NCP-DVRADAS

USER MANUAL

# FULL HD DASH CAM DVR

## WITH ADAS GPS & WI-FI


WIFI

GPS

ADAS

2.7" TOUCH SCREEN

## Caution

- Ensure you are using your Car DVR within your countries' road laws. Please make sure you are familiar with your local road legislation before use.
- Avoid leaving your Car DVR in direct sunlight for extended periods of time in an unventilated space.
- Please set time and date before you use this device to record.
- The notifications given by the Car DVR are suggestions only, please drive to the actual conditions.
- The results of GPS positioning are only for reference. The Car DVR will lose GPS positioning abilities when signal is blocked (eg driving through tunnels, enclosed car parks).
- GPS positioning accuracy may vary depending on weather and surroundings such as dense cities, tunnels, or forests. GPS satellite signals cannot pass through most solid materials. Tinted windows may also affect the GPS signal.
- The values displayed in this system, such as speed, position, and the distance warning, may be affected by the surrounding environment.
- The system is to be used only for non-commercial use, within the limits permitted by the relevant laws
- Wi-Fi Signal is designed to be used in close proximity. The longest range of the Wi-Fi signal is 10m.
- Wi-Fi Operation Channels List: Ch1~Ch11.
- Avoid using the Car DVR in the vicinity of any devices that emit radio interference (eg. Microwave Ovens).
- Please note that other devices is using 2.4GHz band may interfere with the Wi-Fi signal of the Car DVR, and result in the connection speed of both devices slowing down.
- It is considered normal operation for the Car DVR to get warm during use.

## Battery Warning

- Always charge the Car DVR using the provided charger. Improper charging of the Car DVR and may result in failure of the internal battery.
- Never dismantle the Car DVR or expose the internal battery.
- Do not dispose of the Car DVR in fire.
- Dispose of the Car DVR observing local regulations being mindful of the internal battery.
- Do not attempt to replace or expose the internal battery.

## Notes on Installation

1. It is advised that the Car DVR is installed near the rear view mirror, at the top centre of the windshield for optimal operation.
2. Make sure that the lens is within the range of the windscreen wiper to ensure a clear view when it rains.
3. Do not touch the lens with your fingers. Finger prints left on the lens will result in unclear videos or photos. If photos or videos are blurred, please clean the lens gently with a microfibre cloth.
4. Do not install the device on a tinted window. Doing so may damage the tint film and restrict the Car DVR's GPS signal.
5. Make sure that the installation position does not hinder or block the field of view or GPS signal.
6. Only use the included charging cable to power the Car DVR.

## 1. Introduction

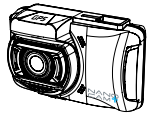
Thank you for purchasing a NanoCam Plus Car DVR. Please read through these instructions before attempting to install or use this product. For the latest manual updates, please see **www.nanocamplus.com.au**.

### 1.1 Features

- Recording 1080P footage at 30 frames per second
- 2.7" LCD colour touch screen
- 140° Wide angle lens
- Advanced Driver Assistance Systems (ADAS)
- Automatic Emergency recording for collision detection
- Supports MicroSD memory cards Class 6 and above, up to 32GB
- GPS & Wi-Fi

### 1.2 Package Contents

*Car DVR*



*Bracket*

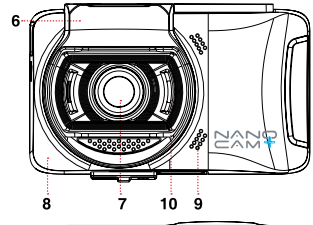
*Software CD*

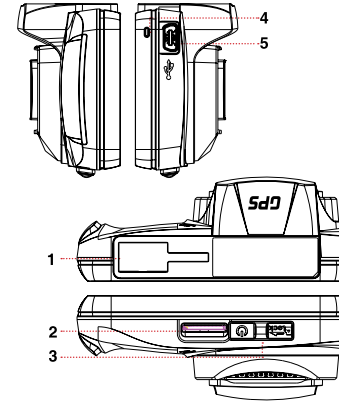
*Product Manual*

*12v Adapter*

### 1.3 Product Overview

**1.** Bracket Socket
**2.** Memory Card Slot
**3.** Power Switch
**4.** LED Indicator
**5.** USB/Power Connector
**6.** GPS Antenna
**7.** Wide Angle Lens
**8.** Wi-Fi Transmission Antenna
**9.** Speaker
**10.** Microphone
**11.** LCD Touch Panel

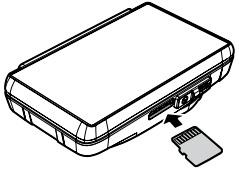


## 2. Getting Started

### 2.1 Inserting Memory Card

With the Screen facing upward, insert memory card with the pins facing upward as illustrated. Push the memory card in until a click sound is heard, indicating the card is in position.



**Note:**

1. Do not remove or insert the memory card when the device is turned on. This may damage the memory card.
2. Please use a Class 6 or higher rating Micro SD card, up to 32GB.
3. Please format the Micro SD card before the initial use.
4. When removing the memory card, be careful as the card may eject quickly.

**To remove the memory card**

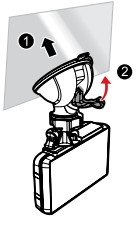
Ensuring the power switch is in the off position (2.5.2.2) push The Micro SD Card to eject the unit from the slot.

### 2.2 Installing in Vehicles

#### 2.2.1 Mount to Windshield

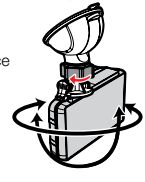
1. Push the bracket into bracket slot on top of device, and slide the mount from left to right until a click sound is heard.

2. With the suction-cup lock switch in the up orientation, position the suction-cup on the windshield.
3. Hold the base firmly on the windshield and press down the lock switch to mount the car holder to the windshield. Make sure the base is securely locked in place.




#### 2.2.2 Adjust the device position

1. Loosen the knob and adjust the device vertically and/or horizontally.

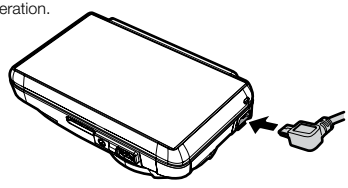


2. Tighten the knob to make sure the device is securely locked in place.

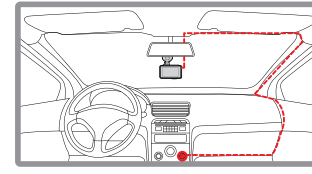
### 2.3 Connecting to Power

Use only the included charger to power the device and charge the built-in battery.

