USER MANUAL

NAVIG[8]R

1080ᴘ Full HD In Car DVR with GPS tracking

CRASH CAM™ FHD GPS

(Note: Product name is <u>Crashcam FHDGPS</u>; the Model Number (for warranty, service and ordering) is *Navcam-FHDGPS.*
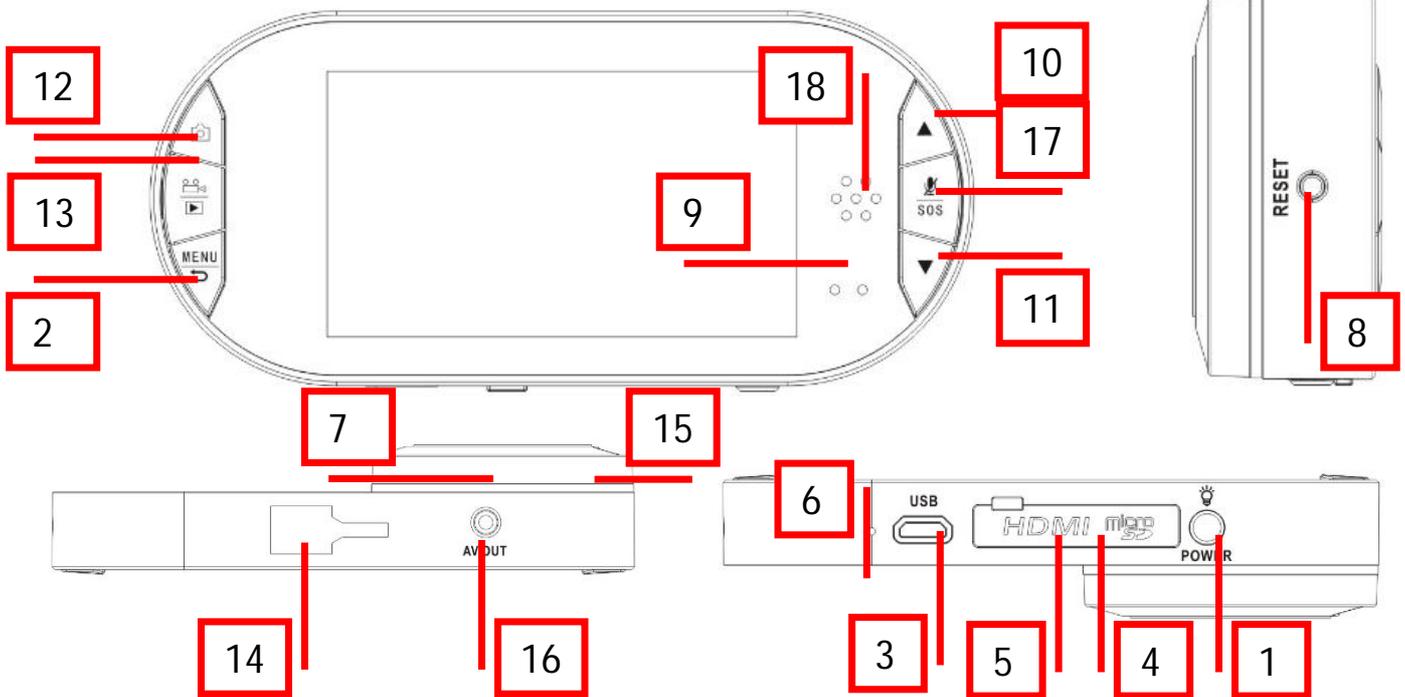
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IMPORTANT SAFETY INSTRUCTIONS AND PRECAUTIONS

- Read all instructions carefully before use.
- Retain manuals for future reference.
- Use this product only in the manner described.
- Only use a water-dampened soft-cloth to clean the surface of this product.
- The following will damage this product: any liquid such as water or moisture, extreme
     heat, cold, humidity and dusty or sandy environments.
- The Crash Cam is designed to be mounted on a vehicle windscreen, as high as possible, to ensure the maximum viewpoint. Please ensure that any attached cables are secured and will not cause the device to fall.
- If charging is required, it is recommended to thoroughly charge electronic devices for the
     first time overnight. Subsequent charges can be as needed. During charging or
     extended use, the product may become warm. This is normal.
- There are no user serviceable parts in this product.
- Unauthorised attempts to dismantle or repair this product will void the product warranty.

