



# Connects2Vision

## **CAM-VW12-AD**

**Camera Add-on Interface for select Volkswagen vehicles  
with various MIB navigation systems**



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

## ABOUT THIS PRODUCT...

### CAM-VW12-AD

The CAM-VW12-AD is a camera add on interface that allows you to add an aftermarket camera whilst retaining the use of your factory head unit on various Volkswagen models with various MIB platforms. (**Audi**: MMI Navigation Plus with MMI touch 7"/8.3" MIB/MIB II, **Porsche**: PCM4.0, **Skoda**: MIB Amundsen 8", **VW**: MIB/MIB2 Discovery Pro 8" & Composition Media 6.5" - 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.

### APPLICATION LIST

**Audi A3 (8V) 2012> Audi A4 (8W) 2015> Audi Q7 (4M) 2015>**  
**Porsche Cayenne (958) 2014-2017 Porsche Boxster (981) 2012>**  
**Porsche Cayman (981) 2012> Porsche 911 (991) 2011-2019**  
**Skoda Octavia (5E) 2017> Volkswagen Golf (7/Sportsvan) 2015>**  
**Volkswagen Passat (B8) 2015> Volkswagen T-Roc 2017>**

### 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](http://support.connects2.com)**

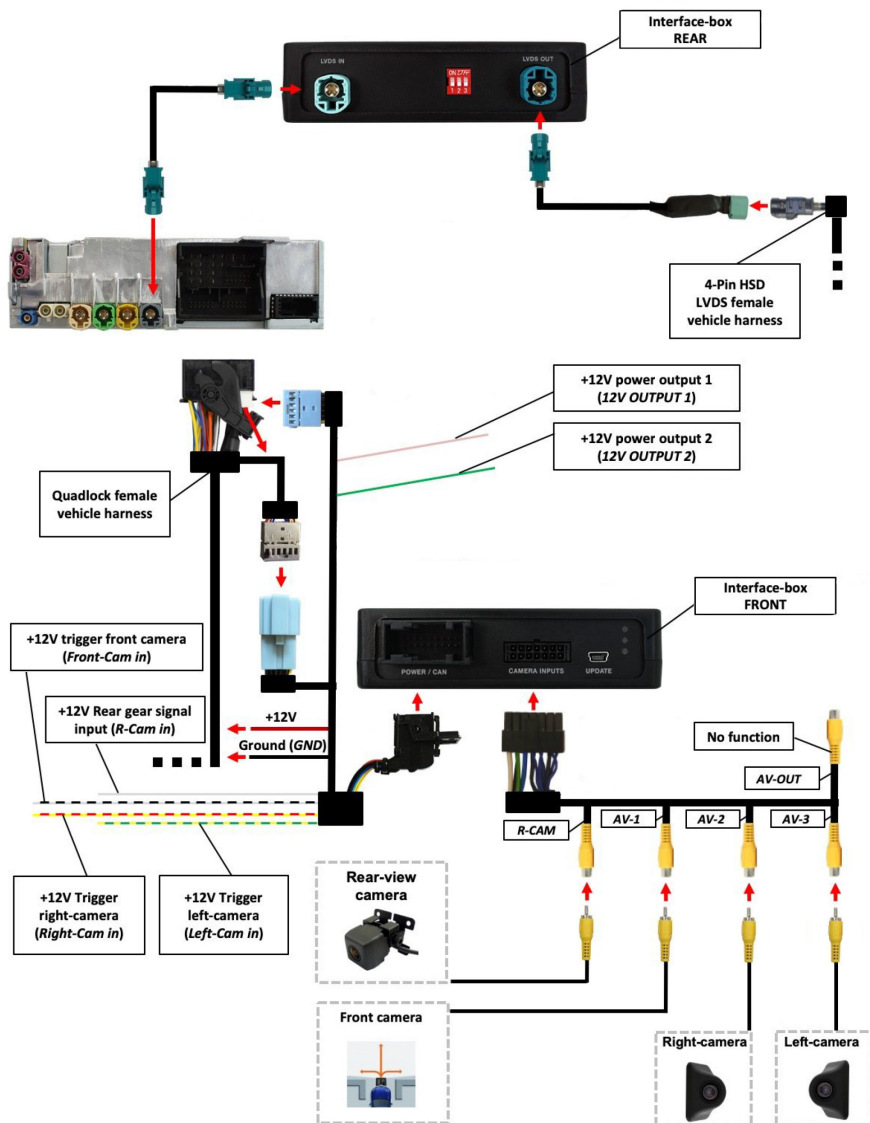


Subscribe to our YouTube Channel for installation guides and tips... [www.youtube.com/connects2](http://www.youtube.com/connects2)

