

# CAM-C6-NAC

## Installation Manual



**Product Name:** CAM-C6-NAC

**Product Application:**

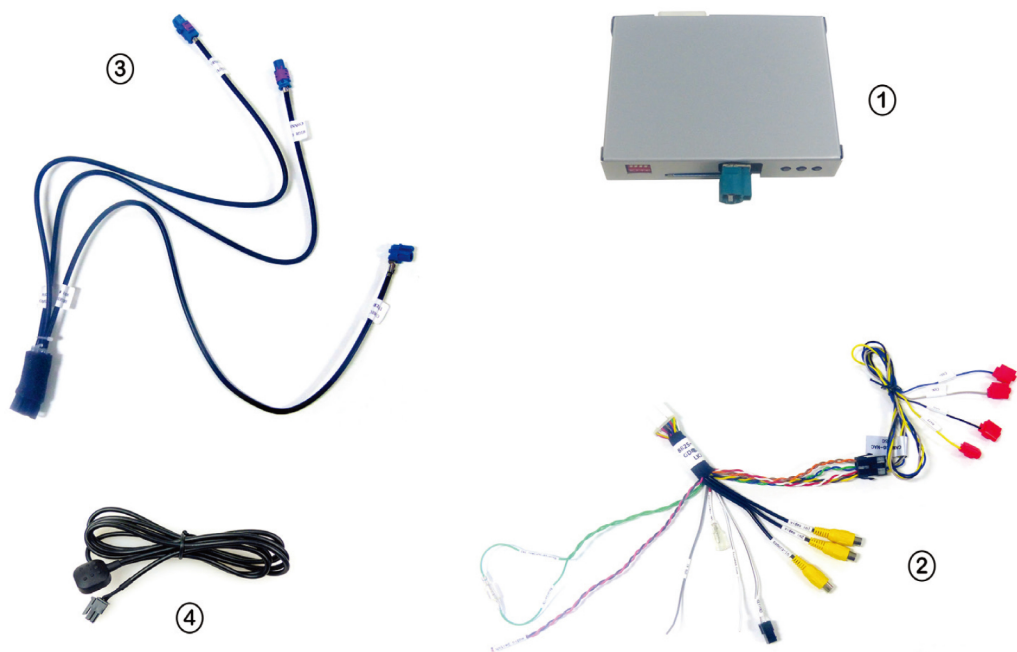
2 Video inputs (Phone Mirroring, 360 degree system, DVD, TV tuner or any video input) and 1 Reverse Camera input.

**Car Types:**

Peugeot and Citroen with NAC systems (both High-End and Low-End).

Peugeot 3008, 5008, Citroen C3, C6 etc.

What's in the box:



Item	Qty	Description	Part No.
1	1	Camera Interface	
2	1	Power/RCA Harness	
3	1	LVDS Cable	
4	1	External Switch	
5	-	Optional Camera's available	

1. Description:

The CAM-C6-NAC camera interface is the latest line of product It will enable user to install Reverse Camera, Video input1 and Video input2 onto the NAC System. All connection is plug and play. CAN decoder built in which makes camera installation simple.

It has three video inputs.

- 1. Reverse camera or 360 surround view system.
- 2. Video Input1 for DVD, DVR, Night vision camera, DVB-T, Phone mirroring etc.
- 3. Video Input2 for DVD, DVR, Night vision camera, DVB-T, Phone mirroring etc.



Reverse Guidelines and Parking Sensors shown on Peugeot 5008.

CAN Decoder analysis steering wheel position and Parking sensor data to show as overlay on reverse camera image.

Using OSD menu user can select to show Reverse image only, with guidelines and parking sensors or select either guidelines or parking sensors.



Waze using phone mirroring shown on Citroen C6.

User can use the interface with 5.8Ghz FV-Phone-Mirroring using video input 1/2.

User can switch video input source from OEM "Navi" key or use external switch button.

## 2. Interface Functions:

- The Reverse Camera is automatically triggered when engaging the reverse gear of the car. The display is also equipped with moving reverse guidelines and parking sensors which help guide the driver while reversing the car. The Guidelines are accurate as CAN code is used to generate them using the steering wheel position as a reference.
- The User can switch to the front camera using a push button switch. This can be used in cases when the driver is parking the car without having to engage the reverse gear for example in situations where the driver is parking in a garage.
- This interface is suitable for both high end and low end NAC Systems Using DIP 8 ON or OFF can select which version is being used. The connection for both systems is slightly different. Please refer to the installation section.