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PRODUCT FEATURES

1	**On/Off Button.** Hold for 3 seconds to turn ON or OFF **LED Light.** From the ON position, press to turn LED lights ON/OFF.	10	**Navigate UP** through Menu items *Under Video Mode* – Zoom IN before and during recording. *Under Camera Mode* – Zoom IN before taking a photo *Under Playback Mode* – Scroll UP to review saved files.
2	**Menu / Back Button.** Press to access menu options. *Under Video Mode.* Resolution, Loop Recording, Exposure, Motion Detection, Record Audio, Date Stamp and G-sensor. *Under Camera Mode* – Capture mode, Resolution, Sequence, Quality, Sharpness, White Balance, Colour, ISO, Exposure, Date stamp.	11	**Navigate DOWN** through Menu items *Under Video Mode* – Zoom OUT before and during recording. *Under Camera Mode* – Zoom OUT before taking a photo *Under Playback Mode* – Scroll DOWN to review files.
3	**Micro USB Interface.** Usedfor charging / power port, PC interface and file transfer	12	**Camera (DSC) Button:** Switch to Camera mode (from another mode) / Take a picture, OR **Confirm selections** from the menu.
4	**Micro SD Card Slot.** Cards up to 32GB are supported.	13	**Video/Play button:** Switch to Video mode (from another mode) / Begin recording / Stop recording **Playback Mode** – Press and hold to select a file for playback.
5	**HDMI-Output.** High definition TV connection via HDMI port. Mini HDMI cable required. (supplied).	14	**Mounting point.** For use with the Windscreen suction mount (included)
6	**Microphone.**	15	LED Light
7	**Camera Lens.**	16	External GPS Antenna Connection
8	**Factory reset switch**. Insert a paperclip into this hole to reset settings back to default.	17	SOS Button / Mute Microphone button
9	**Indicator lamp.** Blue flashing = Recording / Capturing image. Red = Charging / Connected to power. *Note: Please note that a computer USB port is not powerful enough to charge this product.*	18	Built-in speaker

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On Screen display

Recording (blinking)   GPS Signal Status   Microphone   Day or night mode

Video record mode

Loop record time

Motion Detection

+/- Exposure compensation

VIDEO RECORD MODE

Record Time — 02:27:21

Resolution — 1080FHD

SD card present

Date and time — 2013/08/06 — 15:33:45

Battery level

Timer Delay   Day or night mode

Photo mode

+/- Exposure compensation

Auto White Balance

Auto ISO setting

DIGITAL CAMERA MODE

File Name — 00130

Picture Resolution — 12M

Image quality — ★★

SD card

Battery level

Playback mode

File Name — 105-0022

Resolution — 1080FHD

PLAYBACK MODE

Date and time of video or photo — 2013/08/06   15:33

Playback controls — OK:▶ ▶:■

Battery level

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What's in the box

Navig8r Crash Cam FHDGPS, Windscreen Suction-cup Mount with built in GPS Antenna, 1 x 1.2m Micro USB Cable, 1 x 12v DC Car Charger, 1 x HDMI cable, User Manual

FEATURES AND OPERATION

Memory Card required for operation

The CRASHCAM-FHDGPS requires a Micro SD card (not included) to record video/image content. *(See page 11 for a table showing SD card capacity and the amount of video content able to be stored).* For optimal performance, we recommend using a Class 6or 10 Micro SD card to ensure fast data transfer rates (Class 4 cards will still work however may result in slower transfer rates).

Power ON / OFF function (Auto ON / OFF)

When connected to the 12v DC socket (cigarette socket) of your car, the CRASHCAM-FHDGPS will turn ON and OFF automatically and start recording when the car's ignition is turned ON and OFF. If the CRASHCAM-FHDGPS does not turn off immediately it means the device is completing the file save process before turning off (usually only a few seconds).