### 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



## INTERFACE LED STATUS

Located on the front of the CAM-VW12-AD interface box you will notice 3x LED's. These LED's showcase the status of the interface as well as the video sources connected. Opposite is a list of the colours as well as the meaning of the 3x LED's:



- Valid input source
- CAN ok
- Power

## SETTING DIPSWITCHES

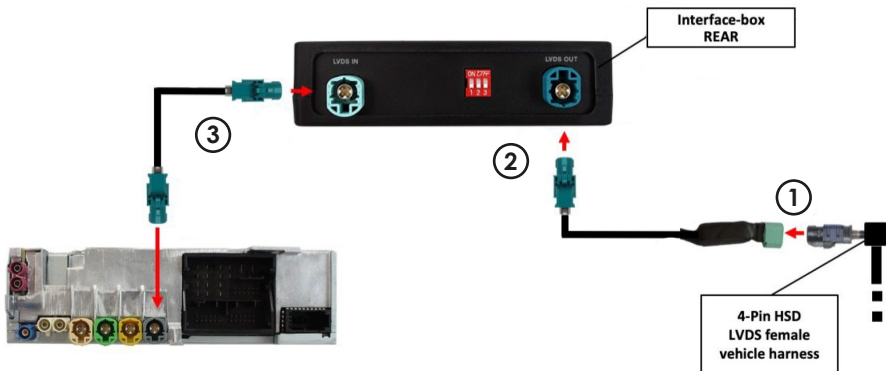
Set the dipswitches in accordance to the type of monitor within the vehicle. The interface will come with the dipswitches defaulted in the following order:

Vehicle	Monitor	Dip 1	Dip 2	Dip 3
Audi A3, Audi A4	7"	ON	OFF	OFF
Audi A4	8.3"	ON	ON	ON
Audi Q7	8.3"	ON	OFF	ON
Porsche - all	7"	ON	ON	OFF
Skoda Octavia	8"	OFF	OFF	ON
VW Golf (7/Sportvan)	6.5"	OFF	ON	OFF
VW Passat	6.5"	OFF	ON	ON
VW Passat, VW T-Roc	8"	ON	ON	OFF

