

HM-DVR2

Dual Channel Discreet Dash Camera

🔄 2K



3-YEAR WARRANTY

User Manual

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1.0 CAUTION

- Ensure you are using your Dash Camera within your countries' road laws. Please make sure you are familiar with your local road legislation before use.
- Please set the time and date before you use this device to record.
- The notifications given by the Dash Camera are suggestions only, please drive according to the actual road conditions.
- The system is to be used only for non-commercial use, within the limits permitted by the relevant laws
- Avoid using the Dash Camera in the vicinity of any devices that emit radio interference (eg. Microwave Ovens).
- It is considered normal operation for the Dash Camera to get warm during use.

2.0 INTRODUCTION

Thank you for purchasing a Hema Dash Camera. We are certain that this product will give you trouble free operation while providing you with features that enhance your driving experience. Our products are designed to assist and aid the driver, not to replace the manual function of the person operating the vehicle. Please read through these instructions before attempting to install this product.

For the latest manual and product updates, please visit our website at **hema.com.au** or **hema.co.nz**

2.1 NOTES ON MICRO SD CARD

This Dash Camera can only be used with Micro SD Cards, Class 10 or above with 32GB - 128 GB storage capacity. (Micro SD card is not included and needs to be purchased separately) Please format your Micro SD card before use.

NOTE:

• Formatting the Micro SD card will delete all information on the inserted Micro SD Card and prepare the card for use with the Dash Camera.

2.2 FORMATTING THE INSERTED MICRO SD CARD

Please download the HEMA-DVR App and connect your Dash camera with the downloaded app by following the steps as described in section 7.0 on page 32.

Please enter the Settings Section and select "Format SD card".

The Dash Camera will format the Micro SD card and will provide an audio notification that the Micro SD card has been formatted.

Alternatively, once the Micro SD card is inserted into the Dash Camera and connected to power, please press the blue power button on the Dash Camera 3 times rapidly. This will format the Micro SD card.

NOTES ON INSTALLATION

- 1. It is advised that the Dash Camera is installed near the rear view mirror, at the top centre of the windscreen 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. Fingerprints 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. Only use the included charging cable to power the Dash Camera.

3.0 PACKAGE CONTENTS

- 1. HM-DVR2 Dash Camera
- 2. Internal Rear Camera
- 3. Electrostatic Film x2
- 4. 12V/24V Power Adaptor

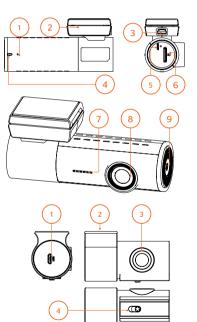
4.0 PRODUCT OVERVIEW DASH CAMERA

- 1. Microphone
- 2. 3M adhesive mount
- 3. Mini USB connector (for power)
- 4. Recording indicator LED
- 5. Reset button
- 6. Micro SD card slot
- 7. Speaker
- 8. Camera lens
- 9. Power button/Wi-Fi On and Off/Lock file

REAR CAMERA

- 1. Micro USB Connector (Connect to Front Camera)
- 2. Adhesive Sticker
- 3. Camera Lens
- 4. Mirror Image Switch

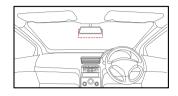
- 5. Spare 3M Adhesive Sticker
- 6. 8m Rear Camera Cable
- 7. 3-Wire Hardwire Kit
- 8. User Manual



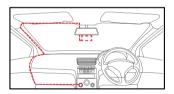
5.0 INSTALLATION INSTRUCTIONS

5.1 HM-DVR2 INSTALLATION

 OPTIONAL: Select the electrostatic film from the box and install it on the front windscreen in the recommended position as per the illustration. Please wipe the glass before installation and push out any air bubbles between the static film and the glass before installation.



- Remove the protective film off the HM-DVR2 mount and position the Dash Camera in the middle of the electrostatic film. Press down the base of the bracket by hand for 30 seconds to ensure that the adhesive mount is attached to the electrostatic film, and adjust the camera by rotating the barrel until it is capturing the entire road.
- Run the Dash Camera cable along the top of the front windscreen through the A-pillar and around and under the glove box to the car's 12V/24V adaptor port. Connect the 12V/24V adaptor to the car power.

