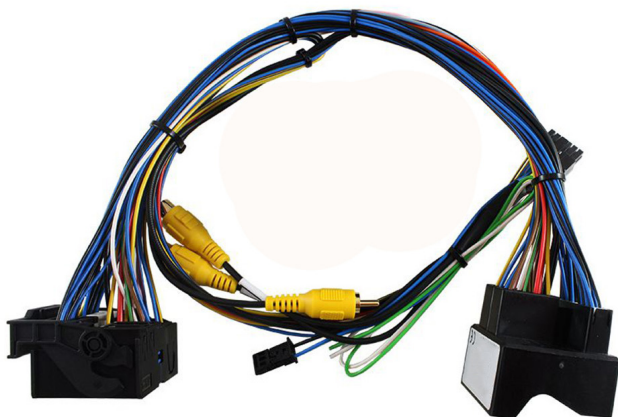




Connects2Vision

CAM-PO4-AD

Camera Add-on Interface for select Porsche vehicles with
PCM3/3.1 systems



www.c2vision-eu.com

ABOUT THIS PRODUCT...

CAM-PO4-AD

The CAM-PO4-AD is a camera add on interface which allows you to add an aftermarket camera whilst retaining the use of your factory head unit on various Porsche models with PCM 3 (Cayenne only) and PCM3.1 systems (see Applications for specific vehicles). This system is specifically designed to add an aftermarket camera to the OEM system, but can also be used to retain the vehicle's factory camera input. Following the simple installation process the camera image can be automatically viewed via reverse gear or manually through the vehicle's controls. This product also allows an optional Video In Motion Mode.

Note: Internal DVD cannot be watched with Video-In-Motion. Compatible with NTSC video sources only.

APPLICATION LIST

Porsche Cayenne (958) 2010-2018 Porsche 911 (991) 2011-2015
Porsche Cayman (987) 2009-2013 Porsche Macan (95B) 2014-2016
Porsche Boxster (981) 2012> Porsche Panamera (970) 2009>

PRIOR TO INSTALLATION

Read the manual prior to installation. Technical knowledge is necessary for installation. The place of installation must be free of moisture and away from heat sources. 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

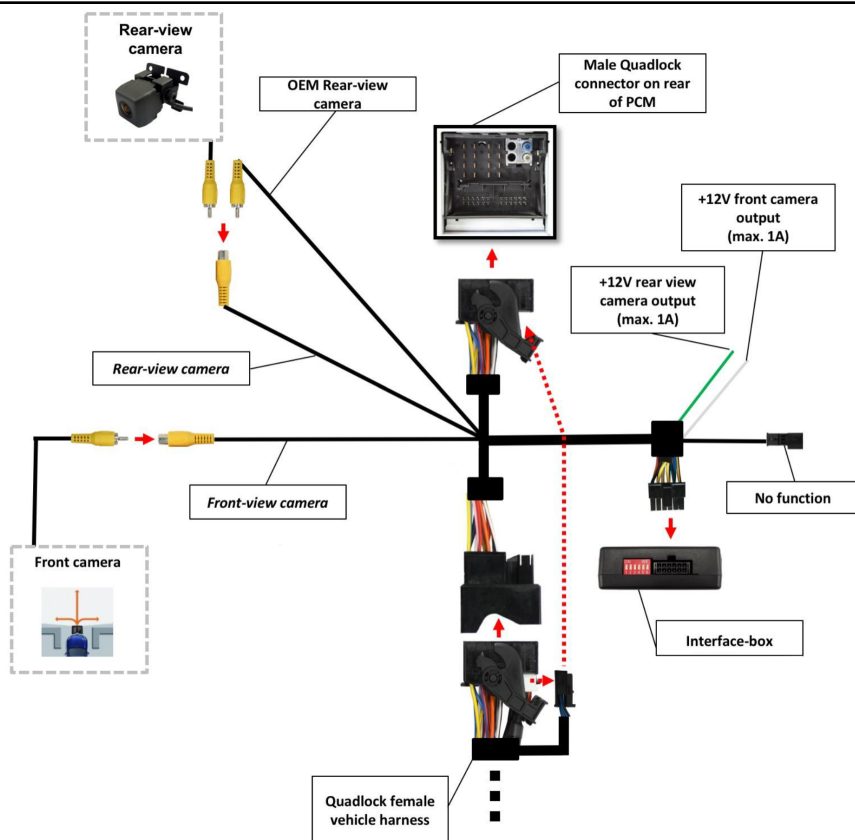


Subscribe to our YouTube Channel for installation guides and tips... **www.youtube.com/connects2**

DISCLAIMER

The information provided in this document is subject to change without notice due to manufacturer changes and/or improvements to the product/s. This instruction manual is based on documented data and research. The manufacturer of this product cannot be held responsible for any changes made to the vehicle by the manufacturer or damages that may occur through the installation of this product in accordance with the steps outlined herein.

