

Video inserter CI-RL4-LR16-8 CI-RL4-LR16-10

Compatible with
Jaguar and Landrover vehicles
with Incontrol Touch system and 8inch monitor
or Incontrol Touch Pro system and 10.2inch Monitor



Video-inserter for front- and rear-view camera
and two more video inputs

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 Video sources (e.g. DVD-Player, DVB-T 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)
- 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

Read the manual prior to installation. Technical knowledge is necessary for installation. The video interface's place of installation must be free of moisture and away from heat sources.

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

1.1. Delivery contents



The image shows the delivery contents of the video interface, including the interface unit and various cables. The interface unit is a light blue rectangular box with a 'VideoCar Interface' label. There are two main cable bundles: one for RL4-LR16-10 and 10inch monitor, and another for RL4-LR16-8 and 8inch monitor. The cables include various connectors and a power cable.

Only for RL4-LR16-10 and 10inch monitor

Only for RL4-LR16-8 and 8inch monitor

Take down the serial number of the interface and store this manual for support purposes: _____

1.2. Checking the compatibility of vehicle and accessories

Requirements

Brand	Compatible vehicles for RL4-LR16-8	Compatible systems
Jaguar	F-Pace model years since 2016 F-Type model years since 2016 XE model years since 2016 XF model years since 2016 XJ model years since 2016	Incontrol Touch - 8 inch monitor Not compatible with Dual-View monitor!
Land Rover	Discovery4 model years since 2014 Discovery Sport model years since 2015 Range Rover Evoque model years since 2014 Range Rover Sport model years 2014-2016 Range Rover model years 2014-2016 Freelander2 model years since 2014	Incontrol Touch Pro - 10.2 inch 24:9 monitor Not compatible with Dual-View monitor!

Brand	Compatible vehicles for RL4-LR16-10	Compatible systems
Jaguar	F-Pace model years since 2016 F-Type model years since 2016 XE model years since 2016 XF model years since 2016 XJ model years since 2016	Incontrol Touch Pro - 10.2 inch 24:9 monitor Not compatible with Dual-View monitor!
Land Rover	Discovery 5 model years since 2017 Discovery Sport model years since 2017 Range Rover model years since 2017 Range Rover Sport model years 2017 Range Rover Evoque model years 2017-2019	Incontrol Touch Pro - 10.2 inch 24:9 monitor Not compatible with Dual-View monitor!

Limitations

Video only

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. If 2 audio sources shall be connected to the infotainment, an additional electronic is necessary to switch them.

Factory rear-view camera

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.

After market front camera

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.

PDC and guide lines

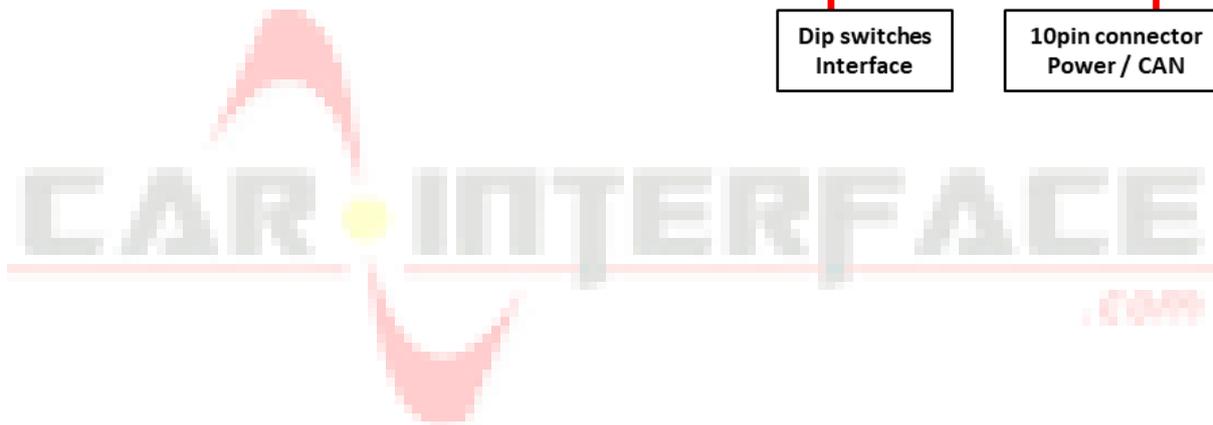
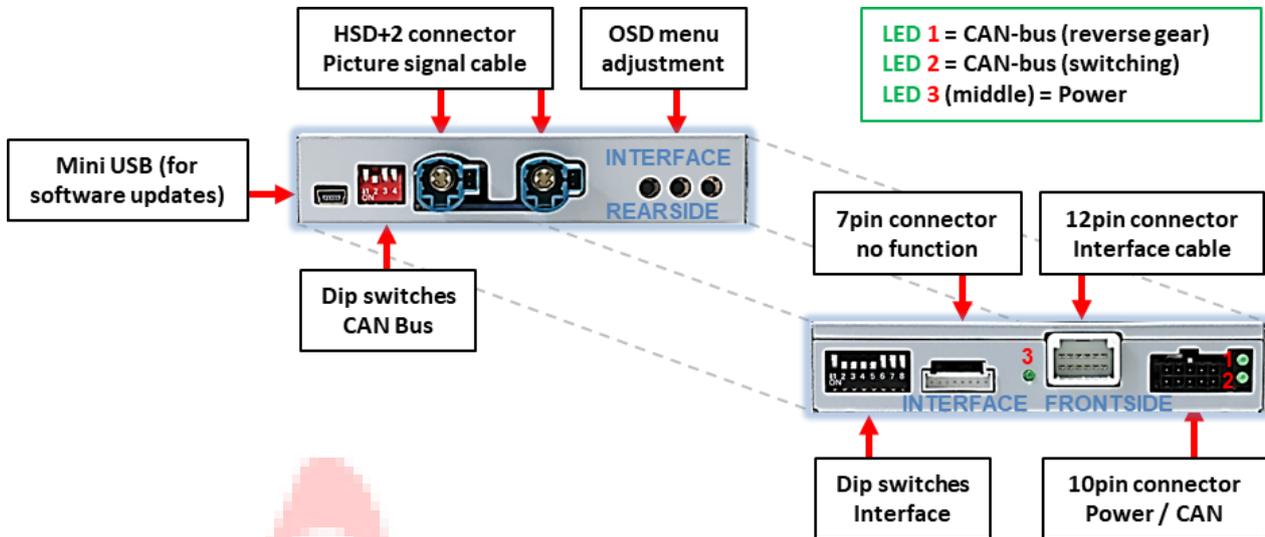
Displayed guide lines and PDC are not available in all vehicles.

