

PSA IVI / NAC / RCC

AHD / CVBS Camera Video interface

Compatible with 12,3" , 10,25" , 9" , 8" , 7" monitors

Compatible with the following systems:

IVI Mid and High (Harman and Bosch)

DS Connect Radio/Nav

NAC (Continental / Bosch)

RCC (Bosch / Continental)

Navi 5.0 IntelliLink

Not compatible with ALL-IN-ONE 10,25" system (AIO Bosch, page 12)

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Compatibility

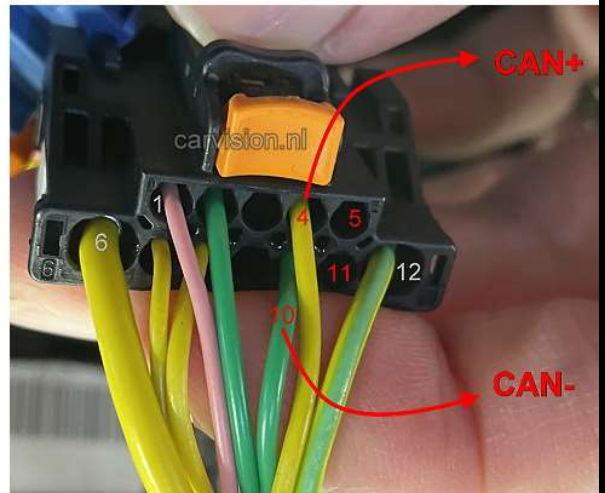
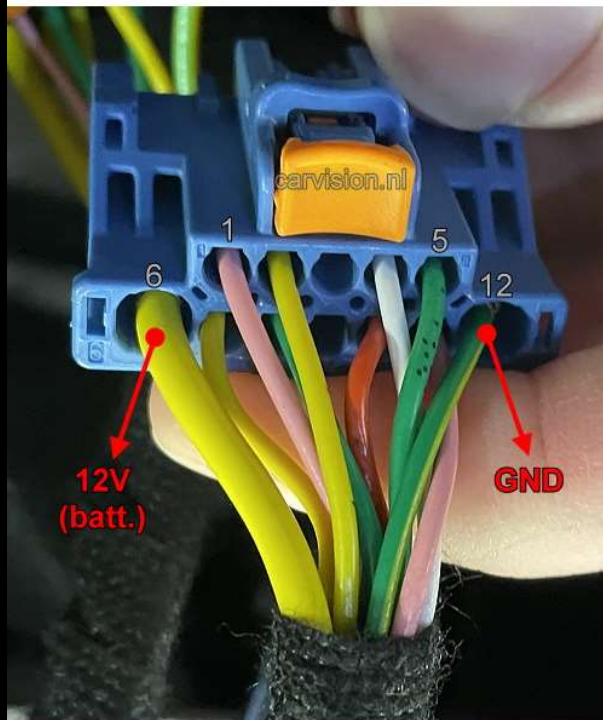
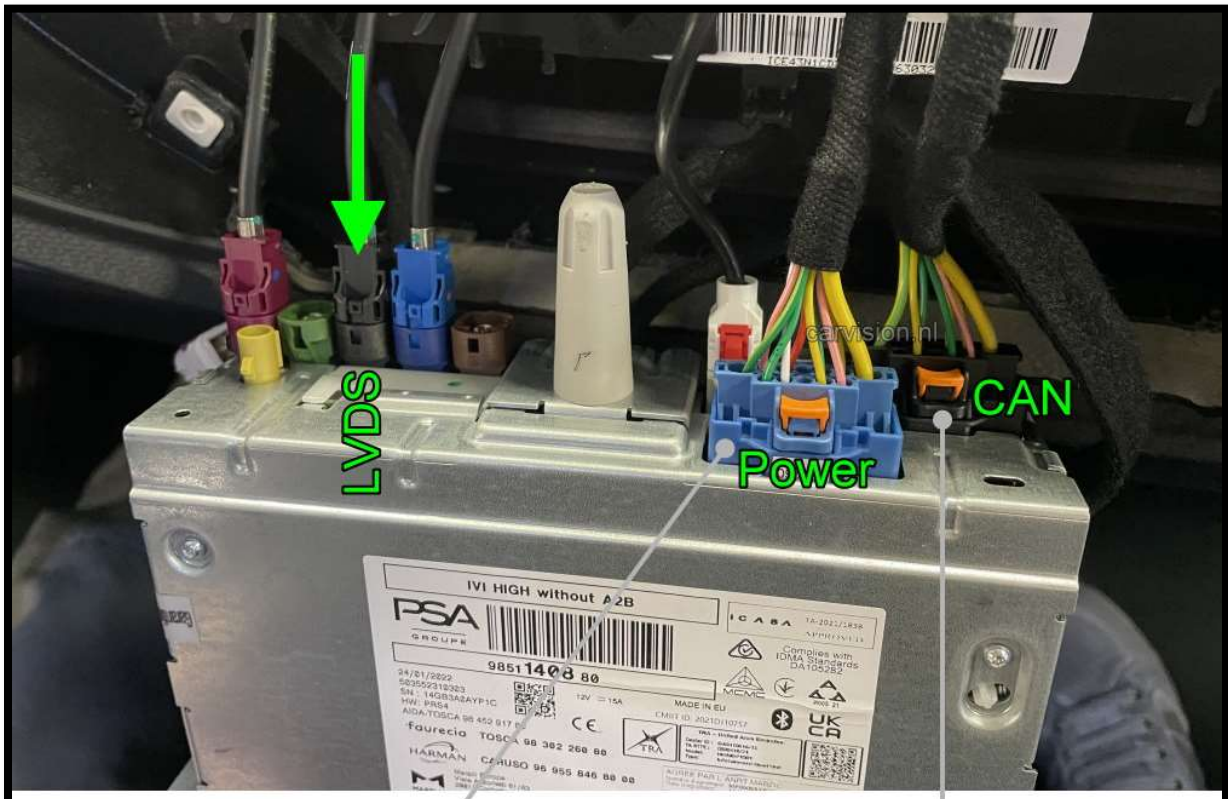
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Article code: 300 371

