by pressing the mode button until the desired value is highlighted.



INSERTING YOUR MEMORY CARD

Insert your memory card (32 GB max) into the Micro SD slot until it locks/clicks into place as shown in the image below. Make sure that you insert the memory card with the teeth facing away from the camera lens as shown in the images below. It is very important that you do not insert the card backwards or upside down.

NOTE: Inserting your memory should be done while the camera is "OFF". When inserting the card while the camera is on, the camera will power off and you will need to turn it back on.



ATTACHING THE BRACKET

To attach the suction cup mounting bracket, simply push the small square shaped nipple into the small opening located at the top/front of the camera. You can easily detach the camera when needed by reversing the step.



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: 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."

The first thing you want to do is 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.



With the suction cup in the "unlocked" position, place it on your windshield and lock it into place by moving the Suction Lever up towards the suction cup. Once the suction cup is securely mounted to your windshield you can use the Nut-n-Ball Joint to adjust the horizontal and vertical positioning as desired.



Depending on where you've chosen to mount the camera, connect the car chargers Mini USB end into the cameras power socket and the CLA (Cigarette Lighter Adapter) end into your vehicles cigarette lighter port.



Now that you have your mounting positon set, run the excess power cable so that it doesn't disturb the drivers view or steering wheel while driving. This can be done by gently tucking the cable into the seams of your vehicles upholstery and side panels.



TURNING THE CAMERA ON

With the cigarette lighter adapter inserted into your vehicles cigarette lighter port, turn your vehicle on and the camera will automatically turn on and begin recording (flashing blue LED). In most vehicles, the camera will automatically turn on/off whenever the car does because the power to the cigarette port is controlled by the ignition. *Users with vehicles that cigarette ports are always on will have to manually turn the camera on/off (power button) and also start and stop recording as needed by pressing the ok button.

NOTE: To prevent accidents while driving, the cameras LCD screen will go to sleep after 30 seconds. You can turn the screen back on at any time by pressing any button.



Buttons and Actions



Up

The up button is used to navigate through menu options, make setting changes, and zoom in during video and photo modes and also to navigate through recorded events during playback.

Menu

The menu button is used to access Video, Photo and Playback mode options and settings. It can also be used to exit menu options when you are done making changes and delete files during playback.

Down

The down button is used to navigate through menu options, make setting changes, and zoom out during video and photo modes and also to navigate through recorded events during playback.

Ok (record)

The ok button is used to manually start/stop recording (video mode), take snapshots (photo mode), start/stop video playback (playback mode) and to select and confirm menu options.

Mode

The mode button is used to switch between Video, Photo and Playback modes. It can also be used to manually lock the current file while recoding, stop the current video file during video playback and exit menu options.

Power

The power button is used to manually turn the camera on/off and also to manually enable/ disable the IR LED while recording (video mode).

Basic Operations

NOTE: Menu options, settings and switching between modes (video, photo and playback) will not be accessible while the camera is recording (flashing blue LED) or if the camera is connected to a computer using the supplied USB data transfer cable. To stop recording, press the REC button once or simply eject the memory card and re-insert it when done.

MANUALLY TURNING THE CAMERA ON/OFF

To manually turn the camera on, simply press and release power button. To turn it off, press and hold it for about 5 seconds.



START AND STOP RECORDING MANUALLY

You can manually start and stop recording at any time by pressing the Ok button.

NOTE: If using the motion detection feature, you will need to eject the memory card to disable recording.

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SWITCHING BETWEEN CAMERA MODES (Video, Photo, Playback)

Switching between modes (video, photo and playback) will not be accessible while the camera is recording (flashing blue LED) or if the camera is connected to a low voltage USB port such as a computer using the supplied USB data transfer cable. To stop recording, press the OK button once or simply eject the memory card and re-insert it when done and then press the Mode button to switch between modes.



CONNECTING TO A COMPUTER

To connect your camera to your computer, inset the Mini USB end of the data transfer included in the packaging into the Mini USB port of the camera and the USB end into a USB port of your computer.