Video input signal

NTSC video sources compatible only.

1.3. Boxes and 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. Settings of the 8 Dip switches (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
	RL4-LR16-8: Power supply front camera (red wire)	+12V (max. 3A) when reverse gear is engaged incl. 10 seconds delay and +12V by manual switching to front camera by keypad	No function
	RL4-LR16-10: Power supply front camera (orange wire)	+12V (max. 3A) when reverse gear is engaged incl. 10 seconds delay and +12V by manual switching to front camera by keypad	No function
2	Video 1-input	enabled	disabled
3	Video 2-input	enabled	disabled
4	No function		set to OFF
5	Rear-view cam type	after-market	factory or none
6	Guide lines	enabled	disabled
7	PDC	enabled	disabled
8	Monitor size	8inch	10.2inch

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

*The front camera will automatically be switched for 10 seconds after disengaging the reverse gear (according to the menu adjustments).

See the following chapters for detailed information.

1.4.1. Activating the front camera (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 (only for RL4-LR16-10)”.

1.4.2. Enabling the interface’s video inputs (dip 2-3)

Only the enabled video inputs can be accessed by switching through the interface’s video sources. It is recommended to enable only the required inputs. So the disabled inputs will be skipped while switching through the video interfaces inputs.

1.4.3. Rear-view camera setting (dip5)

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

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

1.4.4. Activating the guide lines (dip6)

If there is no communication between interface and the vehicle’s CAN-bus (several vehicles aren’t compatible), the reverse gear guide-lines can’t be shown during the vehicle’s operation, even if they once appear after having switched the system to powerless

1.4.5. Activating the PDC (dip7)

If set to ON, the PDC car will be displayed on the screen and the park distance will be shown by using the signals of the vehicle’s CAN-bus. If there is no communication between the interface and the vehicle’s CAN-bus (several vehicles aren’t compatible), the park distance can’t be shown. In this case, set dip7 to OFF.

1.4.6. Monitor selection (dip8)

Dip8 changes the monitor-specific video settings.

Using a 8inch monitor, the dip switch position is ON.

Using the 10,2inch monitor, the dip switch setting is OFF.

Size of monitor	Dip 8
8inch – INCONTROL TOUCH	ON
10.2inch – INCONTROL TOUCH PRO	OFF

Note: Dip 4 is out of function and has to be set to **OFF!**

1.5. Settings of the 4 Dip switches (CAN functions – red)



Dip position down is ON and position up is OFF.

Fahrzeug/Navigation	Dip 1	Dip 2	Dip 3	Dip 4
Jaguar XF, Land Rover Discovery Sport	OFF	ON	OFF	OFF
Jaguar XE 2016	OFF	OFF	OFF	OFF
Jaguar XE 2018	ON	OFF	OFF	OFF
Land Rover Discovery 5, Ranger Rover Evoque, Range Rover Sport	ON	OFF	OFF	OFF



The experience values of the CAN bus dip settings are only exemplary. If the Can communication doesn't succeed, try other dip combinations

After each Dip-switch-change a power-reset of the Can-box 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!

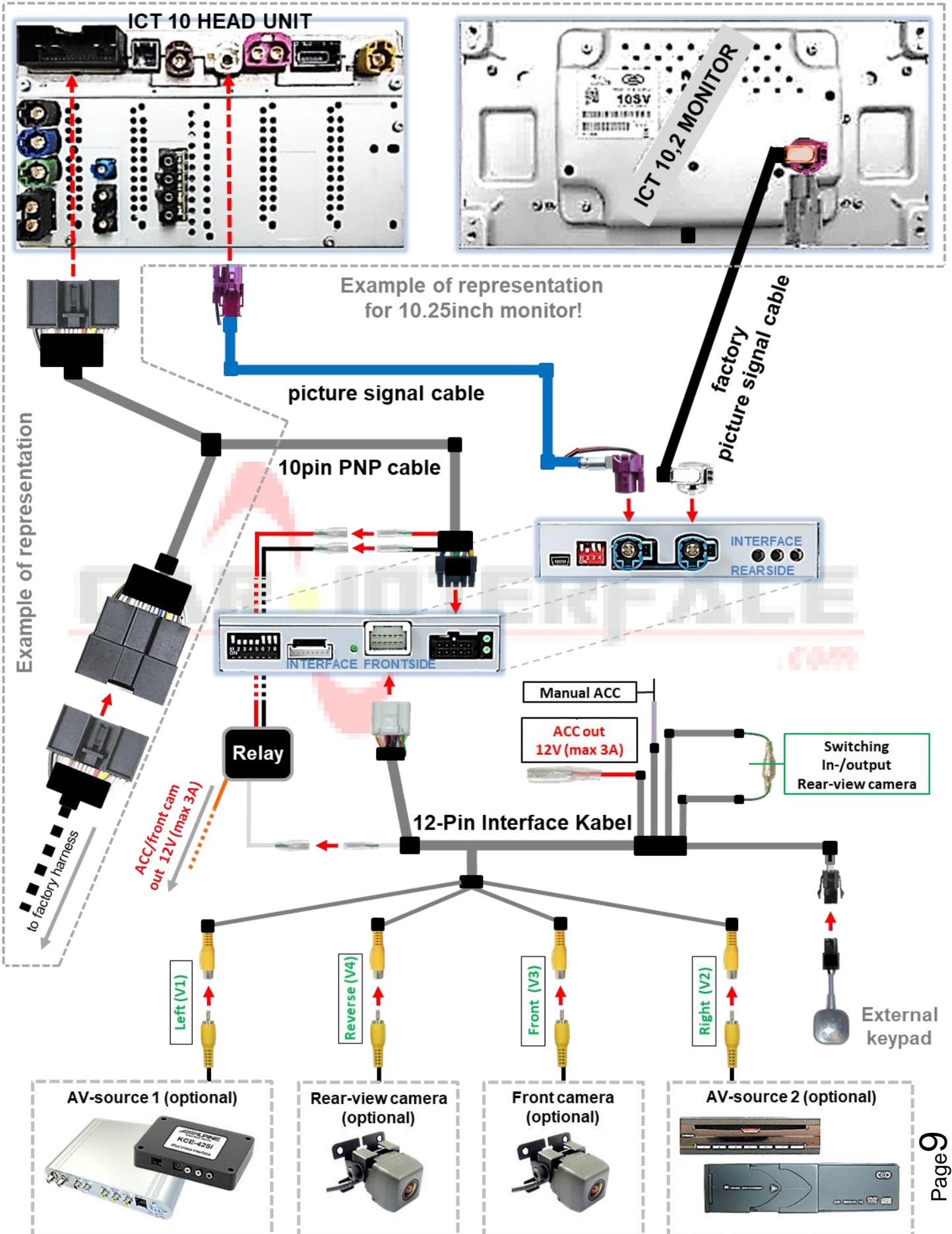
Before a final installation, we recommend a test-run to ensure the compatibility of the vehicle and the interface. Due to changes in the production of the vehicle manufacturer there's always a possibility of incompatibility.