CONNECTION DIAGRAM



SETTING DIPSWITCHES

Set the dipswitches in accordance to the type of system within the vehicle.
The interface will come with the dipswitches defaulted in the following order:

Head Unit	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
PCM 3 with Video-In-Motion activated	ON	ON	OFF	OFF	OFF	OFF
PCM 3 with Video-In-Motion deactivated	OFF	ON	OFF	OFF	OFF	OFF
PCM 3.1 with Video-In-Motion activated	ON	ON	OFF	OFF	OFF	ON
PCM 3.1 with Video-In-Motion deactivated	OFF	ON	OFF	OFF	OFF	ON

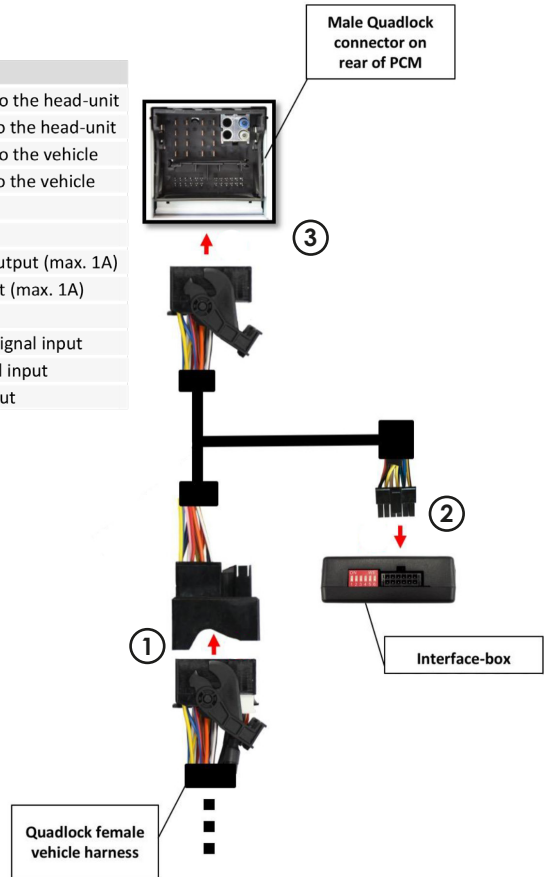
- Dip 1 - Activation Video-In-Motion
- Dip 2 - OEM (or aftermarket) camera exists
- Dip 3 - Coding rear camera in conjunction with Dip 5
- Dip 4 - Coding 'Park Assistant' in conjunction with Dip 5 (only PCM 3.1)
- Dip 5 - Camera/'Park Assistant' coding (switch to ON position for 5 secs)
- Dip 6 - CAN-Bus termination

NOTE: you will need to reset power to the interface after any change to any of the dipswitches.

INSTALLATION

Connecting Interface & Harnesses

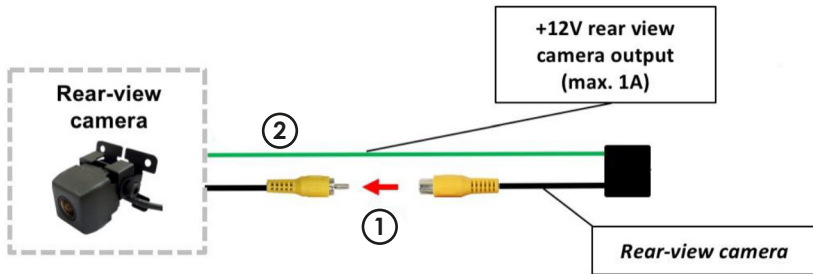
Cable colour	Pin-No.	Assignment
Yellow	Pin 6	CAN-HIGH – connection to the head-unit
Blue	Pin 5	CAN-LOW – connection to the head-unit
Yellow/Black	Pin 12	CAN-HIGH – connection to the vehicle
Blue/Black	Pin 11	CAN-LOW – connection to the vehicle
Red	Pin 1	+12V permanent
Black	Pin 7	Ground
Green	Pin 2	+12V rear view camera output (max. 1A)
White	Pin 3	+12V front camera output (max. 1A)
Blue	Pin 4	No function
Yellow	Pin 8	Rear view camera video signal input
Yellow	Pin 10	Front camera video signal input
Transparent	Pin 9	Camera video signal output



1. Remove the vehicles female quadlock connector and attach this into the provided harness that comes with the CAM-PO4-AD.
2. Connect the 12-pin molex connector to the interface box.
3. Once all of these connections are established (including any/all video input connections) connect the quadlock connector on the CAM-PO4-AD harness to the head unit.