**1.** It is advised that the Car DVR is installed near the rear view mirror, at the top centre of the windshield for optimal operation.



**2.** Plug the other end of the car adapter to the cigarette lighter socket of your vehicle. Once the vehicle engine is started, the device automatically powers up.



**Note:**

**1.** This product contains functions such as ***LDWS*** (3.2.1) ***FCWS*** (3.2.2) and ***FCMD*** (3.2.3). Please refer to the alignment measures given in these sections during their installation for improved accuracy.

**2.** The built in battery is designed for short use only to run parking mode when your vehicle is parked and the Car DVR is not receiving power. The battery cannot power the device long term, for everyday use please ensure that the Car DVR is powered by the included Charger.

### Battery Status Indicator

| ICON | DESCRIPTION |
|---|---|
|  | Full battery power. |
|  | 2/3 battery power. |
|  | 1/3 battery power. |
|  | Low battery. |
|  | Battery charging. |
|  | Connect the car adapter to charge the battery. |

**Note:**

Please take note if the environment temperature reaches 45°C or above, the car adapter will supply power to device, but the Lithium-ion battery will not charge. This is a characteristic of Lithium-ion batteries and is not a malfunction.

### 2.4 LED Indicator

| STATUS EXPLANATION | LED INDICATOR COLOUR |
|---|---|
| Power off, battery charging | Red |
| Power off, battery fully charged | LED light off |
| Power on, battery charging | Red |
| Power on, battery fully charged | Green |
| Standby / Standby with screen off | Green |
| Recording / Recording with screen off | Flashing red |

### 2.5 Powering the Device On / Off

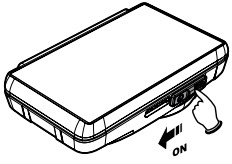
#### 2.5.1 Auto Power On/Off

Once the vehicle engine is started, the device will automatically power up and start recording (unless the Automatic Record function is disabled (2.6.1)).

#### 2.5.2 Manual Power On/Off and Reset

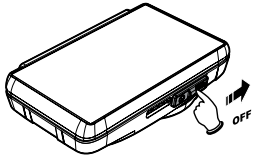
##### 2.5.2.1 Manual Power On

Slide the **power switch** making sure that the power switch locks over the memory card slot.




##### 2.5.2.2 Power Off

Slide the **power switch** making sure that the memory slot is open. The device will start the power down sequence. Do not power on the device during the power down sequence, as the recorded data may be corrupted.




##### 2.5.2.3 Reset the Device

If the device does not function normally, try restarting the Car DVR. To restart your Car DVR, slide the **power switch** into the off position and verify the Micro SD Card is in the removable state; wait for 7 seconds and slide the power switch back to the on position to restart the device.

## 2.6 Initial Settings

Before using the Car DVR, we recommend you enable the **Automatic Record** function and set the correct **Date and Time.**

### 2.6.1 Set Automatic Record

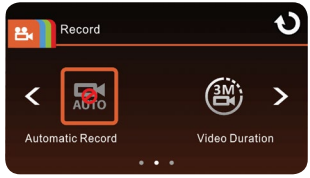
The default setting for the Automatic Record function is enabled. The Car DVR will automatically start recording when the Car DVR receives power from the power cable. In case Automatic Record is disabled, enable it with the following steps:

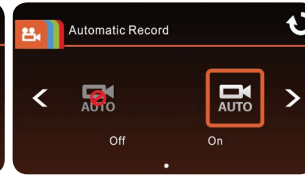
**1.** Touch to enter **Main Menu**

**2.** Touch to switch to **Record** Main Menu

**3.** Touch / to select and enter the **Automatic Record** function menu; touch again to select **ON.**

**4.** Touch to return to Record screen.



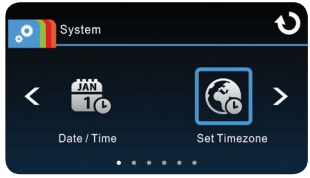



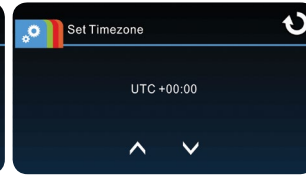

### 2.6.2 Set Date / Time

To set the correct date and time, please follow the instructions below:

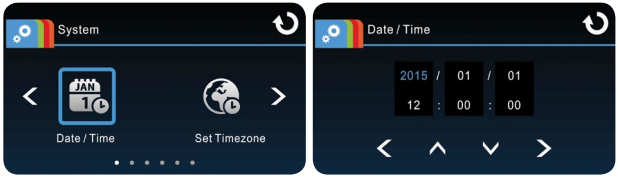
**1.** Touch to enter **Main Menu**

**2.** Touch to select the **System** main menu, touch / to select **Set Timezone Menu**, touch / to set the current Timezone; then touch again to complete setting.



3. Select to enter **Date / Time** menu. Touch / to select each value; touch / to select previous or next field; Confirm by touching to complete setting.




**Note:**

1. If GPS is enabled the Car DVR clock will be synchronised with the satellite clock signal based on the time zone specified in the **Set Timezone** menu.
2. If satellite positioning is not available, the Car DVR clock will need to be set manually using the **Date/Time** setting.
3. Please be aware that touching during the recording process will stop the recording and enter the menu.

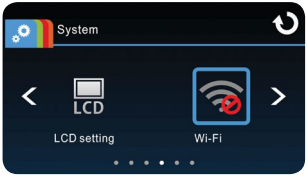
## 2.7 Initial Settings

The camera allows you to connect your Car DVR to your smartphone or tablet via Wi-Fi and the Life Cam App to view recorded files and photos wirelessly or change the Car DVR settings with your smartphone or tablet.

### 2.7.1 Application Installation

1. Search Google Play or App Store for Life Cam application.
2. Install the App using your phones on screen instructions.

**Note:**
The App layout and features may be subject to change depending on different software versions. Please refer to Google Play or App Store for updates.




### 2.7.2 Creating Wi-Fi Connection

1. Touch to enter **Main Menu**
2. Touch to select the **System** main menu
3. Touch / to select to enter the **Wi-Fi function** menu. Wi-Fi will activate and the screen will display the Car DVRs connection name and Wi-Fi password.
4. Using Wi-Fi settings of your smartphone or tablet, search for the Car DVR ID in the available Wi-Fi connections list. Select the connection NCP-DVRADAS and enter Wi-Fi Password.


5. Once your smartphone is connected to the Car DVR, open the **Life Cam** App on your smartphone or tablet.
6. To disconnect Wi-Fi link, exit the **Life Cam** Application on your smartphone or tablet.