The CRASHCAM-FHDGPS can manually be turned ON or OFF by pressing and holding the power button on the bottom of the device. To turn OFF, press and hold the same power button.

Note: If the 12v socket is "constant on" (in some European vehicles), then the CRASHCAM-FHDGPS will need to be turned on/off manually by the power button or by removing the 12v plug.
While connected to the car's 12V DC socket (or from a powered USB hub or PC USB port) the LED indicator will glow red (battery is charging) and will be off once the battery is fully

Whilst connected to the car's 12V DC socket (or from a powered USB hub or PC USB port) the LED indicator will glow red (battery is charging) and will be off once the battery is full. *Note – the device's battery will not charge if connected to a PC USB port.*

Installation on the car windscreen

The CRASHCAM-FHDGPS works best when mounted centrally and high up on the windscreen (typically behind or close to the rear vision mirror). Use the supplied windscreen suction mount (with built in GPS antenna) to affix the CRASHCAM-FHDGPS to the windscreen by turning the square GPS antenna part to lock down the suction mount. Then plug the 3.5mm plug to the Crashcam to enable the GPS antenna. Adjust the mount / camera until you can see a clear view of the road ahead on the device LCD.

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⚠ **Once the wiring and installation of the CRASHCAM-FHDGPS has been completed, please check the following:**

- With the car's ignition on (or engine started), the Red LED indicator on the CRASHCAM-FHDGPS will light up and the LCD screen should turn on. Recording should start automatically. This will indicate a successful installation.

- When the car's ignition is turned off, the device should turn off within 20 seconds with the "Navig8r" logo

Recording

Recording will start automatically once power is connected to a vehicles cigarette power socket. When recording commences, a flashing RED dot will appear in the LCD together with separate timer readout. The recorded file is saved onto the Micro SD Card. You can manually stop recording by pressing the VIDEO/PLAY button or turning the car ignition off (stopping power to the device).

Note: If motion detection is selected, recording will start automatically whenever there is movement in front of the camera. This setting is ideal for when the car is parked or unattended. Note that if left on battery power (car is turned off), the standby time and record time will be dependent on the level of charge in the battery.
Conversely, if the motion detection feature is selected whilst driving, the camera will stop recording when no movement is detected, such as when stopped at a traffic light, but will recommence recording when the car moves again.

⚠ **In the event of an incident/accident – Use Auto Bump File Save.**

- Due to the "cycle recording" nature of this technology, older recorded files will be overwritten (depending on the chosen resolution settings and the memory capacity of the Micro SD card).

- Should you wish to KEEP (preserve) the video footage of an incident from not being overwritten, press the SOS button during recording. A "locked key" confirmation icon will appear on the screen.

- Alternately the in built G sensor will trigger an auto save lock if it senses a bump (sensitivity is selectable via the Menu), so that the file being recorded is not overwritten in the cycle record process.

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SOS Function (preserve file)

During normal video recording, press and hold the SOS button until the PADLOCK icon appears on screen. This will preserve the file from being over-written. Such files will not be recorded over until and can only be removed when connected to a PC or if the card is reformatted.

Playback

Press and hold the VIDEO/PLAY button to enter the playback mode for videos or photos. Use the UP and DOWN arrows to browse files, then the VIDEO/PLAY button to begin playback (of video files)

Available playback options are:
Note: From the playback screen, press the MENU/RETURN button to enter the playback options.

Option	Option Description
Delete	With the selected file visible on the screen, press the MENU button. Then use the up and down the arrows to choose DELETE current (file) or DELETE ALL (files) and then the VIDEO/PLAY to confirm your choice.
Protect	With the selected file visible on the screen, press the MENU button. Then use the up and down the arrows to choose PROTECT and then the VIDEO/PLAY to confirm your choice. The following options are: Lock Current, Unlock Current, Lock All and Unlock All.
Slideshow	Select between slide shows image transition times 2, 5 or 8 seconds
Thumbnail	Turn thumbnail view ON or OFF.
Volume	Select between volume settings between MUTE and 1-8.

