

Video-inserter

RL4-SY3-R5



Examples

Compatible with Ford vehicles with
Sync2.5 (Sync3 light/R5) version
with 6.5, 7 or 8inch tablet monitor
Sync Connected Radio version
with 4inch monitor
Sync3 full version with APIM and with
7inch or 8inch monitor

Video-inserter for front- and rear-view camera
and two additional video sources

Product features

- Video-inserter for factory-infotainment systems
- 1 CVBS Input for rear-view camera
- 1 CVBS Input for front camera
- 2 CVBS video-inputs for after-market devices (e.g. USB-Player, DVB-T2 tuner)
- Automatic switching to rear-view camera input on engagement of the reverse gear
- Automatic front camera switching after reverse gear for 10 seconds
- Activatable parking guide lines for rear-view camera (not available for all vehicles)
- Activatable PDC (not available for all vehicles)
- Video-in-motion (ONLY for connected video-sources)
- Video-inputs NTSC compatible

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Legal Information

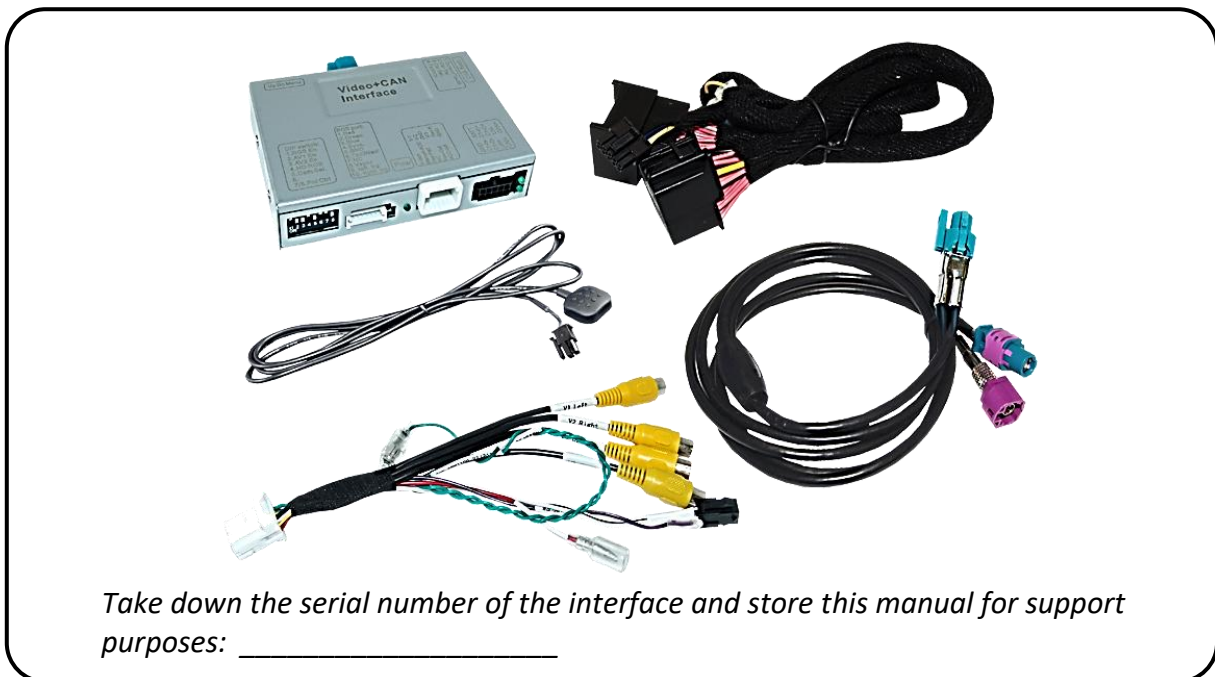
By law, watching moving pictures while driving is prohibited, the driver must not be distracted. We do not accept any liability for material damage or personal injury resulting, directly or indirectly, from installation or operation of this product. Apart from using this product in an unmoved vehicle, it should only be used to display fixed menus or rear-view-camera video when the vehicle is moving (for example the MP3 menu for DVD upgrades).

Changes/updates of the vehicle's software can cause malfunctions of the interface. Up to one year after purchase we offer free software-updates for our interfaces. To receive a free update, the interface has to be sent in at own cost. Wages for de-and reinstallation and other expenditures involved with the software-updates will not be refunded.

1. Prior to installation

Please read the manual thoroughly BEFORE starting the installation. Technical knowledge is imperatively required. The place of installation has to be free of moisture and away from heat sources.

1.1. Delivery contents



1.2. Checking the compatibility of vehicle and accessories

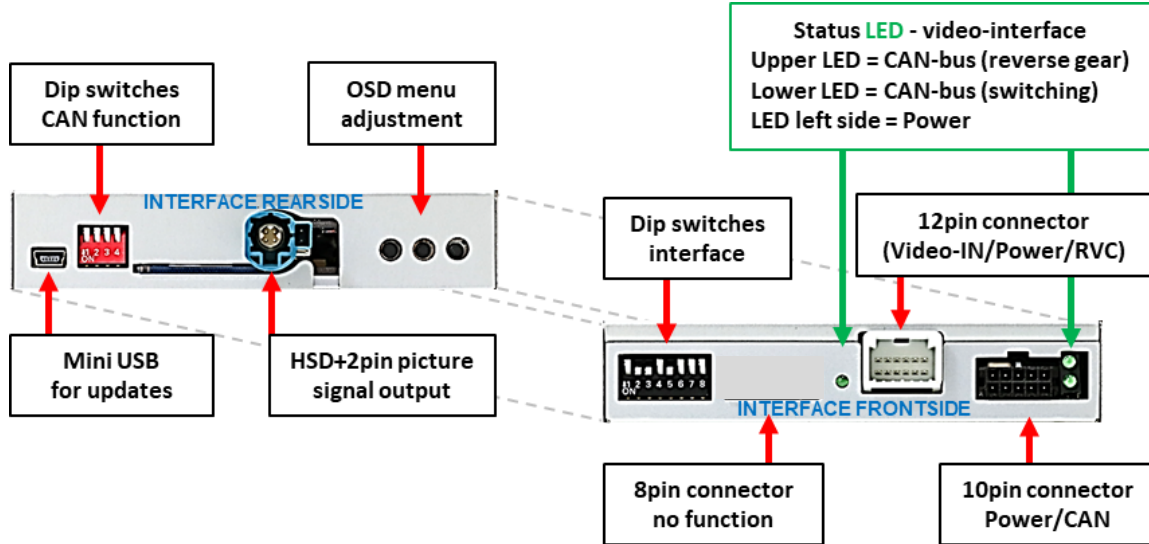
Compatibility		
Brand	Compatible vehicles	Infotainment systems
Ford	C-Max since model year 2018	Sync2.5 (Sync3 light/R5) version with 6.5inch, 7inch or 8inch tablet monitor
	Ecosport since model year 2017	
	Fiesta model year 2018 since 07/2017	
	Focus since model year 2017	Sync Connected Radio version with 4inch monitor
	Galaxy since model year 2016	
	Kuga2 Facelift about 09/2016 til 11/2019	Sync3 full version with APIM and with 7inch or 8inch tablet or non-table monitor – Non Plug & Play installation. For Plug & Play the RL4-SY3 is available)
	Kuga3 11/2019 til 05/2024	
	Mondeo since about 2017	
	Mustang since model year 2017	
	Puma	
Ranger since model year 2017		
S-Max since model year 2016		
Tourneo Connect		
Tourneo Custom		
Transit since model year 2017		
Transit Custom since facelift 2018 and other vehicles with		

Limitations

<i>Video only</i>	The interface inserts ONLY video signals into the infotainment. For inserting Audio signals either the possibly existing factory audio-AUX-input or a FM-modulator can be used. In case that 2 AV sources shall be connected, a desired audio switching will require additional electronic.
<i>Factory rear-view camera</i>	Automatically switching-back from inserted video to factory rear-view camera is only possible while the reverse gear is engaged. To delay the switch-back an additional electronic part is required.
<i>After market front camera</i>	The front camera will automatically be switched for 10 seconds after disengaging the reverse gear. A manually front camera switching is possible by external keypad.
<i>Driving-path lines and PDC</i>	Displayed driving-path lines and the optical PDC are not available in all vehicles.
Video input signal	NTSC video sources compatible only.

1.3. Connectors – video interface

The video-interface converts the video signals of connected after-market sources in a factory monitor compatible picture signal which is inserted in the factory monitor, by using separate trigger options. Further it reads the vehicle's digital signals out of the vehicle's CAN-bus and converts them for the video interface.



1.4. Dip-switch settings

1.4.1. 8 dip - black

Some settings have to be selected by the dip-switches on the video interface.

Dip position down is ON and position up is OFF.



Dip	Function	ON (down)	OFF (up)
1	Front camera	enabled*	disabled
	Power supply output (red wire)	+12V (max. 3A) when reverse gear is engaged incl. 10 seconds delay and +12V by manual switching to front camera by keypad	+12V (max. 3A) ACC
2	CVBS AV1-input	enabled	disabled
3	CVBS AV2-input	enabled	disabled
4	PDC	enabled	disabled
5	Rear-view cam type	after-market	factory or none
6	Guide lines	enabled	disabled
7	Monitor selection	4inch monitor	6.5/7/8inch monitor
8	Head-unit version	All versions	Sync3 exceptions

*The front camera will automatically be switched for 10 seconds after disengaging the reverse gear.