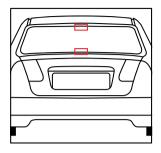


NOTE:

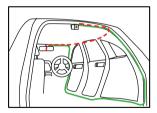
• The electrostatic film helps for easy removal of the dash camera from the windscreen and is included in package contents.

5.2 REAR CAMERA INSTALLATION

- Install the electrostatic film on the rear windscreen in one of the recommended positions as shown in the diagram. Please wipe and clean the windscreen before installation and push out any air bubbles between the electrostatic film and the glass before installation.
- 2. Remove the protective film from the rear camera bracket and select either the top or bottom of the rear windscreen to position the rear camera.



- 3. Press down the base of the bracket by hand for about 30 seconds to ensure that the adhesive sticker is properly attached to the electrostatic film.
- Connect the rear camera to the HM-DVR2 using the supplied rear camera cable. Run the cabling either through the roof lining or under the carpet.
- Adjust the angle of the rear camera accordingly to ensure that you have a good rear view from your vehicle.



5.3 THE 3-WIRE SMART HARDWIRE KIT

IMPORTANT: REFER TO YOUR VEHICLE OWNER'S MANUAL TO DETERMINE:

- Location of the fuse box
- How to access the fuse box
- The type of fuse tap required

It is highly recommended that you thoroughly read the installation instructions in this user manual. If you are not comfortable with the process, please seek further assistance from an authorised technician.

Most vehicles have a fuse box underneath the dashboard on the driver's side which is easily accessible below the steering column (behind a removable panel). However, the location does vary between vehicle make and model.

There are 4 types of fuse tap cables included in this kit. Check to see if these fuses suit your vehicle's fuse box. If none are suitable, you will need to purchase the correct fuse tap to attach the hardwire kit to your vehicle's power source.

Note: You may need to consult your vehicle manufacturer for instructions on how to remove vehicle fittings (for example, the A-pillar panel) for routing the hardwire kit cables inside your vehicle and for where airbags are located so that these are not obstructed by the routed cables in case of deployment.

Working with your vehicle's power systems can be hazardous both to you and the vehicle if you are not familiar with such tasks. If you have any doubts regarding the installation of the smart hardwire kit, it is recommended that you seek a qualified auto technician for assistance. IMPORTANT: Please refer to your dashcam user manual for installation of the dashcam in your vehicle.

The smart hardwire kit provides continuous power to the dashcam from the vehicle battery. If there are any issues with your dashcam, please refer them to your dasham manufacturer.

5.3.1 PRODUCT INFORMATION

Get continuous power for your dashcam. The 3-Wire Smart Hardwire Kit connects to your vehicle battery through your vehicle's fuse box and provides continuous power to your dashcam, even when the engine is turned off. It includes several fuse tap options that suit most vehicles and your dashcam connects to the hardwire kit via the Mini USB connector. For the latest manual and product updates, please visit **hema.com.au or hema.co.nz.**

5.4 HARDWIRE KIT FEATURES

- Suitable for use in cars and trucks with with a 12V or 24V battery.
- Provides continuous power to your dashcam even when your vehicle is turned off.
- Battery Drain Protection safeguards your dashcam from draining your vehicle's battery. Your battery will stop providing power to your dashcam if your battery level gets too low.
- Two sets of four different fuse tap cables are provided to connect the kit to the vehicle fuse box to enable the dashcam to operate with its own power supply.

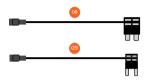
5.5 PACKAGE CONTENTS

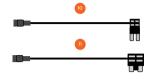
5.5.1 HARDWIRE KIT



- 1. Red Input Connector
- 2. Black Input Connector
- 3. Yellow Input Connector
- 4. Input Cable
- 5. Control Box with Adhesive Pad
- 6. Output Cable
- 7. Output Connector

VEHICLE FUSE OPTIONS (USE ONLY ONE OPTION FOR INSTALLATION)





- 8. ATS (Standard) Fuse Cable
- 9. Mini Fuse Cable
- 10. Micro2 Fuse Cable
- 11. Micro Fuse Cable

5.5.2 ACCESSORIES



1. Cable Ties x 4

5.6 BATTERY DRAIN PROTECTION

The hardwire kit will protect your dashcam from draining your vehicle's battery. If your vehicle's battery voltage gets too low, the 3-wire hardwire kit will stop powering your camera to save power.

