



Hema

HM-CAM20

# Universal Rear Camera



## User Manual

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HEMA  
PROTECT

3-YEAR  
WARRANTY



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## 1.0 INTRODUCTION

Thank you for purchasing a Hema HM-CAM20 Universal Rear Camera. We are certain that this product will give you trouble-free operation while providing you with safety features that enhance your driving experience.

### DISCLAIMER

Our products are designed to assist and aid the driver, not to replace the manual function of the person operating the vehicle.

Although the HM-CAM20 is a visual aid and will allow you to view what is behind the vehicle, it does not remove the responsibility of driving the vehicle from the driver. Legal responsibility and safe driving practise remains with the driver at all times. You have purchased this product with the understanding that its use is as an aid only. We highly recommend that you have this product professionally installed to ensure that it will provide the functions it is set out to perform.

### CAUTION

Ensure you are using your rear camera within your countries' road laws. Please make sure you are familiar with your local road legislation before use.

### **IMPORTANT NOTICE**

- Please read this manual carefully before using the product.
- Wire connection points should always be insulated.
- Wiring should always be installed away from heat sources and electrical components.
- Please perform tests after finishing installation to ensure the camera is working correctly.
- This camera is intended for use as an aid when reversing your vehicle. Drivers must always use extreme caution when operating a vehicle.
- Specifications are subject to change without notice.

### **WARNING**

- Do not disassemble the camera or cut the camera cable as this voids the warranty. Disassembling the camera will compromise the waterproof seal.

## 1.1 COMPONENTS



HM-CAM20  
Rear Camera



6m Rear  
Camera Cable



3M Adhesive  
Sticker

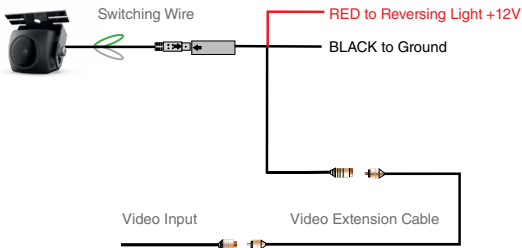


User  
Manual

## 1.2 SPECIFICATIONS

Signal System:	NTSC/ PAL
Horizontal Resolution:	800 TVL
Minimum Illumination:	0.1 - 0.5Lux
Diagonal Angle:	170°
Waterproof Rating:	IP69K
Nominal Voltage:	12V/24V
Working Temperature:	-30°C to 85°C

## 2.0 WIRING DIAGRAM





- **Front View Option:** The HM-CAM20 functions as a rear view camera as standard. For front view application, please cut the thin **WHITE** wire near the camera lead and restart power to see the image reversed. (Refer to FIG. 01)
- The built-in **G-Sensor** will adjust the reversing guidelines in accordance with vehicle movement.



- **Guideline Option:** The HM-CAM20 has reversing guidelines as a default. To remove the default setting, cut the thin **GREEN** wire near the camera lead. (Refer to FIG. 01)

### 3.0 TESTING

1. Apply the parking brake as a safety precaution.
2. Turn on the ignition but **DO NOT START THE ENGINE**.
3. Shift into reverse gear.
4. Image should appear on the Monitor (sold separately).

### 4.0 TROUBLESHOOTING

PROBLEM	SOLUTION
"No Signal" appears while reversing	1. Check video input connections 2. Check camera power connections
Video image is not sharp	Check camera lens for debris

### 5.0 CARE AND MAINTENANCE

Always keep the camera clear of dirt and mud. Clean the camera with a soft moist cloth.

## 6.0 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

[www.hema.com.au](http://www.hema.com.au)





## 6.1 INDEMNITY

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## 6.2 WARRANTY AND WARRANTY DISCLAIMER

Hema has a limited warranty on whereby Directed warrants to you and only to you that this Hema product will be free from defects in materials and workmanship for three (3) years from the date of your purchase (unless a longer warranty period is required by law). The specifics of this Hema limited warranty are covered in this manual.

To the extent possible under governing law, other than the above product warranty for the Hema product, you understand and agree that the Hema products and services are provided on an “as is” and “as available” basis. Directed makes no warranty that the Hema products and services will meet your requirements or that use of the Hema products and services will be uninterrupted, timely, secure or error-free nor does Directed make any warranty as to the accuracy or reliability of any information obtained through Hema (including third party content), that any defects in Hema products and services will be corrected or that Hema products or services will be compatible with any other specific hardware or service. Further, Directed does not warrant that Hema products or services or Hema servers will provide you with data and content are free of viruses or other harmful components. Directed also assumes no responsibility for and shall not be liable for any damages caused by viruses that may infect your Hema product, computer software, or other hardware.

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This warranty and warranty disclaimer give you specific legal rights, and you may have other rights that vary by state, province or country. Other than as permitted by law, Hema does not exclude, limit or suspend other rights you have, including those that may arise from the non-conformity of a sales contract. For a full understanding of your rights, you should consult the laws of your state, province, or country. For our Australian customers: please note that this warranty is in addition to any statutory rights in Australia in relation to your goods which, pursuant to the Australian Consumer Law, cannot be excluded.

### 6.3 LIMITATIONS OF LIABILITY

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