2.1. Place of installation

The interface is supposed to be installed at a suitable location behind the vehicle's head-unit. Depending on the vehicle, the head unit may be located at the following places:

- Behind the trim panel in the boot on the left (e.g. F-Pace 10.2 inch - not 8 inch)
- Under the rear centre console
- Under the driver seat (e.g. in the Range Rover Sport - installed low down)
- Under the passenger seat

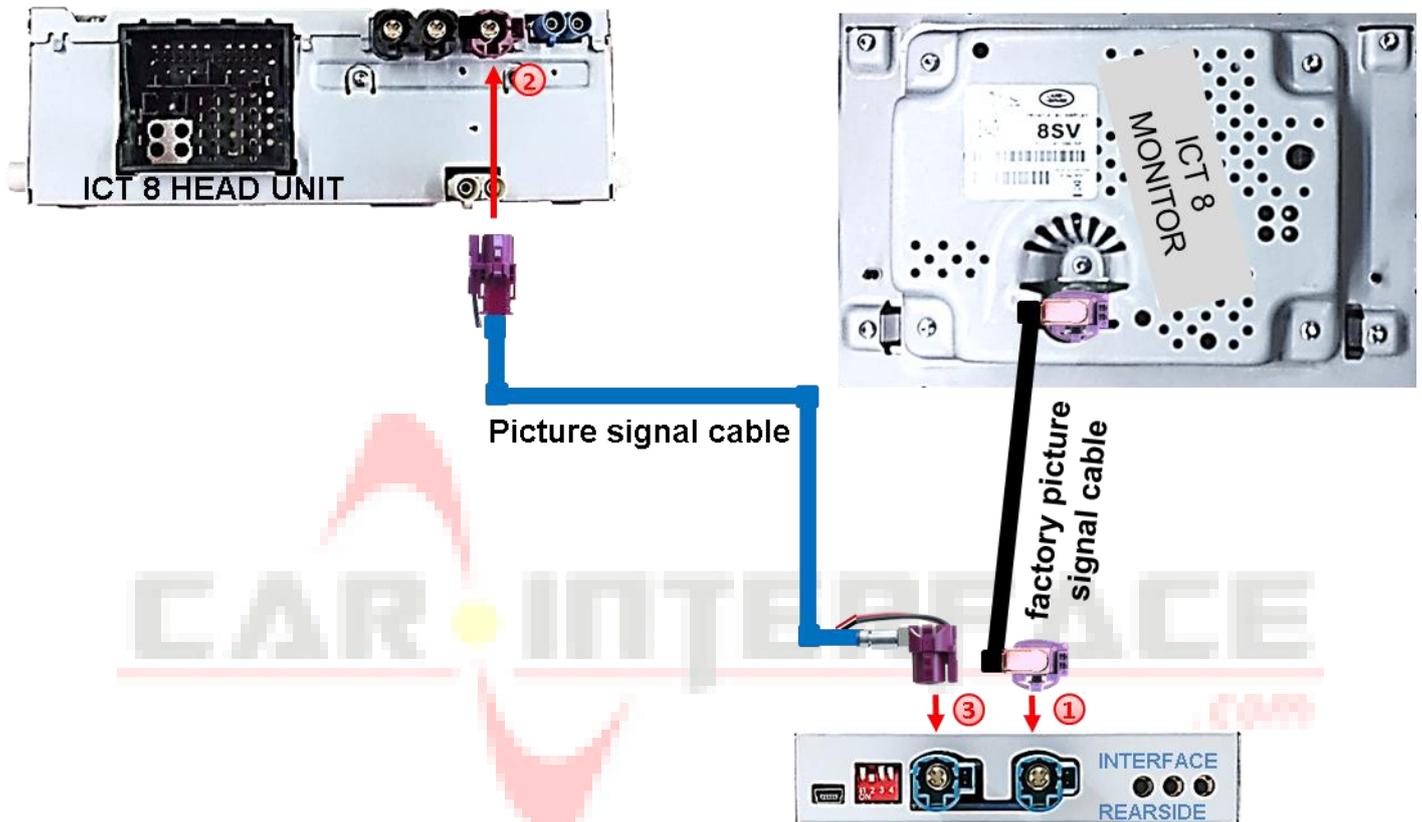
2.2. Connection schema



2.3. Connections to factory head-unit and monitor

2.3.1. Connection - picture signal cable

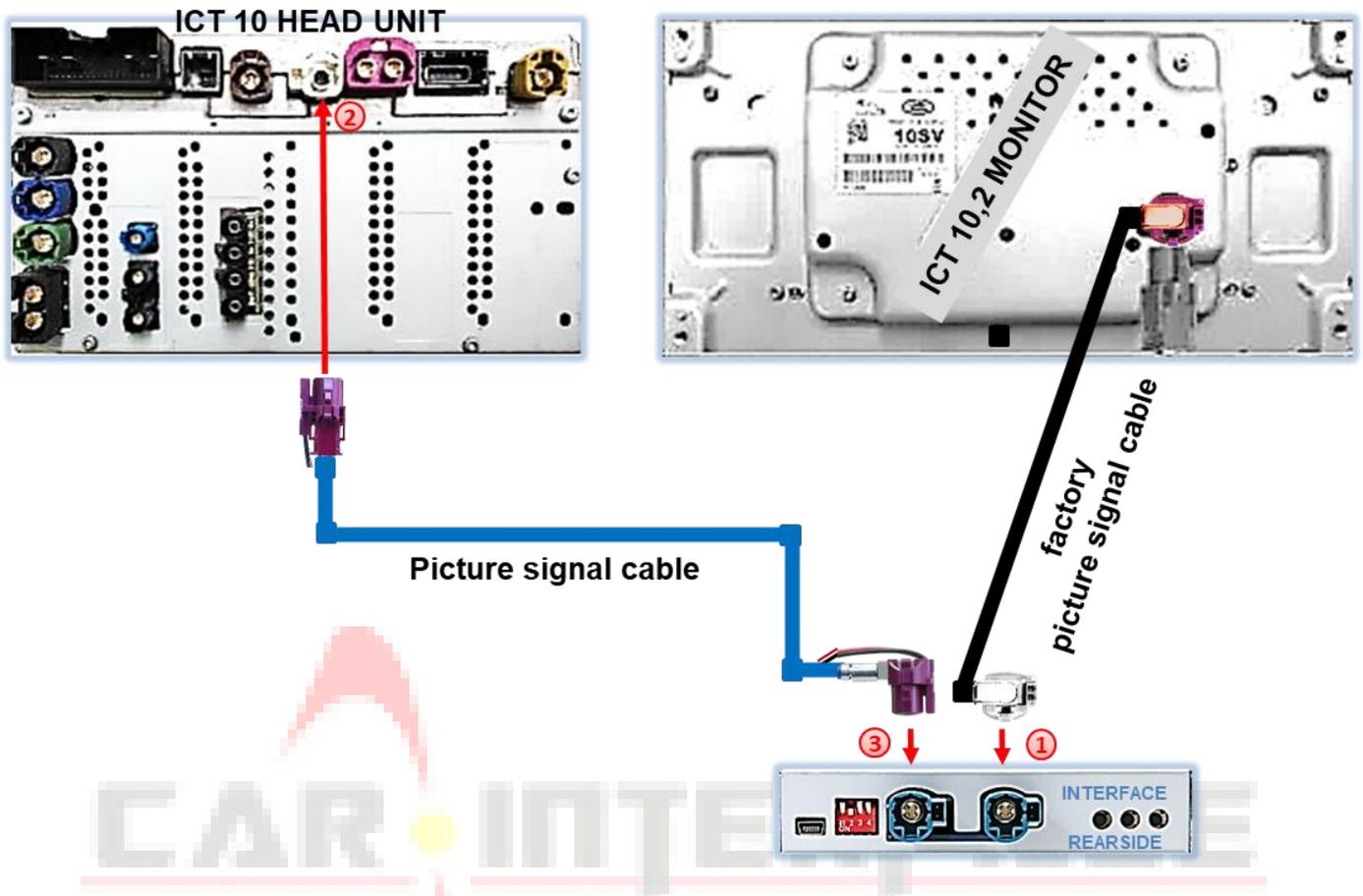
2.3.1.1. INCONTROL TOUCH head unit and 8inch monitor (RL4-LR16-8)



- 1 Disconnect the factory picture signal cable's purple coloured female HSD+2 connector from the rear-side of the head unit and connect it to the waterblue coloured HSD+2 connector „TO LCD“ of the video interface .
- 2 Connect the not angled aubergine coloured female HSD+2 connector of the enclosed picture signal cable to the previously become free purple coloured male HSD+2 connector of the video interface.
- 3 Connect the female aubergine coloured HSD+2 connector opposite the picture signal cable to the waterblue coloured male HSD+2 connector „HU IN“ of the video interface.

Note: The colours of the HSD+2 connectors at monitor and head unit may vary.

2.3.1.2. INCONTROL TOUCH PRO head unit and 10,2inch monitor (RL4-LR16-10)



- 1 Disconnect the factory picture signal cable's purple coloured female HSD+2 connector from the rear-side of the head unit and connect it to the waterblue coloured HSD+2 connector „TO LCD“ of the video interface .
- 2 Connect the not angled aubergine coloured female HSD+2 connector of the enclosed picture signal cable to the previously become free white coloured male HSD+2 connector of the head unit.
- 3 Connect the angled female aubergine coloured HSD+2 connector opposite the picture signal cable to the waterblue coloured male HSD+2 connector „HU IN“ of the video interface.