IMPORTANT: Connecting the camera to a computer should only be done if you want to transfer the recorded events or if you want to use the camera for as a webcam. You will not see a live view of the camera or be able to access menu options while connected to a computer or low voltage USB charger.



When prompted, use the up/down arrows to select whether you want to connect the camera as a Mass Storage (transfer recorded events) or as a PC Camera (video chat) and press the ok button to make your selection.

- MASS STORAGE: used to transfer files to your PC.
- PC CAMERA: Allows you to use the camera as a web cam for video chats like Skype.



MASS STORAGE (windows)

To transfer recorded evens to your computer, use the up/down buttons to highlight Mass Storage and press ok.

NOTE: You can also transfer recorded events by ejecting the memory card from your camera and inserting it into your computers card reader (if equipped with one).



Depending on your computer settings, your computer should bring up a Removable Disk window displaying a DCIM folder. If the window does not pop up, you will need to double click on the removable disk option located in My Computer.



Double click on the DCIM and begin selecting the folder's you wish to copy. You can also double click on any of the dated folders to copy individual files or to play them back on your computer.

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PC CAMERA (windows)

To use the camera for video chatting, use the up/down buttons to highlight PC Camera and press ok. Then follow the steps required by the program you are using to video chat.

NOTE: The cameras "PC camera" feature may not be compatible with all programs.



PLAYING BACK EVENTS

There are two ways you can payback recorded events, directly from the camera or on a computer.

DIRECTLY FROM THE CAMERA

To playback recorded events directly from the camera, make sure the camera is not recording and press the mode button until you reach the playback screen.

NOTE: Switching between modes (video, photo and playback) will not be accessible while the camera is recording (flashing blue LED). To stop recording, press the OK button once



On the playback screen, use the up/down buttons to navigate between events and then press the ok button to play/stop the selected file.



PLAYBACK FROM COMPUTER

To playback events on your computer, inset the Mini USB end of the data transfer included in the packaging into the Mini USB port of the camera and the USB end into a USB port of your computer.



When prompted, select the Mass Storage option on the cameras screen by using the up/down arrows to highlight mass storage and then press the ok button.



Depending on your computer settings, your computer should bring up a Removable Disk window displaying a DCIM folder.

NOTE: If you get an auto play window, select the "Open folder to view files" when prompted. You may also need to double click on the removable disk option located in My Computer.

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





FILE AND FOLDER NAMES

Files and Folders are organized by Time & Date. Here is an example of what your memory card will look like for the date and time of May 7th 2017, 10:15:36 am.

• Folder: 10070507

The first 3 digits are randomly generated and increase as new folders are created (100, 1001, 1003, etc).

The last 5 digits represent the year (last digit), month and day in military format.

• File: 10150000

The first 4 digits represent the hour and minute.

The last 4 digits are randomly generated and increase as folders are created.

Menu Options

IMPORTANT NOTES

 Menu options, settings and switching between modes (video, photo and playback) will not be accessible while the camera is recording (flashing blue LED) or if the camera is connected to a low voltage USB port such as a computer using the supplied USB data transfer cable. To stop recording, press the OK button once or simply eject the memory card and re-insert it when done.

• There is one Setup screen and 3 different screen modes (Video, Photo, Playback), each with its own set of options. To access each mode, simply press the mode button (while not recording) on the camera to cycle though each of them and press the menu button to access that screens options.

• The Setup Screen can be accessed from any mode (Video, Photo, Playback) by pressing the menu button twice rather than once.

VIDEO OPTIONS

The Video menu screen consists of a set of options that are used to configure the cameras video recording parameters. To access the Video menu screen, make sure your camera is set to Video Mode and then press the menu button.

NOTE: Video options are divided into 2 sections/pages. Use the up/down buttons to navigate to the other pages then use the Ok button to make your selections and save your changes.





The Video settings consist of the following configuration options.

