



...connecting to the aftermarket

# Connects2 Vision

## User Manual

### CAM-FD9

Tailgate Handle Camera  
Ford Ranger 2012 - 2016

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#### PRODUCT FEATURES:

CMOS Image Sensor  
640 x 480 Resolution  
Max Relative Aperture: 2.2 (+/- 5%)  
Fixed Iris  
Lens Construction: 3 elements + 1 IR filter  
Field Of View: D = 168 Degrees, H = 136 Degrees, V = 100 Degrees  
Hard/Anti-Fog/IR-Cut Coating  
NTSC/PAL Compatible  
Video Output: 1.0V p-p 75ohm  
Minimum Illumination: 0.1 Lux  
Parking Lines Displayed  
Operating Voltage: 12V DC (Negative Ground)  
Current Consumption: 33mA @ 13.8V  
Operating Temperature: -20 Degrees C to +70 Degrees C  
Enhanced Performance In Low Light  
Waterproof Rating: IP68

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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)**

- Camera with 50cm cable to Male 4pin connector
- Camera connection cable with Female 4pin connector to 8m video cable and 3m DC power cable with inline fuse holder/fuse
- Instructions

## INSTALLATION

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**NB: To switch from NTSC to PAL, cut the small white looped wire on the camera cable. To remove the parking line feature, cut the small blue looped wire on the camera cable.**

1. Firstly, remove the inner panel from the tailgate and remove the handle fixing screws. Then remove the tailgate handle from the vehicle.
2. Remove the locking mechanism from the factory tailgate handle and refit it into the replacement handle containing the camera.
3. Attach the camera to the vehicle using the original screws and route the camera cable through the tailgate and under body to the location of your monitor.
4. Connect the Black wire to a suitable ground and the Red wire to the reversing light circuit or an interface which provides a reverse signal.
5. Connect the camera cable to the connection cable and connect the video cable to the display monitor and ensure that the image is displayed correctly.



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