Notes:

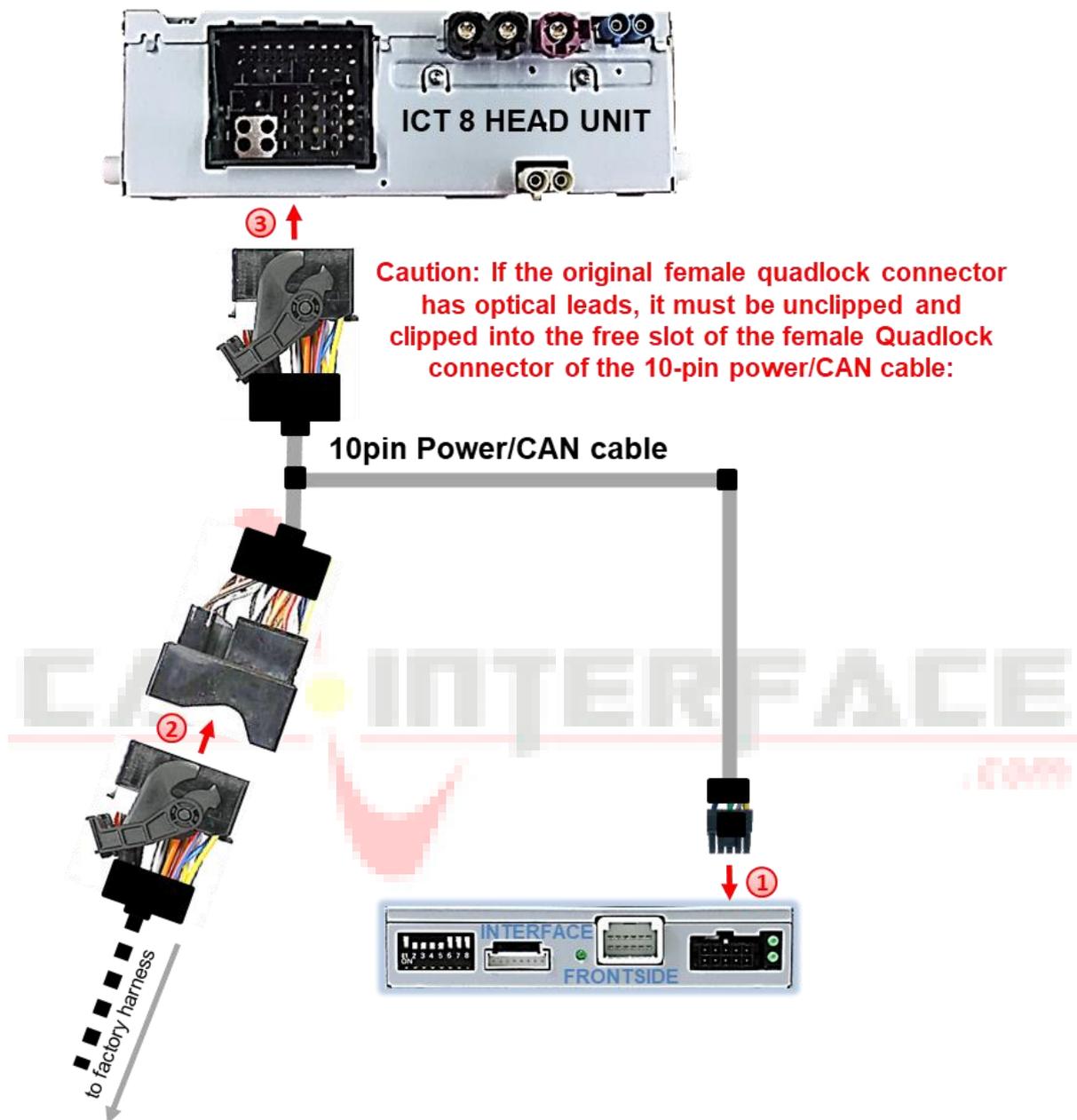
The colours of the HSD+2 connectors at monitor and head unit may vary.



If the connection of the female HSD+2 connector of the factory picture signal cable which is coming from the monitor does not fit on the interface, the coding lugs have to be cut off for the connection!