After each Dip-switch-change a power-reset of the Video Interface has to be performed!

See the following chapters for detailed information.

1.4.1.1. Activating the front camera input (dip 1)

If set to ON, the interface switches for 10 seconds from the rear-view camera to the front camera input after having disengaged the reverse gear. In addition, a manual switch-over to the front camera input is possible via keypad (short press) from any image mode.

Description of the power supply output: see chapter "Power supply output".

1.4.1.2. Enabling the interface's video inputs (dip 2-3)

Only the enabled video inputs can be accessed when switching through the interface's video sources. It is recommended to enable only the required inputs, disabled inputs will be skipped when switching through the video-interfaces inputs.

1.4.1.3. Activation of the Interface PDC Graphic (Dip 4)

Dip 4 is used to display the interface PDC graphic as „picture in picture“ in combination with the camera image.

1.4.1.4. Rear-view camera setting (dip 5)

If set to OFF, the interface switches to factory picture while the reverse gear is engaged to display factory rear-view camera.

If set to ON, the interface switches to its rear-view camera input „**Camera-IN**“ while the reverse gear is engaged.

1.4.1.5. Enabling the Guide lines (dip 6)

If set to ON, the interface is activated to show the guide lines for the rear-view camera while the vehicle is in reverse mode (not available for all vehicles).



Note: Some vehicles have a different code on the CAN-bus which the video-interface is not compatible with. If the interface does not communicate completely with the vehicle CAN bus, the reverse gear guide-lines and the PDC can't be shown during the vehicle's operation, even if they in some vehicles once appear after having switched the system to powerless!

1.4.1.6. Monitor selection (Dip 7)

Dip 7 is used to adjust to the corresponding monitor size.

If set to ON, 4 inch monitors are selected on the interface.

If set to OFF, 6.5-, 7- and 8inch monitors are selected on the interface.

1.4.1.7. Head-unit version (dip 8)

The general dip switch setting for all head unit versions is **ON**.

However, there are a few versions that show a black image in the video inputs, which can be restored by setting the switch to **OFF**. In this case, however, an approx. 3mm thick stripe could possibly remain on the left side (see also picture settings).

After each Dip-switch-change a power-reset of the Video Interface has to be performed!

1.4.2. 4 dip - red

By using the Dip-switches, the vehicle can be chosen which the interface will be connected to.

Dip position down is ON and position up is OFF.



Vehicle/Navigation	Dip 1	Dip 2	Dip 3	Dip 4
Ford up to MY 2018	ON	OFF	Sync 3 light (R5) ON Sync 3 full version OFF	OFF
Ford from MY 2019 (Tablet)	ON	ON	Sync 3 light (R5) ON Sync 3 full version OFF	OFF

After each Dip-switch-change a power-reset of the Video Interface has to be performed!

2. Installation

To install the interface, first switch off the ignition and disconnect the vehicle's battery. Please read the owner's manual of the car, regarding the battery's disconnection! If required, enable the car's Sleep-mode (hibernation mode)

In case the sleep-mode does not succeed, the disconnection of the battery can be done with a resistor lead.

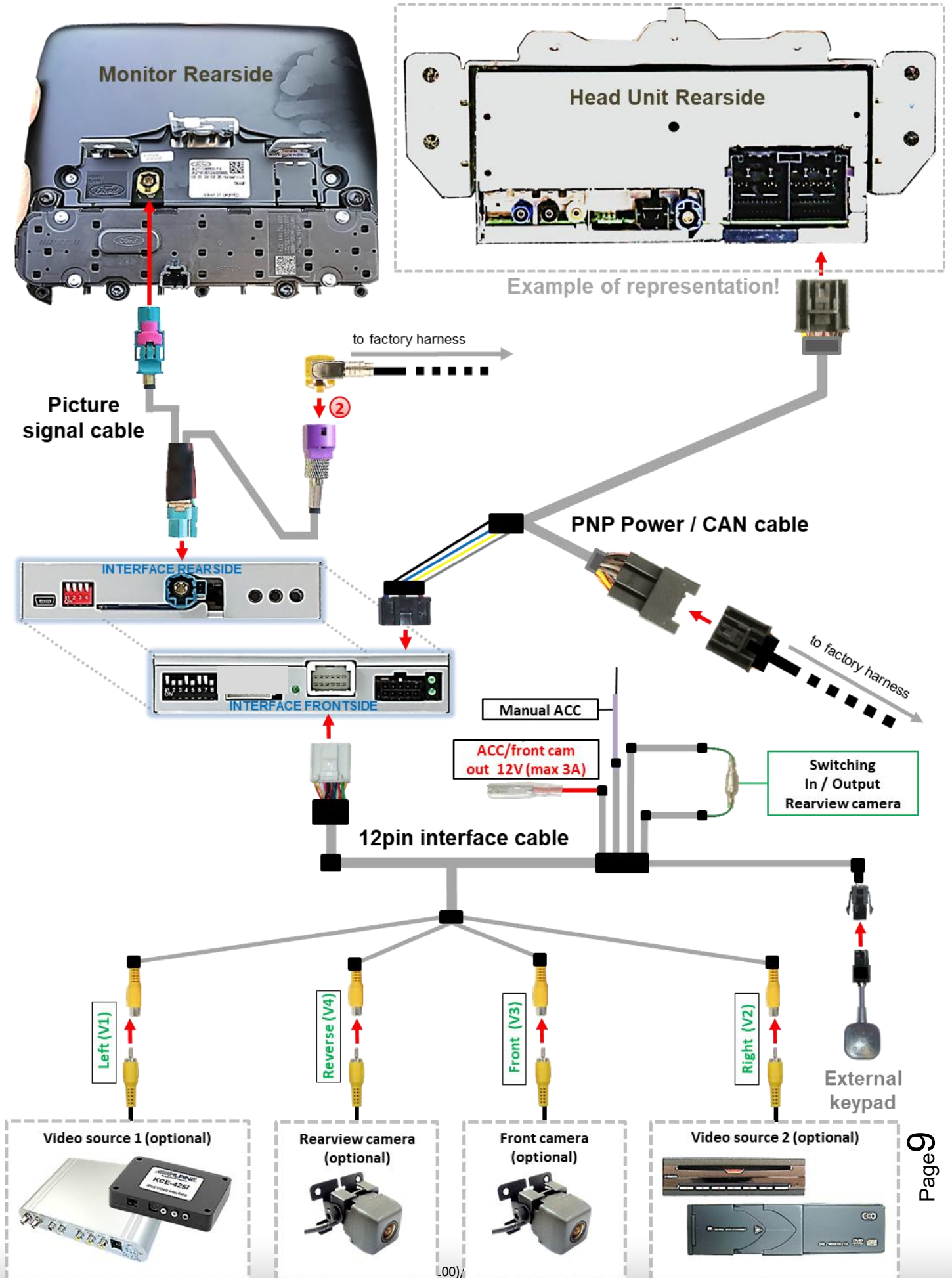
If the necessary stabilized power supply for the interface is not taken directly from the battery, the chosen connection has to be checked for being constantly stabile.

The interface needs a permanent 12V source!