Note: A locked file must first be unlocked before deleting.

Video Recording Setting

Turn on the CRASHCAM-FHDGPS(stop recording) then press the **MENU** button once (twice to enter **setup** settings). Press the ▲/▼ buttons to select one of the setting options and press then **REC** to select that option.

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Available Video Options:

Option	Selection Options	Option Description
Resolution	Resolution Select: FHD 1920x1080 HD 1440x1080 HD 1280 x 720 50fps HD 1280 x 720 30fps	Full HD 1920x1080 gives higher image quality, less record time
Loop recording	Select[Off, 1 or 2 or 3 or 5 or 10 Minute]	Select the time for each recording segment. For example, if set to "1", then each video recorded is 1minute long. If set to "off", then the camera will record until the SD card is full.
Exposure	+2.0,5/3,+4/3,+1.0,+2/3,+1/3 ,+0.0,-1/3,-2/3,-1.0,-4/3, -5/3,-2.0	Use this setting to adjust for varying lighting conditions. Usually +0/0 is suitable for most environments
Motion detection	Select [On/Off]	When set to "On", the CRASHCAM-FHDGPS will begin recording when it senses movement. For example, if the CRASHCAM-FHDGPS is left on, the camera will begin recording if the image is disrupted (like a person walking by).
Record Audio	Select [On/Off]	Turns the built-in microphone On or Off. For privacy this can be turned off so that no audio is recorded.
Date stamp	Select [On/Off]	Records the set date and time onto the video file (date/time is set in the setup options).
G-Sensor	Select [Off/Low/Mid/ High]	Select the level of sensitivity for the auto bump file record feature. "Low" would mean a **BIG** bump / knock / shock would trigger the auto save feature. "High" would mean a relatively **small** knock / bump would trigger auto save.

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Digital Still Camera (DSC) Settings

Turn on the CRASHCAM-FHDGPS and from camera mode, press the MENU button once (twice to enter **setup** settings). Press the ▲/▼buttons to select one of the setting options and press then VIDEO/PLAY to select that option.

Available Options:

Option	Option Description
Capture Mode	Select single (for no delay) or a time 2(s)seconds, 5s or 10s for a time delay to take the photo
Resolution (MP)	12M 4000x3000 10M 3648x2736 8M 3264x2448, 5M 2592x1944 3M 2048x1536, 2MHD 1920x1080 VGA 640x480, 1.3M 1280x960
Sequence	Take 3 images automatically. Select [On/Off]
Quality	Select [Fine, Normal, and Economy]. "Fine" will result in a less compressed image but better image quality however will consume more space than "Economy"
Sharpness	Select [Strong/Normal/Soft]
White balance	Select [Auto/Daylight/Cloudy/Tungsten (lamp) and fluorescent (lamp).] This setting helps to make white objects appear white and not "greyed out" as influenced by surrounding light sources.
Colour	Select [Colour/Black and White/Sepia (Brown)]
ISO	Select [Automatic/100/200/400]
Exposure	Select [+2.0, +5/3, +4/3, +1.0, +2/3, +1/3, +0.0, -1/3, -2/3, -1.0, -4/3, -5/3, -2.0]Use this setting to adjust for varying lighting conditions. Usually +0/0 is suitable for most environments
Date Stamp	Select [Off, Date, Date/Time this will place the date and/or time on the recorded video / photo.

