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

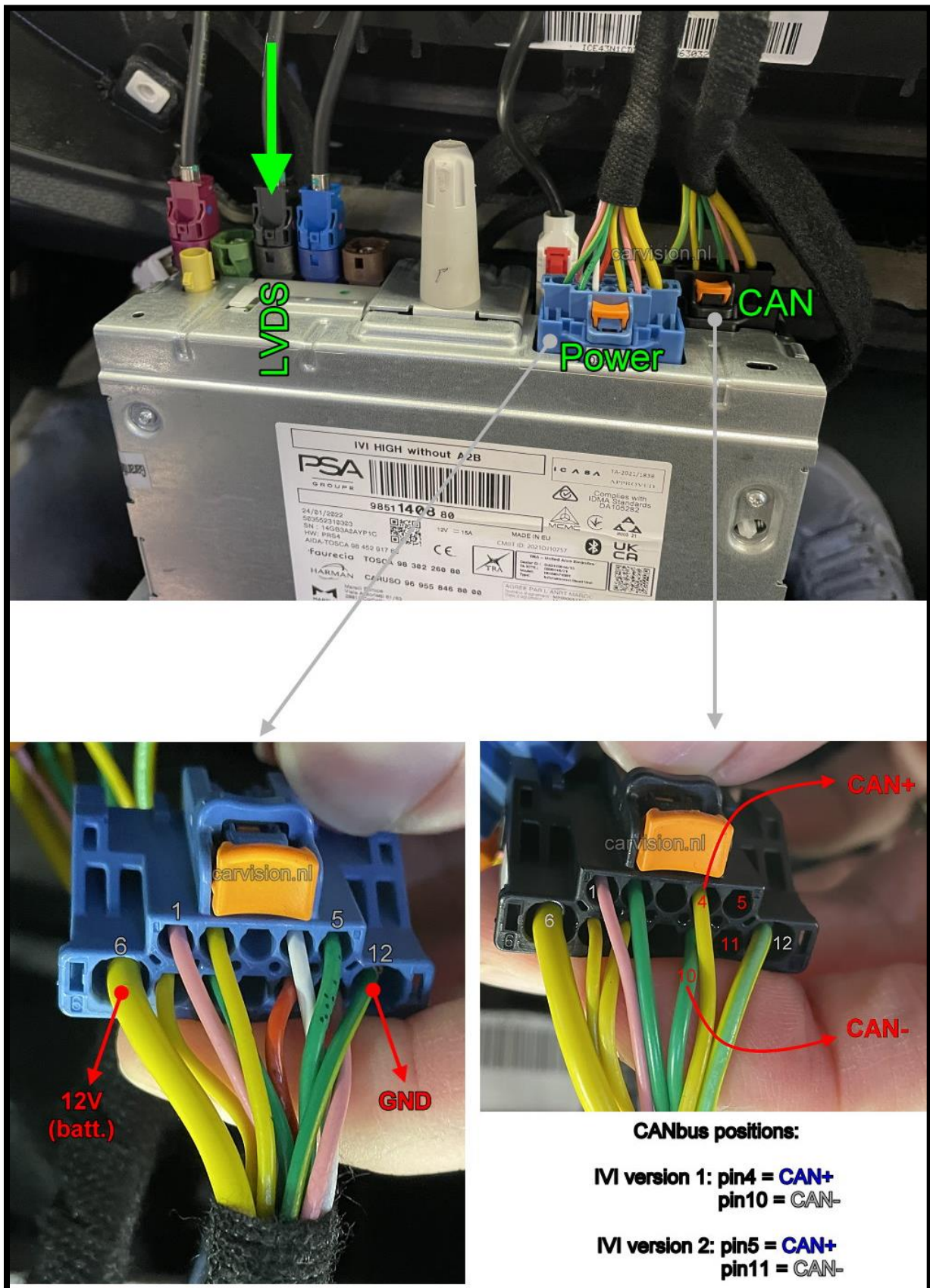Not compatible with ALL-IN-ONE 10,25" system (AIO Bosch, page 12)

