



Advanced Portable
Car Camcorder



www.sniperautomotive.com

Product Description

The Sniper Car Camcorder is compact, low power and portable, it can record high-definition video and take 5 mega pixels pictures offering functionality as a dash cam, camcorder and as a digital still camera. Video and images are saved to a MicroSD card and can be viewed on the device itself, a computer or by connecting the HDMI output to your TV.

Product Features

- 170 degree Ultra High-definition wide angle lens
- 1920*1080P FULL HD resolution
- Advanced H.264 video compression technology
- 4X digital zoom, Range 12cm to infinity
- 2.7" LCD screen for live viewing or playback
- Night vision plus 4 IR LEDs
- HDMI HD video output
- Composite AV video output (PAL or NTSC)
- Adjustable resolution for different quality/recording times
- Suction cup window mount for easy installation
- G-sensor protects current video in case of a crash
- Automatic recording when ignition is turned on*
- Automatically loop recording
- Time and date display overlaid on recordings
- Charge through USB port
- Includes 12V/24V car power lead
- Supports up to 32GB MicroSD HC cards

*Automatic power on/off with ignition requires that your car socket powers on and off with the ignition, this is the case in most vehicles.

Product Layout



Button Functions

Menu: Press once to select the menu for the current mode or twice to select the general settings menu.

Mode: Switches between video recording, still camera and playback modes.

Up: Move up for menu selection; show next picture when browsing pictures; fast forward in video playback mode.

Down: Move down for menu selection; show last picture when browsing pictures; rewind in video playback mode.

Power: Long press for power on/off. During recording: short press to turn night vision LEDs on or off.

REC/OK: Start/stop recording during video recording mode; take picture during camera mode, select and confirm menu options in settings; Start and pause video playback in playback mode.

Setup

Connect the camera using the car charger, when the ignition is turned on the camera will automatically start recording, when ignition is turned off, it will automatically stop recording and save the recorded files*.

Note: Only use the included car charger otherwise damage may be caused to the camera.

*Automatic power on/off with ignition requires that your cigar lighter socket powers on and off with the ignition, this is the case in most vehicles

MicroSD Storage Card

1. Make sure the MicroSD card is inserted properly and in the correct direction – do not force the card or you may damage the camera.
2. Please use a high-speed MicroSD card with SDHC specifications. High speed cards are marked C4 or C6.
3. After first inserting a new MicroSD card please format it using the format option in the menu.

Operation

Video Mode:

1. Press the REC button to start or stop recording manually, when recording a red flashing circle will be displayed on the screen.
2. To turn the night vision LEDs on and off press the power button briefly.
3. Digital zoom: Press the up and down buttons to zoom in and out.

Video Mode Settings Menu:

Press the menu button once while in video mode to access the settings:

1. Resolution: Choose resolution for recording video, higher quality takes more space on the Micro SD card than lower resolutions.
2. Loop recording: Set to off or 1/2/3 minute chapters.
3. Exposure: Determines how light or dark the recording is.
4. Motion detection: turn on/off motion detection function.
5. Record Audio: Select if audio is recorded along with the video.
6. Date Stamp: Select if the time and date is overlaid on the video recordings
7. G-sensor: Set to off to disable or 2G,4G, 8G which is the force in G which causes the current recording to be protected from overwriting. This protects the recording in the event of a crash.

Camera Mode:

1. Press the REC button to take a picture.
2. To turn the night vision LEDs on and off press the power button briefly.
3. Digital zoom: Press the up and down buttons to zoom in and out.

Camera Mode Settings Menu:

Press the menu button once while in camera mode to access the settings:

1. Capture Mode: Single, 2S, 5S, 10S timer. Chooses whether to take the image instantly or after 2, 5, 10 seconds.
2. Resolution: Choose resolution for pictures, higher quality takes more space on the Micro SD card than lower resolutions.
3. Sequence: Switch on to take continuous still shots.
4. Quality: Select image quality from Fine, Normal or Economy

5. Sharpness: Select picture sharpness from Strong, Normal, Soft
6. White Balance: Select the type or light the camera is being used in (Daylight, Cloudy, Tungsten, Flourescent) or set to Auto.
7. Colour: Select if images are saved in Colour, Black & White or Sepia
8. ISO: This is the setting of sensitivity to light. The higher the number, the more sensitive the camera is to light but the higher the setting there is more noise on the picture in low light. Select from Auto, 100, 200, 400
9. Exposure: Determines how light or dark the saved image is.
10. Anti-Shaking: Turn the image stabilisation on or off to compensate for camera movement when a picture is taken.
11. Quick Review: Select if the image is shown after being taken, select from Off, 2/5 seconds
12. Date Stamp: Select whether to imprint the date or date and time on the picture, select from: Off, Date, Date/Time

Playback Mode:

1. Use the up and down buttons to move between recordings
2. Press the REC button to play or pause playback

Playback Mode Settings Menu:

Press the menu button once while in playback mode to access the settings:

1. Delete: Delete the current or all recordings.
2. Protect: Lock/unlock the current or all recordings. When the locked the recording is protected from overwriting during loop recording.

General Settings Menu:

Press the menu button twice in any mode to access the general settings menu:

1. Date/Time: Set the time and date, increase and decrease using the up and down arrow keys, press the "REC/OK" button to confirm and enter the next setting item
2. Auto power off: Sets how long the camera will stay on for after the ignition is turned off. Set to off to disable auto power off or 1/3 minutes.
3. Buttons sound: Select if a beep sounds when a button is pressed.
4. Language: Select the language for the on screen menus and text.
5. Light frequency: Select 60HZ/50HZ
6. Lamp setting: Select if the night vision LEDs are on or off.
7. Screensavers: Select how long the screen will stay on for after the last button press, Off to disable or 3/5/10 minutes.
8. Image rotation: Select on to turn the image upside down (allows for mounting the camera upside down) or off for normal.
9. Format: Formats (deletes all data) the SD card.
10. Default Setting, Select OK to set all setting back to the factory defaults.
11. Version: Display the software version number.

Troubleshooting

If you are having problems with your Car Camcorder check the troubleshooting points below, if you are still have problems please visit our support website at www.sniperautomotive.com/support

1. Not recording video or taking pictures: check the MicroSD card is inserted properly and has sufficient space.

2. Stops when recording video: due to the large amount of data used for high-definition video please only use SDHC compatible high-speed MicroSD cards. There will be a mark of C4 or C6 on high-speed cards. Format the card on the device before you use it.

3. No image displayed on television: Check the AV or HDMI cable plug is connected with television correctly and that you have selected the correct input on your television.

4. Image blurred: Check the lens for fingerprints or dirt and clean before recording.

Specifications

Sensor	5M CMOS sensor
Lens	Aperture 2.5, focal length 2.8mm
Zoom	4 times digital zoom
Screen	2.7 inch TFT LCD
Video output	Composite video output NTSC/PAL
TV HDMI output	Max 1920*1080P
Audio	Built-in microphone and speaker
Memory	Support max 32GB MicroSD card
Photo	JPG format; Max 5M pixels
Video Codec	H264
Shutter	Electronic shutter
LED	Electronic infrared LED
Battery	300mAh, 3.7v, lithium ion polymer battery

Product specifications are subject to change without notice to improve reliability, function or design or otherwise.