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Setup Settings

Turn on the CRASHCAM-FHDGPS (stop recording) then from either Camera or Video modes press the MENU button twice to enter the Setup settings. Press the ▲/▼ buttons to select one of the Setup options and press then VIDEO/PLAY to select that option.
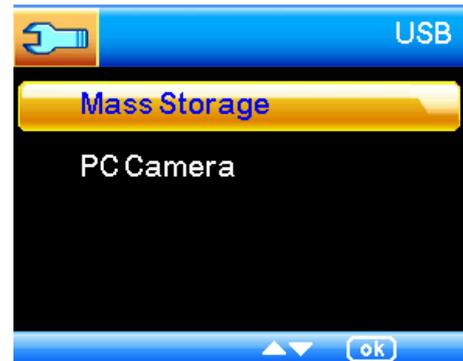
Menu Option	Selection Options	Option Description
Date/Time	Adjust fields: Day/Month/Year and Hour/Minute/Second *Note: Use the UP and DOWN arrows to adjust each field and the VIDEO/PLAY button to move between fields*	Use this option to set the date and time on the device. Should the device not be used for a long period of time and should the battery run completely flat, then the date/time will need to be re-set. Note, this device does not automatically set time from the GPS signal.
Auto power off	Select [Off/1 Minute/3 Minute]	Used to adjust the time to automatically power off
Beep sound	Select [On/Off]	Turn On to hear a "beep" sound when the buttons are pressed
Language	Optional language: English/French/ Spanish/Portuguese/German/Italian/ Simplified Chinese/Traditional Chinese/Russian/Japanese	Choose a language for the on-screen menu display.
TV Mode	Select [NTSC/PAL]	For older television sets or monitors which cannot auto select the television display system/colour information, select "PAL" (generally not applicable for newer TVs in Australia/New Zealand).
Frequency (Light)	Select [50HZ/60HZ]	For older television sets or monitors which cannot auto select the refresh rate frequency, select 50Hz (generally not applicable for newer TVs in Australia/New Zealand).
LCD Off	Select [Off / On]	To automatically turn off the LCD screen (Ideal for night driving)
Format	Format SD Card [OK/Cancel]	Select "OK" to format the Micro SD card. Warning: formatting the card will erase all of the content on the card.
Default Setting	Select [OK/Cancel]	Select OK to return the device settings back to the original factory settings.
Firmware Version		View the current car DVR software version.

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USB Data Connection

Connect the CRASHCAM-FHDGPS to a Windows (XP or 7) PC with the USB cable (included). The LED indicator will turn Red and the LCD screen will display MASS STORAGE and PC CAMERA. Select MASS STORAGE. MASS STORAGE will then appear on the screen.

Under "My computer" or "Windows Explorer" you should see a drive which will resemble a "Removable Disk (?:)" (like a USB Flash Drive or Hard Drive). Recorded files are stored in the DCIM\xxx\folder. These files can be played back using Windows Media player or a compatible media player or image viewer (for images).

Playback on TV

Connect the CRASHCAM-FHDGPS to a TV or AV monitor with a HDMI cable.

Turn on the CRASHCAM-FHDGPS and select Playback mode (as described above in Playback mode setting). You will need a Mini HDMI to (normal) HDMI cable (supplied)

Note:
1) A Micro SDHC card must be inserted into the device before recording.

2) The CRASHCAM-FHDGPS supports cycle recording in increments of 1/2/3 minutes. It will overwrite the oldest video files with new ones. Depending on the size of the Micro SDHC card and the speed rating of the card, there may be as much as a 3 second pause whilst old files are overwritten with the newer files. This pause time will not be recorded.

3) As the CRASHCAM-FHDGPS has a DC5V input, please use the original car charger which will step down the car's 12/24VDC to 5VDC and fuse the circuit in the event of an overload. The inline fuse is contained within the 12v DC plug and is replaceable.

Video/Photos Storage Capacity

MOV (H.264)	Resolution	8GB	16GB	32GB
Video	1920*1080 (1080FHD)	46 mins	100 mins	195 mins
	1440*1080 (1080P)	36 mins	75 mins	145 mins
	1280*720 (720P 50fps)	35 mins	72 mins	142 mins
	1280*720 (720p 30fps)	56 mins	115 mins	240 mins

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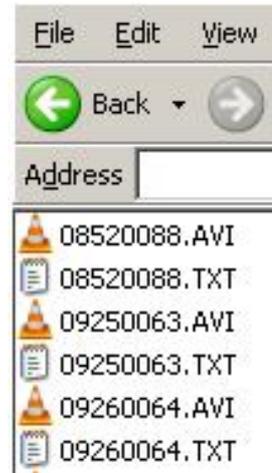**N A V I G [8] R**

GPS Tracking Software

When GPS co-ordinates are being recorded, they are saved as the same name as the AVI video file but as a TXT file. The GPS tracking software automatically combines the co-ordinates data with the video data as it is being played back.