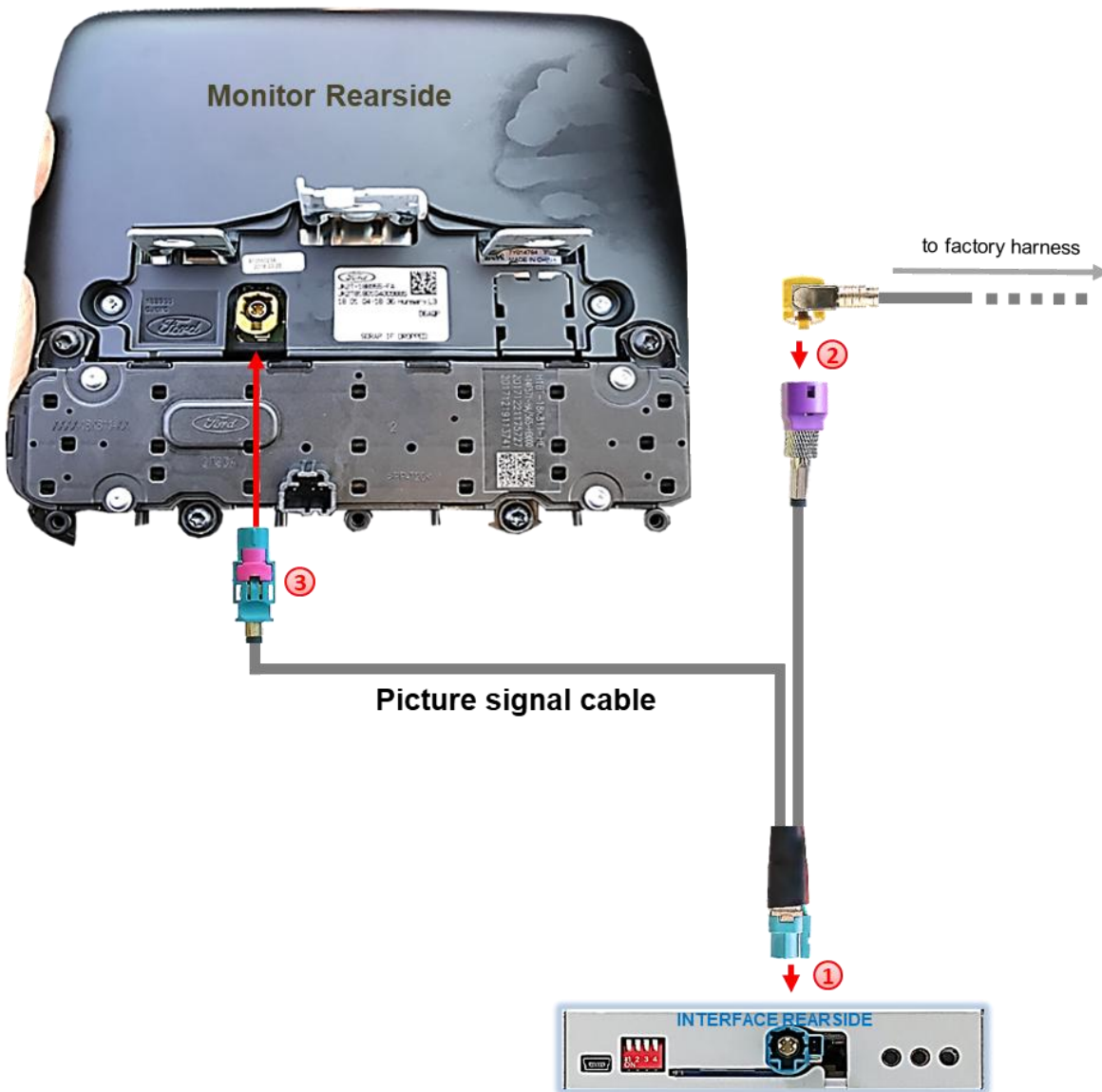
2.1. Place of installation

The picture signal cable is connected behind the monitor. The PNP power / CAN cable is connected to the factory radio module (head unit), a DIN housing. In most vehicles, this is located behind/below the monitor in the centre console. There is no APIM module with these Sync versions.

2.2. Connection schema



2.3. Connection – picture signal cable



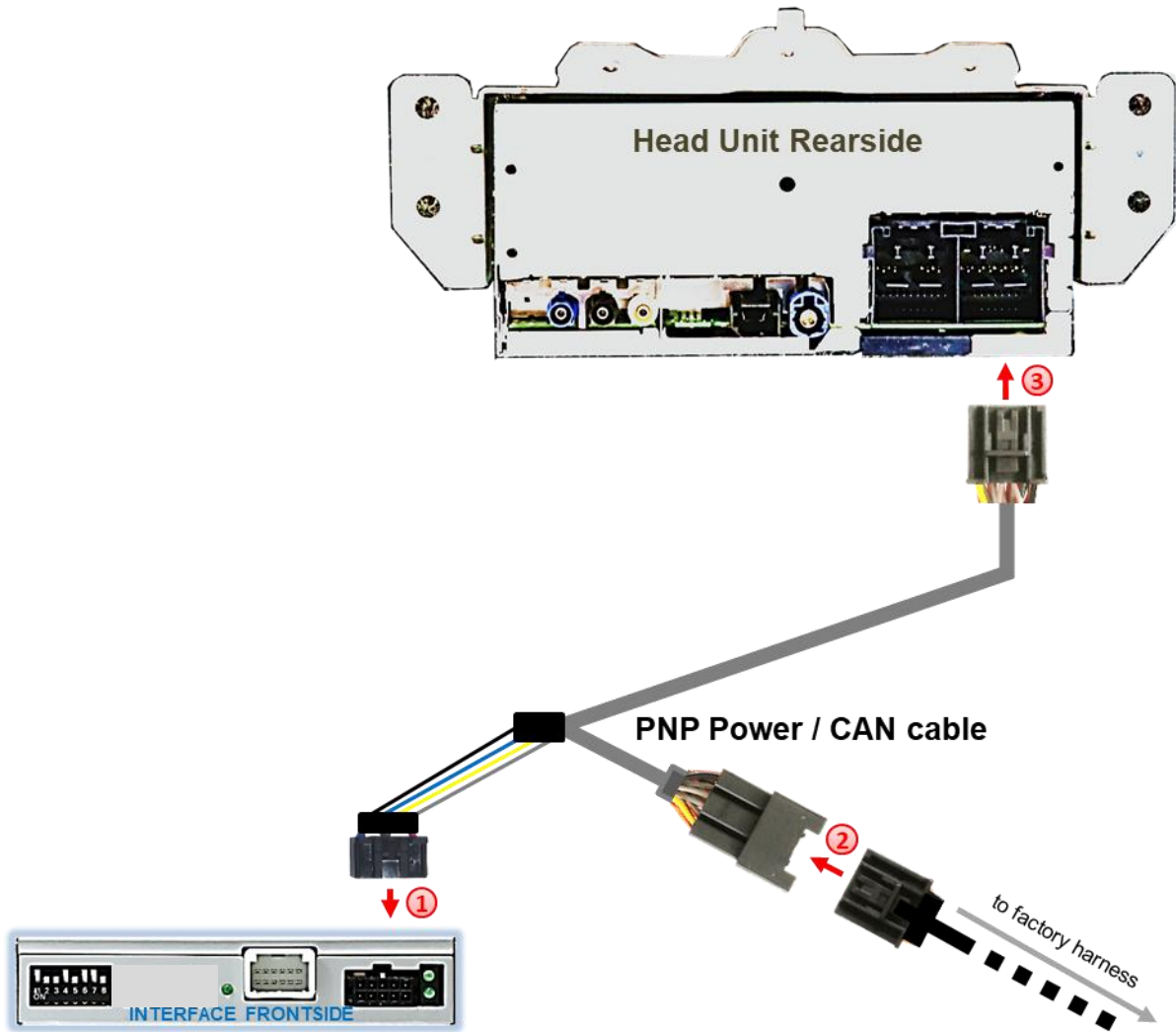
- 1 Connect the female picture signal cable's **WATERBLUE** coloured HSD+2 connector to the male **WATERBLUE** coloured HSD+2 connector of the video interface.
- 2 Disconnect the **CURRY** coloured female 4pin HSD connector of the factory harness at the rear side of the monitor and connect it to the male **PURPLE** coloured HSD connector of the enclosed 4pin HSD LVDS cable.
- 3 Connect the female **WATERBLUE** coloured HSD connector of the enclosed 4pin HSD picture signal cable to the previously become free male **CURRY** coloured HSD connector at the monitor's rear side.

Caution: The picture signal cable has to be connected to the monitor. **Connection to the head unit may cause damage to the system!**

Note: No liability for vehicle wire colours and pin definition!

Changes by the vehicle manufacturer are possible. The given information has to be verified by the installer.

2.4. Connection – PNP Power / CAN cable



- 1 Connect the enclosed PNP Power / CAN cable's female 10pin connector to the male 10pin connector of the video interface.
- 2 Disconnect the female 32pin connector of the vehicle harness at the rear side of the head-unit and connect it to the male 32pin connector of the enclosed PNP Power/CAN cable.
- 3 Connect the enclosed PNP Power / CAN cable's opposite female 32pin connector to the previously become free male 32pin connector of the head-unit.

Check 1

Exceptionally, the CAN communication may not succeed in all vehicles! If, after connecting the PNP harness, no interface LED lightens up while the ignition is turned on, additionally the analog power supply needs to be done! (see following chapter)



Check 2

Exceptionally, the power supply to the video interfaces may not be interrupted after switching to the vehicle's sleep mode. If the interface LEDs continue to shine even in the vehicle's sleep mode, please contact the support!

2.5. Special case: Sync 3 full version

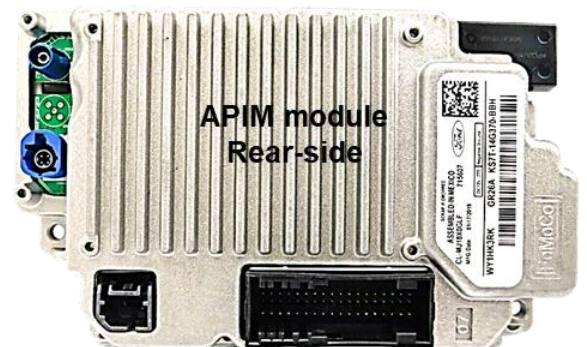
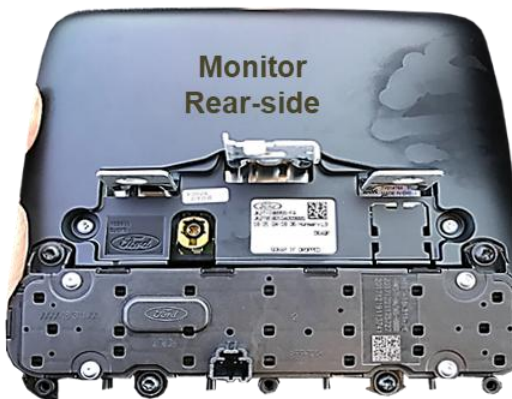
*Non Plug & Play installation
For Plug & Play is
RL4-SY3 available*

The place of installation differs for the respective Sync3 full versions:

- **Sync3 full version as ALL-IN-ONE Head-Unit**
Installation location is behind the head unit - with the ALL-IN-ONE head unit, the APIM module is attached as a sandwich to the back of the monitor.