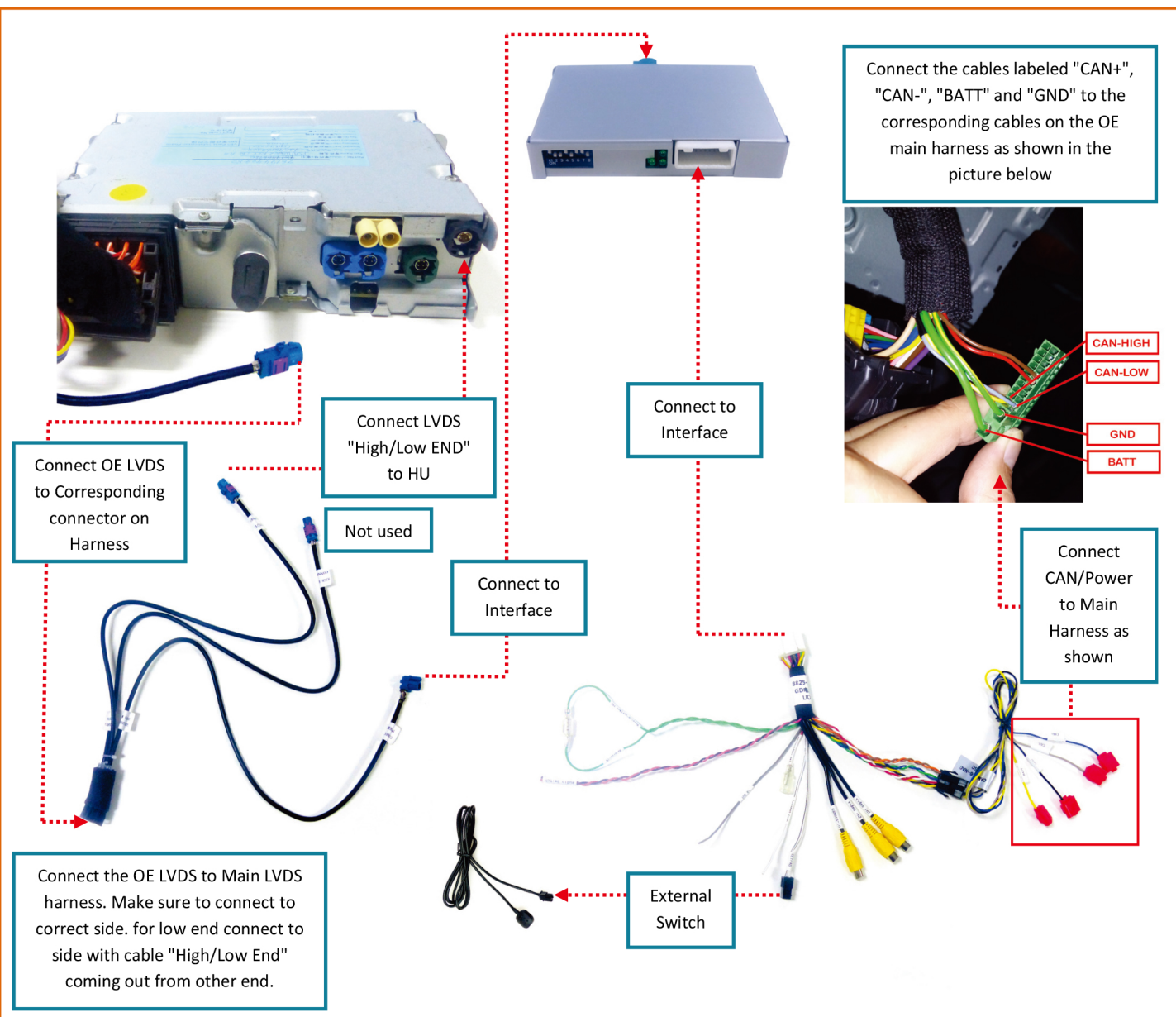
*\*NOTE: User can select Video Input1 or Video Input2 using Dip settings depending on user and how many video inputs being inserted. Please refer to DIP settings section .*

## 2. Installation:

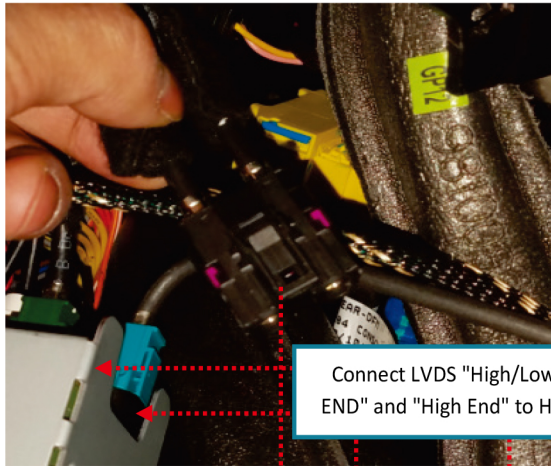
Installation of this interface is very easy as it is completely plug and play. There is no need to open the radio to insert any PCB etc.

