USER MANUAL

NAVIG[8]R

1080P Full HD In Car DVR with Wide Angle View

CRASH CAM™

FHD
EXTRA WIDE
ANGLE

(note: Product name is Crashcam FHDWD; the Model Number (for warranty, service and ordering is *Navcam-FHDWD*)

USER MANUAL

NAVIG[8]R

TABLE OF CONTENTS

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.

NAVIG[8]R

USER MANUAL

NAVIG[8]R

PRODUCT FEATURES

1 **On/Off Button.** Hold for 3 seconds to turn ON or OFF

2 **Menu Button.** Press to access menu features and preferences.
Under Video Mode – adjust Resolution, Loop Recording, WDR, Exposure, Motion Detection, Record Audio, Date Stamp and G-sensor.
Under Camera Mode – adjust Resolution, Sequence, Quality, Sharpness, White Balance, Colour, ISO, Exposure, Anti-Shake, Quick Review and Date Stamp.

3 **Mini USB Interface.** Used for charging / power port or PC interface and file transfer

4 **AV-Output.** TV connection via Composite 3.5mm (cable not included).

5 **Micro SD Card Slot.** Cards up to 32GB are supported.

6 **HDMI-Output.** High definition TV connection via HDMI port. Mini HDMI cable required. (not included).

7 **Microphone.**

8 **Camera Lens.**

9 **Factory reset switch.** Insert a small paper clip into this hole to reset settings back to default.

10 **Navigate UP** through Menu items or Increase Digital Magnification.
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.

11 **Navigate DOWN** through Menu items or increases Digital Magnification.
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.

12 **Record.** Start or stop recording or enter/confirm selections from the menu.
Under Video Mode – Begin recording
Under Camera Mode – Take a still picture
Under Playback Mode – Select file for playback

13 **Mode.** Select between Video/ Camera /Playback modes or press and hold to mute or un-mute microphone.
Note: When the device is muted, the microphone icon will be crossed out with a red line.

14 **Mounting point.** For use with the Windscreen suction mount (included)

15 **Indicator lamp.** Blue when Charging; Red when device is turned on. Blue and Red flashing during recording
Note: Please note that charging the battery via computer USB is not possible.

16 **LED Light**

NAVIG[8]R

USER MANUAL

NAVIG[8]R

ON SCREEN DISPLAY

Recording (blinking)   Wide Dynamic Range   Auto Bump record (Activated)

Video record mode

WDR

02:27:21 — Record Time

Loop record time

1080FHD — Resolution

Day or night mode

Motion Detection

Microphone on/off

Auto bump sensitivity (set at Low) — L

±0 — +/- Exposure compensation

SD card present

VIDEO RECORD MODE

Date and time — 2013/08/06   15:33:45

Battery level

Photo mode Image stabilisation

00130 — File Name

±0 — +/- Exposure compensation

12M — Picture Resolution

AWB — Auto White Balance

★★ — Image quality

ISO AUTO — Auto ISO setting

DIGITAL CAMERA MODE

SD card

Battery level

Playback mode

105-0022 — File Name

1080FHD — Resolution

PLAYBACK MODE

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

Playback controls — OK:▶   ▶:■

Battery level

NAVIG[8]R

USER MANUAL

WHAT'S IN THE BOX

Navig8r Crash Cam FHDWD, Windscreen Suction-cup Mount, USB Cable, HDMI Cable, 12v DC Car Charger, User Manual

FEATURES AND OPERATION

Memory Card required for operation

The CRASHCAM-FHDWD requires a Micro SD card (not included) to record video/image content. *(See page 11 for a table showing SD card capacity and the relevant amount of video/image content able to be stored).* For optimal performance, we recommend using a Class 6 or 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)

To turn on the CRASHCAM-FHDWD, press and hold the power button on the top of the device. To turn off, press and hold the same power button.

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

Note: If the 12v socket is "constant on" (in some European vehicles), then the CRASHCAM-FHDWD will need to be turned on/off manually by the power button or removing the 12v plug.

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

Installation on the car windscreen

The CRASHCAM-FHDWD 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 to affix the CRASHCAM-FHDWD to the windscreen and then adjust the mount until you can see a clear view of the road ahead on the LCD.

Recording

Turn on the CRASHCAM-FHDWD and press the **REC** button (unless auto REC on has been set with ignition on). 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 **REC** or turning the car ignition off (stopping power to the device).

USER MANUAL

NAVIG [8] R

Note: If motion detection is selected, recording will start automatically when 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 on 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 (protect) the video footage of an incident from not being overwritten, press the MENU 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.

Playback

Use the MODE button to select Playback of recorded content – either video or photos.

Available Options:

Option	Option Description
Arrow Up Arrow Down	Press Up and Down arrows to browse files.
Play / Pause	Press REC
Delete	With the selected file visible on the screen, press the MENU button. Then use the up and down the arrows to choose DELETE and then the REC 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 REC to confirm your choice. The following options are: Lock Current, Unlock Current, Lock All and Unlock All.