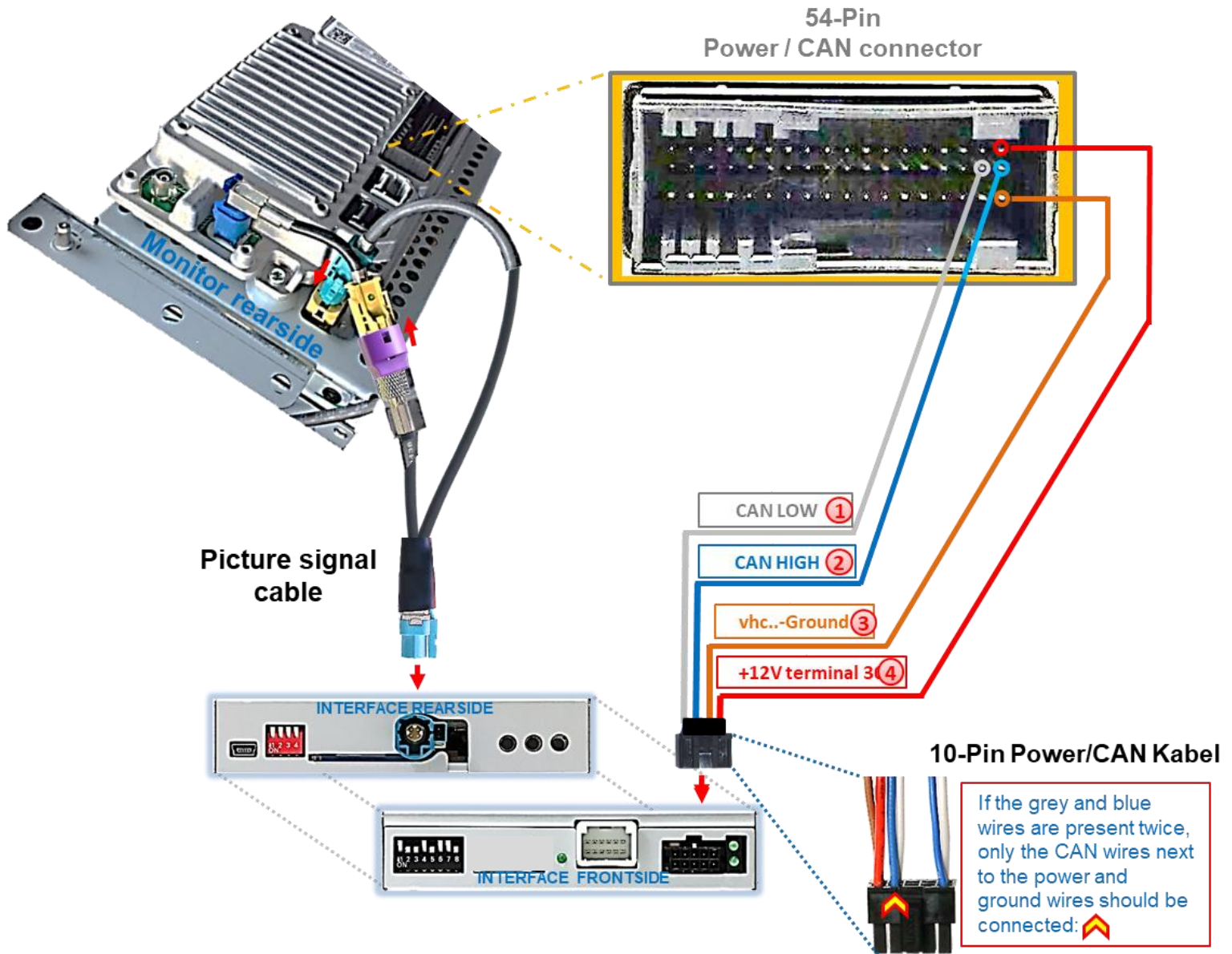
- **Sync3 full version with tablet monitor and separate APIM module**
Installation location is behind the monitor and on the APIM module - the APIM module is located behind the centre console, behind the glove box Or behind the Tacho unit (e.g. Puma, Ecosport).



Note: The radio module is a separate DIN-sized module and is NOT required for installation!

2.5.1. Sync3 full version as ALL-IN-ONE head-unit

For connection to the Sync3 full version All-IN-ONE, the 10pin Power/CAN cable's 4 single wires have to be cut near the big harness, for single connection. The 32pin PNP connection can't be used!



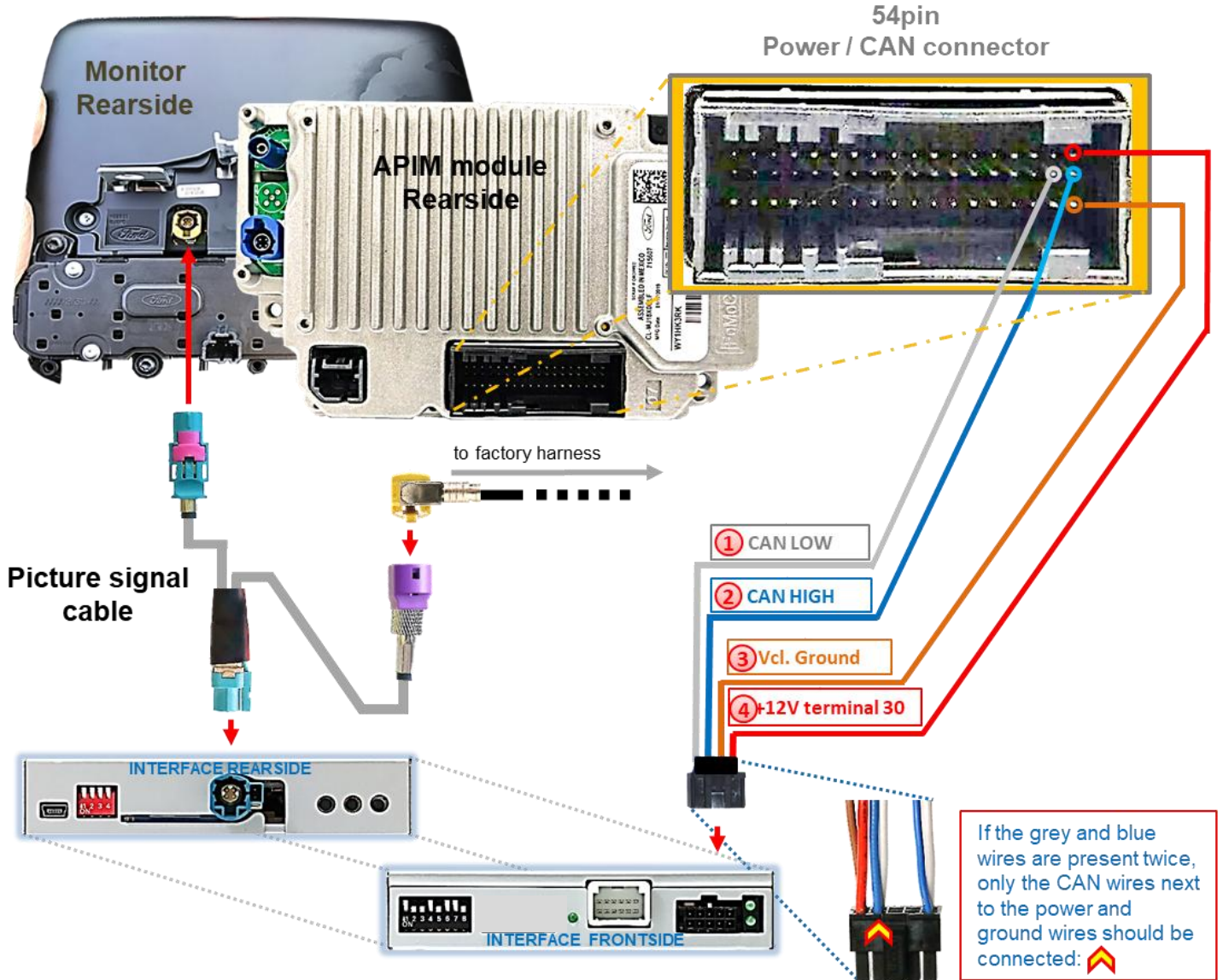
- ① Connect the single grey cable „CAN LOW“ of the 4 wires to the corresponding pin of the head-unit's main 54-pin connector as shown in the diagram above and isolate it.
- ② Connect the single blue cable „CAN HIGH“ of the 4 wires to the corresponding pin of the head-unit's main 54pin connector according to the diagram above (directly beside CAN LOW) and isolate it.
- ③ Connect the single red wire to stabile **+12V permanent terminal 30**.
- ④ Connect the single brown cable to the vehicle's **Ground**.

Note: No liability for vehicle wire colours and pin definition!

Changes by the vehicle manufacturer are possible. The given information has to be verified by the installer.

2.5.2. Sync3 full version with tablet monitor and separate APIM module

For connection to the Sync3 full version with separate APIM module, the 10pin Power/CAN cable's 4 single wires have to be cut near the big harness, for single connection. The 32pin PNP connectors can't be used!