5.7 SETTING THE CUT-OFF VOLTAGE SWITCH

Set the cut-off voltage to the preferred voltage limits before the hardwire kit cuts off the output.

There are four protection bands set within the hardwire kit for your selection.

FOR 12V BATTERIES

The protection voltages are 11.8V / 12.0V / 12.2V / 12.4V. The 12.2V setting is recommended for general driving conditions.

FOR 24V BATTERIES

The protection voltages are 23.6V / 24.0V / 24.4V / 24.8V. The 24.4V setting is recommended for most users in general driving conditions.

The hardwire kit will identify the lead acid battery type automatically (12V or 24V) and protect your battery from draining accordingly.

SETTING THE PARKING MONITOR SWITCH

Which is set as default (High) on the right side and is automatically selected to comply with all Hema dash camera models.

5.8 VEHICLE BATTERY LEAD ACID STATE AND CAPACITY

Use the table below to help determine the desired voltage cut-off level for battery drain protection.

For example if the temperature is 38°C and you want to keep a 75% lead acid state capacity remaining in your battery when the hardwire kit cuts off output (meaning the battery voltage is approximately 12.4V) the cutoff voltage should be set at the 12.4V band. This means that there will be a 25% capacity in your vehicle battery to be used for your dashcam while your vehicle is parked.

TEMPERATURE	LEAD ACID STATE AND VOLTAGE (VOLT)				
°c	100%	75%	50%	25%	0
-7	12.794	12.594	12.384	12.204	12.034
-1	12.77	12.57	12.36	12.18	12.01
4	12.746	12.546	12.336	12.156	11.986
10	12.722	12.522	12.312	12.132	11.962
16	12.698	12.498	12.288	12.108	11.938
21	12.674	12.474	12.264	12.084	11.914
27	12.65	12.45	12.24	12.06	11.89
32	12.626	12.462	12.216	12.036	11.866
38	12.602	12.406	12.192	12.012	11.842
43	12.578	12.378	12.168	11.988	11.818
49	12.554	12.354	12.144	11.964	11.794

As an example, for a 50Wh lead acid battery, the 25% consumption level will enable approximately 50 hours of dashcam operation.

NOTE: Please be advised that the above table is to be used as a reference guide only in order to determine an appropriate voltage selection dependent on the battery age and condition.

5.9 HARDWIRE KIT INSTALLATION

The location of the vehicle's fuse box varies by vehicle make and model. Locations may include underneath the driver's side dashboard, behind the glove box and underneath the central console. When in doubt, always refer to your vehicle owner's manual to determine the location of the fuse box in your vehicle.

NOTE: The images in this installation were taken for a vehicle where the fuse box is located under the driver's side dashboard (Fig. 1, 2) and should be used as a guide only for a DIY installation. To ensure proper installation, it is recommended to seek a qualified auto technician to install the 3-wire hardwire kit.



FIG.1



FIG. 2

There are two main stages in the hardwire kit installation

- Connecting the output cable to your dashcam
- Connecting the input cables to your fuse box and grounding

NOTE: Determine the location of your vehicle's fuse box before commencing installation of the hardwire kit. When in doubt, refer to the vehicle owner's manual.

5.10 CONNECTING HARDWIRE KIT TO YOUR DASHCAM

IMPORTANT: Refer to your dashcam owner's manual for initial installation of the dashcam in your vehicle.

5.10.1 ATTACHING THE USB CABLE TO THE DASHCAM

- * Note, images are for instruction purposes only, the actual dashcam in this kit may vary from the images.
 - 1. Insert the USB cable into your dashcam (Fig. 3a,3b).



FIG. 3a





5.11 ROUTING OUTPUT CABLE FROM THE DASHCAM TO FUSE BOX

NOTE: You may need to consult your vehicle manufacturer for instructions on how to remove vehicle fittings (for example, the A-pillar panel) for routing the hardwire kit cables inside your vehicle and for where airbags are located so that these are not obstructed by the routed cables in case of deployment.