Note: The AVI file and TXT with the same name must be stored and played back from the same folder. They cannot be separated.

To playback your video file with GPS co-ordinates and Google Maps, first install and RUN the GPS Tracking program. Then select OPEN FILE to locate and playback a file. Select the file. Playback should begin automatically.

Note: Save your video and data files to your PC to ensure the best playback experience.

Below is an example of the playback screen and commands.

File	Edit	View
← Back ▾ →		
Address		

08520088.AVI
08520088.TXT
09250063.AVI
09250063.TXT
09260064.AVI
09260064.TXT

GPS Multimedia Player

- Previous viewed file list
- Maximum speed
- Current Latitude co-ordinates
- Current Longitude co-ordinates
- Google Map image link and screen maximise button
- Current time when the video was taken
- Current Speed
- Total distance travelled
- Average Speed
- Analogue speed read-out
- Time elapse bar

Current Time: 00:00:00   Current Latitude: 00000000   Current Longitude: 000000000
Current Speed: 000000   Maximum Speed: 000000   Average Speed: 000000   Total Distance: 00000000

View Large Map

Km/h 0.00

Open File   PLAY   STOP   Screenshot   Full Screen   Exit   Volume: ??(Language): English

- Locate a video to begin playback
- Start playback
- Stop playback
- Stop playback
- Maximise screen (then RETURN to mini
- Stop playback
- Volume selector bar
- Change language

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TROUBLE SHOOTING/Q & A

Fault	Suggestion
Device does not turn off	-If in vehicle: check that the 12V socket is not still powered (on) when the key is removed (as with some European cars). -Wait 20 seconds for file finalisation/closure. -Disconnect power lead to device. -Press "ok" to stop recording, then press power to turn off.
Cant playback the .mov video files	Upgrade your windows media player version or use an alternate media player such as VLC media player.
My video/pictures of an incident are NOT there	Check the capacity of your SD card, the files may have been overwritten in the record cycle process.
The device has frozen/stopped working	-Check the speed of your Micro SD card. We recommend class 6+ for faster transfer rates, especially if the record file size is bigger -Press the "reset" button with a paper clip to reset the settings back to default. If the ambient temperature is excessive, you may need to wait for a few minutes.
The date/time is incorrect	Reset the date/time in the settings menu. If the battery runs completely flat, then the date/time will need to be reset.
The suction cup keeps coming off	-Ensure the windscreen and surface area of the suction cup is clean. -In wet or very hot weather, the suction cup mount may need to be reapplied. Do not apply the suction mount on the portion of a windscreen which is not glass (eg; some vehicles may have a coating)
Can't see the device in my computer	Check the USB cable connection to the device and USB port. Try another USB port, possibly directly to the PC/notebook (rather than through a USB hub).
No video displayed on TV	-Check the cable connections and that playback mode is selected on the Crashcam -Check the AV input selection on the TV
The captured image is not stored	Your Micro SD card might be full or the file may not have been saved before power was turned off to the unit. Make sure to stop recording before shutting down.
None of the buttons work	Press the factory reset button.
I cannot turn my device on	Try charging the battery for 10 minutes and try again. The battery may be completely exhausted.
My screen keeps turning off	Either try charging the battery or adjust the screen saver settings.
I cannot take any photos	Your Micro SD might be full. Try removing some files.
Recording seems to stop by itself	Make sure you are using the right class SD card as noted in this user manual.
I get an error message when I try to play back files	You might have some corrupt sectors on your SD card. Try re-formatting it and trying again.
The video images are hazy	Make sure the lens is clean and free from debris.
There are horizontal stripes interference on the image	Set the frequency setting according to the local power supply– 50Hz