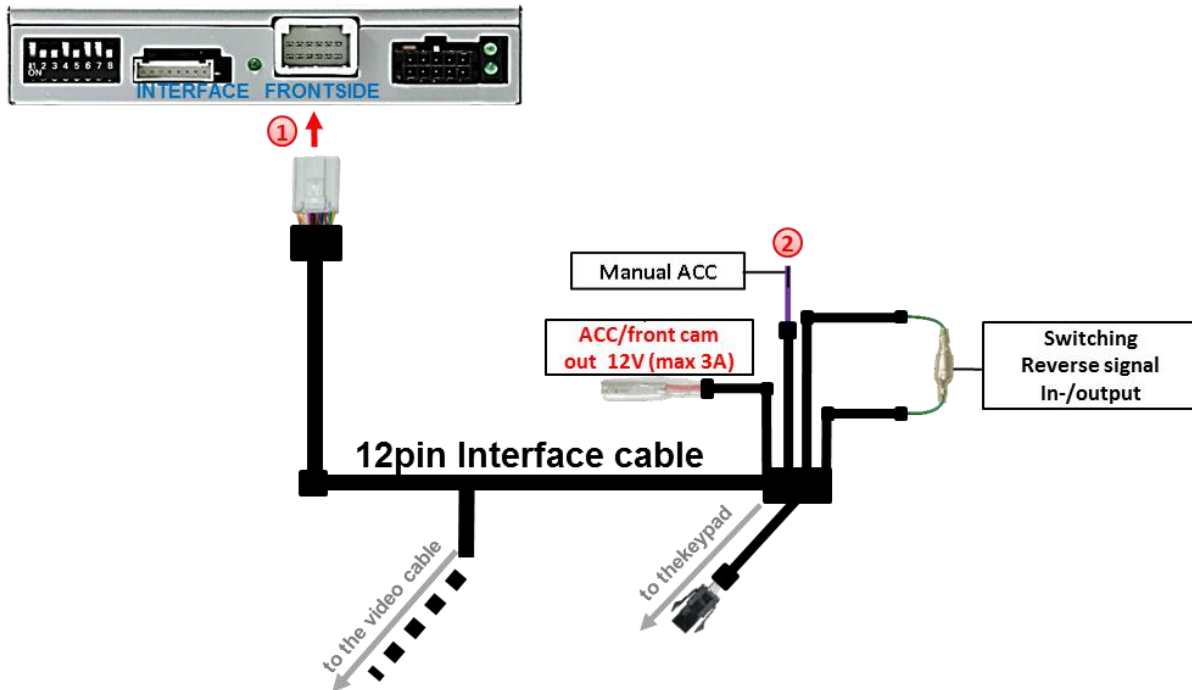
- 1 Connect the single grey cable „CAN LOW“ of the 4 wires to the corresponding pin of the APIM module's main 54-pin connector according to the diagram above and isolate it.
- 2 Connect the single blue cable „CAN HIGH“ of the 4 wires to the corresponding pin of the APIM module's main 54pin connector, according to the diagram above (directly beside CAN LOW) and isolate it.
- 3 Connect the single red wire to stable **+12V permanent terminal 30**.
- 4 Connect the single brown cable to the vehicle's **Ground**.

Note: No liability for vehicle wire colours and pin definition!

Changes by the vehicle manufacturer are possible. The given information has to be verified by the installer.

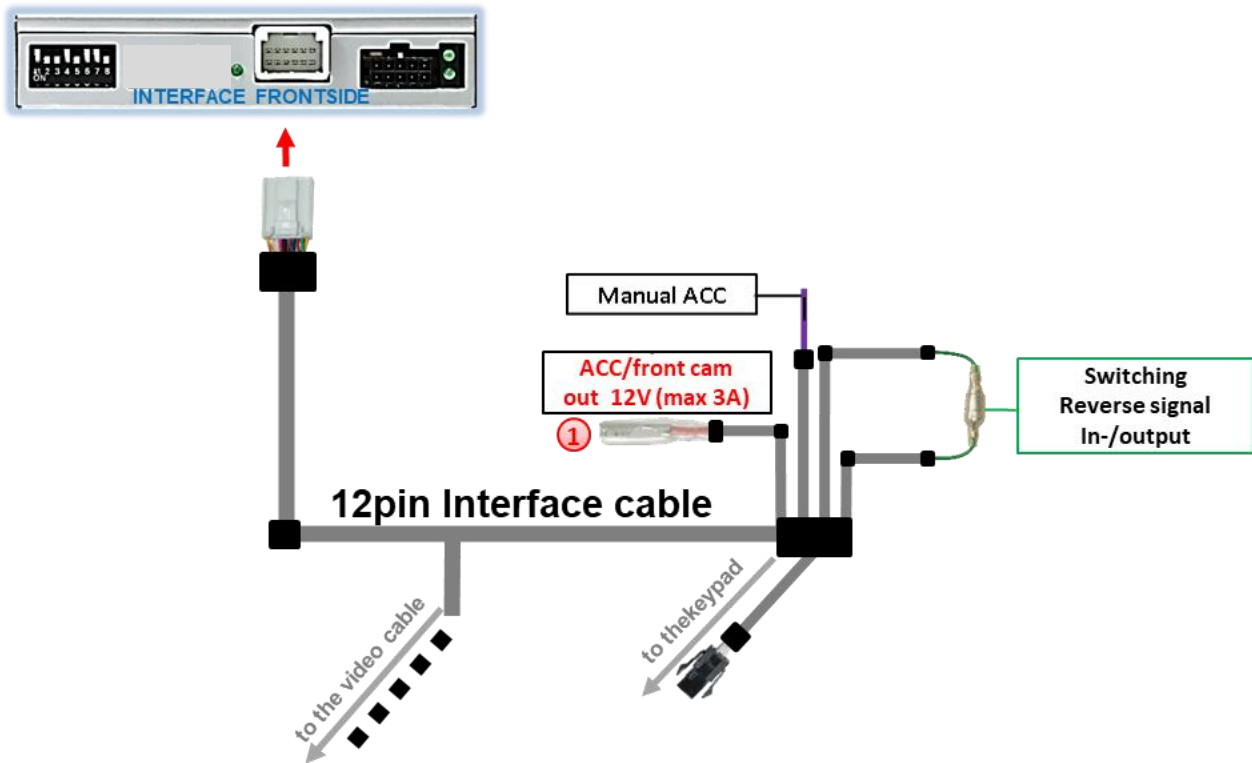
2.6. Installation with analogue connection (without CAN bus)

If, after connecting the PNP harness, no interface LED lightens up while the ignition is turned on, the interface must also be connected in analogue mode.



- 1 Connect the female 12pin connector of the 12pin interface cable to the male 12pin connector of the video interface.
- 2 Connect the 12pin interface cable's purple coloured wire **Manual ACC** to **+12V ACC** or to **S-contact terminal 86s +12V** (e.g. glove compartment illumination).

2.7. Power supply output



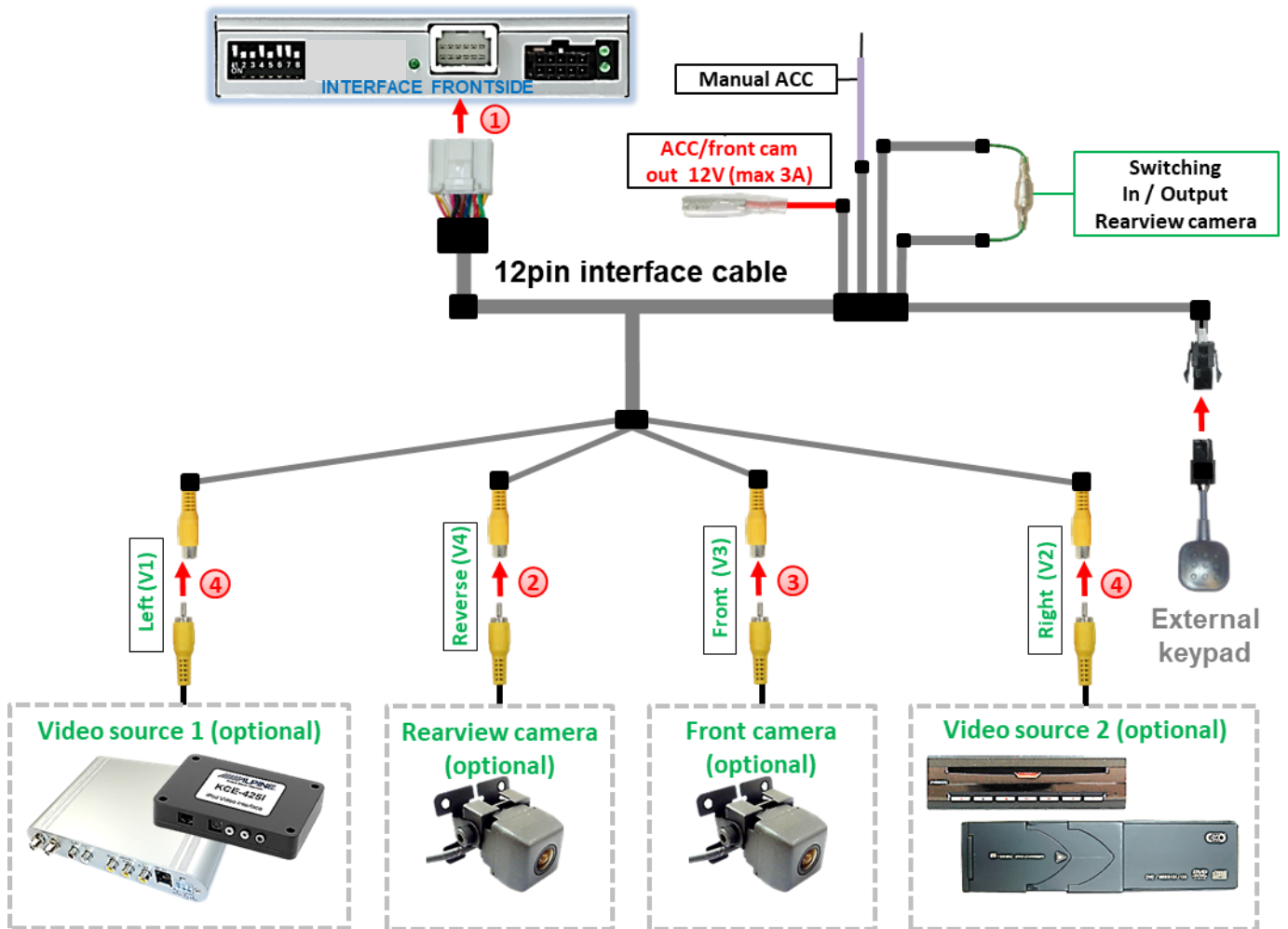
- ① The red power supply output **ACC/front cam out 12V (max 3A)** can be used to power an external source and has a different assignment depending on the position of dip switch 1 (of the black 8 dips):