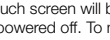
**Note:**

1. Make sure the **Wi-Fi function** of the Car DVR is activated and the mobile device is connected to the correct Wi-Fi signal before opening the **Life Cam App** or the App will not be able to connect to the Car DVR.
2. Your smartphone or tablet should be within a 10m range of the Car DVR.
3. After 3 minutes of inactivity the Car DVR's Wi-Fi connection will stop transmitting and your phone will disconnect from the Car DVR.
4. To ensure that the time on your recordings and the time displayed on your phone are consistent, please make sure that the date and time settings of the mobile device are accurate.
5. When connecting with a smartphone or tablet over Wi-Fi, the touch-controls of the Car DVR screen will be disabled. To change any settings or view footage you will need to do this via the Life Cam App, or you need will need to exit the Life Cam App and disable the Wi-Fi connection.
6. The language of the **Life Cam App** will be determined by the language setting of your smartphone or tablet.

## 3. Using the Car DVR

### 3.1 Recording Videos

#### 3.1.1 Record videos while driving

When the vehicle is started and the Car DVR Automatic Record function is enabled, the Car DVR will automatically turn on and start recording.
During the Car DVR's start up sequence the built in touch screen will be unresponsive.
Recording will automatically stop when the vehicle is powered off. To manually stop recording touch the  icon on the Car DVR screen.

**Note:**

1. Because of how some vehicles are wired, the recording may continue when the engine is switched off. If this happens, please manually turn off the Car DVR or remove the car adapter from the cigarette lighter when not in use.
2. The recording loop length can be configured to save a video file for every 3 or 5 minutes of recording. For information on how to adjust this setting please refer to **Video Duration** (4.2).
3. The device saves the recording on the inserted Micro SD Card. If the memory card capacity is full, the oldest file in the memory card is overwritten.

#### 3.1.2 Emergency Recording

Emergency Recording saves the current video file and protects it from being overwritten. To start the Emergency Recording, please follow the instructions below:

1. During video recording, touch the icon marked  to enter emergency recording mode, the "Emergency" message will be shown on the lower left corner of the screen, and the recorded file will be protected.
2. Touch  again, to halt the recording.

**Note:**

1. If the **Collision Detection** function is enabled and a collision is detected, the device will automatically trigger the emergency recording and protect the current video file. Please refer to **Collision Detection** (4.2).
2. The emergency recording file is created as a new file, which will be protected to avoid being overwritten by normal loop recording. 8GB (or above) memory cards can save up to 10 emergency video files. The alert message of "**Emergency files are full**" will pop up on the screen when the emergency recording files are full, and the oldest emergency file will be automatically deleted when a new emergency recording file is created.

### 3.1.3 The Recording Screen


| No. | ICON | ITEM | DESCRIPTION |
|---|---|---|---|
| 1 | | Recording Indicator | Indicates the recording status. |
| 2 | 2015/01/01 12:00:00 | Date / Time | Indicates the recording date and time. |
| 3 | | Add speed point | Touch to add a speed cam point. |
| 4 | | Menu | Touch to enter the main menu. |
| 5 | | Taking Snapshot | While recording, touch to take a photo. |
| 6 | 00:00:10 | Recording Duration | Indicates the video current duration. |
| 7 | | Satellite positioning icon | The icon appears on the screen when satellite positioning of the device is ready. |
| 8 | | Battery | Indicates the remaining battery power. |
| 9 | | Driving info | Touch to enter the Driving Info chart. Please refer to **Driving** info screen (3.1.6). |
| 10 | | Recording | Touch to start recording, touch again to halt the recording. |
| 11 | | Emergency Recording | During video recording, touch to enter emergency recording mode. Please refer to Emergency Recording (3.1.2). |

### 3.1.4 Add speed point

You can manually add speed cam positions in this Car DVR.

**1.** Press  to add new **Speed Camera Position** during recording.

**2.** Up to 200 speed camera points can be saved.

**3.** This product has a capacity of 200 speed cam positions. In case you are trying to add more than that the system prompts with message "**Speed Position is full**".

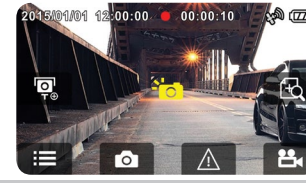
**Note:**
You may delete custom speed cam positions by selecting the **Delete speed** point option from the **File / Position** menu. Please note that all of your existing speed cam positions are deleted once the **Delete speed point** option is selected. Make sure you are ready to recreate all of your custom speed cam positions before activating this option.

### 3.1.5 Taking Snapshots

You can also use your Car DVR to take snapshots.

**1.** Press  in recording mode to take a snapshot

**2.** A snapshot is taken when this  icon appears at centre of screen.

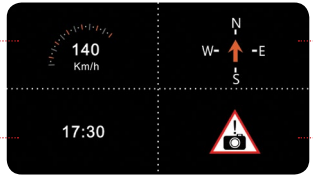



**Note:**
The definition of photos taken by this product when it is recording and the car is moving is subject to the speed of the target object and changes in ambient lighting. The photograph function is better used for taking still pictures after an accident when all vehicles involved have stopped.

### 3.1.6 Driving Info Screen

Please touch  when you are recording, the **Driving Info Screen** will be displayed.

Touch any point on the screen to return to Record Screen.




| No. | ITEM |
|---|---|
| 1 | Driving Speed |
| 2 | Time |
| 3 | Driving Direction |
| 4 | Speed Cam Alert |

**Note:**
Driving Speed, Driving Direction and Speed Camera Alert are only applicable when the GPS is activated and within signal range.

**The following driver safety functions are for reference only. Drivers are advised to exercise discretion based on actual road conditions.**

## 3.2 Driving Safety

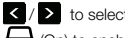
**Note:**

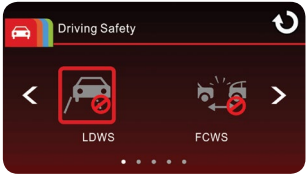
1. **Driving Safety** (ADAS - Advanced Driver Assistance Systems) functions are limited to triggering no more than two alerts at the one time. If a voice alert message has been triggered, any other alarms will be halted until the first alert has finished.
2. The speed cam prompt is disabled if this product is not connected to an external power source.

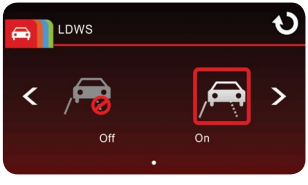
### 3.2.1 Lane Departure Warning System (LDWS)

Once your car's location is determined by GPS and the **LDWS** function is enabled, the Car DVR produces voice and on screen alerts when your car leaves or changes lanes at speeds over 50 km/h.

