

Citroen C5 / Peugeot 508 interface installation manual

Model: VI-CITROEN C5



This device can insert analog RGB,2-AV, also add-on rear-view camera video onto the Citroen C5/ Peugeot 508 original monitor.

Thus navigation, DVR, and DVD video can display on screen.

All installation operations are plug and play, without hurting the original car wire.

This device is fit for:

Citroen C5 2009– with RT6 headunit

Peugeot 508 2009– with RT6 headunit

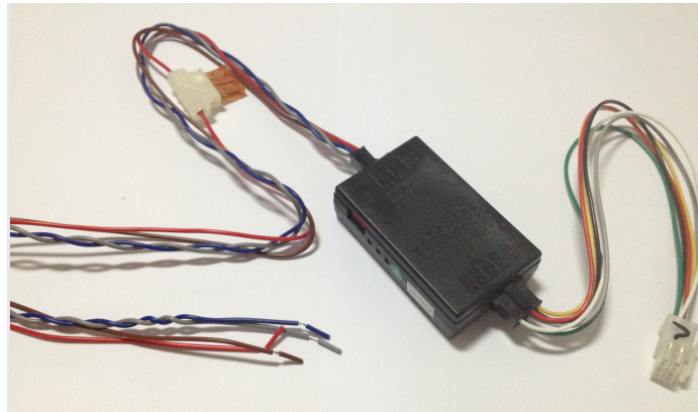
Features:

- Original key to switch the input video: long pressing the MUTE key;
- On peugeot 508, the user press TRAF to switch the video channel, and rotate to enable the MMI, ESC to execute the command.
- user can operate DVD or digital TV with pop-op OSD text, also use touch screen to control DVD or other device;
- CAN-bus generate the rear-view camera signal automatic switch;

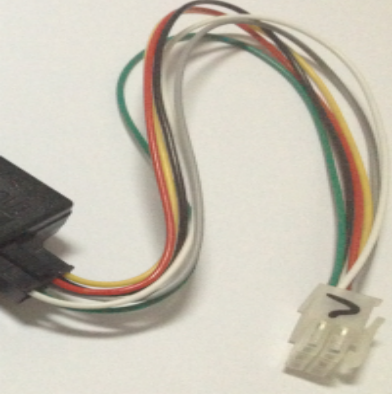
Attention: the original plug should be inserted into the LVDS wire's board socket, wrong direction will make the picture black but not hurting any device.

Device Connection


CAN-bus box



The 6P connector signal definition (6P output from CAN box)

	CAN box wire color	Definition
	Yellow	12V battery power
	Red=ACC	when screen is on this wire goes to 12V
	Black	ground for chassis
	Green	Rear view wire (=12V), the 12V signal is active by CAN bus when car reversing, it can drive a camera with 1A max output, also make the video interface switch to rear-view camera video signal.
	White	switch signal when=12V (max 25V)
	Gray	IR control signal from the CAN box to control external DVD ect.