Dip	Function
Dip 1 ON	+12V (max. 3A) when reverse gear is engaged incl. 10 seconds delay after reverse gear is disengaged and +12V by manual switching to front camera by keypad (short press)
Dip 1 OFF	+12V (max. 3A) ACC

3. Connecting Video sources

It is possible to connect an after-market rear-view camera, an after-market front camera and two more video sources to the video-interface.

Before the final installation, we recommend a test-run to detect a incompatibility of vehicle and interface. Due to changes in the production of the vehicle manufacturer there's always a possibility of incompatibility.

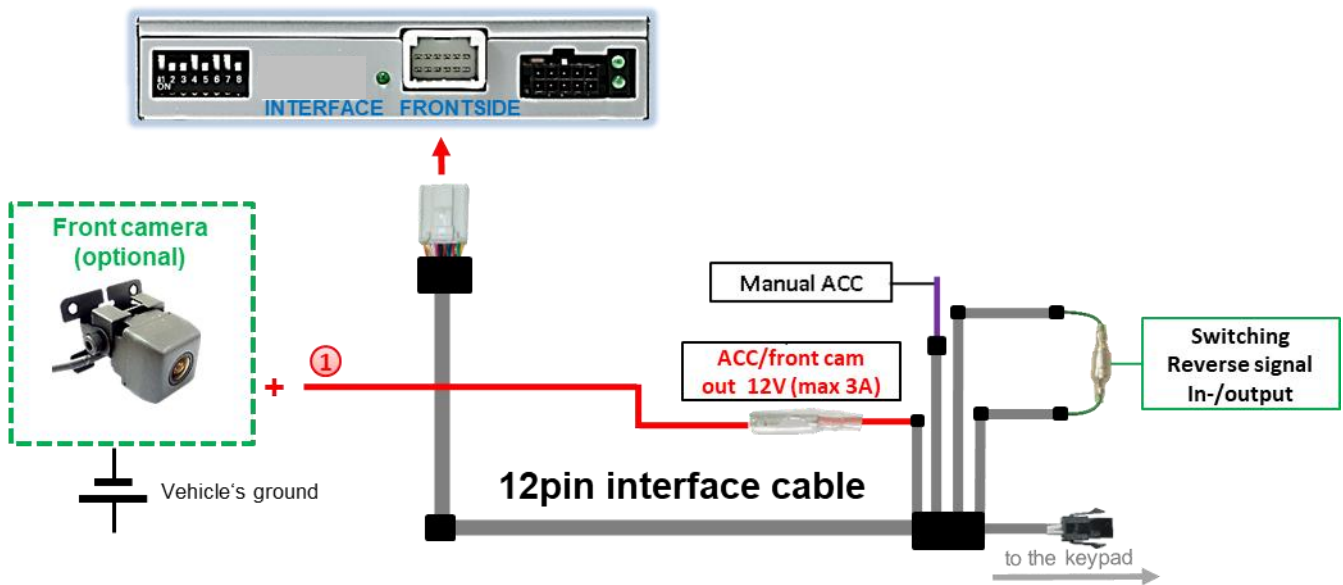


- ① Connect the 12pin interface cable's female 12pin connector to the male 12pin connector of the video-interface.
- ② Connect the video RCA of the Rear-view camera to the 12pin interface cable's female RCA connector „Reverse V4“.
- ③ Connect the front camera's video RCA connector to the 12pin interface cable's female RCA connector „Front V3“.
- ④ Connect the video RCA of the AV source 1 and 2 to the 12pin interface cable's female RCA connector “Left (V1)” and “Right (V2)”.

3.1. Audio-insertion

This interface is only able to insert video signals into the factory infotainment. If an AV-source is connected, the audio insertion has to be done by the factory audio AUX input or an FM-modulator. The inserted video-signal can be activated simultaneously to each audio-mode of the factory infotainment. If 2 AV sources shall be connected to the infotainment, additional electronic is necessary to switch the audio signals.

3.2. After-market front camera



- ① The red power supply output **ACC/front cam out 12V (max 3A)** can be used to power a front camera. If Dip 1 is set to ON (black 8 dips), the power supply output gives +12V (max 3A) when reverse gear is engaged incl. 10 seconds delay after reverse gear is disengaged.

Note: In addition, a manual switch-over to the front camera input is possible via keypad (short press) from any image mode. The power supply output gives +12V then, as well (if Dip 1 is set to ON and the front camera input is selected).

Attention: A long press of the external keypad push button will switch the interface to the next source.

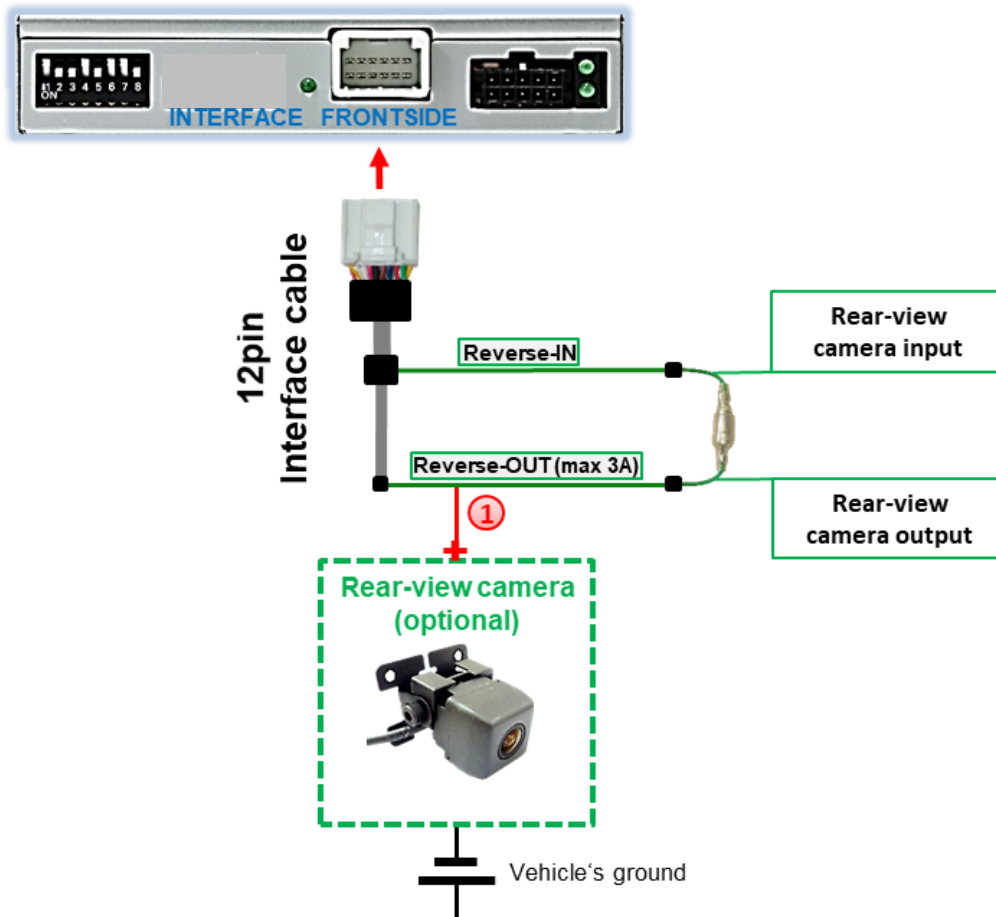
3.3. After-market rear-view camera

Some vehicles have a different reverse gear code on the CAN-bus which doesn't communicate with the interface's CAN. In this case there are two different ways of installation. If the interface's CAN is able to detect an enabled vehicle's reverse gear, the green wire of the 6pin to 12pin cable should carry +12V while the reverse gear is engaged.