INSTALLATION

Connecting Aftermarket Reverse Camera (& OEM)

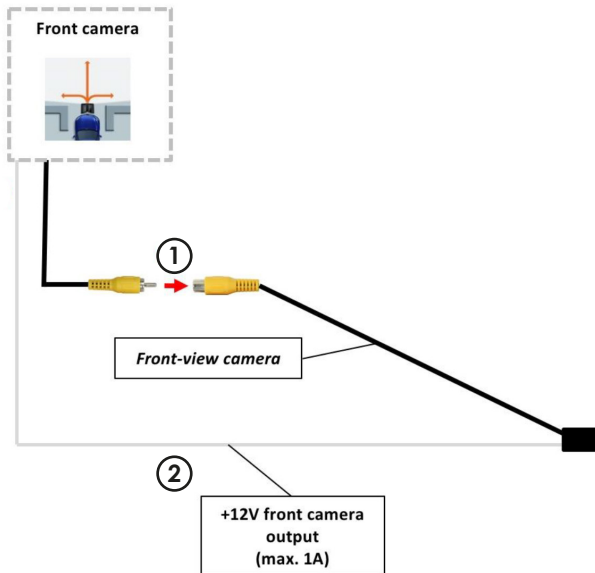


1. Connect the video RCA from the reverse camera to the RCA labelled "rear-view camera".

If OEM reverse camera is to be re-connected, connect the male RCA plug to the "rear-view camera" connector instead.

2. Connect the green wire to the camera's power supply. (+12V max 1A)

Connecting Aftermarket Front Camera



1. Connect the video RCA from the front camera to the RCA labelled "front-view camera".

2. Connect the white wire to the camera's power supply. (+12V max 1A)



Steering wheel buttons (left)



Steering wheel buttons (right)

Coding of the reverse camera (PCM 3.1 only)

It is necessary to code the reverse camera input of the PCM 3.1 to use for an aftermarket camera. To code the vehicle:

1. Turn on the ignition.
2. Wait for the head unit to fully load.
3. Press and hold the 'HASH KEY/MODE' steering wheel button.
4. Then press and hold the 'ACCEPT' steering wheel button.
5. With both buttons held, the CAN-box LED will flash blue & red. The PCM will reset after 5-10 seconds.
6. Once reset, let go of both buttons. The blue & red LED's will be glowing. With a successful coding, "rear-view camera" will appear in the menu options.

Decoding of the reverse camera (PCM 3.1 only)

It is possible to decode the coding of the reverse camera input by doing the following:

1. Turn on the ignition.
2. Wait for the head unit to fully load.
3. Press and hold the 'HASH KEY/MODE' steering wheel button.
4. Then press and hold the 'HANG UP' steering wheel button.
5. With both buttons held, the CAN-box LED will flash blue & red. The PCM will reset after 5-10 seconds.
6. Once reset, let go of both buttons. The blue & red LED's will be glowing. With a successful decoding, "rear-view camera" will disappear in the menu options.

Optional coding of Park Assistant to retrofit factory PDC (PCM 3.1 only)

It is possible to code the Park Assistant of the PCM 3.1 to retrofit the factory PDC. You can do this by doing the following:

1. Turn on the ignition.
2. Wait for the head unit to fully load.
3. Press and hold the 'BACK' steering wheel button.
4. Then press and hold the 'ACCEPT' steering wheel button.
5. With both buttons held, the CAN-box LED will flash blue & red. The PCM will reset after 5-10 seconds.
6. Once reset, let go of both buttons. The blue & red LED's will be glowing. With a successful coding, "Park Assistant" will appear in the menu options.

CODING OF INTERFACE

Optional decoding of Park Assistant (PCM 3.1 only)

It is possible to decode the Park Assistant of the PCM 3.1. You can do this by doing the following:

1. Turn on the ignition.
2. Wait for the head unit to fully load.
3. Press and hold the 'BACK' steering wheel button.
4. Then press and hold the 'HANG UP' steering wheel button.
5. With both buttons held, the CAN-box LED will flash blue & red. The PCM will reset after 5-10 seconds.
6. Once reset, let go of both buttons. The blue & red LED's will be glowing. With a successful decoding, "Park Assistant" will disappear in the menu options.

Coding/decoding of camera & Park Assistant via dipswitches (for PCM3/3.1)

If the vehicle does not have access to steering wheel controls, you are able to code/decode the reverse camera (and/or Park Assistant) by means of the CAM-PO4-AD's dipswitches located on the interface box. To do this you will need to do the following:

Dipswitch	Function	ON	OFF
DIP 3	Reverse Camera	Coding	Decoding
DIP 4	Park Assistant	Coding	Decoding
DIP 5	Activation of the coding/decoding process	5 sec. = Start	Default Setting

1. Set 'DIP 5' to OFF position
2. Turn on the ignition.
3. Wait for the head unit to fully load.
4. Set 'DIP 3' & 'DIP 4' to ON position (dependent on desired coding requirements)
5. Set 'DIP 5' to ON position for 5 seconds - during this process, the CAN-box LED will flash blue & red. The PCM will reset after 5-10 seconds.
6. Once reset, the blue & red LED's should be glowing. A successful coding (or decoding) results in "rear-view-camera" or "Park Assistant" appearing in the menu options.

Note: after a successful coding/decoding, another coding is not possible until after 60 seconds.

If a factory PDC exists in the car, you need to set DIP 4 to ON whilst coding, failure to do so will result in the factory PDC being decoded.

LED Status Information

LED	Status	Explanation
Blue	Light	CAN-Bus communication OK
Blue	Flashing	CAN-Bus searching
Red	Light	Reverse camera is coded
Red	Flashing	Reverse camera is NOT coded