2.3.2. Connection - Quadlock-CAN

2.3.2.1. INCONTROL TOUCH head unit (8 inch monitor – RL4-LR16-8)

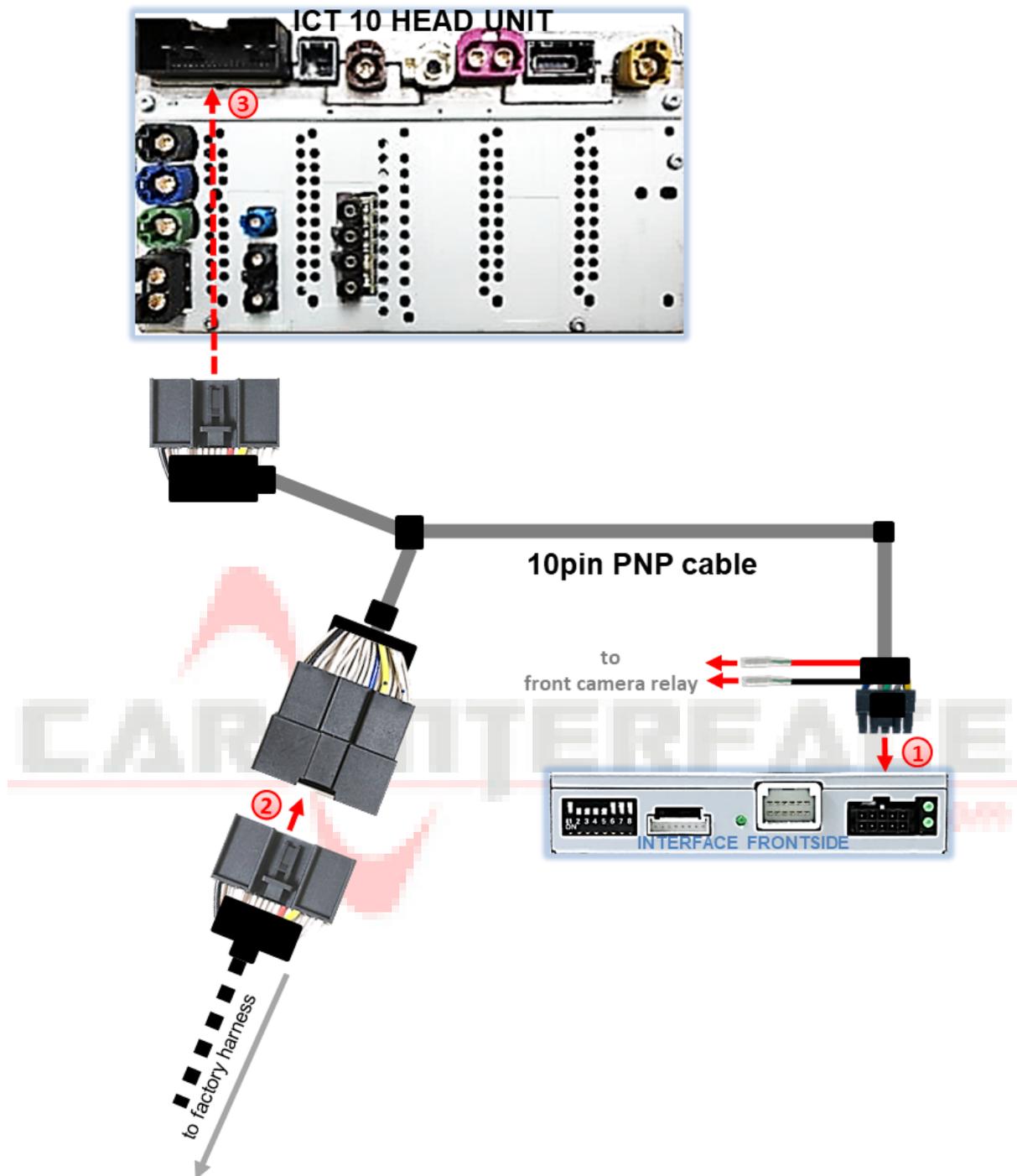


- 1 Connect the female 10pin connector of the 10pin Power / CAN cable to the 10pin connector of the video interface.
- 2 Remove the female Quadlock connector of the vehicle harness from the rear-side of the head-unit and connect it to the male Quadlock connector of the 10pin Power / CAN cable.
- 3 Connect the opposite female Quadlock connector of the 10pin Power / CAN cable to the previously become free male Quadlock connector at the rear-side of the head unit.



Note: If, after connecting the PNP harness, no interface LED lightens up while the ignition is turned on, refer to chapter “Analogue power supply for the video interface”

2.3.2.2. INCONTROL TOUCH PRO head unit (10,2 inch monitor – RL4-LR16-10)

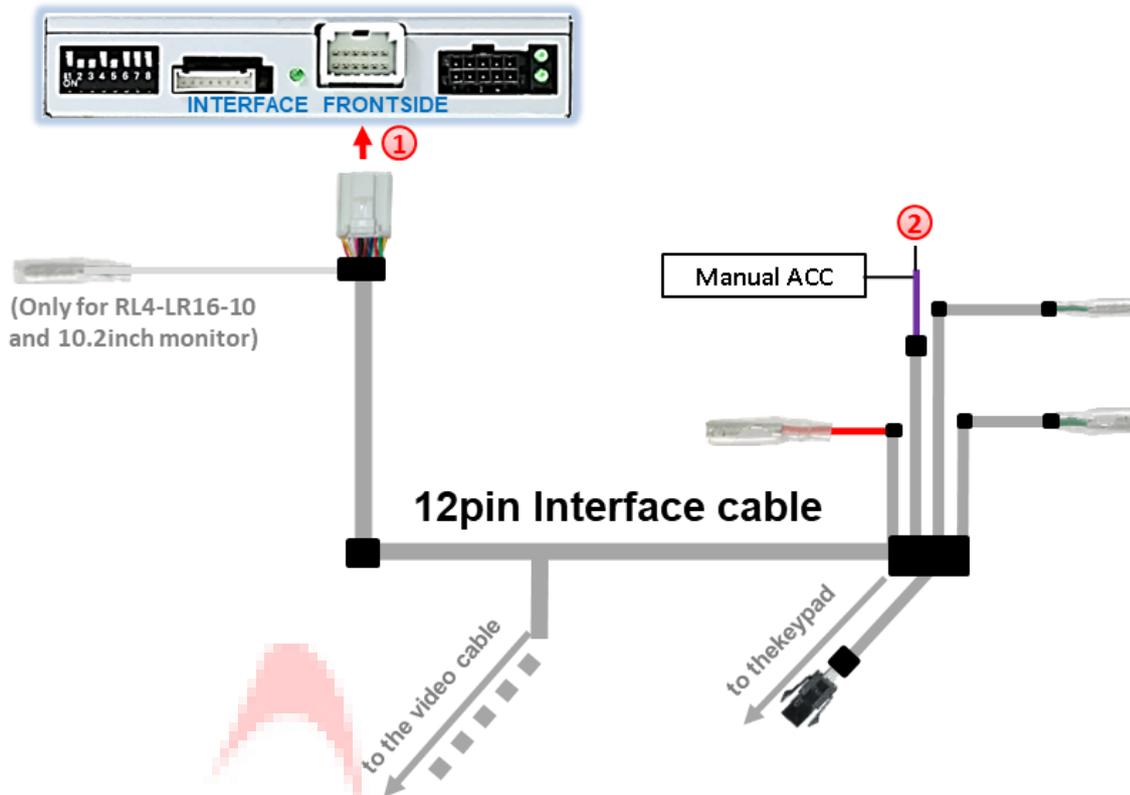


- 1 Connect the female 10pin connector of the 10pin Power / CAN cable to the 10pin connector of the video interface.
- 2 Remove the female 24pin connector of the vehicle harness from the rear-side of the head-unit and connect it to the male 24pin connector of the Power / CAN cable.
- 3 Connect the opposite female 24pin connector of the Power / CAN cable to the previously become free male 24pin connector at the rear-side of the head unit.