PAGE 1	PAGE 2
 Resolution 	 Record Audio
 Loop Recording 	 Date Stamp
 Exposure 	• GSensor
 Motion Detection 	 Beep Sound

RESOLUTION

The resolution option lets you change the video resolution of the video being recorded. To make changes to this feature, use the up/down buttons until size is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired resolution type and press the ok button to make and save your selection. The available options include:

- 1080FHD (default)
- 1080P
- 720P



IOOP RECORDING

The loop recording option serves as two features "Overwrite" & "Video Segment Length". The overwrite feature allows the DVR to delete previously recorded events in increments based on the time frame selected allowing the DVR to keep recording when the memory becomes full and the video segment length feature is the maximum length each recorded event can be before generating a new file. To make changes to this feature, use the up/down buttons until loop recording is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options include:

- Off
- 30 Seconds (default)
- 3 Minutes
- 5 Minutes

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.



EXPOSURE

The exposure options lets you control how much light is taken in for recording. To make changes to this feature, use the up/down buttons until exposure is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options include:

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



MOTION DETECTION

The motion detection option is used to enable (on) or disable (off) motion detection recording. To make changes to this feature, use the up/down buttons until motion detection is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options include:

- Off (default)
- On

NOTE: With motion detection set to "on", the camera will keep recording every time it detects movement which will prevent you from accessing menu options, switching between modes and playing back recorded events.



RECORD AUDIO

The record audio option is used to enable (on) or disable (off) audio recording. To make changes to this feature, use the up/down buttons until record audio is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- Off
- On (default)



DATE STAMP

The date stamp option is used to enable (on) or disable (off) the Time & Date stamp from being displayed on recorded events. To make changes to this feature, use the up/down buttons until date stamp is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- Off
- On (default)



GSENSOR

The G-Sensor option lets you adjust the sensitivity level of the cameras built in impact sensor. To make changes to this feature, use the up/down buttons until G-Sensor is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- Level O (most sensitive)
- Level 1
- High
- Medium (default)
- Low
- Off

NOTE: You can manually lock the current event being recorded during live view by pressing the mode button.



BEEP SOUND

The beep sound option lets you enable (on) and disable (off) the audible alert (beep) that is heard every time a button is pressed on the camera. To make changes to this feature, use the up/down buttons until beep sound is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- On (default)
- Off



PHOTO OPTIONS

The Photo menu screen consists of a set of options that are used to configure the cameras photo snap shot parameters. To access the Photo menu screen, make sure your camera is set to Photo Mode and then press the menu button.

NOTE: Photo options are divided into 3 sections/pages. Use the up/down buttons to navigate to the other pages then use the Ok button to make your selections and save your changes.





The Photo settings consist of the following configuration options.

PAGE 1	PAGE 2	PAGE 3
 Capture Mode 	 White Balance 	 Anti-Shake
 Resolution 	• Color	 Quick Review
 Quality 	• ISO	 Date Stamp
 Sharpness 	 Exposure 	



CAPTURE MODE

The capture mode option lets you dictate how the camera will operate every time the snap shot button (ok 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. To make changes to this feature, use the up/down buttons until capture mode is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- Single (default)
- 2s Timer
- 5s Timer
- 10s Timer



RESOLUTION

The resolution option lets you change the Megapixel resolution of the photo's being taken. To make changes to this feature, use the up/down buttons until resolution is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired resolution type and press the ok button to make and save your selection. The available options include:

- 12M (default)
- 10M
- 8M
- 7M
- 5M
- 3M
- 2M
- VGA



QUALITY

The quality option lets you change the image quality of the photo's being taken. To make changes to this feature, use the up/down buttons until quality is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired resolution type and press the ok button to make and save your selection. The available options include:

- Super Fine (default)
- Fine
- Normal

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SHARPNESS

The sharpness option lets you change the sharpness level of the photo's being taken. To make changes to this feature, use the up/down buttons until sharpness is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired resolution type and press the ok button to make and save your selection. The available options include:

