



# Connects2Vision

## User Manual

### CAM-20

Universal Camera  
Surface Mount  
Horizontal Metal Bracket

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#### PRODUCT FEATURES:

Image Sensor: 1089 HD CCD  
TV Lines: 600  
Resolution: 800 x 533  
Minimum Illumination: 0.05 Lux  
TV System: NTSC/PAL  
Waterproof Rating: IP68  
Horizontal Angle: 170 Degrees  
Vertical Angle: 120 Degrees  
Parking Lines: Yes (Removable)  
Image Adjustment: Yes (Mirror/Normal)  
Enhanced Performance In Low Light: Yes  
Video Output: 1.0V p-p 75ohm  
Operating Voltage: 12V DC (Negative Ground)  
Current Consumption: 94mA @ 13.8V  
Operating Temperature: -20 Degrees C to +60 Degrees C

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#### DISCLAIMER:

##### Prior to Installation

Read the manual prior to installation. Technical knowledge is necessary for installation. Please ensure you use the correct tools to avoid damage to the vehicle or product.

***Connects2 can not be held responsible for the installation of this product.***

##### Technical Support

Connects2 want to provide a fast and suitable resolution should you encounter any technical issues. With this in mind, when contacting Connects2, try to provide as much Information as possible. This will speed up the process and help us to help you.

**Please use our dedicated online technical support centre: [support.connects2.com](http://support.connects2.com)**

# [www.c2vision-eu.com](http://www.c2vision-eu.com)

## **CONTENTS:**

## **Connects2Vision**

- Camera with mounting bracket, flush-mounting accessories and 90cm cable to mini Male 6pin connector
- Camera connection cable with mini Female 6pin connector to RCA Female connector and 1m DC power cable
- 6m Male to Male RCA extension cable
- Adhesive pad
- 15.5mm hole saw
- Instructions

## **INSTALLATION**

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### **Using the Mounting Bracket**

1. Connect the Black wire to a suitable ground and the Red wire to a switched +12V supply. If the camera is to be used in the rear of the vehicle, the Red wire should be connected to the reversing light circuit or an interface which provides a reverse signal.
2. Select a suitable location for the camera and ensure that the area is free from all cables, fuel & oil. Whenever possible, avoid locations that are subject to road dirt & water spray.
3. Remove the protective backing from the adhesive pad and place the camera in the required position. Using the supplied video cable, connect the camera to the display screen and ensure that the image is displayed correctly.

*NB: Rotation of the camera may be required to ensure that the correct orientation of the image is achieved.*

### **Using the Flush-Mounting Accessories**

1. Unscrew and remove the lens cover. Remove the mounting bracket and attach the flush-mounting accessories to the camera.
2. Connect the Black wire to a suitable ground and the Red wire to a switched +12V supply. If the camera is to be used in the rear of the vehicle, the Red wire should be connected to the reversing light circuit or an interface which provides a reverse signal.
3. Select a suitable location for the camera and ensure that the area is free from all cables, fuel & oil. Whenever possible, avoid locations that are subject to road dirt & water spray. Aim to mount the camera preferably 45-60cm from the ground and cut a suitable hole using the cutting tool provided.
4. Using the supplied video cable, connect the camera to the display screen and ensure that the image is displayed correctly.

*NB: Rotation of the camera may be required to ensure that the correct orientation of the image is achieved.*

### **Parking Line/Image Adjustment**

To remove the parking line feature, cut the small Blue looped wire located on the camera connection cable.

To swap the image from mirror to normal view, cut the small White looped wire located on the camera connection cable.