



## Please read carefully before use

It is recommended to use a minimum **Class 4** (4Mb/s write speed) Micro **SDHC** card for optimal performance.

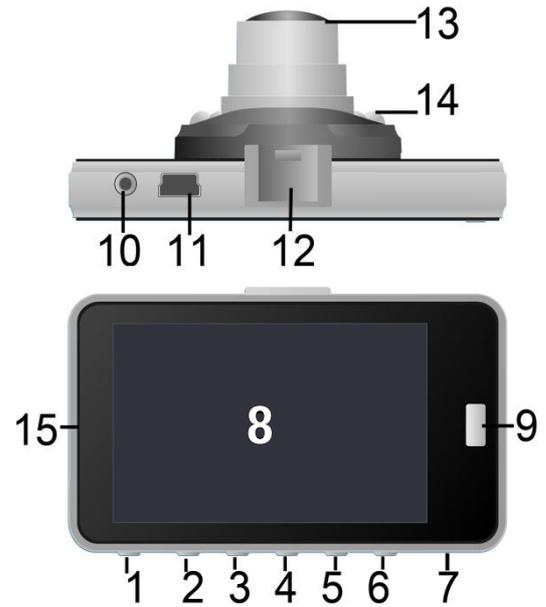
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## IMPORTANT SAFETY INSTRUCTIONS AND PRECAUTIONS

- 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, dusty or sandy environments.
- Only place this device on stable surfaces and ensure that any attached cables are secure 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.
- There are no user serviceable parts in this product.
- Un-authorized attempts to dismantle or repair this product will void product warranty
- Using this device near other electronic devices may cause interference.

## PRODUCT CONNECTIONS AND USE

1	On/ Off	9	Emergency Lock
2	Up	10	AV-OUT
3	Menu	11	USB Socket
4	OK	12	Holder Socket
5	Mode	13	Camera Lens
6	Down	14	LED Light's
7	Reset	15	TF Slot
8	Display		



## WHATS IN THE BOX



\* Actual version may vary from that shown.

## MEMORY CARD

\* Memory Card required for operation

The NAVC-703FHD requires a Micro SD card (not included) to record video / image content. (see page 8 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 minimum Class 4 Micro SD card (one of the most common types) to ensure fast data transfer rates.

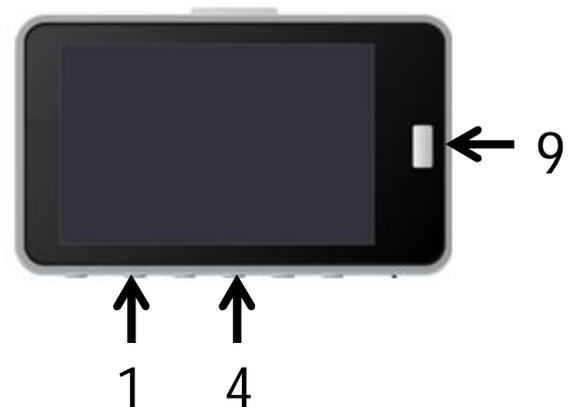
## QUICK START BUTTONS

### For Video

- 1) Toggle to VIDEO mode using the MODE button
- 4) Press OK to begin taking VIDEO
- 9) To save and preserve a file from being overwritten press the Emergency file lock button

### For Photos

- 1) Toggle to PHOTO mode using the MODE button
- 4) Press OK to begin taking PHOTOS
- 9) To save and preserve a file from being overwritten press the Emergency file lock button



## Power on/off function (auto on/off)

To turn on the NAVC-703FHD, press and hold the power button on the side of the device. To turn off, press the power button.

*Note: The current video will be saved automatically if you are in the middle of a recording and you need to turn the camera off.*

When connected to the 12v DC socket (cigarette socket) of your car, the NAVC-703FHD will turn ON and OFF automatically when the car's ignition is turned ON or OFF. If the NAVC-703FHD does not turn off immediately it means the device is completing the file save process before turning OFF (usually, only a few seconds).