Installation diagram:

IVI (mid / high) connection:

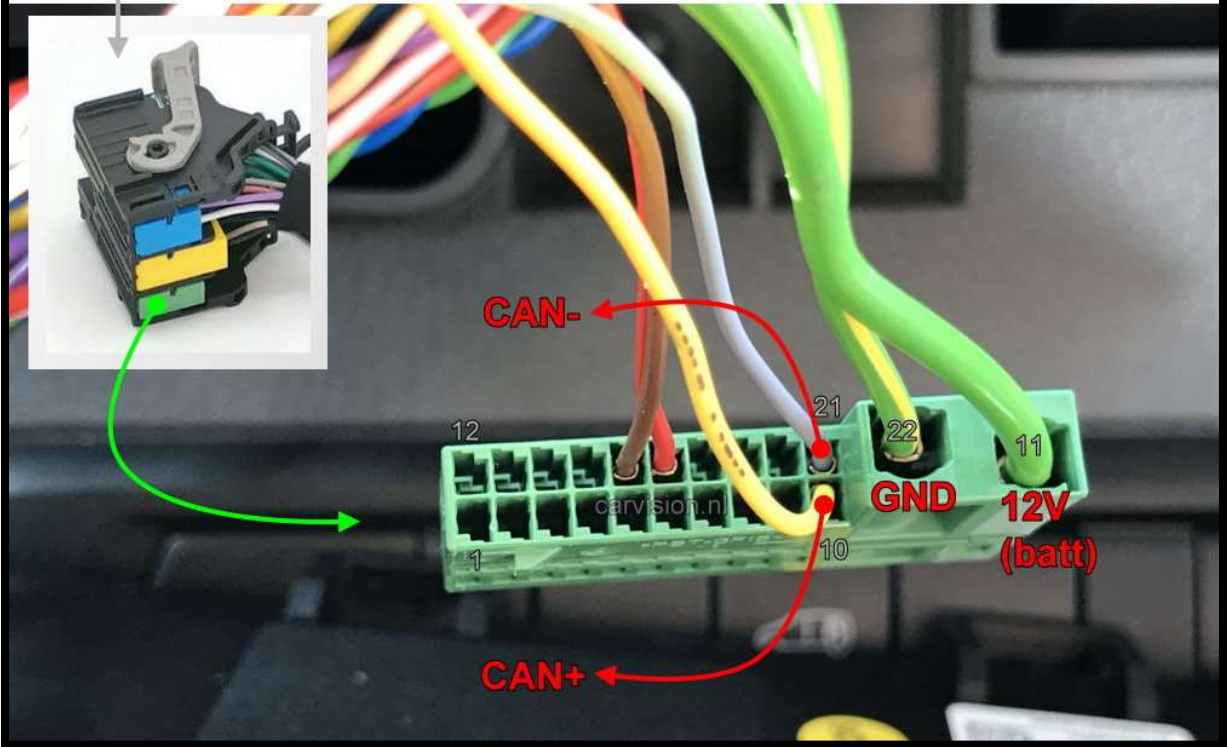


CANbus positions:

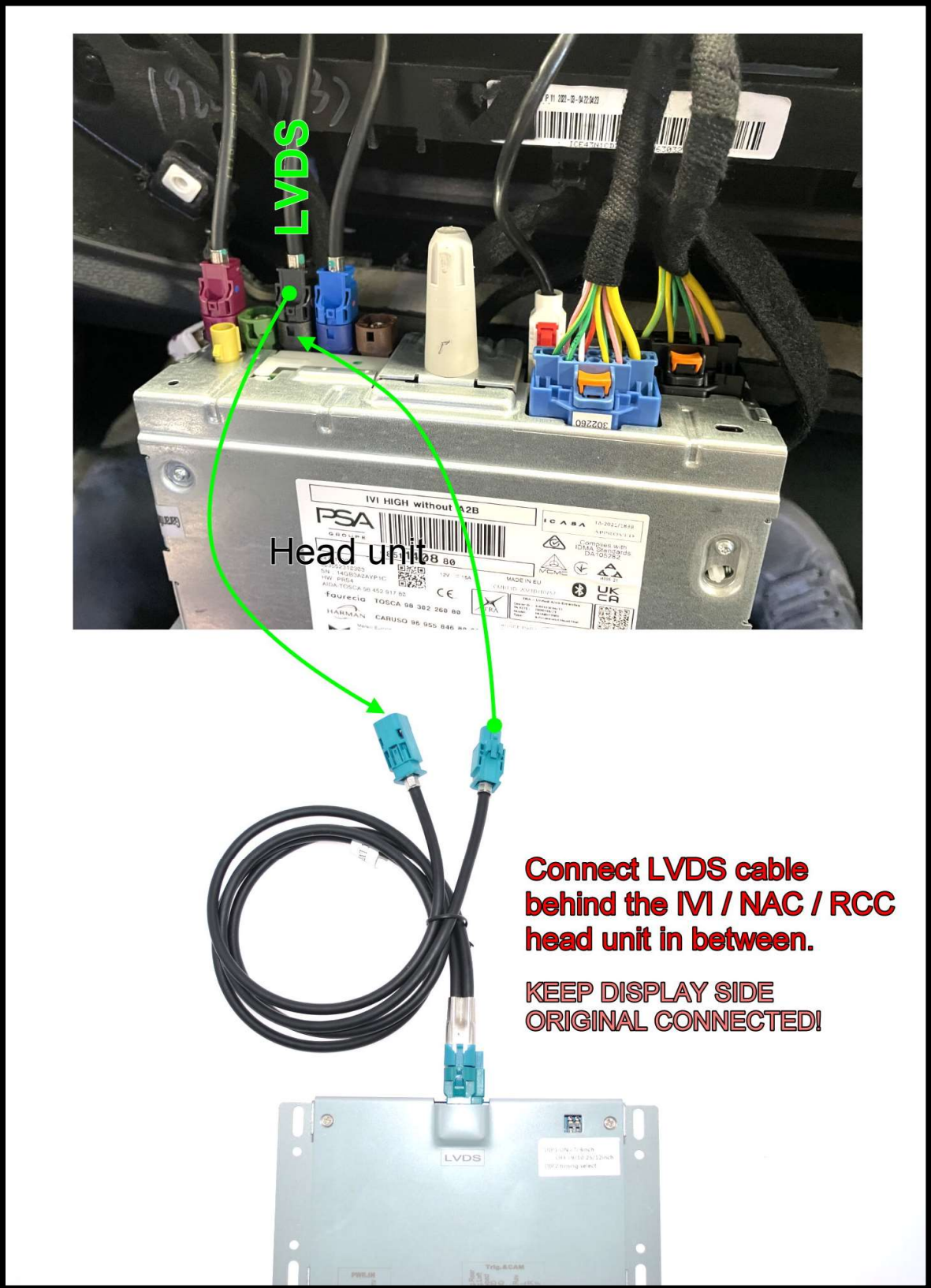
IVI version 1: pin4 = CAN+
pin10 = CAN-

IVI version 2: pin5 = CAN+
pin11 = CAN-

PSA NAC/RCC CANbus connection:



LVDS connection IVI / NAC / RCC:

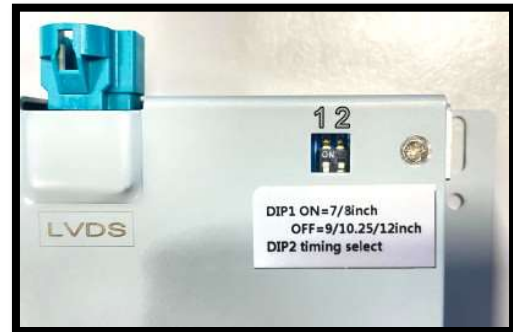


DIP switch settings

2-DIP (top):

Dip-1: DOWN (OFF) = 9", 10.25", 12.3"

Dip-1: UP (ON) = 7", 8"



Dip-2: Change position when external picture is not correct like shown below:

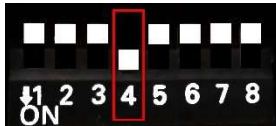


4-DIP (red):

- Dip1 + dip2 both UP (off) -> 10.25", 12.3"
- Dip1 UP + dip2 DOWN -> 9"
- Dip1 Down + dip2 UP -> 8"
- Dip1 Down + dip2 Down -> 7"



8-DIP:



REAR VIEW CAMERA (V4)



Show FRONT CAMERA after reverse
(time adjust in MENU 5, 10, 15, 20 sec.)



Right side camera (V2)



Left side camera (V1)



MUST BE UP (OFF)



8 DOWN (ON) -> PDC ON

It's recommended to reset power after changing DIP settings (black connector).

Remark: turn off the DIPs of video inputs which are not used to avoid black screen.

Trigger wires:

- **Trig-Rear***: insert +12/24V reverse light signal to activate the rear camera (signal must be stable, not LED)
- **Trig-Right**: insert +12/24V to activate the video image of V2
- **Trig-Front**: insert +12/24V to activate the Front camera (optional).
Front camera also switches on automatically after reverse, and also by short-press switch button (included).
- **Trig-Left**: insert +12/24V to activate the video image of V1

*Usually the reverse function is detected by CANbus and it's not needed to connect the Trig-REAR wire to reverse signal.

Additional power wires:

- CAM POWER 12V: provides 12V to power the camera (if reverse function works by CANbus)
- ACC OUT: provides 12V while ignition is on (when CANbus is running)
- Manual ACC: connect to 12V ACC only when interface is disconnected from CANbus.

Switching from OEM picture to external sources manually:

- Video 1/2/4: User may use long-press on external switch (included) to switch from OEM picture to external video sources (OEM → V1→V2→V4→OEM).
- Short-press on external switch to switch fast from OEM picture to Front cam picture.



MENU settings:

- Activate a camera/video channel and press and hold the **MENU** button (3 sec.) to show the menu settings.
- Use **UP / DOWN** to change a setting
- Use **MENU** to jump to the next option



REAR CAM (V4) settings:

Menu of V4-REVERSE	
Brightness	55
Contrast	55
PosH	04
PosV	00
Trigger	Can
InputSource	AutoDetect
Guide-Type	OFF
Guide-PosV	34
GuideL-PosH	37
GuideR-PosH	93
Maxim-CURVE	10
External SW	YES

Brightness: adjust the brightness of the picture

Contrast: adjust the contrast of the picture

PosH: move the picture to left/right

PosV: move the picture to up/down

Trigger: **CAN:** interface switches over if CAN data matches, otherwise trigger wire needs to be connected.

Wire: use trigger wire to activate the camera/video channel

InputSource: **AutoDetect:** interface detects the inserted video signal automatically.

Other fixed video system settings are: **PAL, CVBS, 720P PAL, 720P NTSC, 960P PAL, 960P NTSC, 1080P PAL, 1080P NTSC.**

Guide-Type: turn guidelines on/off.

Guidelines options: **Dynamic:** guidelines turn with the steering wheel (if CAN Data matches).

Fixed: static guidelines (always on screen, independent of CAN data).

