

1296p Super HD In Car DVR  
***CRASH CAM***<sup>TM</sup>  
With GPS Tracking and Camera Alerts



Note: The Product Name is CRASHCAM-818SHD;  
The Model Number (for warranty, service and ordering) is NAVC-818SHD.

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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.
- The NAVCAM-818SHD is designed to be mounted on a vehicle windscreen, as high as possible, to ensure a maximum viewpoint. Please ensure that any attached cables are secured and will not cause the device to fall.
- There are no user serviceable parts in this product.
- Un-authorized attempts to dismantle or repair this product will void product warranty

## WHAT'S IN THE BOX

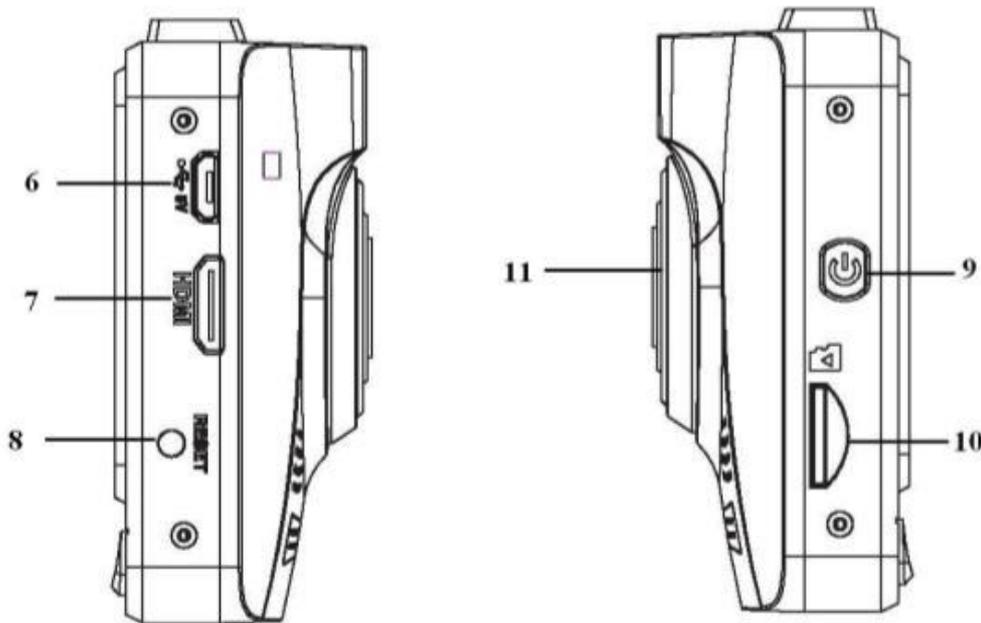
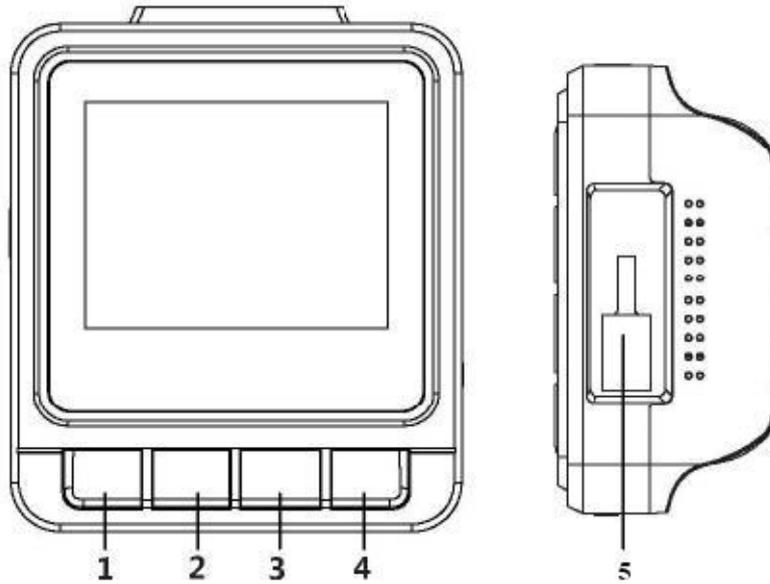
- 1) NAVCAM-818SHD
- 2) This user manual
- 3) Micro USB Charge and data transfer cable
- 4) CD disc to install the tracking and review software on a Windows® PC