If the 12v socket is "constant on" (like in some European vehicles), then the NAVC-703FHD will need to be turned ON and OFF manually using the power button

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 turn off once the battery is fully charged.

## Auto Record when turned ON

When the NAVC-703FHD is turned ON (either by pressing the power button or by "Auto ON") the device will automatically begin recording. To stop recording, press the OK button or disconnect the power cable.

## Installation on the car windscreen

The NAVC-703FHD 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 NAVC-703FHD 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 NAVC-703FHD. Recording should start automatically. If not press the "OK" button. When recording, the recording time and red recording "Dot" will appear on the LCD screen and the LED will flash. The recorded file is saved onto the Micro SDHC Card. Stop recording by either pressing the **OK** button or turning the car ignition off (stopping power to the device)



### **In the event of an incident / accident – STOP the Recording.**

- 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). For example a 2GB SD card at HD resolution will only offer you 20 minutes of record time before the files (2 or 5 or 15min sizes) start to get overwritten
- Should you wish to KEEP the video footage of an incident from not being overwritten, **stop the recording** soon after an incident has occurred (Either press "OK" or disconnect the power or remove the Micro SD card).
- Alternately use a larger capacity SD card or lower the recording resolution (eg: a 32GB SD card at VGA resolution will offer you 640 minutes of record time) or otherwise use a second Micro SD card as a backup.



## Navigating around Menu settings

- Press the **MENU** button from any mode (Video, Photo, Playback) to enter each MENU option
- Use the **MENU** button again to toggle forward to each option
- Use the **LEFT** and **RIGHT** arrows to scroll **UP** or **DOWN** through each option
- Use the **OK** button to select and option
- Use the **LEFT** and **RIGHT** buttons to scroll **UP** and **DOWN** through each option
- Use the **OK** button to make your selection

*Note: Once you have changed a MENU option you will automatically be sent back to the VIDEO, PHOTO or PLAYBACK screen. If you wish to return back to the MENU screen again (and to the same position) simply press the MENU button again.*

*Note: From the Video or Playback mode you will need to press OK to stop recording or playback before you can access MENU options.*

## Video Mode Setting

Menu Option	Selection Options	Option Description
<b>Resolution</b>	Select [ 1920x1080P FHD, 1280x720P HD, 640 x 480 VGA	<b>1080FHD</b> gives highest image quality, less record time <b>720P</b> give mid-range image quality, more record time <b>VGA</b> 640x480 low image quality, longer record time
<b>Audio</b>	Select [On / Off ]	Turns the built in microphone on or off. For privacy this can be turned off so that no audio is recorded.
<b>Loop Recording</b>	Select [1, 3, 5, 10 minutes or OFF]	Select the time you wish to record the videos in If using a large capacity card (32GB) 10 minutes is recommended
<b>G-sensor (Sensitivity)</b>	Low, Middle, high Sensitivity, OFF	Preserve recorded file upon collision. Such files will not be overwritten.  Adjust and set impact force required to trigger this feature. The higher the value the more sensitive the G-Sensor will be.
<b>LED Mode</b>	Select [On, Off]	Turn front mounted LED lights ON or OFF
<b>Motion detect Setup</b>		<i>(Not supported on this model)</i> <i>(See setup up options table below)</i>
<b>Firmware Version</b>	Display software version number	

## Photo Mode Settings

Menu Option	Selection Options	Option Description
<b>Resolution</b>	Select [5M,2M, 1.3M]	5M High image quality, least amount of photos. 3M Medium image quality, ave. amount of photos. 1.3M Low image quality, most amount of photos.
<b>Image Quality</b>	Select [Fine, Super fine, Normal]	Add increased detail and sharpness to recorded images. <i>Note: Extra SD card space maybe required.</i>
<b>LED Mode</b>	Select [On, Off]	Turn front mounted LED lights ON or OFF
<b>Setup</b>	<i>(See setup up options table below)</i>	
<b>Firmware Version</b>	Display software version number	