Guide-PosV: adjust the height position of the guidelines

GuideL-PosH: adjust the horizontal position of the left guideline

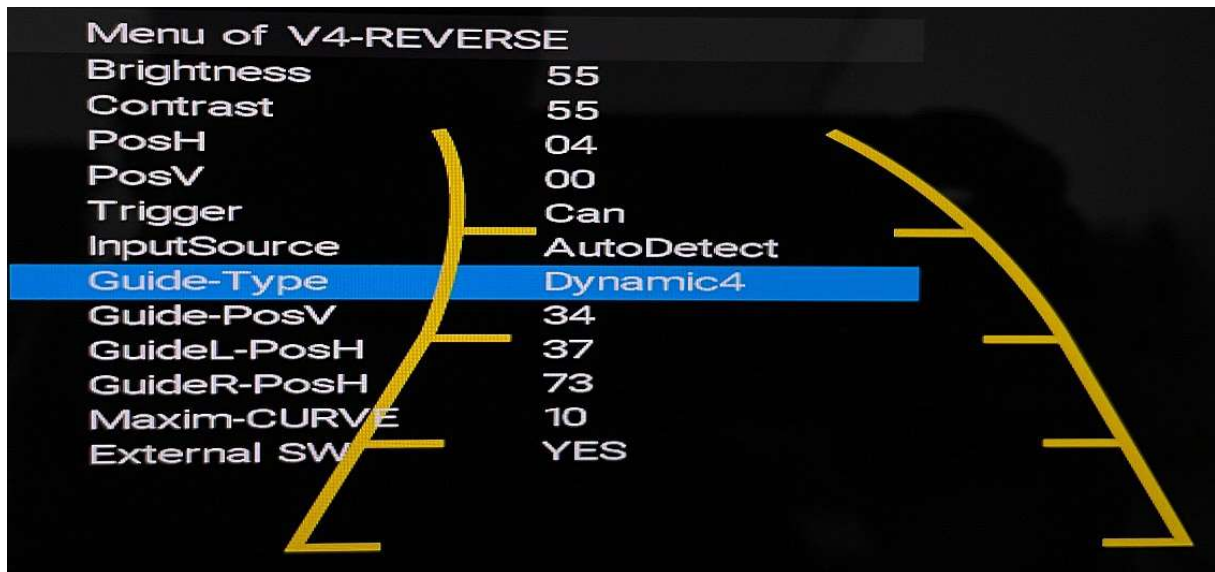
GuideR-PosH: adjust the horizontal position of the right guideline

Maxim-curve: adjust the maximum curve of the guidelines

External SW: activate the rear cam (V4) input by press+hold the external push button.

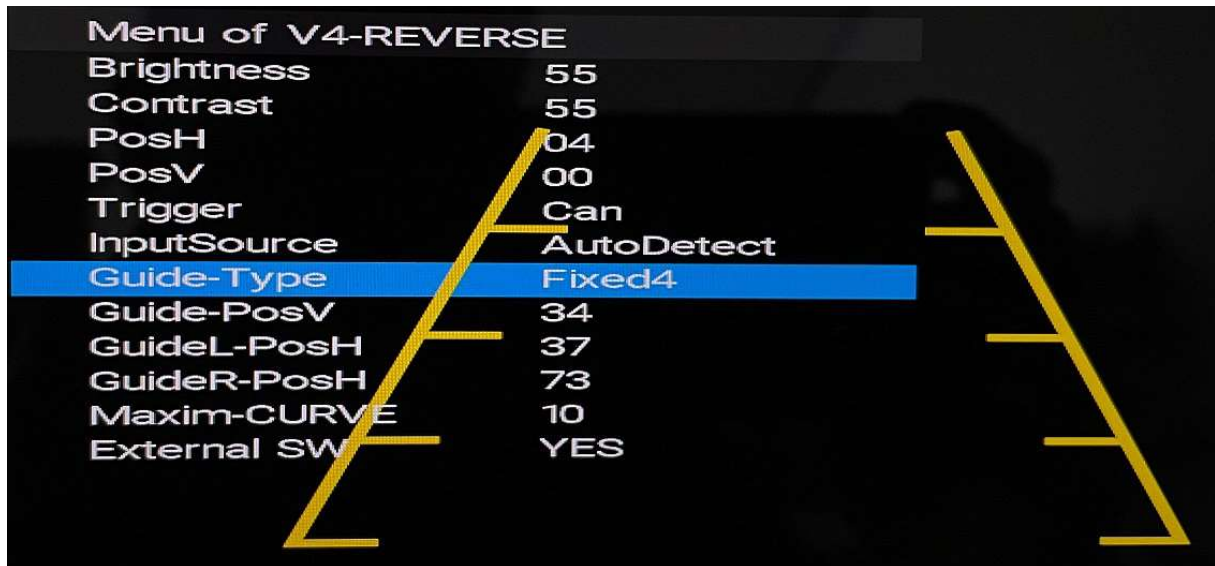
Dynamic guidelines:

Choose between 6 types of dynamic patterns!