5.11.1 INSTALLING THE OUTPUT CABLES IN YOUR VEHICLE

- 1. The hardwire kit output cable can be recessed into the roof lining where it meets the edge of the windscreen to conceal the cable (Fig. 5).
- At the farthest end of the roof lining the output cable needs to be routed along the A-pillar that is closest to the fuse box of the vehicle. You will need to remove the door seal (Fig. 6) and A-pillar panel (Fig. 7) to route the cable (Fig 8a, 8b). Route the cable all the way down to the end of the A-pillar where it meets the dashboard.
- 3. Use the provided cable ties to attach the output cable to any existing cable(s) that may be housed in the A-pillar (Fig. 9a, 9b).

NOTE: The A-pillar that is used to route the cable may not be at the driver's side as shown. Please refer to your vehicle owner's manual to determine the location of the fuse box in the vehicle. The output cable needs to be routed in the A-pillar closest to the fuse box.



FIG. 5

INSTALLING THE OUTPUT CABLES IN VEHICLE CONT'D



FIG. 6



FIG. 7

INSTALLING THE OUTPUT CABLES IN VEHICLE CONT'D



FIG. 8a



FIG. 8b

INSTALLING THE OUTPUT CABLES IN VEHICLE CONT'D



FIG. 9a



FIG. 9b

5.11.2 HOUSING THE OUTPUT CABLE

- 1. Where the output cable from the A pillar meets the side of the dashboard, the output cable will then need to be routed towards the direction of the fuse box by concealing the cable along the side of the vehicle dash (Fig. 10a, 10b).
- 2. Any excess output cable length can be wrapped and held together with a cable tie when it reaches the fuse box (Fig. 11).
- 3. Tuck away any excess output cable behind the fuse box (Fig. 12).
- 4. If required, peel off the adhesive tape on the control box to attach it to your vehicle close by to the fuse box.



FIG. 10a

HOUSING THE OUTPUT CABLE CONT'D



FIG. 10b



FIG. 11



FIG. 12

5.11.3 CONNECTING TO THE FUSE BOX

NOTE: Refer to your vehicle's fuse layout panel to determine the permanent power fuse for constant and accessories power feed. The fuse cable needs to be connected to the 12V/24V battery feed.

- 1. Determine the fuse tap cable required for connection to your fuse box. When in doubt, refer to the vehicle owner's manual.
- 2. Place the vehicle fuse in the fuse tap cable. Note the correct positions location for both the vehicle fuse and the hardwire kit fuse in the fuse tap cable (Fig. 13).

ACCESSORIES POWER FUSE CONNECTION - RED CABLE



- 1. Connect the red input connector to the fuse tap cable (Fig. 14a, 14b). Ensure the connection is secured.
- 2. Insert the fuse tap into the fuse box (Fig. 15a, 15b).
- 3. Tuck away any excess input cable behind the fuse box.



FIG. 14a

CONNECTING TO THE FUSE BOX CONT'D



FIG. 14b

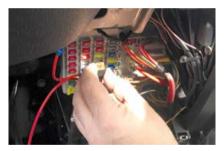


FIG. 15a



FIG. 15b

CONSTANT POWER Fuse Connection - Yellow Cable

Please follow the steps outlined above (Fig. 14 to Fig. 15) to connect the CONSTANT POWER fuse connection using the yellow input connector.

NOTE: To determine constant power feed fuse, use a voltage meter.

5.11.4 CONNECTING TO GROUND

- 1. Locate an earth terminal/bolt or any vehicle bolt that is mounted on the chassis of the vehicle that is nearest to the fuse box (Fig. 16).
- 2. Loosen the bolt and attach the black input cable eyelet to the bolt. Fasten the bolt.
- 3. Tuck away any excess input cable behind the fuse box.

NOTE: The black earth cable needs to be connected to the vehicle chassis otherwise it will not earth out.