Note: Do not forget to set dip5 of video-interface to ON before testing.

3.3.1. Case 1: Interface receives the reverse gear signal

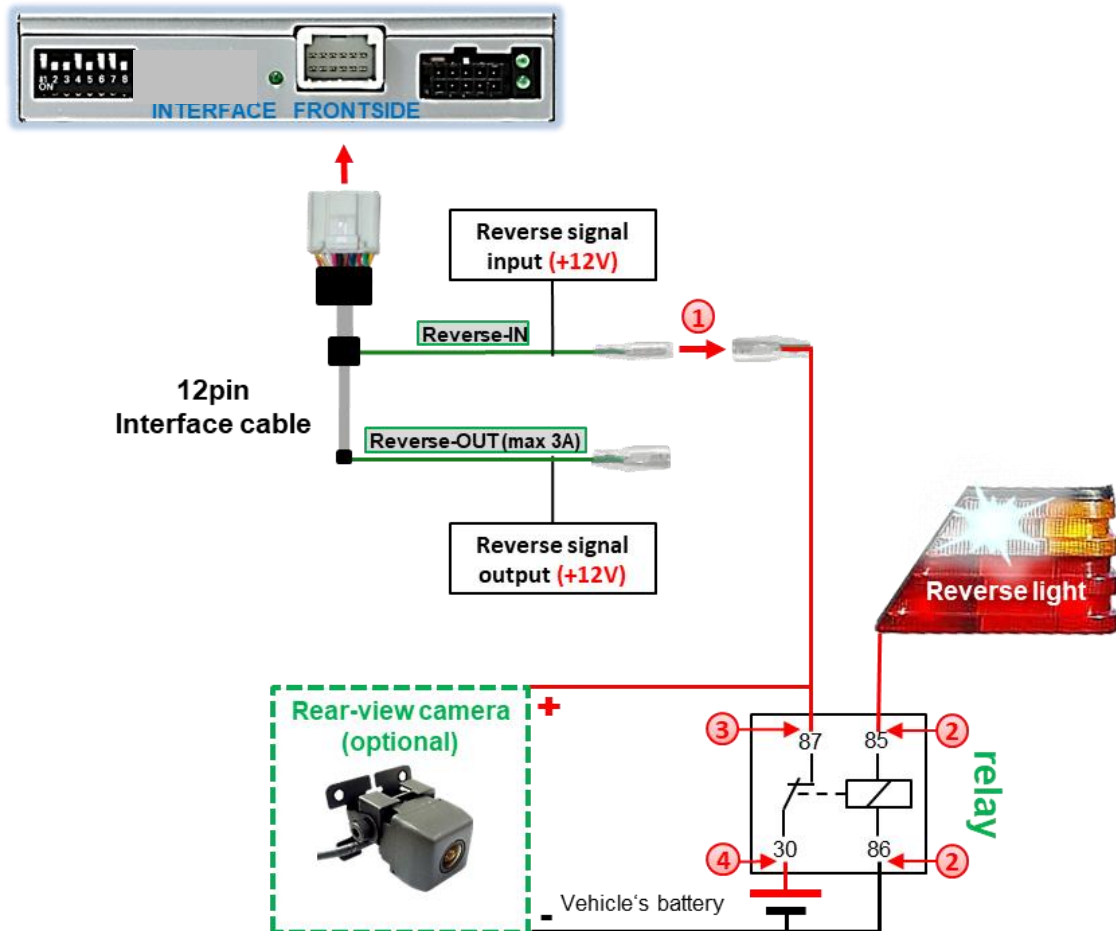
If the interface receives +12V on the green wire of the 12pin interface cable while reverse gear is engaged, the video interface will automatically switch to the rear-view camera input **"CAMERA-IN"** while the reverse gear is engaged.



- 1 The 12 V power supply for the rear-view camera (max 3A) has to be taken from the 12pin interface cable's green wire **"Reverse-OUT"** to avoid an unnecessary, permanent power supply to the camera electronic. Both green cables **"Reverse IN"** and **"Reverse OUT"** have to remain connected.

3.3.2. Case 2: Interface does not receive the reverse gear signal

If the video interface does not receive +12V on the green wire of the 12pin interface cable when reverse gear is engaged (not all vehicles are compatible), an external switching signal from the reverse gear light is required. As the reverse gear light's power supply isn't voltage-stable all the time, an ordinary open relay (e.g AC-RW-1230 with wiring AC-RS5) or filter (e.g. AC-PNF-RVC) is required. The diagram below shows the connection type of the relay.

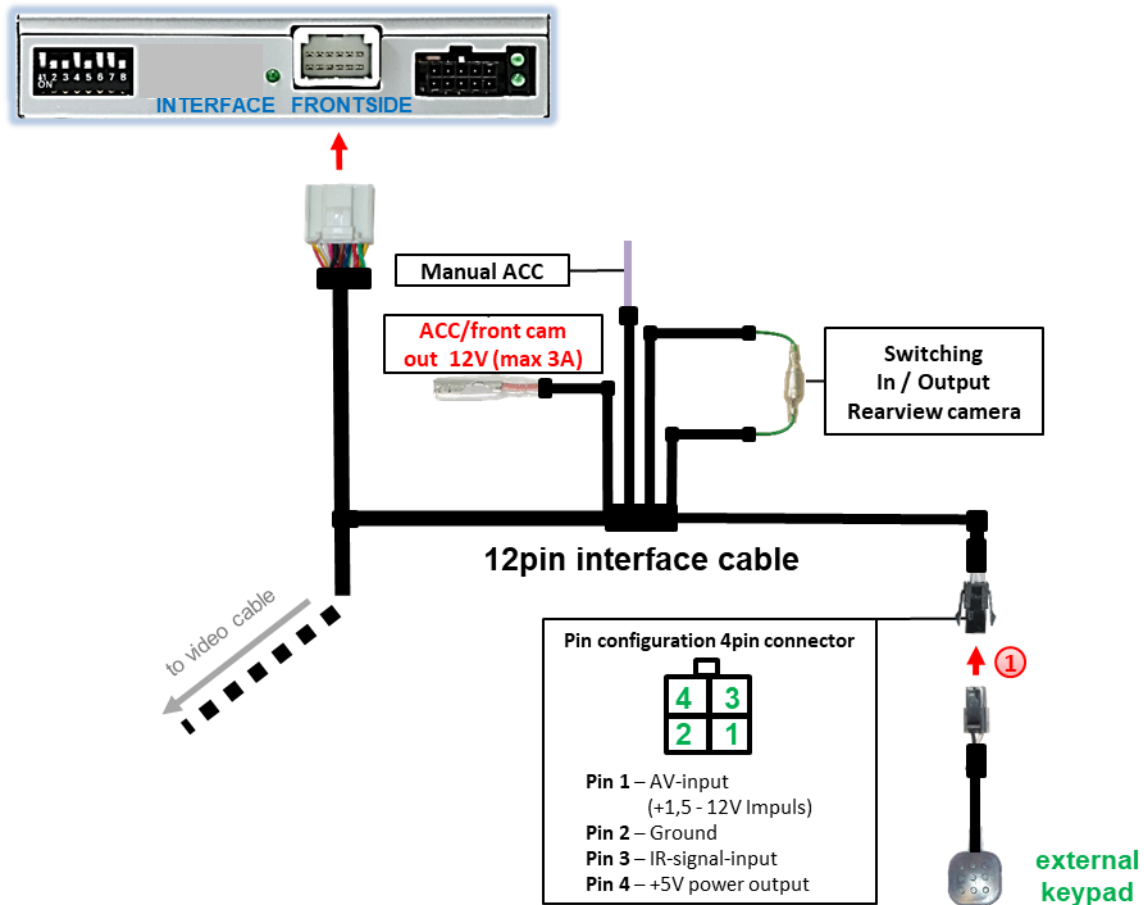


- 1 Disconnect the green cable's pre-connected male- and female connectors of the 12pin cable and connect the green input cable "Reverse-IN" to the output connector (87) of the relay.

Note: Not least to avoid short circuits, the best solution should be, to crimp a male 4mm connector to the relay's output cable and connect it to the green cable's female 4mm connector. The output-cable "Reverse-OUT" remains disconnected as it's out of function.

- 2 Connect the Reverse light's power-cable to coil (85) and the vehicle's ground to coil (86) of the relay.
- 3 Connect the output connector (87) of the relay to the rear-view camera's power-cable, like you did it to the green "Reverse-IN" cable before.
- 4 Connect permanent power / 12V to the relay's input connector (30).

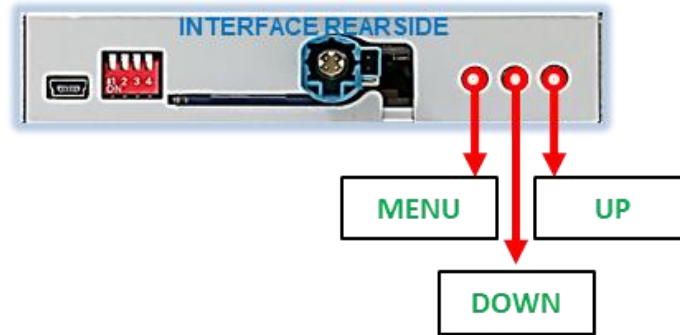
3.4. Connection video-interface and external keypad



- 1 Connect the keypad's female 4pin connector to the 12pin interface cable's male 4pin connector.