## MICRO SD CARD REQUIREMENTS

The NAVCAM-818SHD requires a Micro SD card (not included) to record video/image content. For optimal performance, we recommend using a Class 10 micro SD card UHS 3 (minimum) to ensure fast data transfer rates

*Note: Some "Extreme Speed" class 10 UHS 2 cards will not work correctly with the NAVCAM-818SHD. Other low speed cards are not recommended and the user may experience constant intermittent faults.*

**CAMERA BUTTON AND HARDWARE OVERVIEW**



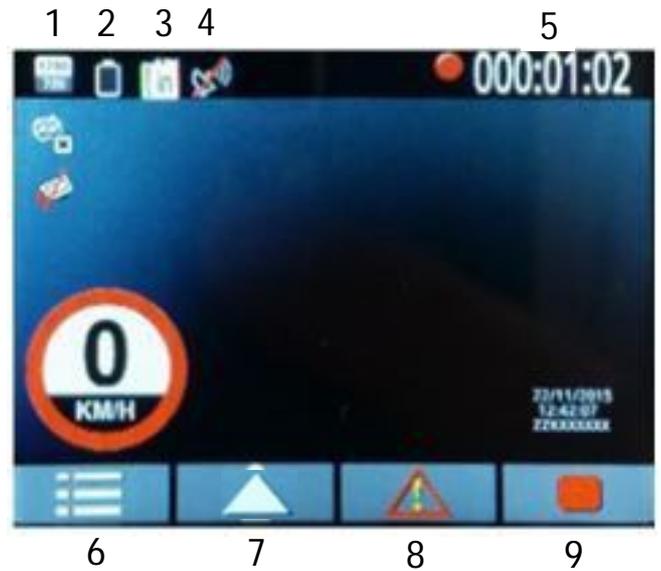
1	Menu / Return	7	Mini HDMI Out
2	Playback / UP / Map shortcut button	8	Reset button
3	Snap / Down / Preserve fil button	9	Power ON / OFF button
4	Record / OK	10	Micro SD slot
5	Mount Socket	11	Lens
6	Micro USB Charging Port		

## WHAT DO THE BUTTONS DO?

Function	Button	What does it do?
Menu and Settings options		When recording, press to enter settings When video preview, press to enter/exit settings When video playback, press to return to preview interface.
Press for Map (GPS connection required)		When recording with GPS connection, press to show the map Press to select next menu/video/image
SOS / DOWN:		When recording, press to preserve the video recording file. Press to select next menu/video/image In video preview, press to take a shooting.
Recording/OK:		Press to start/stop recording. In Setting Menu, press to confirm settings When video preview, press to confirm playing selected video/images When video playback, press to stop playback.
Power Switch	Press and hold to turn the unit ON and OFF.	
Reset	Press and hold to reset the device.	

**ON SCREEN DISPLAY**

HOME SCREEN (IN RECORD MODE)	
1	Resolution
2	Power/Battery/Charging
3	Micro SD Card Inserted
4	GPS Signal Status
5	Current Date and Time
6	Menu Settings
7	Navigation Map
8	Emergency file save
9	Record



PLAYBACK SCREEN (RECORDING STOPPED)	
1	Menu Settings (Press to Toggle thru)
2	Playback recorded files
3	Take Photo (DSC)
4	Take Video (Crashcam)



MENU SCREEN (PRESS MENU FROM PLAYBACK SCREEN)	
1	User Settings
2	File Edit options (Delete)
3	Menu Settings (Press to Toggle thru)
4	Scroll up through options
5	Scroll down through options
6	Confirm selection



<b>DELETE FILES</b> (PRESS MENU A SECOND TIME)	
1	Return to main screen
2	Scroll up through options
3	Scroll down through options
4	Confirm selection



<b>PLAYBACK SCREEN</b> (PRESS PLAY FROM THE MENU SCREEN)	
1	Return to main screen
2	Scroll up through options
3	Scroll down through options
4	Confirm selection