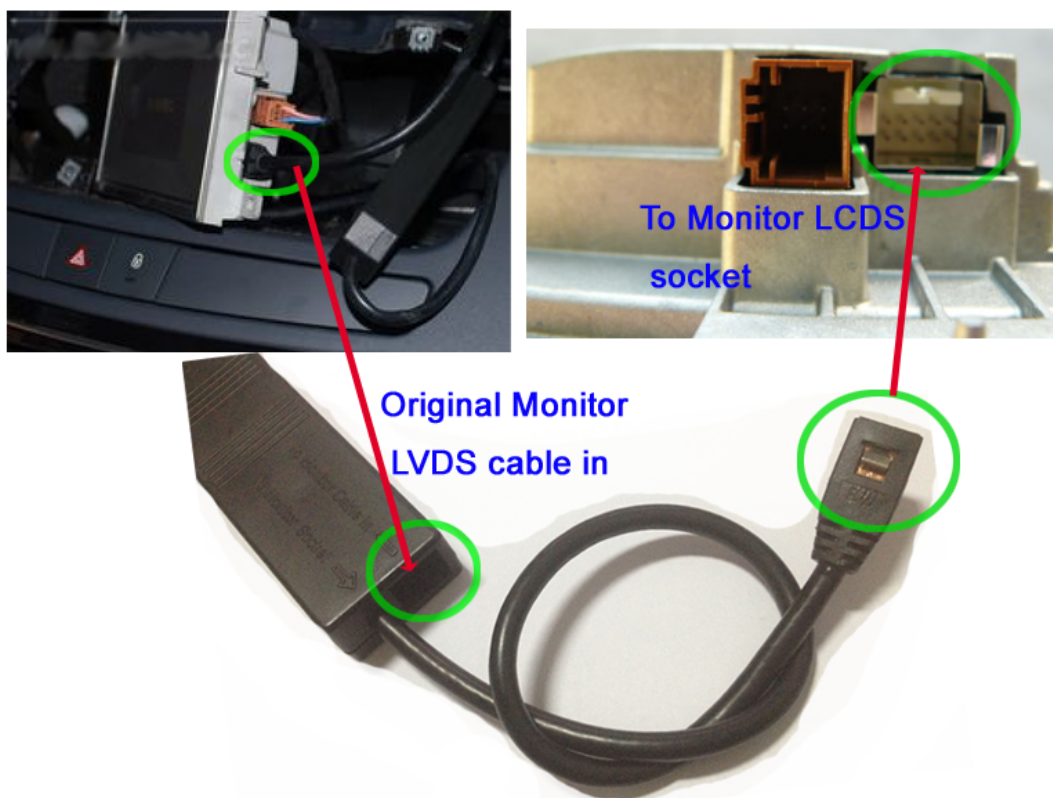
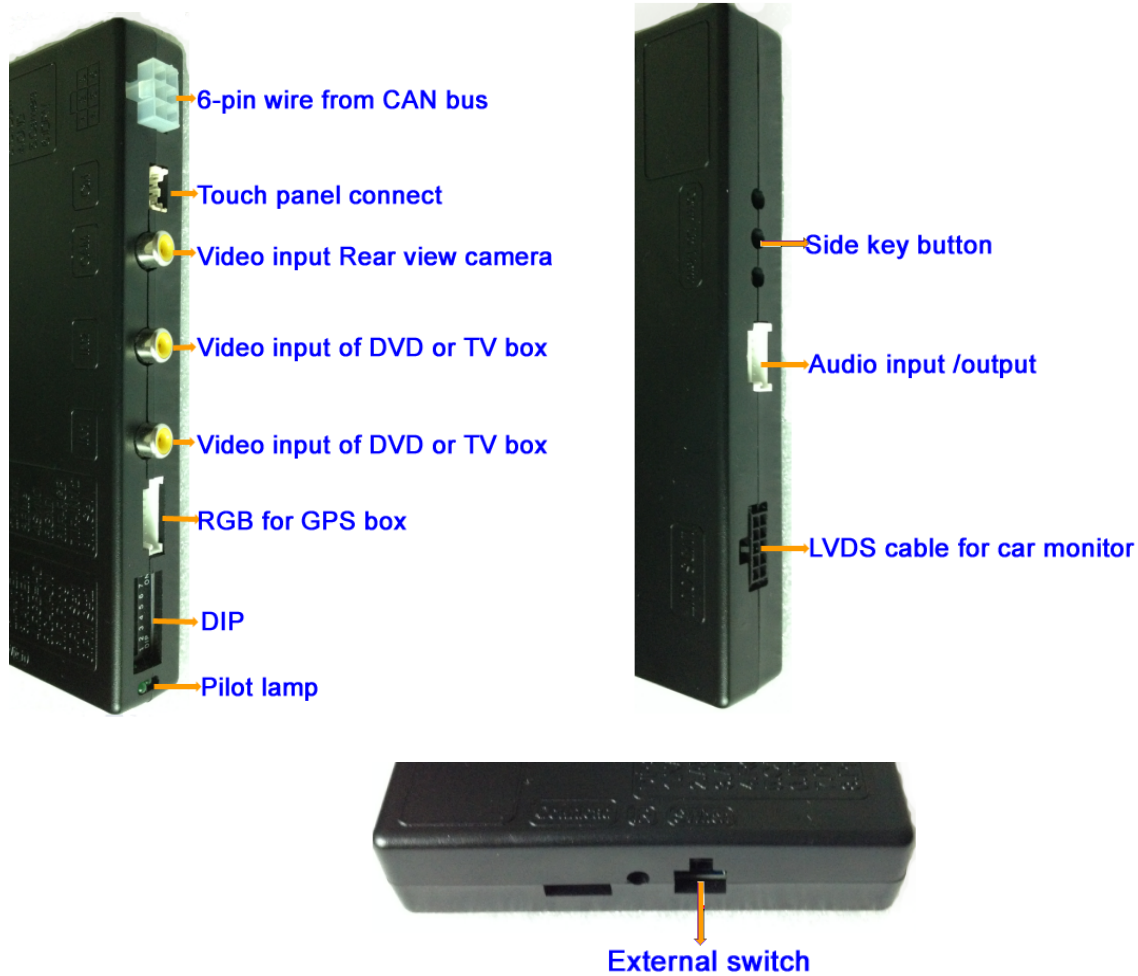
The 4P connector signal definition (4P input to CAN box)

	name	Car wire color	CAN box wire color
	CAN-	Gray wire	Gray strip
	CAN+	White wire	Blue strip
	GND	Big green wire	Brown
	BATT(13.8V)	Big orange wire	Red with fuse
<ul style="list-style-type: none"> - CAN wires are twisted together always, when we connect them upside down, it will not hurt anything, when we connect them correctly, one LED will be flashing when data running on the can bus; - CAN box generate ACC according to CAN activities, when the driver leaves the car > 20 seconds, the CAN bus will stop thus ACC drops. 			