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

USER MANUAL

Video Recording Setting

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

Available Options:

Option	Selection Options	Option Description
Resolution	Resolution Select: FHD 1920x1080 HD 1440x1080 HD 1280 x 720 WVGA 848x480 VGA 640x480 QVGA 320x240	Full HD 1920x1080 gives higher image quality, less record time VGA 640x480 gives longer record time, less image quality
Loop recording	Select [Off, 1 or 2 or 3 Minute]	Select the time for each recording segment. For example, if set to "1", then each video recorded is 1 minute long. If set to "off", then the camera will record until the SD card is full.
WDR	On/off	Wide Dynamic Range. Select on to compensate for high back light situations, such as when facing the sunlight directly or to minimise oncoming headlights at night time,
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-FHDWD will begin recording when it senses movement. For example, if the CRASHCAM-FHDWD 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 current date and time onto the video file (date/time is set in the setup options).
Gravity sensing	Select [Off/Low/Mid/ High]	Select the level of sensitivity for the auto bump file record feature. "Low" would a **BIG** bump / knock / shock would trigger the auto save feature. "High" would mean a relatively **small** knock / bump would trigger auto save.
Button sounds	Select [On/Off]	Turn On to hear a "beep" sound when the buttons are pressed

Digital Still Camera (DSC) Settings

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

Available Options:

Option	Option Description
Capture Mode	Select single (for no delay) or a time 2S, 5s, 10s for a time delay to take the photo. When press the "rec" key, the time will count down.
Resolution (MP)	12M 4032x3024, 10M 3648x2736 8M 3264x2448, 5M 2592x1944 3M 2048x1536, 2MHD 1920x1080 VGA 640x480, 1.3M 1280x960
Sequence	Take 5 images automatically. Select [On/Off]
Quality	Select [Fine, Normal, 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 [Automatic/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.

USER MANUAL

Colour	Select [Normal/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
Anti-shaking	Select [On or Off]. Select this to minimise vibration or shake when taking a photo to minimise blurring.
Quick review	Select [Off, 2 seconds, 5 seconds]. Select the amount of time to review the picture on the LCD after it has been taken
Date Stamp	Select [Off, Date, Date/Time this will place the date and/or time on the recorded video / photo.

System Setting

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

Menu Option	Selection Options	Option Description
Set Date/Time	Adjust fields: Day/Month/Year and Hour/Minute/Second	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.
Auto power off	Select [Off/1 Minute/3 Minute]	Used to adjust the time to automatically power off
Language	Optional language: English/French/ Spanish/Portuguese/German/Italian/ Simplified Chinese/Traditional Chinese/Russian/Japanese/Korean	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).
Light Frequency	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).
Screen Saver	Select [Off/3 Mins/5 Mins/10 Mins	To automatically activate the screen saver
Image Rotation	Select [Off / On]	Use this feature to flip the screen 180° depending on your mounting requirements
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.

USB Data Connection

Connect the CRASHCAM-FHDWD to a Windows (XP or 7) PC with the USB cable (included). The LED indicator will turn blue 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 .avi media player or an image viewer (for images).

Playback on TV

USER MANUAL

RCA Cable Connection

Connect the CRASHCAM-FHDWD to a TV or AV monitor with an AV cable (3.5mm phone plug one end, RCA composite connectors on the other end).

Turn on the CRASHCAM-FHDWD and select Playback mode (as described above in Playback mode setting).

HDMI Cable Connection

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

Turn on the CRASHCAM-FHDWD and select Playback mode (as described above in Playback mode setting). You will need a Mini HDMI to (normal) HDMI cable (not included)

Note:

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

2) The CRASHCAM-FHDWD 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-FHDWD 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 (1080P)	120 mins	160 mins	280 mins
	1280* 720 (VGA)	240 mins	320 mins	580 mins

Connecting the NAVCAM-FHDWD in the Car

- • **The above wiring diagram shows a left hand drive vehicle. Wiring path is only a suggestion.**
1. CRASHCAM-FHDWD device mounted behind the rear vision mirror.
2. 12v DC cable routed behind rear vision mirror.
3. Cable hidden behind roof headlining.
4. Cable hidden behind "A" pillar – beware of airbag equipped cars.
5. Cable is routed beside the dashboard/near the door hinges.
6. Cable is passed under the passenger carpet (or under the dashboard).
7. 12v DC plug is connected to the car's 12v "cigarette socket".

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

- With the car's ignition on (or engine started), the Blue LED indicator on the CRASHCAM-FHDWD 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

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

USER MANUAL

PRODUCT SPECIFICATIONS

USB Port	For Power / charging or sync with a PC
TV Standard	PAL or NTSC selectable
AV Output Options	Via (mini) HDMI out or 3.5mm phono composite out
Audio Recording	Supported
Screen size	2.7" Diagonal. Colour LCD
Date / Time stamp	Supported – on video and on photos
Motion Detection	Supported – whilst stationery as well as moving
Power Off File Recovery	Supported
Video Resolution	FHD 1920x1080, FHD 1440x1080, HD 1280 x 720, WVGA 848x480, VGA 640x480, QVGA 320x240
Auto Bump Record (G sensor)	Supported. Adjustable sensitivity (low / medium / high)
Lens Viewing angle	140 degrees
Cycle recording times	1 or 2 or 3 Minutes
File Format	Image: JPG Video : .MOV (H.264)
Memory Card	Micro SD cards supported. Class 6 or 10 recommended. Maximum capacity is 32GB
Still Image Resolution	Up to 12MP
Battery	Rechargeable Lithium Ion
Adjustable Image settings	ISO; Colour; White Balance; Exposure
Language System	English / French / Spanish / Portuguese / German / Italian / Simplified Chinese / Traditional Chinese / Russian / Japanese

USER MANUAL

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.