### WHAT DO THE LED INDICTORS MEAN?

ICON	Definition
Flashing Blue dot	Video is Recording
Satellite icon	GPS location fixed and tracking
Satellite icon (with strike Through)	GPS location not found (eg. If indoors)
Red LED (Light)	Device is charging
Blue LED (Light)	Device is ON

## QUICK REFERENCE GUIDE

Feature	Function	Description	How to use
	Super High Definition (1296p)	View your recorded video and digital photos in super high definition resolution	Go to the settings menu and select SHD from the resolutions option.
	Speed Camera and School Zone alerts	Audible and visual alerts to remind you when travelling through school zones and near speed cameras	When entering these zones, you will automatically be prompted with visual and audio (optional) warnings
	GPS Display for Navigation	Watch your progress using the onscreen real time using the onscreen GPS guided map	Press the UP ARROW button to view maps, once you are connected to GPS Satellites
	GPS Tracking	Plot your route on Google Earth using our easy to use GPS viewer software	When connected to GPS Satellites, tracking your GPS co-ordinates automatically when recording video.
	165° Wide angle lens	Capture even more details and more vehicles around you	The wide angle lens is standard with this model, so there is no need to turn this feature off and on.
	HDMI A/V output	Watch your Videos simply by plugging your crash-cam into your TV via HDMI	Simply connect a Mini HDMI to HDMI cable to your Crash-Cam and TV

## OPERATING THE NAVCAM-818SHD FOR THE FIRST TIME

Connect a USB car charger to the car's 12v (or trucks 24v) Cigarette lighter socket and the other end to the Micro USB port on the NAVCAM-818SHD.

Insert a Micro SD card into the Micro SD slot and turn the device on. When the ignition is turned on, the NAVCAM-818SHD will turn on.

## POWER ON/OFF (AUTO ON/OFF)

When connected to power, the NAVCAM-818SHD will turn ON or OFF automatically when the car's ignition is turned ON or OFF. If the NAVCAM-818SHD does not turn off immediately it means the device is completing the file save process before turning off (usually only a few seconds).

To turn the NAVCAM-818SHD ON, press and hold the power button on the side of the device to ON. To turn off, press and hold the power button again.

If power is "constant on" (in some European vehicles), then the NAVCAM-818SHD will need to be turned ON/OFF manually using the power switch.

## ABOUT GPS SIGNAL RECEPTION

For convenience, your NAVCAM-818SHD will automatically connect to GPS satellites when in range. Just like all PND (Portable Navigation Devices) this may take a few minutes (especially the first time). The signal can also be affected by driving through tunnels for example. The GPS connection however will reconnect when the GPS satellites come back into range.

Until GPS is re-connected, the following features may not be displayed properly:

- The navigation map screen
- Driving speed display
- Safety alerts such as Red Light, Speed Cameras, School Zones etc.
- Tracking details used by the GPS Player such as speed, longitude, Latitude and Date and Time.

*Note: Schools zones by default are set to 8 – 9:30am and 2:30 – 4pm 40KpH and cannot be changed with this model.*

## AUTO RECORD WHEN TURNED ON

When the NAVCAM-818SHD is turned on (via the auto on feature) the device will automatically begin recording. To stop recording, press the OK button or turn the device OFF using the power button.

## RECORDING FILES

Turn on the NAVCAM-818SHD. Recording should start automatically, if not press the Video Camera button. When recording has started, a RED dot will appear on the screen (next to the timer) as well

as a FLASHING BLUE LED indicator at the top right hand side of the unit. The screen will also display a count up timer for the recording at the top.

The recorded files are saved to the memory or micro SD Card. Recording can be stopped, by either pressing the OK button or by turning the car ignition off (stopping power to the device)

The NAVCAM-818SHD supports cycle recording. It will overwrite the oldest video files with new ones. Depending on the size of the memory card and the speed rating of the card, there may be as much as a 3 second pause whilst old files are selected and overwriting begins with newer files. This pause time will not be recorded.

### PLAYING BACK A RECORDED FILE

From the main screen (and while not recording), press the PLAY (Up arrow) button, then select the source folder of the file ie. (Event or Normal Video). Then, select the video you wish to view using the up and down arrow keys and the OK button to confirm.