Fixed guidelines:

Choose between 6 types of fixed patterns!



FRONT CAM (V3) settings:

Menu of V3-FRONT	
Brightness	50
Contrast	50
PosH	08
PosV	00
Trigger	10s after REV
InputSource	AutoDetect

Trigger: select the desired time to show the Front cam picture automatically after reversing.

InputSource: **AutoDetect:** interface detects the inserted video signal automatically.
Other fixed video system settings are: [PAL](#), [CVBS](#), [720P PAL](#), [720P NTSC](#), [960P PAL](#), [960P NTSC](#), [1080P PAL](#), [1080P NTSC](#).

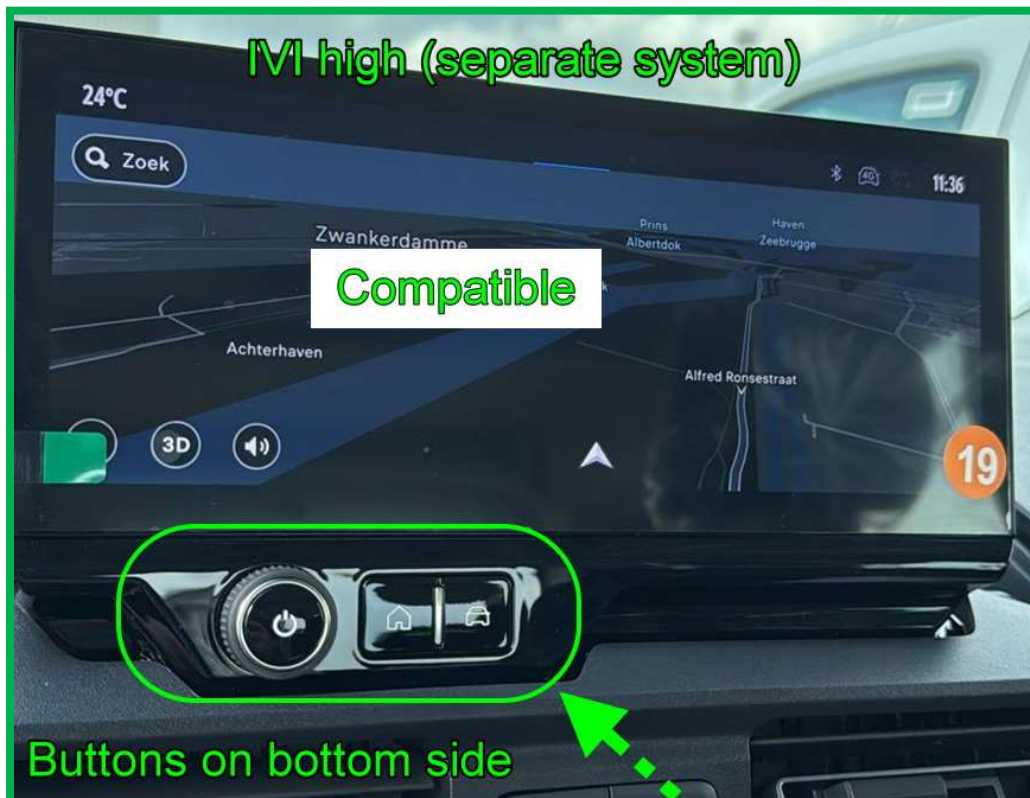
Left (V2) / Right (V1) settings:

Menu of V2-RIGHT	
Brightness	50
Contrast	50
PosH	08
PosV	00
Trigger	Can
InputSource	AutoDetect

Trigger: **CAN:** interface switches over if CAN data matches, otherwise trigger wire needs to be connected.
Wire: interfaces switches only over by using the trigger wire to activate the camera/video channel.

InputSource: **AutoDetect:** interface detects the inserted video signal automatically.
Other fixed video system settings are: [PAL](#), [CVBS](#), [720P PAL](#), [720P NTSC](#), [960P PAL](#), [960P NTSC](#), [1080P PAL](#), [1080P NTSC](#).

Compatibility:



Not compatible with AIO systems like below!