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

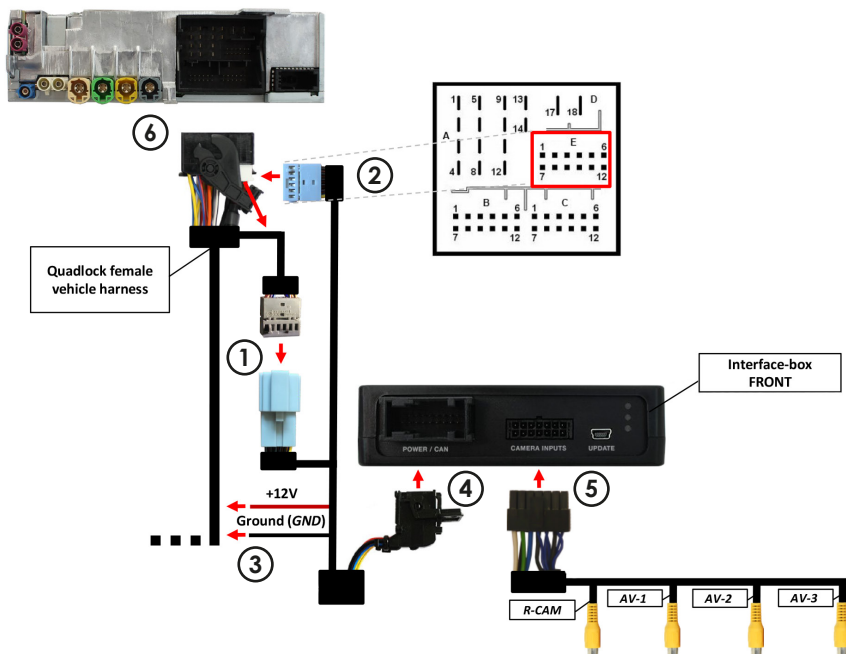
## INSTALLATION

### Connecting LVDS Connection



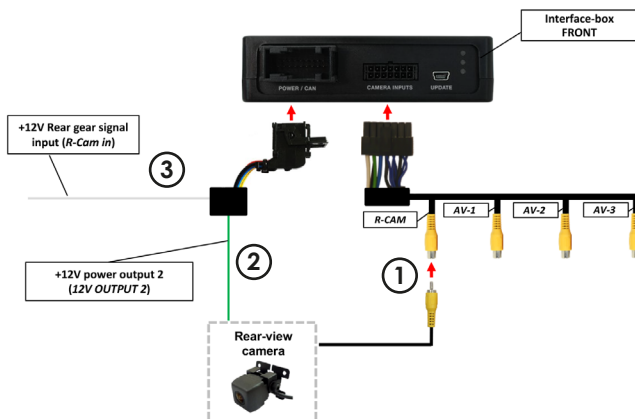
1. Remove the LVDS connection from behind the original head unit and then connect this to the male connection on the LVDS extension wire.
2. Connect the opposite connection on this LVDS extension wire to the port on the interface box labelled "LVDS OUT".
3. Take the secondary LVDS extension and proceed to connect this between the port on the interface box labelled "LVDS IN" whilst connecting the other side to the original head unit connection.

## Connecting Interface & Harnesses



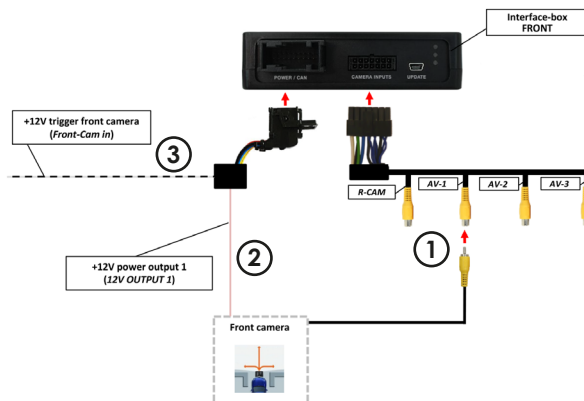
1. Remove vehicles female power connector and proceed to unplug the 12-pin connector from within. With this out of the original housing, connect it to the male equivalent connection on the CAM-VW12-AD harness.
2. The new 12-pin female connector on the CAM-VW12-AD harness will then need to be plugged into the empty slot within the original quadlock housing.
3. Connect the red flying wire on the new harness to a 12V permanent feed. Then connect the black flying wire to a source of ground. These can be found within the original quadlock connector housing.
4. Connect the 18-pin amp connector on the new harness to the interface box.
5. Connect the 14-pin video harness to the interface box
6. Once these connections are established (including the LVDS and all video input connections) connect the quadlock connector back into the head unit.

## Connecting Aftermarket Reverse Camera



1. Connect the rear camera's RCA connector to the 'R-Cam' RCA.
2. Attach the green wire to the reverse cameras 12V power supply.
3. If the reverse signal of the vehicle is not done via the CAN-Bus, connect the white wire to a source of 12V Reverse.

## Connecting Aftermarket Front Camera

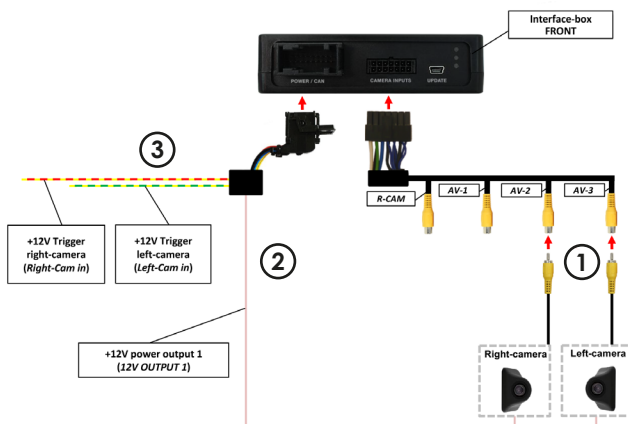


1. Connect the front camera's RCA connector to the 'AV-1' RCA.
2. Attach the pink wire to the front cameras 12V power supply.
3. If the signal of the vehicle is not done via the CAN-Bus, connect the white/black wire to the vehicles 12V analogue indicator signal wiring.