### DELETING A FILE

From the main screen (and while not recording), press Menu button two times to enter the file deleting menu. Select whether you would like to delete from your delete-protected files (Event Video) or from your normal files (Normal Video). Continue using the arrow keys and the OK button to delete one or all files from the folder.

*Note: Once files are deleted you cannot get them back.*

### AUTO BUMP FILE RECORD (G SENSOR) - SAVING RECORDING VIDEO FILES

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 memory card). Alternately the G sensor will trigger an auto save lock if it senses a bump (sensitivity is selectable via the user settings), so that the file being recorded is not overwritten in the cycle record process. Such files will be saved to the folder called EVENT.

### TAKING A STILL PICTURE

While not in record mode, press the **CAMERA** button. A "shutter" noise will then be heard to let you know the image has been taken. The image will be saved to the memory card in the folder called NORMAL.

### OTHER SHORTCUTS FROM THE MAIN SCREEN

Preserve file: Press the arrow down button to preserve a file from being overwritten.

## PLAYBACK ON TV (WITH HDMI)

Connect the NAVCAM-818SHD to a HDMI equipped TV or AV monitor with a mini-HDMI to HDMI cable. Turn on the NAVCAM-818SHD and select PLAY.

## USB CONNECTION

Connect the NAVCAM-818SHD to a Windows PC with a Micro USB to USB cable. The screen will then display "USB Connecting..." The unit is now connected.

Find the device Under "My computer" or "Windows Explorer" find the newly connected drive. Recorded files and images are recorded in the NORMAL folder, while preserved files are recorded in the EVENT folder. Files can be played back using Windows Media player, VLC or a compatible .MOV media player or an image viewer (for images).

## USER SETTINGS

From the main screen, press the **MENU** button, then using a combination of the arrow keys and the **OK** button to confirm your choice, select settings from the following options list:

Feature	Options	Description
Video Resolution	2560x1080 30fps 21:9, 2304x1296 30fps 16:9, 1920x1080 45fps 16:9, 1920x1080 30fps 16:9, 1920x1080 30fps 16:9, 1280x720 60fps 16:9, 1280x720 30fps 16:9	Change the resolution of recorded files (Note: Higher Resolution files take up more storage space)
Recycle record	Off /1 Minute /3 Minutes /5 Minutes	Select the length of each recorded file
Motion Detection	On /Off	When power is connected, begin recording when motion is detected.
Park Mode	On /Off	When the car is turned off, begin recording if an impact is detected.
Image Quality	S.Fine, Fine, Normal	Increase or decrease the image quality.
Microphone Setup	On /Off	Record the sounds/voices from inside your car whilst recording
Stamp Setting	Date /Time /Driver ID	Select on/off to add a time-stamp to the recorded video
Driver ID Setting	[Enter your own number plate details]	Stamp your own number plate details onto video recordings
G Sensor Setting	Off /High /Medium /Low	Adjust the level of impact required to preserve recorded incident files.

WB (White Balance)	Auto /Incandescent /Sunny /Cloudy /Fluorescent	Adjust lighting to your environment using these pre-set settings
EV Bias	-2.0/-1.7/-1.3/-1.0/-0.7/-0.3/0/0.3/0.7/1.0/1.3/1.7/2.0 /	Fill light according to different light source intensity in different environment.
Language	English /Simplified Chinese /Chinese /Russian	Select between various languages for the LCD readout
Time Setup	[Set the date and time]	Press UP/Down button to set properly, press OK to save your setting and exit.
Beep Sound Setting	On /Off	Switch button sound ON or OFF
Auto Power Off Setting	Off /1 Minute /3 Minutes /5 Minutes	If no buttons have been pressed and if no recording is taking place, the unit can be shut off automatically after set periods of time.
Backlight Off Setting	On /Off	Turn the screen light on or off according to your driving situation
Card Volume	[Display storage space details]	Show the memory card remaining capacity
Format	Yes /No	Format SD card (Note: Permanently erases all data on card. Note: the unit cannot be used until formatting is complete, which usually takes about 20seconds depending on the size of your card.)
Default Setting	Yes /No	Reset all settings back to factory default settings
Driver Time Warning	Off /1 /2 /3 /4 Hours	Set a timer to remind you to take regular breaks while driving
Map Direction	North Up /Track Up	Orientate the map view to suit you
Zoom Level	50 /100 /200 /400 Meters	Get a closer look at maps by for easier reading
DN (Day / Night) Mode	Auto /Day /Night Mode	Adjust the screen backlighting for easier viewing
Map Mode	2D /3D	Increase the maps detail for easier viewing
Version Info	[Display build info of device]	Display the firmware version number
Satellite info	[Display Satellite info]	Check satellite status. 3 to 5 satellites are required for a positive location fix