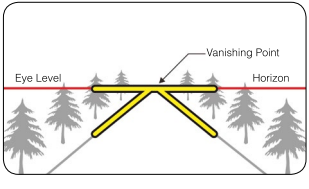
To set the **LDWS**, please follow the instructions below:

1. Touch  to enter **Main Menu**
2. Touch  to switch over to **Driving Safety** Main Menu.
3. Touch  to select  to enter the **LDWS** function menu, then touch  (On) to enable **LDWS**.
4. Touch  to return to the record menu
5. After enabling **LDWS**, the screen will display alignment guidelines  , please adjust the position of the Car DVR so that the horizontal guideline and the horizon line overlap, and the diagonal lines are aligned with the lane markings on screen. Make sure that the guide lines are not obscured by any part of your vehicle (e.g. hood) during installation, as this may affect the accuracy of **LDWS**.
6. Once your car's location is determined by GPS, this product produces voice and screen message alerts when you change lanes at speeds over 50 km/h.







**Note:**

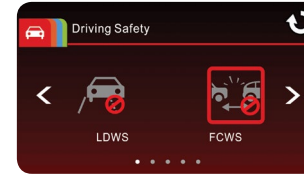
1. **LDWS** is only active when satellite positioning is available. Make sure GPS settings on your Car DVR is activated
2. The **Driving Safety** functions such as **LDWS**, **FCWS**, **FCMD**, **Headlight Warning**, **Speed Cam Alert**, **Speed Limit Alert**, **Driver Fatigue Alert** and **ACC/DEC Alert** will be disabled if the product doesn't connect with the external power supply.
3. The **LDWS** function may give false alarms in poor conditions, including rainy or cloudy weather, at night, or in poor lighting environments and can be trigged by external factors while not changing lanes. Drivers are advised to exercise discretion based on actual road conditions.

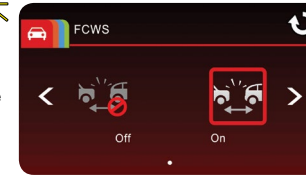
### 3.2.2 Forward Collision Warning System (FCWS)

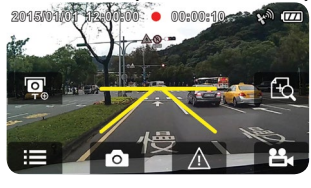
Once your car's location is determined by GPS and the **FCWS** function is enabled, this product produces voice and screen message alerts when you drive at speeds over 60 km/h and are less than 20m away from the car in front of you.

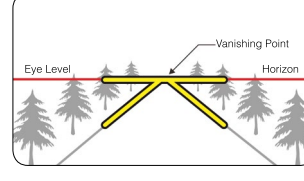
To set the **FCWS**, please follow the instructions below:

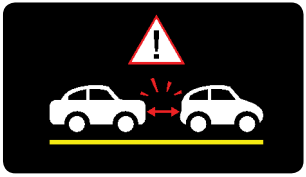
1. Touch  to enter **Main Menu**
2. Touch  to switch over to **Driving Safety** Main Menu.
3. Touch  /  to select  to enter the **FCWS** function menu, then touch  (On) to enable **FCWS**.
4. Touch  to return to the record menu
5. After enabling **FCWS**, the screen will display the alignment guidelines please adjust the position of the Car DVR so that the horizontal guideline and the horizon line overlap and the diagonal lines are aligned with the lane markings on screen. Make sure that the guide lines are not obscured by any part of your vehicle (e.g. hood) during installation, as this may affect the accuracy of **FCWS** functionality.
6. Once your car's location is determined by GPS, this product produces voice and on screen alerts when you drive at speeds over 60 km/h and are less than 20m away from the car in front of you.





**Note:**

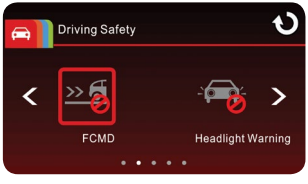
1. **FCWS** is only active when satellite positioning is available. Make sure GPS settings on your Car DVR is activated.
2. The **Driving Safety** functions such as **LDWS**, **FCWS**, **Headlight Warning**, **Speed Cam Alert** and **Driver Fatigue Alert** will be disabled if the product isn't connected to the external power supply.
3. The accuracy of the **FCWS** function is affected by poor visibility conditions, including rainy or cloudy weather, at night, or in poor lighting environments. Drivers are advised to exercise discretion based on actual road conditions.

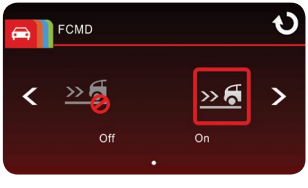
### 3.2.3 Front Car Movement Detection (FCMD)

Once your vehicle's location is determined by GPS and the FCMD function is enabled, the Car DVR will detect the movement of the traffic in front of you. When your car remains motionless for 20 seconds it produces voice and on screen alerts when the car in front of you moves forward.

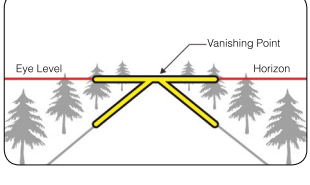
To set the FCMD, do the following:

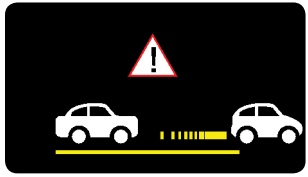
1. Touch to enter **Main Menu**
2. Touch to switch over to **Driving Safety** Main Menu.
3. Touch / to select to enter the **FCMD** function menu, then touch (On) to enable **FCMD**.
4. Touch to return to the record menu
5. After enabling **FCMD**, the screen will display align icon , please adjust the Car DVR so that the horizontal guideline and the horizon line overlap and the diagonal lines are aligned with the lane markings on screen. Make sure that the guide lines are not obscured by any part of your vehicle (e.g. hood) during installation, as this may affect the accuracy of **FCMD** functionality.
6. Once your car's location is determined by GPS, when your vehicle is motionless for 20 seconds the Car DVR produces voice and on screen alerts when the movement of the traffic in front of you moves forward.