FIG. 16

5.12 SPECIFICATIONS

HARDWIRE KIT: CABLES			
RED INPUT CONNECTOR	BULLET PLUG OD4MM		
BLACK INPUT CONNECTOR	ROUND RING TERMINAL, NICKEL PLATED, OD10MM ID6MM L20MM		
INPUT CABLE	THREE CABLES (RED: 12/24V ACCESSORY, YELLOW: 12/24V POWER, BLACK: GROUND), 2X22AWG, CONDUCTOR, SR-PVC INSULATION, PVC JACKET, UL1015/2586, 1M, 150MM CLEARANCE		
OUTPUT CABLE	THREE CABLES, 2X22AWG CONDUCTOR; SR-PVC INSULATION, PVC JACKET; UL/1007/2464, 3M		
OUTPUT CONNECTOR	DC3.5X1.35 MINI USB RECEPTOR		
HARDWIRE KIT: CONTROL BOX			
FLAME RETARDANT ABS 94V0, CONTAINS DC-DC CONVERTER			
INPUT VOLTAGE MIN	10V		
INPUT VOLTAGE MAX	32V		
OUTPUT VOLTAGE	NO LOAD: 5.1V 0.5A LOAD: 5.1V 1A LOAD: 5.1V 2A LOAD: 5.1V		
OUTPUT POWER	DC5V 2.5A MAX		
BATTERY DRAIN PROTECTION BANDS	11.8V/23.6V 12.0V/24.0V 12.2V/24.4V 12.4V/24.8V		

OTHER PROTECTION	REVERSE POLARITY; SHORT CIRCUIT; OVER TEMPERATURE; OVER VOLTAGE; OVER LOAD
WORKING TEMP	-20°C TO 65°C
FUSE CABLES	
ATS (STANDARD) FUSE CABLE	CABLE WITH 5A ATS (STANDARD) FUSE, L125MM
MINI FUSE CABLE	CABLE WITH 5A MINI FUSE, L125MM
MICRO2 FUSE CABLE	CABLE WITH 5A MICRO2 FUSE, L125MM
MICRO FUSE CABLE	CABLE WITH 5A MICRO FUSE, L125MM
ACCESSORIES	
CABLE TIES	QUICK FIX CABLE TIE, BLACK PA66, UL94V2, -20°C TO 105°C, 8KGs, W2.5MM L80MM

6.0 DASHCAM QUICK KEY FUNCTIONS

By pressing the Power button multiple times you can access several quick key functions.

OPERATION	FUNCTION
Press and Hold for 2 seconds	Power ON/Off Device
Press Once	On/Off Wi-Fi
Quick Press x2	Lock File
Quick Press x3	Format the Micro SD card*
Quick Press x5	Reset To Default settings^

- * Formatting the Micro SD card will delete all information on the inserted Micro SD Card and prepare the card to be used with the HM-DVR2.
- ^ Restoring to default settings will also change the WIFI password to default **12345678**. If you have forgotten your Wi-Fi password, please reset to default settings.

6.1 LED INDICATOR

The colour of the HM-DVR2 LED Light helps to indicate the following fuctions.

- 1. Constant red: Not recording
- 2. Constant blue: Recording in normal mode
- 3. Blue flashing: Recording an emergency event
- 4. Green flashing: Updating firmware
- 5. Constant green: Video playback in App

7.0 DOWNLOADING AND INSTALLING THE HEMA-DVR APP

The HM-DVR2 should be be used in combination with HEMA-DVR App to access all the features of the DVR.

All major settings on the HM-DVR2 are edited through the HEMA-DVR App. The system requirements for your smart phone are noted below.

iPhone: iPhone 5 or later using iOS 8.0 and above.

Samsung Galaxy: S3 and later using Android 4.2.2 and above.

For you to correctly connect your smart device to your HM-DVR2 you will need to have the HEMA-DVR App from the Apple App Store or Google Play Store installed on your smartphone. You will also need to connect your smart phone to the HM-DVR2's Wi-Fi signal using your smartphone's Wi-Fi settings.

For Android devices: Please search the "HEMA-DVR" App in the Google Play Store for installation. Alternatively you can scan the QR code found in the system settings in your Dash Camera. You can also scan the QR code on the following page.

For iOS devices: Please search the "HEMA-DVR" App in the Apple App Store for installation. Alternatively you can scan the QR code found in the system settings in your Dash Camera. You can also scan the QR code on the following page. For a step by step guide on connecting your Dash Camera to your smartphone please follow the steps below.