## TRACKING SOFTWARE – QUICK GUIDE

### INSTALLING THE SOFTWARE

Install the software disc and select an installation (or view the user manual)



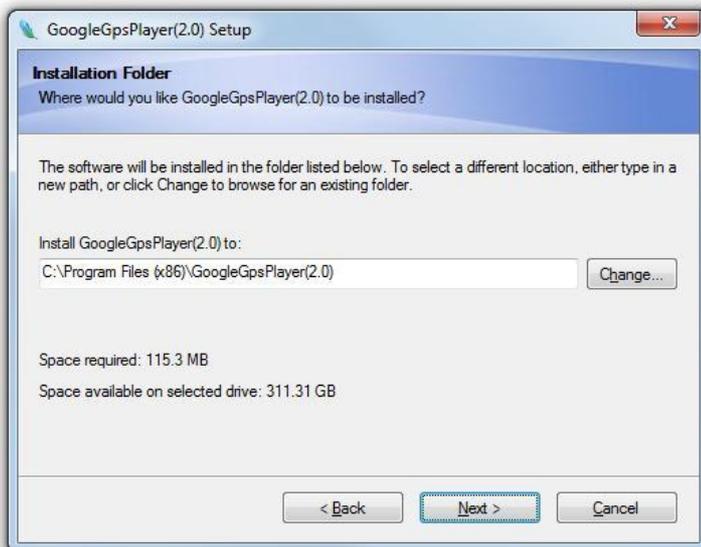
Install GPS Player Software  
For 32 or 64bit Windows O/S

Install Video Player Software

View User Manual



Click next and follow the prompts



THE GPS SOFTWARE - OVERVIEW

Video Playback Screen

Map and Plotting Screen

Playback file Name



Select a File for Playback, Pause and Stop  
 Note: Save file and playback direct from your PC for best streaming rate

## FAQ

Fault	Suggestion																											
The device has frozen / stopped working.	Check the speed of your memory card. We recommend class 10 for faster transfer rates, especially if the record file size is bigger (say 15 min recording increments at 1080Full HD). Alternately, check the car's internal temperature. The device will enter standby mode if the ambient vehicle temperature is below 0 or above 30 degrees C.																											
The device will not start recording, or stop recording or has other intermittent faults	Most common cause of intermittent faults is an under rated SD card. We recommend a class 10 card for this device as recording at 4K resolution requires a superior speed card.																											
The speaker warning sounds are a little loud. Can you turn them off?	Yes. Just go to the user settings screen and select speaker. Then turn the speaker to OFF.																											
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 10 seconds for file finalization / closure. Disconnect power lead to device																											
Can't 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 memory card, the files may have been overwritten in the record cycle process. If the Bump file record feature did not automatically preserve the footage, then be sure to manually save the footage next time by pressing the																											
The date/time is incorrect	Reset the date / time in the settings menu. Otherwise check that the time settings have been updated automatically via the GPS connection. If the battery runs completely flat, then the date/time will need to be reset. Don't forget to manually adjust the settings for your time zone in the user settings menu.  <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Standard Time Zones</th> <th>Daylight</th> </tr> </thead> <tbody> <tr> <td></td> <td>Savings Time Zones QLD</td> <td>+10</td> </tr> <tr> <td></td> <td>+10</td> <td></td> </tr> <tr> <td>NSW</td> <td>+10</td> <td>+11</td> </tr> <tr> <td>ACT</td> <td>+10</td> <td>+11</td> </tr> <tr> <td>VIC</td> <td>+10</td> <td>+11</td> </tr> <tr> <td>TAS</td> <td>+10</td> <td>+11</td> </tr> <tr> <td>SA</td> <td>+9.3</td> <td>+10.3</td> </tr> <tr> <td>WA</td> <td>+8</td> <td>+8</td> </tr> </tbody> </table>		Standard Time Zones	Daylight		Savings Time Zones QLD	+10		+10		NSW	+10	+11	ACT	+10	+11	VIC	+10	+11	TAS	+10	+11	SA	+9.3	+10.3	WA	+8	+8
	Standard Time Zones	Daylight																										
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ACT	+10	+11																										
VIC	+10	+11																										
TAS	+10	+11																										
SA	+9.3	+10.3																										
WA	+8	+8																										
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 on the NAVCAM-818SHD and that playback mode is selected																											