**Note:**

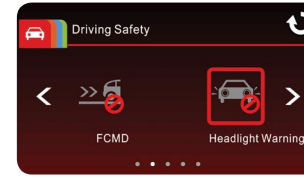
1. **FCMD** is only active when satellite positioning is available. Make sure GPS setting on your Car DVR is activated.
2. The **Driving Safety** functions such as **LDWS**, **FCWS**, **Headlight Warning**, **Speed Cam Alert** and **Driver Fatigue Alert** will be disabled if the product isn't connected to the external power supply.
3. The **FCMD** function may give false alarms in poor visibility conditions, including rainy or cloudy weather, at night, or in poor lighting environments. Drivers are advised to exercise discretion based on actual road conditions.
4. **FCMD** will automatically recalibrate 30 seconds after the initial alert if the **FCMD** function has been activated.

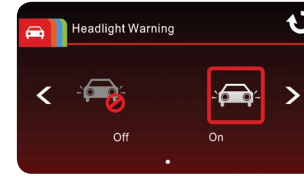
### 3.2.4 Headlight Warning

The Headlight Warning function produces voice and screen message alerts when the Car DVR detects poor lighting conditions.

To set the headlight warning, please follow the instructions below:

1. Touch to enter **Main Menu**
2. Touch to switch over to **Driving Safety** Main Menu.
3. Touch / to select to enter the **Headlight Warning** function menu, then touch (On) to enable the **Headlight Warning** function.
4. Touch to return to the record menu
5. The Car DVR will now produce voice and on screen alerts when it detects poor lighting conditions.




**Note:**

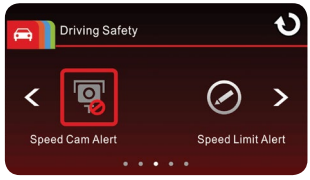
The **Driving Safety** functions such as **LDWS**, **FCWS**, **Headlight Warning**, **Speed Cam Alert** and **Driver Fatigue Alert** will be disabled if the product isn't connected to the external power supply.

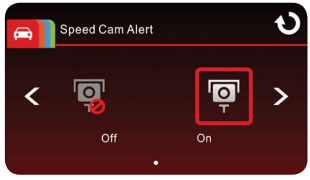
### 3.2.5 Speed Cam Alert

Once your car's location is determined by GPS and is approaching a manually saved speed camera location the Car DVR produces voice and on screen alerts.

To enable or disable Speed Cam Alert please follow the instructions below:

1. Touch to enter **Main Menu**
2. Touch to switch over to **Driving Safety** Main Menu.
3. Touch / to select to enter the **Speed Cam Alert** function menu, then touch (On) to enable the function.
4. Touch to return to the record menu
5. Once your car's location is determined by GPS and approaches a manually saved speed camera location the Car DVR produces voice and screen message alerts. The on screen alert will display red to remind you to slow down if you are driving faster than the speed limit.





**Note:**

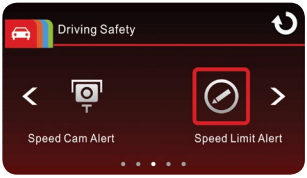
1. **Speed Cam Alert** is only active when satellite positioning is available. Make sure GPS settings on your Car DVR is activated.
2. The **Driving Safety** functions such as **LDWS**, **FCWS**, **Headlight Warning**, **Speed Cam Alert** and **Driver Fatigue Alert** will be disabled if the product isn't connected to the external power supply.
3. The **Speed Cam Alert** will only give alerts for speed camera points that have been set by the user. To set a speed camera point push the add speed point icon when your vehicle is close to a speed camera.

### 3.2.6 Speed Limit Alert

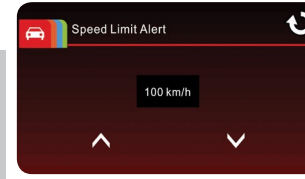
If the Speed Limit Alert function is enabled, the Car DVR will give voice alerts once your car's location is determined by GPS and the vehicles speed exceeds the set limit.

To set the Speed Limit Alert, follow the instructions below:

1. Touch to enter **Main Menu**
2. Touch to switch over to **Driving Safety** Main Menu.
3. Touch / to select to enter **Speed Limit Alert** menu.
4. Tap the / keys to set up a **Speed Limit Alert** to trigger the Car DVR's alarm (Off / 50 km/h ~ 200 km/h).
5. Touch to return to the record menu



6. If a Speed Limit Alert is set, the Car DVR will give a voice alert once your car's location is determined by GPS and its speed exceeds the set limit.



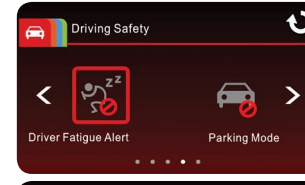

**Note:**

1. **Speed Limit Alert** is only active when satellite positioning is available. Make sure GPS settings on your Car DVR is activated.
2. The **Driving Safety** functions such as **LDWS**, **FCWS**, **Headlight Warning**, **Speed Cam Alert** and **Driver Fatigue Alert** will be disabled if the product isn't connected to the external power supply.

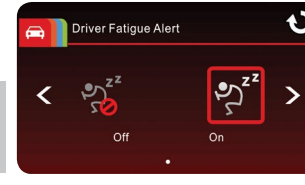
### 3.2.7 Driver Fatigue Alert

If the Driver Fatigue Alert function is enabled, the Car DVR produces voice and on screen alerts an hour after recording has started and will repeat the alerts every half an hour afterwards.

To set the driver fatigue alert, follow the instructions below:




1. Touch to enter **Main Menu**
2. Touch to switch over to **Driving Safety** Main Menu.
3. Touch / to select to enter the **Driver Fatigue Alert** menu, then touch (On) to activate **Driver Fatigue Alert.**
4. Touch to return to the record menu



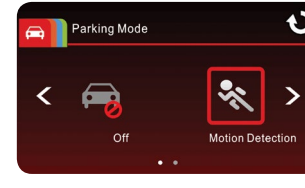

**Note:**

The **Driving Safety** functions such as **LDWS**, **FCWS**, **Headlight Warning**, **Speed Cam Alert** and **Driver Fatigue Alert** will be disabled if the product isn't connected to the external power supply.

### 3.2.8 Parking Mode

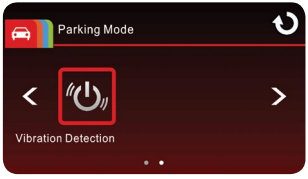
Parking Mode can be set to trigger recording when your vehicle is parked and powered off and an impact is detected via the G-Sensor or when movement is captured in front of the camera lens via Motion Detection.

To set Parking Mode, please follow the steps below:




1. Touch to enter **Main Menu**.
2. Touch switch over to **Driving Safety** Main Menu.
3. Touch / to locate Parking mode, and touch the icon to enter the Parking Mode menu.
4. In this menu you can touch the **Motion Detection** icon to activate. This will trigger a video recording if motion is detected in front of the camera while your vehicle is parked and powered off.