- 1. On your smart device download the "HEMA-DVR" App from the Google Play Store if you are using an Android device, or the Apple App store if you are using an iPhone. You can also scan the QR code below.
- 2. Power up the Dash Camera and allow 2 minutes for the Wi-Fi connection to start.
- Once the App is downloaded and installed on your smartphone and the Dash Camera is powered up, open your smartphone's Wi-Fi settings and connect to the wireless connection named HM-DVR2.
- 4. When prompted enter the password 12345678

WIFI Name: HM-DVR2_XXXX (XXXX is unique number to each Dash Camera)

Password: 12345678

 Once the connection has been made, open the HEMA-DVR App. You will now be able to access the live recording screen for the front and rear cameras, stored videos, and your Dash Camera settings.



HEMA-DVR App Scan the QR code for a direct link to download the HEMA-DVR App.

NOTE:

- To ensure that the DVR pairs with your smartphone properly, please turn on the DVR and keep the smartphone in close proximity to the DVR for successful pairing via Wi-Fi.
- The DVR will need to be continuously powered on to maintain the connection with your smartphone.

7.1 HEMA-DVR APP OPERATION

To use the HEMA-DVR App, your smart device will need to be connected to the dash camera WI-Fi connection. For instructions on connecting your dash camera to your smartphone's Wi-Fi, please follow the steps in the previous section.

7.2 APP VIDEO PLAYBACK

For Video Playback via the App, please follow the instructions below.

- 1. Open the HEMA-DVR APP.
- 2. Select your DVR model
- 3. Press the Album Button.
- 4. Click on the Video Folder and select the video you want to view.



7.3 DOWNLOADING VIDEOS FROM THE APP

To download your dash camera videos, please follow the instructions below.

- 1. Open the HEMA-DVR App.
- 2. Press the Album Button.
- 3. Select the video/videos and press the download button.
- 4. The download will start and will save to your smartphone which can also be accessed through the HEMA-DVR App in the Folder name Local.

7.4 SHARING VIDEOS ON SOCIAL MEDIA

To share videos on Social Media, please follow the instructions below.

- 1. Open the HEMA-DVR App.
- 2. Press the Album Button.
- 3. Open the Local folder on the HEMA-DVR App, all downloaded files can be accessed via the local folder.
- 4. Select the files you want to share, and then press the share button below.
- 5. Select the social media application you wish to share on.

8.0 HEMA-DVR APP SETTINGS

MENU	SETTING	DESCRIPTION	
Microphone	ON, OFF	Turns microphone ON/OFF	
Loop Recording	1 and 3 Minutes	Loop recording allows you to set the duration that the camera will record before creating a new clip	
Volume	Off, Low, Mid, High	Controls the sound level of the built-in speaker	
G-Sensor	Off, High, Mid, Low	The G–Sensor monitors your vehicle for impacts. The Dash Camera will automatically lock the recording in the event of a collision. You can turn off or adjust the sensitivity of the built in G-Sensor.	
Parkmode*	ON, OFF	Activates Time lapse mode when the car is parked and the engine is turned OFF. *Requires 3-wire hardwire kit Default: Off	
Adjust Time	Day, Month, Year	Adjusts the time on the timestamp.	

HEMA-DVR APP SETTINGS CONT'

MENU	SETTING	DESCRIPTION
Format SD Card	Formats the Micro SD card.	Deletes all recorded data off the Micro SD Card.
Wi-Fi Settings	N/A	Changes the dash camera's Wi-Fi's name and password from default.
Factory Settings	N/A	Restore factory settings.
Help	N/A	FAQ
About DVR	N/A	Firmware version

9.0 WARRANTY TERMS AND CONDITIONS

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 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 Consumer Law. Directed Electronics Australia Pty Ltd (Directed Electronics) warrants that this product is free from defects in material and workmanship for a period of 36 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 Directed Electronics.

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 Directed Electronics.

Directed Electronics 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 Directed Electronics, will be borne by you.

Please scan the QR code for Hema support

Or visit Hema support at:

https://support.hema.com.au

Phone: +61 03 8331 4800

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INDEMNITY

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