- Strong (default)
- Normal
- Soft



WHITE BALANCE

The white balance option lets you control the color temperature of the photos being taken. To make changes to this feature, use the up/down buttons until white balance is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options include:

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



COLOR

The color option lets you control the color tone/scale of the photos being taken. To make changes to this feature, use the up/down buttons until color is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options include:

- Standard (default)
- Black & White
- Sepia



ISO

The ISO option is used to adjust how sensitive the camera's image sensor is to light. The lower number that you select the less sensitive the sensor is to light (and conversely the higher the number the more sensitive it becomes). This is useful when you're shooting in different lighting situations – particularly when there's low light and you might not be able to use a flash (you'd bump up your ISO setting in this case). To make changes to this feature, use the up/down buttons until ISO is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options include:

- Auto (default)
- 100
- 200
- 400



EXPOSURE

The exposure options lets you control how much light is taken in when snap shots are taken. To make changes to this feature, use the up/down buttons until exposure is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options include:

- +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



ANTI-SHAKE

The anti-shake option lets you enable (on) or disable (off) the cameras anti-shake feature which is used to help reduce the blurriness caused when taking snap shots while moving. To make changes to this feature, use the up/down buttons until anti-shake is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options include:

- Off
- On (default)

QUICK REVIEW

The quick review option lets you enable (on) or disable (off) the cameras snap shot preview feature. To make changes to this feature, use the up/down buttons until quick review is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options include:

- Off
- 2 Seconds
- 5 Seconds

DATE STAMP

The date stamp option is used to enable (on) or disable (off) the Time & Date stamp from being displayed on snap shots being taken. To make changes to this feature, use the up/down buttons until date stamp is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- Off
- Date (default)

PLAYBACK OPTIONS

The Playback menu screen consists of a set of options that allow you to Delete and Protect the events stored on your memory card. To access the playback menu screen, make sure your camera is set to Playback Mode and then press the menu button on the any of the recorded events.

The playback menu consists of the following options.

- Delete
- Protect

DELETE

The delete option lets you delete files one at a time or all at once. To delete events, use the up/ down buttons to switch between events and press the ok button to display the options available. Then use the up/down buttons to highlight the desired action and press the ok button to accept. The available options include:

- Delete Current
- Delete All

NOTE: The delete all option will only delete "None Protected" items.

PROTECT

The protect option lets you protect/unprotect files one at a time or all at once. To protect and unprotect events, use the up/down buttons to switch between events and press the ok button to display the options available. Then use the up/down buttons to highlight the desired action and press the ok button to accept. The available options include:

- Lock Current
- Unlock Current
- Lock All
- Unlock All

SETUP OPTIONS

The cameras setup options can be accessed from any mode (Video, Photo, and Playback) by re-pressing the menu button once inside the selected modes menu options screen.

NOTE: Setup options are divided into 3 sections/pages. Use the up/down buttons to navigate to the other pages then use the Ok button to make your selections and save your changes.

The camera setup consists of the following configuration options.

PAGE 1	PAGE 2	PAGE 3
 Date/Time 	• TV Mode	 Default Setting
 Auto Power Off 	 Frequency 	 Version
 Beep Sound 	 Screensaver 	
 Language 	 Format 	

DATE/TIME

The date/time option lets you enable (on), disable (off) the current time and date from being displayed on the screen and to also change/configure the current time, date and date format which is stamped on all recorded events. To make changes to this feature, use the up/down buttons until date is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options include:

- On (default)
- Off
- Set Date

NOTE: Please refer to the "Setting the time and date" section of the manual for instructions on how to change the time/date.