5. By touching the **Vibration Detection** icon you can activate the G-Sensor to trigger recording if your vehicle experiences an impact while it is parked and powered off
6. Parking mode can be disabled by touching the **Off** icon.
7. Touch to return to record screen.
8. Once the accessories power on your vehicle is turned off, the message "**Wait for 10 seconds to enter Parking Mode, or touch screen to power off.**" will appear. The Car DVR will automatically enter Parking Mode in 10 seconds, which enables the auto recording function if an impact is detected or any object moving in front of the Car DVR is captured by the camera.



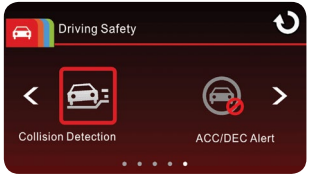

**Note:**
1. Each time **Parking Mode** is activated by G-Sensor or Motion Detection, the Car DVR will record for 3 minutes.
2. When the battery is fully charged, **Parking Mode** can record up to 30 minutes.
3. **Parking Mode** will still be active after the screen turns off.

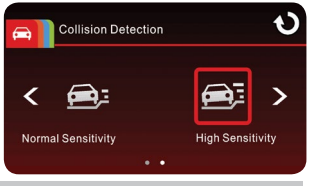
### 3.2.9 Collision Detection (G Sensor)

The sensitivity of the Collision Detection function is set to medium by default. The Car DVR will start an emergency recording once it detects any vibrations caused by a collision.

To change the settings of Collision Detection:

1. Touch to enter **Main Menu**
2. Touch to switch over to **Driving Safety** Main Menu.
3. Touch / to select to enter the **Collision Detection** menu.
4. Touch the / keys to change the sensitivity of the Car DVR's collision detection (Off / Low Sensitivity / Normal Sensitivity / High Sensitivity).
5. Touch to return to the record menu



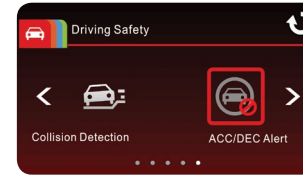

**Note:**
The emergency recording file is created as a new file, which will be protected to avoid being overwritten by normal loop recording. 8GB (or above) SD Micro Cards can save up to 10 emergency video files. The alert message of "**Emergency files are full**" will appear on the screen when the emergency recording files are full, and the oldest emergency file will be automatically deleted when a new emergency recording file is created.

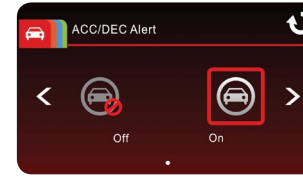
### 3.2.10 Accelerate / Decelerate Alert (ACC/DEC)

When **ACC/DEC** Alert function is enabled The Car DVR will produce voice and on screen alerts if the car accelerates 20 km/h in one second when driving at speeds over 80 km/h or decelerates 30 km/h in one second when driving at speeds under 50 km/h after position is determined by GPS.

To set the ACC / DEC alert, please follow the instructions below

1. Touch to enter **Main Menu**
2. Touch to switch over to **Driving Safety** Main Menu.
3. Touch / to select to enter the **ACC/DEC Alert** function menu, then touch (On) to enable the function **ACC/DEC Alert**.
4. Touch to return to the record menu
5. This product produces voice and on screen alerts once your car's location is determined by GPS and abruptly accelerates or decelerates.




**Note:**

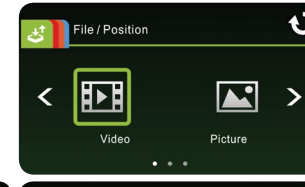
1. **ACC/DEC Alert** is only active when satellite positioning is available. Make sure GPS settings on your Car DVR is activated.
2. The **Driving Safety** functions such as **LDWS**, **FCWS**, **Headlight Warning**, **Speed Cam Alert**, and **Driver Fatigue Alert** will be disabled if the product isn't connected to the external power supply.

## 3.3 Playing Videos and Viewing Pictures

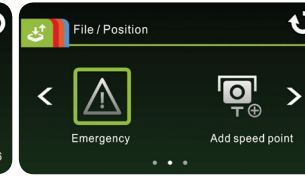
### 3.3.1 Playing Videos and Emergency Recordings

Playback video files as follows:

1. Touch to enter **Main Menu**
2. Touch to switch over to **File / Position** menu.
3. Touch / to enter the **Video/ Emergency** function menu.
4. Touch / to browse for required video file, touch selected preview of video to enter Playback Mode
5. Touch repetitively to return to Record Screen.





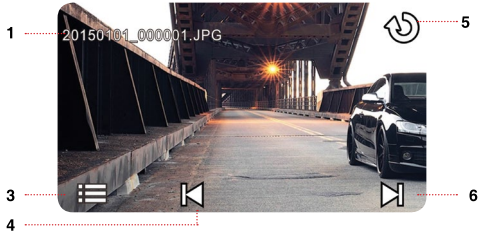


### 3.3.2 Viewing Pictures

View pictures as follows:

1. Touch to enter **Main Menu**
2. Touch to switch over to **File / Position** menu.
3. Touch to enter the **Picture** function menu.
4. Touch / to browse for required picture files, touch selected preview of picture to enter the **Picture Playback Mode**.
5. Touch repetitively to return to **Record Screen**.

### 3.3.3 The Playback Screen


| No. | ICON | ITEM | DESCRIPTION |
|---|---|---|---|
| 1 | 20150101_000001.MOV | File Name | Indicates name of current video or picture file. |
| 2 | 00:00:01/ 00:00:10 | Current Duration / Video Duration | Indicates time code and duration of current video file. |
| 3 | | Menu | Touch to enter File Deletion menu. |
| 4 | / | Fast Rewind / Previous File | • Touch when video or picture is not in playback to switch over to the previous file.<br>• Touch in video playback mode to reverse the playback. |
| 5 | | Return | Touch to return to preview screen of video or picture. Touch repetitively to return to record screen. |
| 6 | / | Fast forward / Next File | • Touch when video or picture is not in playback to switch over to the next file.<br>• Touch in video playback mode to enable fast forward playing of video. |
| 7 | / | Playback/ Pause | Touch / to play or pause the video. |

### 3.3.4 Deleting Files

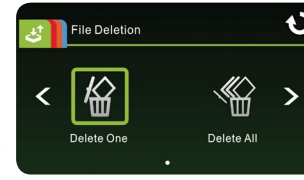
To delete file(s), do the following:

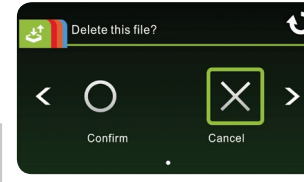
1. Touch to enter the **Main Menu**
2. Touch to switch over to **File / Position** menu.
3. Touch / / to enter the **Video/Picture/ Emergency** function menu.
4. Touch / to browse for required video or picture file; touch selected preview image to enter **Video/Picture Playback** Mode.
5. Touch to enter **File Deletion** menu, select / to delete one file or all files; touch / to confirm or cancel the selection.

| ITEM | DESCRIPTION |
|---|---|
| Delete One | Delete the current file. |
| Delete All | Delete all files. |

**Note:**
Deleted files cannot be recovered. Please ensure you have backed up your files before deleting them.

4. Touch to return to the Record screen



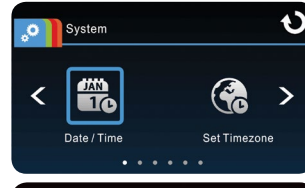



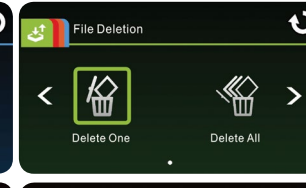

## 4. Adjusting the Settings

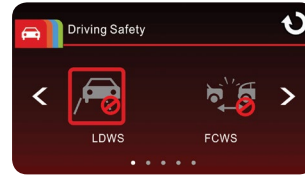
### 4.1 Using the Menu

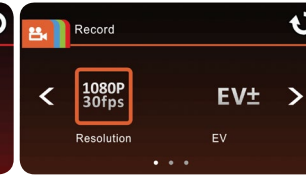
You can customise the general settings via the on-screen display (OSD) menus.

1. Touch in the record mode to stop the recording and enter into **Main Menu**.
2. Touch / / / to switch over to **Main** menus.
3. Touch / to browse for function items in the respective main menu; touch a function icon to enter setting screen.
4. On completion of setting a required function item, the Car DVR will return automatically to the main menu of the selected function.
5. Touch to return to Record Screen.



## 4.2 Menu Items

Refer to the below table for details of main menu and function list.

| MAIN MENU | FUNCTION LIST | DESCRIPTION | AVAILABLE OPTION |
|---|---|---|---|
| SYSTEM | | **Date/Time:** Set the date and time. | |
| | | **Set Timezone:** Set the time zone you are in. | UTC -12:00 ~ UTC +12:00 |
| | | **Time Sync:** When enabled, the Car DVR clock will be calibrated automatically based on satellite clock of the set time zone. | On / Off |
| | | **Beep:** Enable/Disable key beeps. | Off / Low / Medium / High |
| | ENG | **Language Setting:** Set the on-screen display menu language. | English / 繁體中文 / 体中文 / Русский / Español / Deutsch / Français / Português / Italiano / Japanese / Arabic |
| | LCD | **LCD Setting:** Set the amount of time of inactivity before the Car DVR screen goes into sleep mode. (Recording is not affected when screen is off). | On / Off After 30 sec. / Off After 3 min. |
| | | **Wi-Fi:** Set Wi-Fi linkage of a mobile device. | |
| | GPS | **Satellite System:** Select satellite system of the locality. | GPS / GLONASS |
| | | **Recorder Format:** Format the memory card inserted in the equipment. All the files in the card will be erased. | Yes / No |
| | | **Default Setting:** Resume the equipment to its default setting. | Yes / No |
| | | **Firmware Version:** Indicates the current Firmware. | |
| FILE / POSITION | | **Video:** Play / Delete a video file. | |
| | | **Picture:** Play / Delete a picture file. | |
| | | **Emergency:** Play / Delete an emergency record file. | |
| | | **Add speed point:** Manually add speed points after satellite positioning (Up to 200 user defined speed points can be added). | |
| | | **Delete speed point:** Delete all the user defined speed points from system. | |

| MAIN MENU | FUNCTION LIST | DESCRIPTION | AVAILABLE OPTION |
|---|---|---|---|
| DRIVER SAFETY |  | **LDWS:** Once your car's location is determined by GPS and the LDWS function is enabled, this product produces voice and screen message alerts when you drive off of or change lanes at speeds over 50 km/h | On/Off |
| |  | **FCWS:** When FCWS is activated after satellite positioning, device will issue a voice and on screen alert when the vehicle speed is above 60 km/h and the distance to the vehicle in front is less than 20m. | On / Off |
| |  | **FCMD:** Once your car's location is determined by GPS and the FCMD function is enabled, the Car DVR will detect the movement of the traffic in front of you after your car remains motionless for 20 seconds. It produces voice and on screen alerts when the traffic in front of you moves forward. | On / Off |
| |  | **Headlight Warning:** When Headlight Warning is activated, the Car DVR will give on screen and voice alerts reminding that low light conditions are detected. | On / Off |
| |  | **Speed Cam Alert:** If the Speed Cam Alert function is enabled, once your car's location is determined by GPS and approaches a recorded speed camera saved location, the Car DVR produces voice and on-screen alerts. (Speed camera data is plotted manually by the user) | On / Off |
| |  | **Speed Limit Alert:** If the Speed Limit Alert function is enabled, the Car DVR will give on screen and voice alerts once your car's location is determined by GPS and the cars speed exceeds the set limit. | Off / 50 km/h ~ 200 km/h |
| |  | **Driver Fatigue Alert:** If the Driver Fatigue Alert function is enabled, the Car DVR produces voice and on screen alerts one hour after it has started recording and repeats the alerts every half an hour afterwards. | On / Off |
| |  | **Parking Mode:** If Parking mode is activated, the device will automatically trigger recording when the device detects any motion in front of the car or vibrations. When the battery is fully charged Parking Mode can record continuously for up to 30 minutes. | Motion Detection / Vibration Detection / Off |
| |  | **Collision Detection:** If Collision Detection is activated, the Car DVR begins emergency recording once it detects any vibrations caused by a collision. | Off / Low Sensitivity / Normal Sensitivity / High Sensitivity |
| |  | **ACC/DEC Alert:** The Car DVR produces voice and screen message alerts if the ACC/DEC Alert function is enabled and detects rapid acceleration or deceleration. | On / Off |

| MAIN MENU | FUNCTION LIST | DESCRIPTION | AVAILABLE OPTION |
|---|---|---|---|
| RECORD | 1080P 30fps | **Resolution:** Setting of video resolution. | FHD (1080P/30fps) / HD30 (720P/30fps) / HD60 (720P/60fps) |
| | EV± | **EV:** Set the exposure compensation. | +2.0 ~ -2.0 |
| | AUTO | **Automatic Record:** Setting for enabling Automatic Record after device power on. | On / Off |
| | 3M | **Video Duration:** Set the length of video loop recording. | 3 min. / 5 min. |
| | | **Voice Record:** Setting for activating or muting audio recorded video. | On / Off |
| | Time | **Time Stamp:** Setting for the date and time stamp on the picture or video recorded. | On / Off |
| | WDR | **WDR:** The WDR function compensates for and optimises dim areas in poor external lighting environments. | On / Off |

## 5. Installing the Software


You can customise the general settings via the on-screen display (OSD) menus.