Note: If, after connecting the PNP harness, no interface LED lightens up while the ignition is turned on, refer to chapter “Analog power supply for the video interface”

2.4. Analogue power supply for the video interface (without CAN-bus)



1 Connect the female 12pin connector of the 12pin interface cable to the male 12pin connector of the video interface.

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

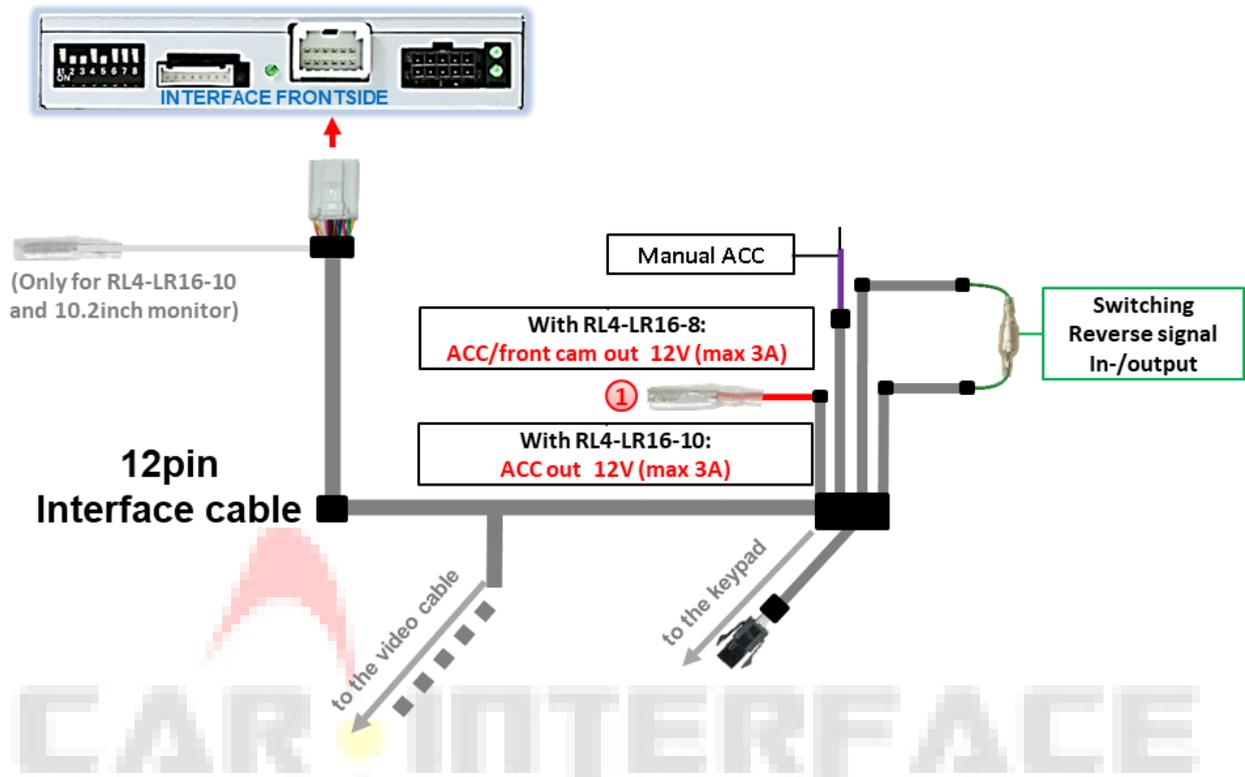


Note: Only as long as the video interface is switched on via +12V and Manual ACC, the screen is also switched on. Otherwise, the factory picture is black. When selecting the switch signal, please check whether the factory picture is available in all desired operating states.

With analogue connection of the video interface (without CAN bus), the connection of the rear-view camera has also to be done manually (see point: "Case 2: Interface does not receive a reverse gear signal").

2.5. Power supply output (only for RL4-LR16-10)

Depending on the interface or infotainment version (RL4-LR16-8 for Incontrol Touch with 8inch monitor or RL4-LR16-10 for Incontrol Touch Pro with 10.2inch monitor) the function of the power supply output (red wire) differs!



1 On the **RL4-LR16-10**, the red power supply output **ACC out 12V (max 3A)** can be used to power up an external source (independent of Dip-1 switch setting).