AUTO POWER OFF

The auto power off option is used to enable and disable the cameras auto shut down feature which shuts itself off after the set time frame of inactivity (not recording) has expired. To make changes to this feature, use the up/down buttons until auto power off is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- 1 Minute
- 3 Minutes
- 5 Minutes
- Off (default)

BEEP SOUND

The beep sound option lets you enable (on) and disable (off) the audible alert (beep) that is heard every time a button is pressed on the camera. To make changes to this feature, use the up/down buttons until beep sound is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- On (default)
- Off

LANGUAGE

The language option lets change the language of the cameras menu optios. It is important that you stay away from making changes unless you are really sure that you want to change the language. Having the menus in a foreign language can make it difficult to navigate through the options to try and get back the right one. To make changes to this feature, use the up/down buttons until language is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- English
- Espanol
- French

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TV MODE

The frequency option lets you switch between the two most commonly used video formats "NTSC" and "PAL". By default the camera is set to NTSC which is the standard for North America. By default the camera is set to 60Hz which is standard for United Sates and Japan. To make changes to this feature, use the up/down buttons until TV mode is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- PAL
- NTSC (default)

FREQUENCY

The frequency option lets you switch between the two most commonly used light frequencies/ refresh rates "60Hz" and "50Hz". By default the camera is set to 60Hz which is standard for United Sates and Japan. To make changes to this feature, use the up/down buttons until frequency is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- 50Hz
- 60Hz (default)

SCREENSAVER

The screensaver option lets you set how long the LCD will stay on for before activating the screensaver (black screen). Pleases keep in mind that while in screensaver mode (blank screen), pressing any button on the camera will wake it up and bring up the live view. To make changes to this feature, use the up/down buttons until back light is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- 30 Seconds (default)
- 3 Minutes
- 5 Minutes
- Off (disables screen saver and keeps the LCD screen on)

NOTE: Some states require that the screen remain "off" while recording to prevent the driver from getting distracted while driving.

FORMAT

The format option cleans the memory card by removing previously existing data and information on the memory card. To format your card, use the up/down buttons until format is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- SD Card
- Cancel
- Ok

NOTE: Formatting should only be used when using a used memory card or in the event that the card becomes corrupted.

DEFAULT SETTING

The default setting option is used to restore your camera to its original settings. To restore your camera to default, use the up/down buttons until default setting is highlighted and press the ok button to display the options available. Then use the up/down buttons to highlight the desired setting and press the ok button to make and save your selection. The available options:

- Cancel
- Ok

VERSION

The Version option is used mainly to view the cameras current firmware version. To view this information, use the up/down buttons until FVV Version is highlighted and press the ok button to display the information. Then press the ok button to to exit.

Live View Icons

Video File Icon

Specifications

LCD size	1.5" TFT LCD
Image sensor	CMOS Digital HD color
Viewing angle	120° A+ grade high-resolution ultra wide angle
Language options	English, French, Spanish
Video resolution	1920x1080FHD, 1440x1080P, 1280x720P, VGA (640x480P), QVGA (320x240P)
Video / Photo formats	AVI / JPG
Photo pixels	12MP, 10MP, 8MP, 7MP, 5M, 3M, 2M, VGA
SD slot	Micro SD, supports up to 32GB, class 6 or above (Card not included)
G-Sensor	High, Medium, Low, Off
Auto Overwrite	Yes
Microphone	Built-in (Menu: On/Off)
Speaker	Built-in
Night vision	1 IR LEDs Fill Light
Recording frame rate	30fps
Video recording modes	*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 Ok button
	*Video Motion Detection recording
Snapshot modes	Single, 2s, 5s, 10s, (self timer), Continuous (6 consecutive shots), Face Detect, Smile Detect
Frequency	60Hz/50Hz
TV standard	NTSC/PAL
Output	HDMI, AV
USB port	USB 2.0 (Mini USB)
PC options (via USB)	Mass Storage or PC Camera
Power supply	Input: DC12V-24V, Output: 5VDC / 2.0A
Rechargeable battery	3.7V / 200 mAh (Charging time: 1 hr 20min, Recording time: 40min, Standby time: 1 hr)
Camera size (LxWxH)	2.50" x 1.75" x 1.25" (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)	.43lbs / .85lbs
Operation system	Windows 2000, XP, Vista, 7, & 8 / MAC OS 10.3.6 or above

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.

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