- Each car model has a different process to open the dashboard panel. (Please check the Car manufacturers manuals to know how to disassemble the dashboard).
- The LVDS cable from the HU unit will be removed (if low end one LVDS will be connected and if high end two LVDS cables will be connected) and LVDS cable connected in between.
- CAN High, CAN Low, ACC and GND will be connected as shown in connections section.

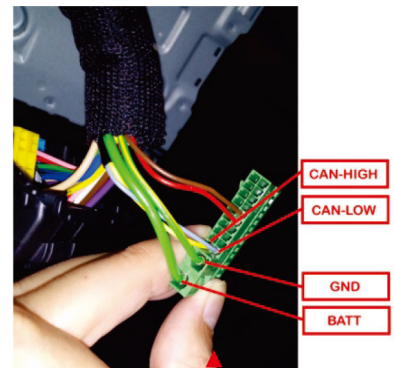
### System connection for Low End:



## System connection for High End:



Connect the cables labeled "CAN+", "CAN-", "BATT" and "GND" to the corresponding cables on the OE main harness as shown in the picture below



Connect OE LVDS to Corresponding connector on Harness

Connect to Interface

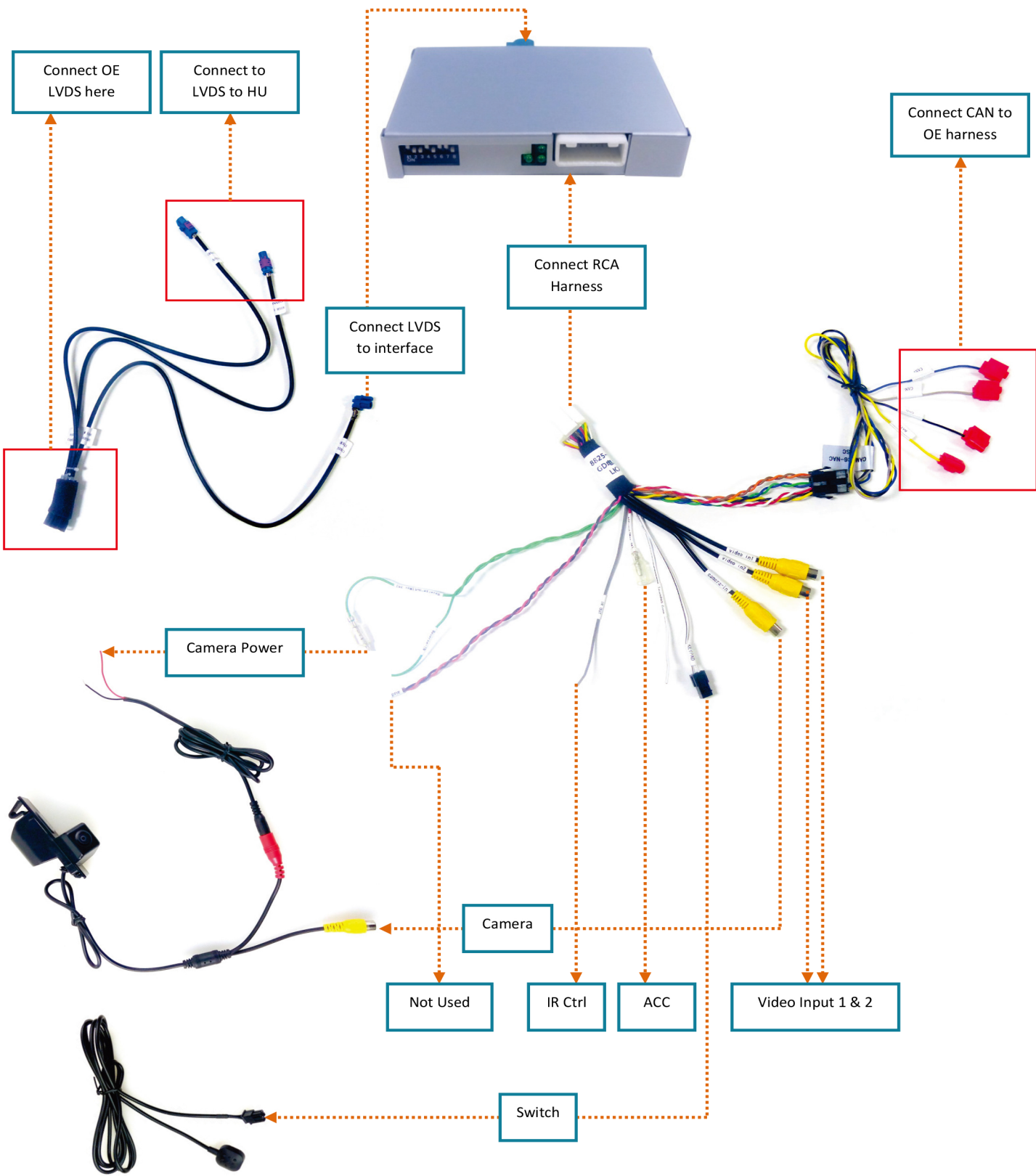
Connect CAN/Power to Main Harness as shown

Connect the OE LVDS cables to Main LVDS harness. Make sure to connect to correct sides. for High end connect to side with cable "High/Low End" wire coming out from other end and other to the "High End" side.