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:
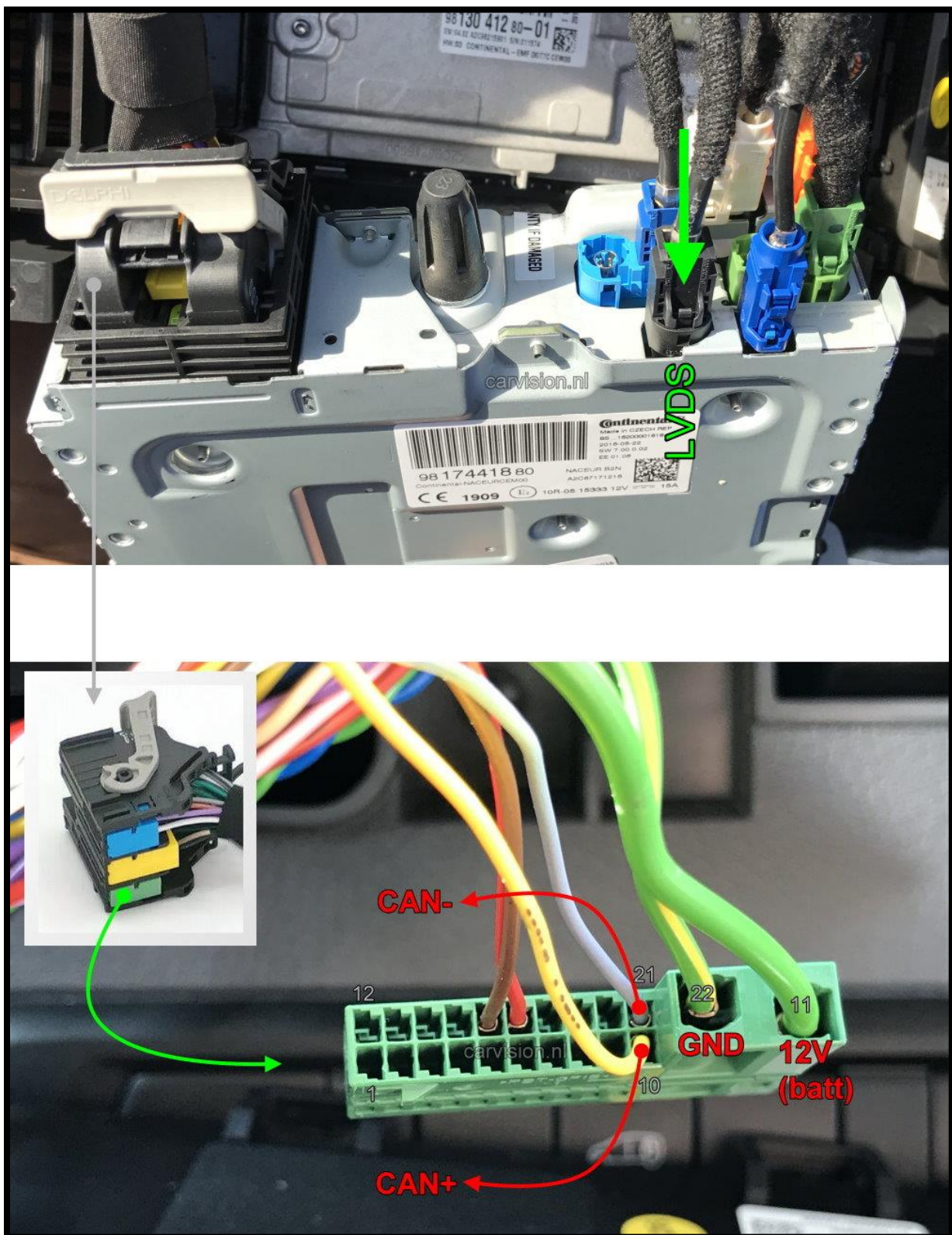
LVDS connection IVI / NAC / RCC:

LVDS

Head unit

Connect LVDS cable behind the IVI / NAC / RCC head unit in between.