## INSTALLATION



### Connecting Aftermarket Side Cameras

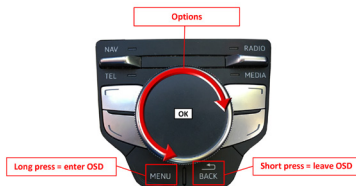


1. Connect the side camera's RCA connectors to the 'AV-2' & 'AV-3' RCAs.
2. Attach the pink wire to the side cameras 12V power supply.
3. If the signal of the vehicle is not done via the CAN-Bus, connect the yellow/red (right) and yellow/green (left) wires to the vehicles 12V analogue indicator signal wiring.

### OSD (ON SCREEN DISPLAY) OPERATION

The CAM-VW12-AD interface also contains a configuration menu wherein you are able to adjust settings/configurations for select features and functions. To access and control this menu system, see the infographics below:

#### Audi OSD Control



#### VW/Skoda OSD Control



#### Porsche OSD Control



A long press of the '**Media**' button enter/leave the camera manually. A subsequent short press of the '**Media**' button will toggle the valid inputs in the following order:

**Rear CAM > Front CAM > Right CAM/AV1 > Left CAM/AV2 > ...**

Inputs that are not enabled will automatically be skipped.

## OSD (ON SCREEN DISPLAY) MENU TREE

Main Menu	Menu Item	Setting Variable	Detail
Inputs	RVC	Off	Rear-view camera deactivated.
		On	Switch to rear cam if reverse gear engaged or PDC is active.
		OEM	If factory rear camera exists. Interface will turn off if PDC or reverse gear is enabled and displays factory camera.
	FVC	Off	Front-view camera deactivated.
		On	Switch to front camera if parking process is enabled and reverse gear released.
	Right VC/AV1	On/Off	Right camera input activated/deactivated.
	Left VC/AV2	On/Off	Left camera input activated/deactivated.
Option 1	Park Logic	Intelligent	For vehicles with front PDC. Enabled during parking process and up to 20 km/h.
		R.Gear Only	Camera(s) enabled during parking process ( <b>not suitable for front camera operation</b> ).
		R.Gear Speed	Enabled during parking process and up to 10km (adjustable)
		R.Gear Time	Enabled during parking process and up to 20 seconds.
	RVC Lines	On/Off	Interactive lane lines activated/deactivated.
	PowerOut1 (Pink wire)	1.CAN 2.ACC 3.CAM	1. 12V when interface is on (red LED on) 2. 12V when ignition is on 3. 12V when the camera input is activated
	PowerOut2 (Green wire)	4.Reverse Gear 5.AVS 6.Off	4. 12V when reverse gear is engaged 5. 12V when interface video-source is manually activated 6. Trigger output deactivated
	Car Type	'Various Options'	Vehicle type selection.
	Factory Reset	-	Reset the CAM-VW12-AD to factory settings.
Option 2	R/F Cam Till	xx	Speed setting for deactivating of the camera image.
	F/S Cam From	xx	Speed range setting for front and side cameras (minimum).
	F/S Cam Till	xx	Speed range setting for front and side cameras (maximum).
	Cam Trigger	CAN	Rear gear & indicator signal detection over CAN.
		Analogue	Rear gear & indicator signal detection over Analogue.
	PDC Graphic	1.Off 2.Horizontal 3.H. Dark 4.Vertical	1. OEM PDC display of the vehicle deactivated. 2. Vehicles with horizontal OEM PDC display. 3. Alternate presentation of horizontal OEM PDC display. 4. Vehicles with vertical OEM PDC display.
	Blinker Mode	Front Cam	Activation of the front cam image when indicators activated.
		Side Cam	Activation of the side cam image when indicators activated.
OSD	POS. X	0 - 100	Horizontal position of OSD screen.
	POS. Y	0 - 100	Vertical position of OSD screen.
	Size	Small	Small OSD menu windows.
		Large	Large OSD menu windows.
	OSD Timeout	2 - 20	Time setting for OSD automatic shut down.
Info	Version	xx.xx.xx	Displays the current software version