## PRODUCT SPECIFICATIONS

LCD Screen	2.0" TFT Colour LCD Display showing forward video image and Menu settings as well as playback for recorded video
Video Resolution	2560*1080 @ 30fps 21:9 / 2340*1296 @ 30fps 16:9 / 1920*1080P 45fps 16:9 / HDR 1920*1080P 30fps 16:9 / 1280*720 60fps 16:9 / 1280 * 720 30fps 16:9
USB Port	For Power or sync with a PC (USB2.0)
TV Standard	PAL or NTSC – via HDMI output
Built-in Speaker / Microphone	Yes / Yes
AV Output Options	HDMI
Auto Recording on power-up	Yes. Recording starts on ignition power (Charging socket)
Date / Time stamp	Supported – on video and on photos (Auto update via GPS)
GPS location and Speed stamp	Supported – on video
Power off auto save	Yes. Current file will auto save when power is turned off.
Auto power on/off	Yes – when ignition turned on / off (1, 3, 5 Minutes)
Lens	High quality 6 glass lens elements with low dispersion coatings. Low light capable with minimal edge distortion.
Photo Resolution	4MP (2688 x 1512 pixels)
File preservation	Yes. One touch "SOS" button
Auto Bump Record	Yes. Adjustable sensitivity (low/medium/high)
Photo mode	Single shot whilst video recording.
Lens Viewing angle	165 degree wide angle
Cycle recording times	1, 3 or 5 Minutes
File Format	Image: JPG Video : .MOV (MPEG) using H.264 video compression
Micro SD Memory Card	Class 6 or 10 UHS3 or above recommended. Max capacity 64GB
Language System	English
System support	Windows XP2/Vista/Windows 7/ Windows 8 (tbc)

## FEATURE EXPLANATIONS

Feature	Description	Example
GPS Tracking	Location and speed information is recorded along with video for later review on PC software	When playing back your video on the PC software you can see where you were on Google Maps as well as other data
Auto Bump Record	Automatically protects the current video file so it's not overwritten in the loop record.	When an incident (hit) occurs the video of the incident will be protected for a later review.
165° wide viewing angle	Allows a wider field of view to be recorded	Capture 3 lanes of traffic or more detail on the sides (say at an intersection)
HDMI Video (TV) Output	For AV output to a TV	Connect directly to a HDMI equipped TV for playback from the Crashcam
Driver fatigue reminder	Reminds the driver to have a break after a (user set) period of continuous driving.	Ideal for long journeys
Time Stamp	The time and date is stamped on the video	On Video playback (with or without software), you can see the time and date
Loop record	Set in 1 or 3 or 5 min increments	Depending on the size of your memory card, the oldest files are overwritten with new ones
Auto On/Off	Device turns on or off with the car	So you can set and forget. Whenever you're driving, you're recording.
Designed for Low light	Better clarity and detail in the dark (when compared to IR LED assist devices)	Whether at night time, in a car park or a tunnel, superior lens quality and image processor will result in clearer video

For further product information please visit our product web page at [www.laserco.com.au](http://www.laserco.com.au) or email [support@laserco.com.au](mailto:support@laserco.com.au)

Please note: As continual improvements are made to this product, slight operational differences may occur. For the most up-to-date user manual, please visit our web site.

### Warranty Against Defects

Laser Corporation Pty Ltd (“Laser”) 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:

[service@laserco.com.au](mailto:service@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.