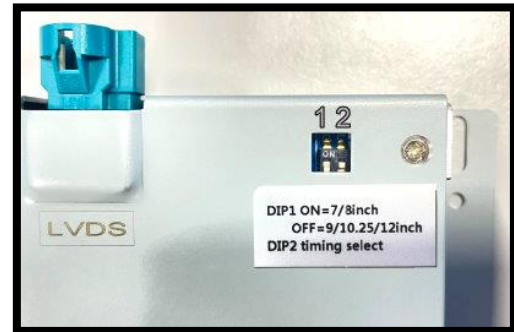KEEP DISPLAY SIDE ORIGINAL CONNECTED!
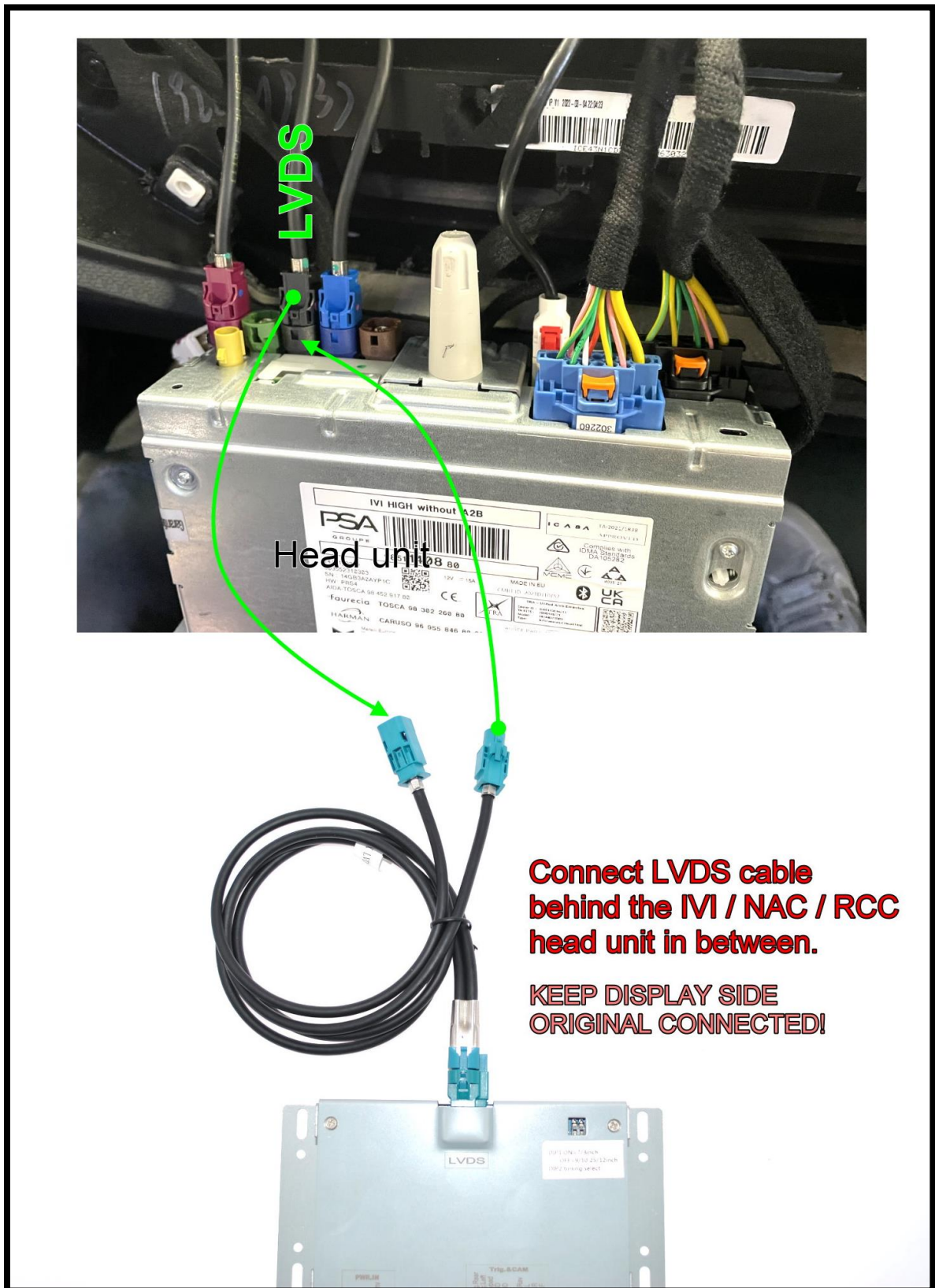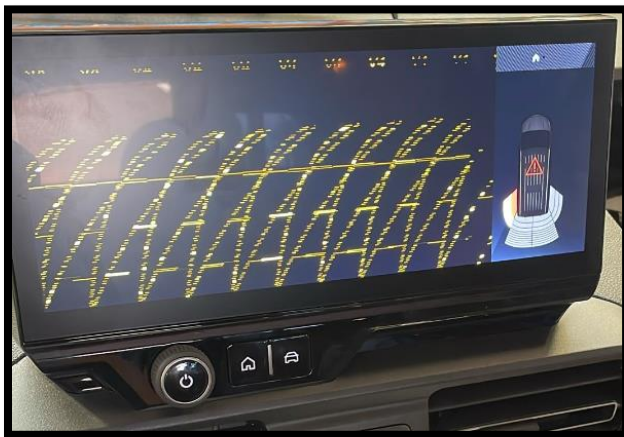
DIP switch settings