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PRODUCT SPECIFICATIONS

LCD Screen	2.7″ TFT LCD Display
Screen Saver Function	Yes
USB Port	For Power / charging or sync with a PC (USB2.0)
TV Standard	PAL or NTSC selectable (50/60Hz)
Built-in Speaker	Yes
AV Output Options	Yes. HDMI.
Auto Recording on power-up	Yes. Recording starts on ignition power (Charging socket)
Date / Time stamp	Supported – on video and on photos
Motion Detection	Supported – whilst stationery as well as moving
Power off auto save	Yes. Current file will auto save when power is turned off.
Auto power on/off	Yes. [Off/1minute/3minutes]
Video Resolution	12M 4000x3000, 10M 3648x2736, 8M 3264x2448, 5M 2592x1944, 3M 2048x1536, 2MHD 1920x1080, VGA 640x480, 1.3M 1280x960
Photo Resolution	12M/10M/8M/5M/3M/2MHD/1.3M/VGA
File preservation	Yes. One touch "SOS" button
Auto Bump Record (G sensor)	Yes. Adjustable sensitivity (low/medium/high)
Photo mode	Single or continuos
Lens Viewing angle	120 degrees
Cycle recording times	1 or 2 or 3 Minutes
Digital Zoom	3 x Digital Zoom
File Format	Image: JPG Video : .AVI (MPEG)
Micro SD Memory Card	Class 6 or 10 recommended. Maximum capacity is 32GB
Still Image Resolution	Up to 12MP
Battery	Rechargeable Lithium Ion 250mA
Adjustable Image settings	ISO; Colour; White Balance; Exposure
Automatic sensors	Dual mode day and night light compensation
Language System	English/French/German/Italian/Spanish/Portuguese/simplified/Chinese-traditional/ Russian/Chinese/Japanese
System support	Windows XP2/Vista/Windows 7/ Windows 8

For further product information on this and other products please visit our product web page at www.navig8r.com.au or email support@navig8r.com.au

Navig8r is a brand sold and marketed by *Laser Corporation Pty Ltd* ("Laser"). Laser hereby warrants your new product to be free from defects in materials and workmanship for 12 months, from the date of purchase, provided that the product is used in accordance with accompanying recommendations or instructions where provided. The benefit of this warranty is in addition to your rights under the Australian Consumer Law and to other rights and remedies of the consumer under a law in relation to the goods or services to which the warranty relates.

Through a network of retailers and resellers, Laser will provide you with your choice of a refund, repair or exchange (where possible) for this product if it becomes defective within the warranty period. This warranty will no longer apply where the defect is a result of alteration, accident, misuse, abuse, normal wear and tear, neglect or improper storage. Please retain your receipt as proof of purchase

How to make a product warranty claim:
Step 1:   Find your receipt which proves the date of purchase. Where the date of purchase cannot be verified, your place of purchase or Laser will make an assessment based on the date of manufacture, the condition of the Laser Product and the type of defect.
Step 2a):   Contact your place of purchase. They will assess the nature of the fault and refund or replace the product as per their store refund or warranty policy.
Step 2b):   If your place of purchase cannot be contacted, then you can contact Laser. Customer Service with details of your defective Laser Product: Phone: (02) 9870 3355; or Email: service@laserco.com.au or online
www.laserco.net/support/warranty (click on "Consumers (End Users)"). Our business address is at 1/6-8 Byfield Street, North Ryde, NSW 2113
Step 3:   Laser will issue you with a Return Authorisation (RA) number within 48 hours. When requested, send us the defective Product and a copy of your receipt. Laser will cover the cost of the return delivery.
Step 4:   Wait for us to contact you. Once we have received your defective Laser Product for inspection, we will inform you of our assessment of your claim within 7 days. When we contact you, we will firstly let you know whether you have a valid claim under this Warranty, and if so, we will inform you whether your defective Laser Product will be replaced or repaired, together with the number of days you can expect to wait to receive your replaced or repaired Laser Product.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.