## Setup Settings

Menu Option	Selection Options	Option Description
<b>Language</b>	Optional language	Choose a language for the onscreen menu display.
<b>Date Setup</b>	Select [OK]	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.
<b>Auto Power OFF</b>	Select [Off, 1 minute, 3 minutes, 5 minutes, 10 minutes]	Used to adjust the time to automatically power off
<b>Frequency</b>	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).
<b>LCD Backlight</b>	Select [1min or Off]	Turns the screen off while recording
<b>Sound Effect</b>	Select [on/off]	Turns button sound on or off
<b>Format</b>	Select [SD card]	Select "OK" to format the Micro SD card. Warning: formatting the card will erase all of the content on the card.

<b>Default Setting</b>	Select [ok/cancel]	Select OK to return the device settings back to the original factory settings.
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## Playback Mode Setting

Menu Option	Selection Options	Option Description
<b>Delete</b>	Select [Cancel, This Video, All]	Choose to delete the current image or all images
<b>Protect</b>	Select [Lock this, Unlock This, Current, Lock All, Unlock All.	Protect videos or picture so they cannot be deleted.

## USB Connection

Connect the NAVC-703FHD to a Windows (XP or 7) PC with the USB cable (included). 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\Date\ folder, and the files are named as the date and time of the recording. These files can be played back using Windows Media player or a compatible .AVI media player or an image viewer (for images)

### Note:

- 1) A Micro SDHC card must be inserted into the device before recording.
- 2) The NAVC-703FHD supports cycle recording in increments of 1/3/5/10 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 between a file finishing recording to when the following file automatically starts recording. This pause time will not be recorded.
- 3) As the NAVC-703FHD has a DC5V input, please use the original car charger which will step down the car's 12V to 5VDC and fuse the circuit in the event of an overload.

	Resolution	2GB	4GB	8GB	16GB	32GB
Video (Mins)	1280*720 (720P)	20	40	80	160	320
	640*480 (VGA)	40	80	160	320	640
Photo (Qty)	1M (1280*1024)	11,650	23,300	46,600	93,200	186,400
	2M (1600*1200)	8,400	16,800	33,600	67,200	134,400
	3M (2048*1536)	6,000	12,000	24,000	48,000	96,000
	5M (2560*1920)	3,500	7,000	14,000	28,000	56,000

### Connecting the NAVC-703FHD in the Car



- **The above wiring diagram shows a left hand drive vehicle. Wiring path is only a suggestion.**
  1. NAVC-703FHD 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 NAVC-703FHD have been completed, please check the following:

- With the car's ignition on (or engine started), the red LED indicator on the NAVC-703FHD 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. If this doesn't happen then power is still being supplied to the car's 12v socket and the device will need to be switched off manually.

## 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 .AVI 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. Ensure STOP THE RECORDING if you want to keep a video/picture of an event otherwise it will be over written.
The device has frozen / stopped working.	Check the speed of your Micro SD card. We recommend class 4 for faster transfer rates, especially If the record file size is bigger (say 10 min recording increments at 720 HD). Press the "reset" button with a paper clip to reset the settings back to default
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.
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)

## PRODUCT SPECIFICATIONS

Camera	Max 5 Mega Pixel, 120 degrees wide angle
Display	2.7 inch TFT LCD
SD Card	Supports Micro SD cards up to 32GB
Video Format	AVI
Video Resolution	1080P
Image Format	JPEG
Image Resolution	Max 5M
Microphone	Built-in
Loudspeaker	Built-in
G-sensor	Support
Power	DC 5V

For further product information on this and other products please visit our product web page at [www.laserco.com.au](http://www.laserco.com.au)

### Warranty Against Defects

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 3388; or Email: [support@laserco.com.au](mailto:support@laserco.com.au) or online [www.laserco.com.au/warranty](http://www.laserco.com.au/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.