1. Place the included **CD ROM** into the CD player of your computer.
2. If the CD does not execute automatically, please use Windows File Manager to execute the Install_CD.exe file in the CD.

The screen (as pictured on the right) will be shown.

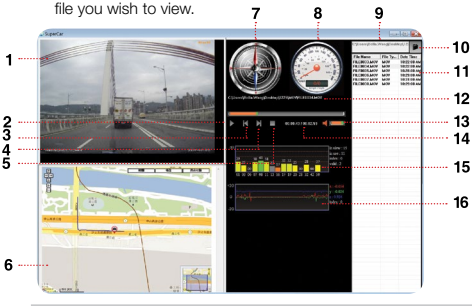
3. Click SuperCar to start the installation process and follow instructions on-screen.

**Note:**

1. If you do not have a CD reader on you computer, or are using a Macintosh computer, please visit **www.nanocamplus.com.au** or **www.nanocamplus.co.nz** to download the Supercar Software directly from the product page.
2. The **SuperCar software** is only applicable to Windows operating systems however a Mac version is in development, please check the product page at **www.nanocamplus.com.au** periodically for software updates.
3. For ease of installation and smooth file playback it is recommended to copy the installation software and playback files to your computer desktop before installation or media file playback.

## 6. SuperCar File Viewing Software

You can view your (.MOV) video files on any computer video playback device like Windows Media Player or QuickTime. However if you would like to view your video files in conjunction with live Google Maps and vehicle vital statistics like speed, direction or G-Sensor you will need to view the files using the supplied **SuperCar software**. To load files, open the software and browse for the file you wish to view.




**Note:**

1. To display the route on Google Maps, please make sure the internet is connected before starting the video playback.
2. Video files (MOV / TS) and GPS/G-Sensor files (NMEA) must be stored in the same folder before starting the playback.
3. The **SuperCar software** is only applicable to a Windows operating systems however a Mac version is in development, please check the product page at **www.nanocamplus.com.au** periodically for software updates.

| No. | ITEM |
|---|---|
| 1 | Video Player |
| 2 | Play / Pause |
| 3 | Previous |
| 4 | Next |
| 5 | Stop |
| 6 | Map |
| 7 | Compass |
| 8 | Speed Meter |
| 9 | File Path |
| 10 | Browser File |
| 11 | File List |
| 12 | File Name |
| 13 | Volume |
| 14 | Current Duration / Total Duration |
| 15 | Signal Noise Ratio (SNR) |
| 16 | G-Sensor |

## 7. Specifications

| FUNCTION LIST | DESCRIPTION |
|---|---|
| **Image sensor** | 1/2.7" CMOS sensor |
| **Effective pixels** | 1920 (H) x 1080 (V) |
| **Storage media** | Supports Micro SDHC Class 6, max. up to 32GB |
| **LCD display** | 2.7" LCD colour TFT touch screen |
| **Lens** | Wide Angle Fixed Focus lens |
| | F2.0, f=3.4mm |
| **Focus range** | 1.5m~Infinity |
| **Satellite System** | GPS / GLONASS (Satellite Positioning feature varies depending on the model) |
| **Wi-Fi** | 802.11 b/g/n (The wireless network feature varies depending on the model) |
| **Movie Clip** | Resolution: FHD (1080P/30fps); HD30 (720P/30fps); HD60 (720P/60fps) |
| | Format: MOV |
| **Still image (Snapshot)** | Resolution: 2M (1920 x 1080) |
| | Format: JPEG |
| **Shutter** | Electronic shutter Auto:1/2 ~1/2000 sec. |
| **G-Sensor** | 3-Axis G-Force sensor |
| **ISO** | Auto |
| **White Balance** | Auto |
| **Microphone** | Yes |
| **Speaker** | Yes |
| **Interface** | Mini USB |
| **Battery** | Built-in 470mAh Li-polymer rechargeable |
| **Operating Temperature** | 0° ~ 50° C |
| **Operating Humidity** | 20 ~ 70% RH |
| **Storage Temperature** | -20° ~ 80° C |
| **Dimensions** | 80 x 30.4 x 52.3 mm |
| **Weight** | Approx. 82g (without memory card) |

| Built-in IEEE 802.11n Wi-Fi module: WN7911B-WM | |
|---|---|
| Frequency range | 2412~2462MHz |
| Channel List | Ch1~Ch11 |
| Contains FCC ID: 2ACFIWM7911B | |

## About this Guide

The content in this document is for information purpose and is subject to change without prior notice. We made every effort to ensure that this User Guide is accurate and complete. However, no liability is assumed for any errors and omissions that may have occurred. The manufacturer reserves the right to change the technical specifications without prior notice.

## Warranty Terms & Conditions

Our goods come with guarantees that cannot be excluded under the Australian & New Zealand Consumer Law. You are entitled to a replacement or refund for a major failure and for 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.

This warranty is provided in addition to your rights under the Australian & New Zealand Consumer Law.

NanoCam Plus warrants that this product is free from defects in material and workmanship for a period of 12 months from the date of purchase or for the period stated on the packaging. This warranty is only valid where you have used the product in accordance with any recommendations or instructions provided by NanoCam Plus.

This warranty excludes defects resulting from alterations of the product, accident, misuse, abuse or neglect.

In order to claim the warranty, you must return the product to the retailer from which it was purchased or if that retailer is part of a National network, a store within that chain, along with satisfactory proof of purchase. The retailer will then return the goods to NanoCam Plus. NanoCam Plus will repair, replace or refurbish the product at its discretion. The retailer will contact you when the product is ready for collection. All costs involved in claiming this warranty, including the cost of the retailer sending the product to NanoCam Plus, will be borne by you.

**NanoCam Plus Address:** 44 Translink Drive, Keilor Park Victoria Australia 3042

**Ph:** +61 03 8331 4800

**Email:** info@nanocamplus.com.au

www.nanocamplus.com.au
www.nanocamplus.co.nz