Note: Even if the switching through several video sources by the keypad mightn't be required, the keypad's invisible connection and availability is strongly recommended.

3.5. Picture settings

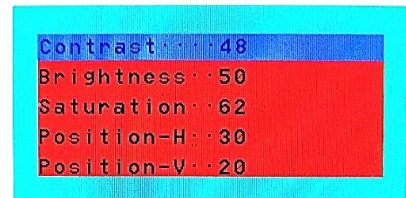


The picture settings are adjusted by the 3 buttons on the video-interface. Press the **MENU** button to open the OSD settings menu. To switch to the next menu item, pressing **UP** and **DOWN** will change the selected value. The buttons are embedded in the housing to avoid accidental changes during or after installation. The picture settings have to be done separately for AV1, AV2 and CAM while the corresponding input is selected and visible on the monitor.

Note: The OSD menu is only shown when a working video source is connected to the selected video-input of the interface.

The following settings are available

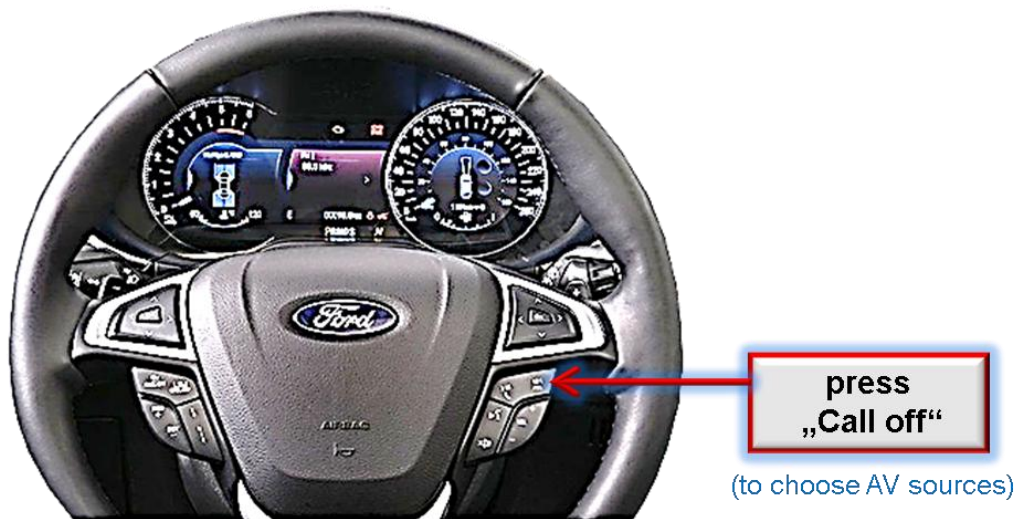
- Contrast
- Brightness
- Saturation
- *Position H (horizontal picture position)
- Position V (vertical picture position)



*If the dip switch setting of **dip8** has been set to **OFF** due to a displayed black image on an exception version of the head unit, the horizontal adjustment of the displayed image is not possible and a narrow stripe may remain on the left side in the display.

4. Interface operation

4.1. By Call-Off button



Switching the video sources can be done by a long press of the vehicle's **Call-Off button**

Each press (approx. 2-3sec) will switch to the next enabled input. If all inputs are enabled the order is:

Factory video → video IN1 → video IN2 → factory video →...

Disabled inputs will be skipped.

Switchover by vehicle buttons isn't possible in all vehicles. In some vehicles the external keypad has to be used.

4.2. By keypad

Alternatively or additionally to the factory infotainment buttons, the interface's external keypad can be used to switch the enabled inputs.

- Long press of keypad (2-3 seconds)

By long pressing the external keypad (2-3 seconds), the video interfaces switches the input from the factory video to the inserted video sources.

Note: The interface switches after releasing the switch (after long pressure).

- Short press of keypad (only if DIP 1 is set to ON)

By short pressing the external keypad, the video interfaces switches from the factory video to the front camera input and back to factory video.

5. Specifications

BATT/ACC range	7V - 25V
Stand-by power drain	7mA
Power consumption	275mA
Video input	0.7V - 1V
Video input formats	NTSC
RGB-video amplitude	0.7V with 75 Ohm impedance
Temperature range	-40°C to +85°C
Dimensions video-box	118 x 25 x 104 mm (W x H x D)

6. FAQ – Trouble shooting Interface functions

For any troubles which may occur, check the following table for a solution before requesting support from your vendor.

Symptom	Reason	Possible solution
No picture/black picture (factory picture).	Not all connectors have been reconnected to factory head-unit or monitor after installation.	Connect missing connectors.
	No power on CAN-bus box (all LED CAN-bus box are off).	Check power supply of CAN-bus box. Check CAN-bus connection of CAN-bus box.
	CAN-bus box connected to CAN-bus in wrong place.	Refer to the manual where to connected to the CAN-bus. If not mentioned, try another place to connect to the CAN-bus.
	No power on video-interface (all LED video-interface are off).	Check whether CAN-bus box delivers +12V ACC on red wire output of 8pin to 6pin cable. If not cut wire and supply ACC +12V directly to video-interface.
No picture/black picture/white picture (inserted picture) but factory picture is OK.	No picture from video source.	Check on other monitor whether video source is OK.
	No video-source connected to the selected interface input.	Check settings dips 1 to 3 of video interface which inputs are activated and switch to corresponding input(s).
	LVDS cables plugged in wrong place.	Double-check whether order of LVDS cables is exactly connected according to manual. Plugging into head-unit does not work when the manual says to plug into monitor and vice versa.
	Wrong monitor settings of video-interface.	Try different combinations of dips 7 and 8 of video-interface. Unplug 6pin power after each change.
Inserted picture totally wrong size or position.	Wrong monitor settings of video-interface.	Try different combinations of dips 7 and 8 of video-interface. Unplug 6pin power after each change.
Inserted picture double or 4 times on monitor.		
Inserted picture distorted, flickering or running vertically.	Video sources output set to AUTO or MULTI which causes a conflict with the interfaces auto detection.	Set video source output fixed to PAL or NTSC. It is best to set all video sources to the same standard.
	If error occurs only after source switching: Connected sources are not set to the same TV standard.	Set all video sources to the same standard.
	Some interfaces can only handle NTSC input.	Check manual whether there is a limitation to NTSC mentioned. If yes, set source fixed to NTSC output.
Inserted picture b/w.	Picture settings have not been adjusted.	Use the 3 buttons and the interface's OSD to adjust the picture settings for the corresponding video input.
Inserted picture qual. bad.		
Inserted picture size slightly wrong.		
Inserted picture position wrong.		
Camera input picture flickers.	Camera is being tested under fluorescent light which shines directly into the camera.	Test camera under natural light outside the garage.
Camera input picture is bluish.	Protection sticker not removed from camera lens.	Remove protection sticker from lens.

Symptom	Reason	Possible solution
Camera input picture black.	Camera power taken directly from reverse gear lamp.	Use relay or electronics to "clean" reverse gear lamp power. Alternatively, if CAN-bus box is compatible with the vehicle, camera power can be taken from green wire of 6pin to 8pin cable.
Camera input picture has distortion.		
Camera input picture settings cannot be adjusted.	Camera input picture settings can only be adjusted in AV2 mode.	Set dip 3 of video-interface to ON (if not input AV2 is not already activated) and connect the camera to AV2. Switch to AV2 and adjust settings. Reconnect camera to camera input and deactivate AV2 if not used for other source.
Graphics of a car in camera input picture.	Function PDC is ON in the interface OSD.	In compatible vehicles, the graphics will display the factory PDC distance. If not working or not wanted, set interface OSD menu item UI-CNTRL to ALLOFF.
Chinese signs in camera input picture	Function RET or ALL is ON (function for Asian market) in the interface OSD.	Set interface OSD menu item UI-CNTRL to ALLOFF or PDCON.
Not possible to switch video sources by OEM button.	CAN-bus interface does not support this function for vehicle.	Use external keypad or cut white wire of 6pin to 8pin cable and apply +12V impulses for AV-switching.
Not possible to switch video sources by external keypad.	Pressed too short.	For video source switching a longer press of about 2.5 seconds is required.
	SW-version of interface does not support external keypad.	Use OEM-button or cut white wire of 6pin to 8pin cable and apply +12V impulses for AV-switching.
Interface does not switch to camera input when reverse gear is engaged.	CAN-bus interface does not support this function for the vehicles.	Cut the green wire of the 6pin to 8pin cable and apply +12V constant from reverse gear-lamp signal. Use relay to "clean" R-gear lamp power.
Interface switches video-sources by itself.	CAN-bus interface compatibility to vehicle is limited.	Cut the grey wire of 6pin to 8pin and isolate both ends. If problem still occurs, additionally cut the white wire of 6pin to 8pin cable and isolate both ends.

7. Technical Support

Please note that direct technical support is only available for products purchased directly from NavLinkz GmbH. For products bought from other sources, contact your vendor for technical support.

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