External Switch

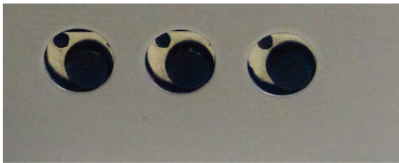
*\*NOTE: Make sure to connect both OE LVDS cables for High End. Make sure all connectors are secure to avoid shaking video.*

3. Connection Diagram:



## 4. Settings:

Please check the image position for each video input enabled and make sure they are positioned correctly. In case they are not use the 3 keys on the bottom of the interface to adjust the image using "Position-H" , "Position-V" and "H-SIZE" , "V-SIZE". Each Video input has separate memory state so fine position each video input in the same manner.



Contrast ···· 50  
Brightness ··· 50  
Saturation ··· 62  
Position-H ··· 9  
Position-V ··· 11  
IR-AV1 ····· DVR ·····  
IR-AV2 ····· None ·····  
Guide-L ····· 60  
Guide-R ····· 3  
Guide-CNTRL · ALL ON ·····  
H-SIZE ····· 16  
V-SIZE ····· 16

Use these 4 settings to adjust the Position of the Image.


Engage Reverse Gear and fine position the image in same manner. User can also select if user wants to turn Guidelines ON or OFF and can also select if Parking Sensors are ON or OFF. For this again use the 3 buttons on the bottom of the interface to access the OSD menu. Once in the menu navigate to settings for "Guide-CNTRL" and select as desired.


Contrast ···· 50  
Brightness ··· 50  
Saturation ··· 62  
Position-H ··· 9  
Position-V ··· 11  
IR-AV1 ····· DVR ·····  
IR-AV2 ····· None ·····  
Guide-L ····· 60  
Guide-R ····· 3  
Guide-CNTRL · ALL ON ·····  
H-SIZE ····· 16  
V-SIZE ····· 16

**Options:**  
**All-ON:** Both guide line and PDC are displayed.  
**PDC-ON:** Only PDC displayed.  
**Guide-ON:** Only Guide-line displayed.  
**ALL-Off:** Both Guide line and PDC will not be displayed.

Use this setting to turn off the guidelines.

## 5. DIP Settings:

<div> <div>DIP Down= ON</div> <div>DIP UP= OFF</div> </div> 			
DIP	ON	OFF	Default
1	No function	No function	UP(OFF)
2	Video Input1	Video Input1	DOWN(ON)
3	Video Input2	Video Input2	DOWN(ON)
4	No function	No function	UP(OFF)
5	Reverse camera installed (When R engaged aftermarket camera shown)	OE camera is installed (When R engaged OE camera shown)	DOWN(ON)
6	No Function	No Function	UP(OFF)
7	No Function	No Function	UP(OFF)
8	Low End System	High End System	DOWN(ON)

<div> <div>DIP Down= ON</div> <div>DIP UP= OFF</div> </div> 			
DIP	ON	OFF	Default
1	No function	No function	UP(OFF)
2	No function	No function	UP(OFF)
3	No function	No function	UP(OFF)
4	No function	No function	UP(OFF)

**Note:** If a Video input is not being used please turn the respective DIP setting OFF in order to avoid black screen while switching video source.

## 6. Parameters:

No.	Name	Parameter
1	Front Cam Video , Reverse Cam video	0.7Vpp with 75 ohm impedance NTSC/PAL/SECAM automatic switch
2	Reverse Control wire	>5V will force into camera mode. these wires can tolerate 12V for <10 seconds.
3	Normal Power consumption	4.8W
4	Standby current	< 10uA
5	Reverse trigger threshold	>5V trigger
6	Work temperature	-40°C to +85°C
7	Dimensions	11.2*9.0*2.2cm

## 7. Other Similar Models:

- **FV-C6-NAC:** Interface box to insert 2 video inputs and one reverse camera input onto Peugeot and Citroen with NAC systems (both High-End and Low-End).
- **FN-C6-NAC:** Interface box with Built in WinCE Navigation Module and inserting 2AV sources, 1 Reverse Camera onto Peugeot and Citroen with NAC systems (both High-End and Low-End).
- **FAN- C6-NAC:** Interface box with Built in Android Navigation Module and inserting 2AV sources, 1 Reverse Camera onto Peugeot and Citroen with NAC systems (both High-End and Low-End).

*\*\*For more assistance please contact the sales team.\*\**