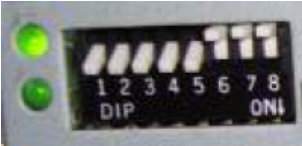


CAN box has DIP switch, it is for different car models.
DIP 1=on for C5; DIP 1=down for Peugeot 508.
Wrong setting will not damage anything.

Video interface box



DIP setting:

	DIP	ON	OFF
	1	RGB enable	RGB off
	2,3	A/V 1,2 enable	A/V 1,2 off
	4	RGB input=VGA resolution	RGB input=NTSC resolution
	5	Rear view video=AV4 ,when green wire=12v	Rear view video=car video ,when green wire=12v
	6	Down 1-time for IR programming	Down 5-times for touch calibration if want to use touch control DVD
	7,8		LCD screen resolution set,the 2 DIP should OFF

The 3 side key button:

The 3 key are "MENU", "+", "-".

- when press "MENU", OSD will display on screen, user may adjust the best video effect; press "+" / "-" to change the value;
- the DVD/ TUNER/ NAVI is to set the IR code output to the installed device, so user can control it via original knob;
- when set to "none", the control icons will not pop out;
- when set to "prog", the user can use DIP6=ON to program the IR code into the interface, so extra new device can be controlled.



The programming of IR code:

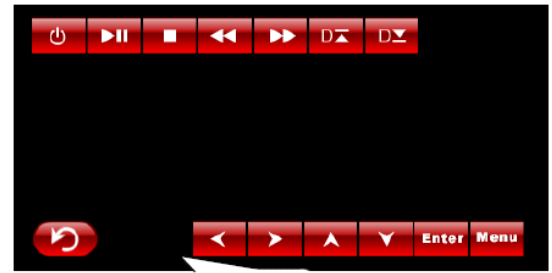
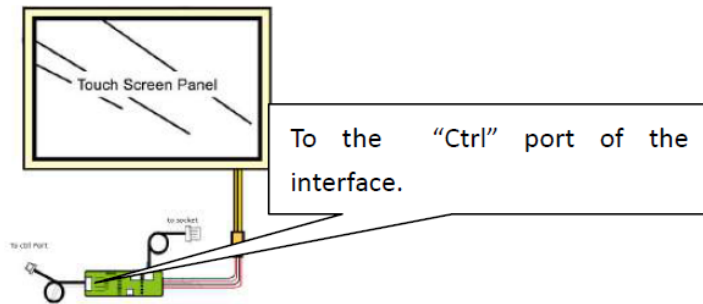
- there are above 10 types of DVD, navi and tuner's IR code are stored inside the interface. user just adjusts the options to choose right one, then it will work. If the choose type is not included, user can set the option to "Prog" in the menu;
- when programming, switch the input to AV1, and set DIP6 "ON" 1-time, then the control icons will be shown, and one of them will be shining, point the IR remote controller to the IR port of interface, the shining icon will be moved to next one. it means one code is programmed. Repeat this step until all icons are programmed.
- the programming of AV2 is same as AV1

When "menu" key press 2-times, the menu of "H Pos" and "V Pos" will display, user can adjust the values to make image fit to the center of screen.

Add-on touch panel for DVD, TV

when the touch screen is not used for navigation, it can also be used for external DVD/TV

control.



When this sub PCB is inserted, the user touches the panel, and these touch icons will pop out, and the user can control DVD/TV with it. These touch icons will also pop out when the user rotates the knob on Peugeot 508.

The 3 keys can choose the DVD/TV type connected to this device.

If the installer does not want these icons to pop out, set the DVD /tuner options to be "none"

Parameter

No.	Name	Parameter
1	RGB video amplitude	0.7Vpp with 75 ohm impedance
2	SYNC amplitude in RGB-navi port	3~5Vpp with 5K ohm impedance Sync should be NTSC composite with negative polarity. when in VGA mode, the Hsync and Vsync should be combined by a 74HC86 to make a composite sync. [Xor operation], it can be XOR with "1" to get inverted to negative polarity.
3	RGB resolution	NTSC-RGB navigation, that is 320*240 / 400*240 / 480*240 / or VGA resolution [640*480 or 800*480]
4	AV1, AV2, Cam output	0.7Vpp with 75 ohm impedance NTSC / PAL / SECAM automatic switch
5	IR RGB, IR_AVI output	3.3V digital infrared control code with 4 data bytes [machine code 1, machine code 2, user code, verification code]
6	Normal power consumption	2.4W [0.2A @12V]
7	Standby current	<10 uA
8	Reverse trigger threshold	>5V trigger
9	Ctrl port Pin1, 2 and Pin 7: output voltage	Relay pull voltage for audio and touch screen selection 5V volts
10	Ctrl port Pin1, 2 and Pin 7: current	2A. tested to have no damage when short-circuit to GND for 2 minutes. Leave it open do not use
11	Work temperature	-40 ~ +85°C