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 <u>disconnected from CANbus</u>.

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).
- <u>Short-press on external switch</u> to switch fast from OEM picture to <u>Front cam</u> 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:

|	
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 tigger wire to activate the camera/video channel
InputSource:	**AutoDetect:** interface detects the inserted video signal automatically. Other fixed video system settings are: PAL, NTSC, 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!
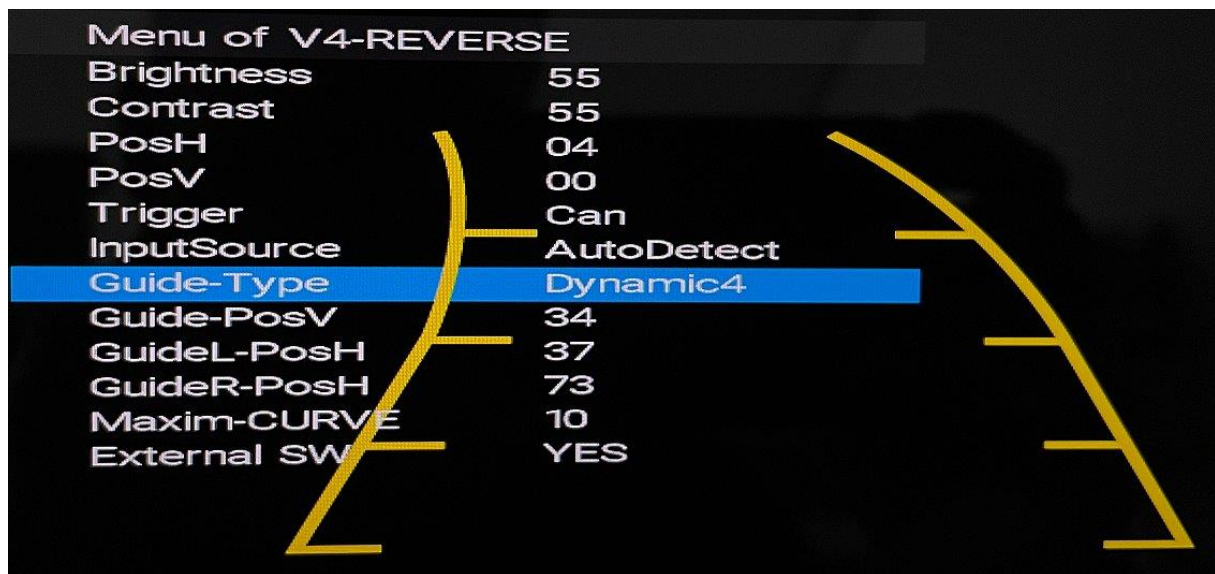
Fixed guidelines:
Choose between 6 types of fixed patterns!
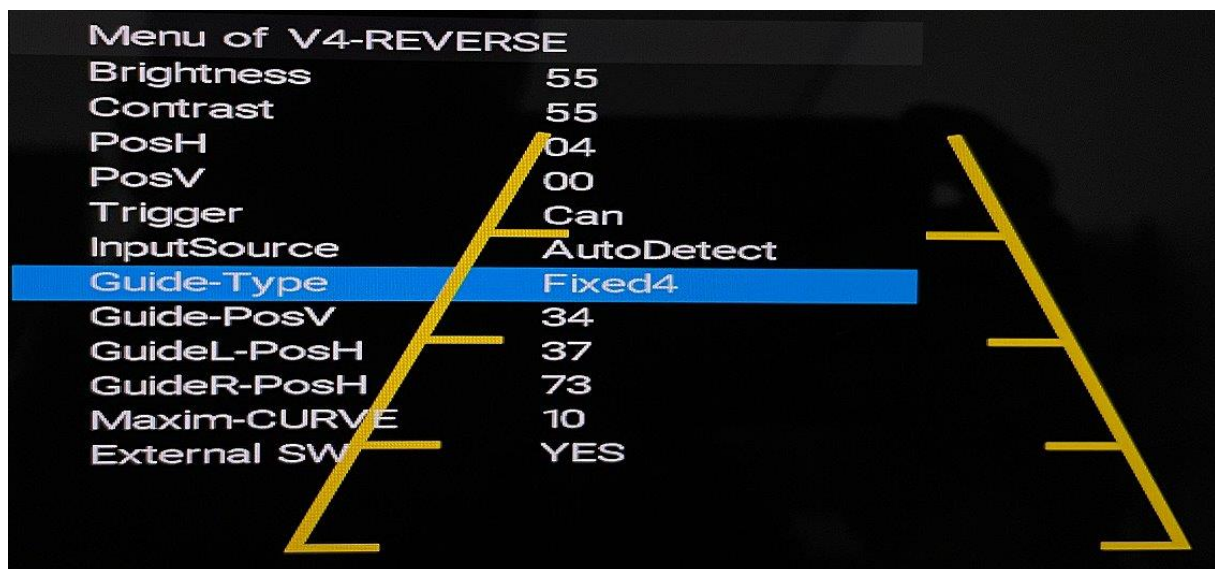
FRONT CAM (V3) settings:

Trigger: select the desired time to show the <u>Front cam picture automatically after reversing</u>.

InputSource: **AutoDetect:** interface detects the inserted video signal automatically.
Other fixed video system settings are: PAL, NTSC, 720P PAL, 720P NTSC, 960P PAL, 960P NTSC, 1080P PAL, 1080P NTSC.
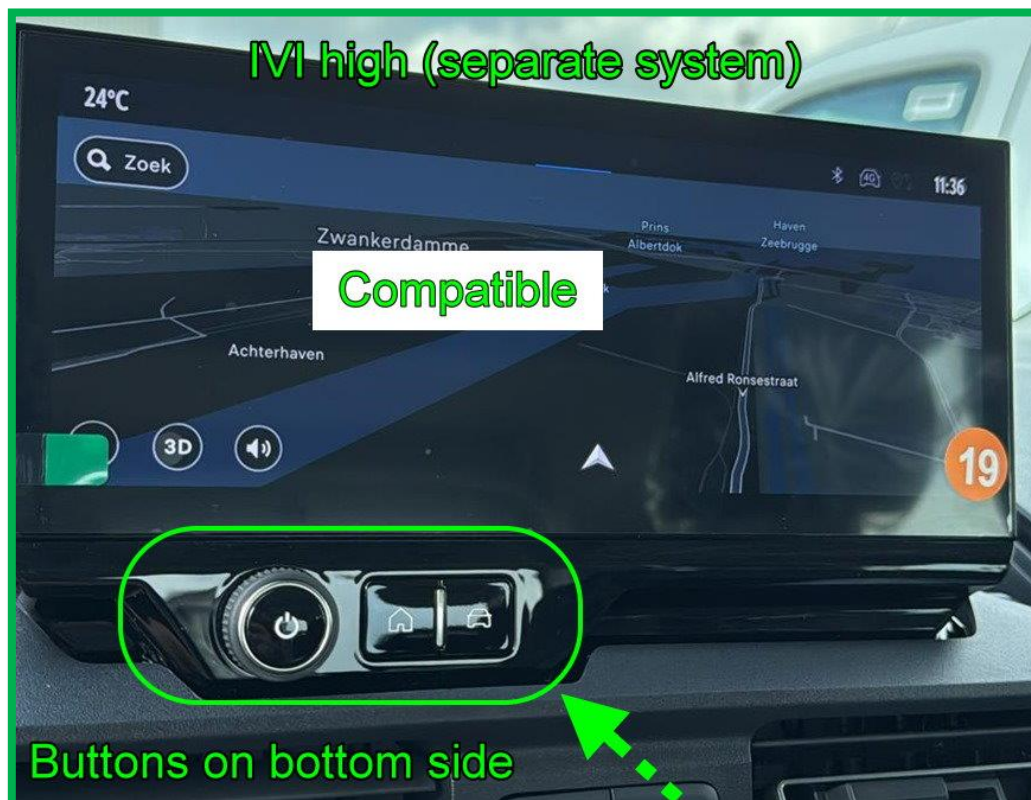
Left (V2) / Right (V1) settings:

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

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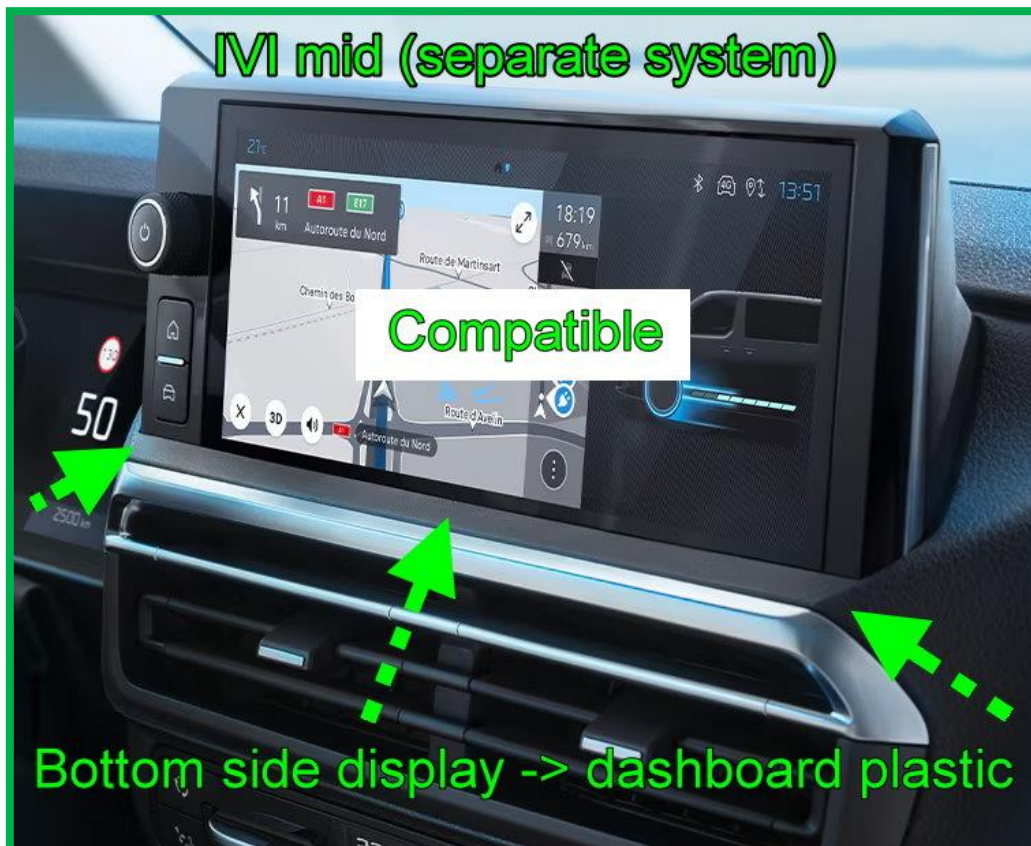Other fixed video system settings are: PAL, NTSC, 720P PAL, 720P NTSC, 960P PAL, 960P NTSC, 1080P PAL, 1080P NTSC.

Compatibility:

IVI mid (separate system)

Compatible

Bottom side display -> dashboard plastic

IVI high (separate system)

Compatible

Buttons on bottom side

Not compatible with AIO systems like below!

All-in-one

Not compatible

AIO

Glossy display edge all around

AIO Bosch All-in-one