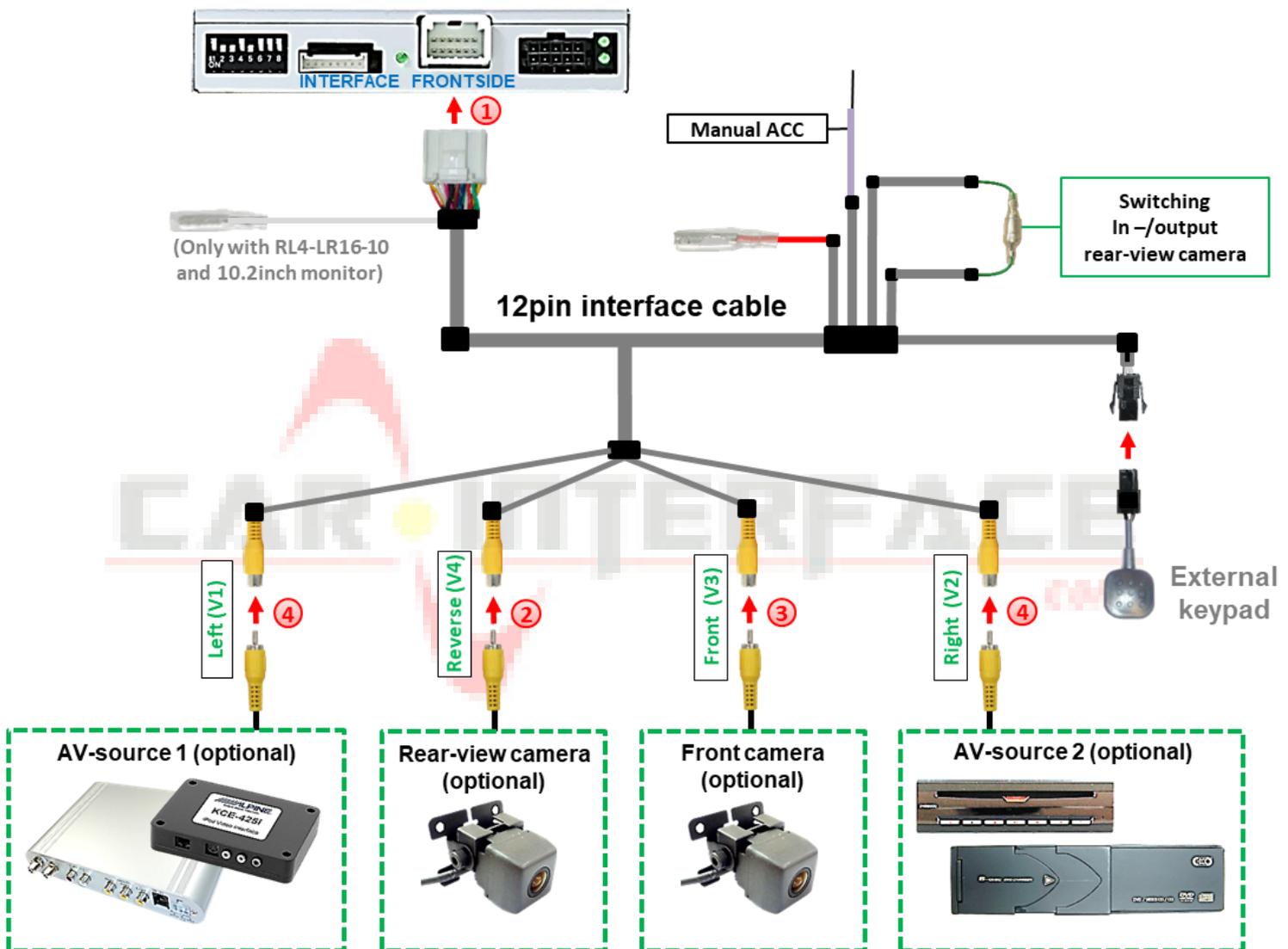
On the **RL4-LR16-8**, the red power supply output can only be used to power an after-market front camera for 10 seconds after the reverse gear has been disengaged.

Interface	Dip	Function
RL4-LR16-8 Incontrol Touch 8inch Monitor	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	No function!
Variant	Dip	Function
RL4-LR16-10 Incontrol Touch Pro 10.2inch Monitor	Dip 1 ON	+12V (max. 3A) simulated ACC
	Dip 1 OFF	+12V (max. 3A) simulated ACC

2.6. Connecting video sources

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

Before a final installation of the video sources, we recommend a test-run to ensure the compatibility 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)”.

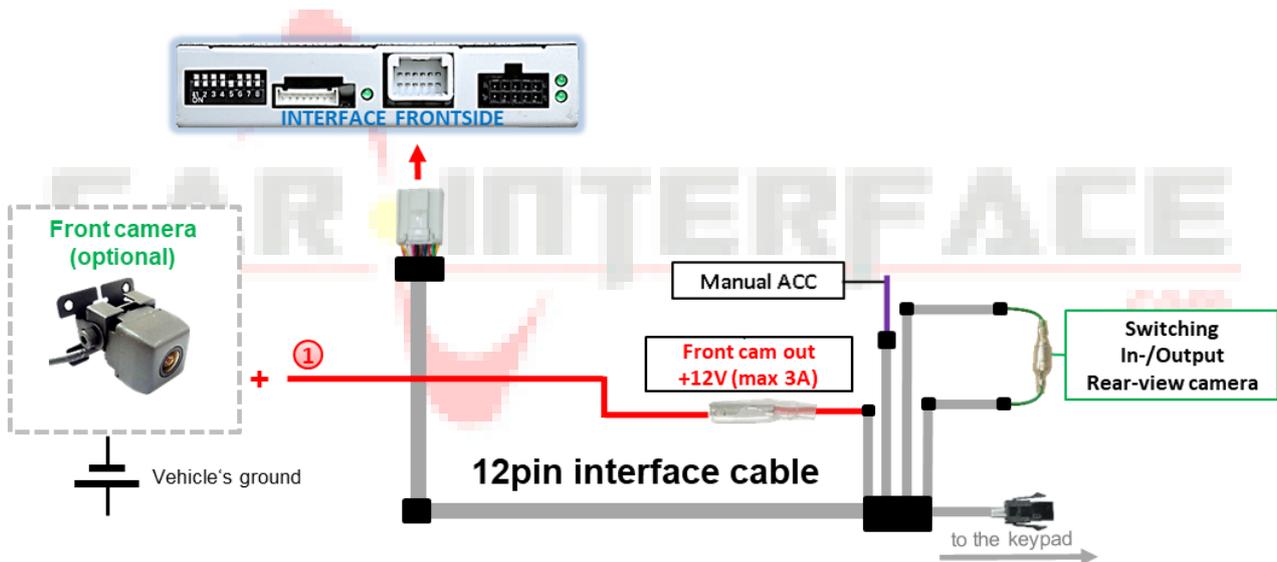
2.6.1. Audio-insertion

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.

2.6.2. After-market front camera

The connection of an after-market front camera depends on the factory infotainment system. In contrast to the Incontrol Touch infotainment with 8inch monitor, the enclosed cable set for the connection of the Incontrol Touch Pro infotainment with 10.2 inch monitor is equipped with an external relay.

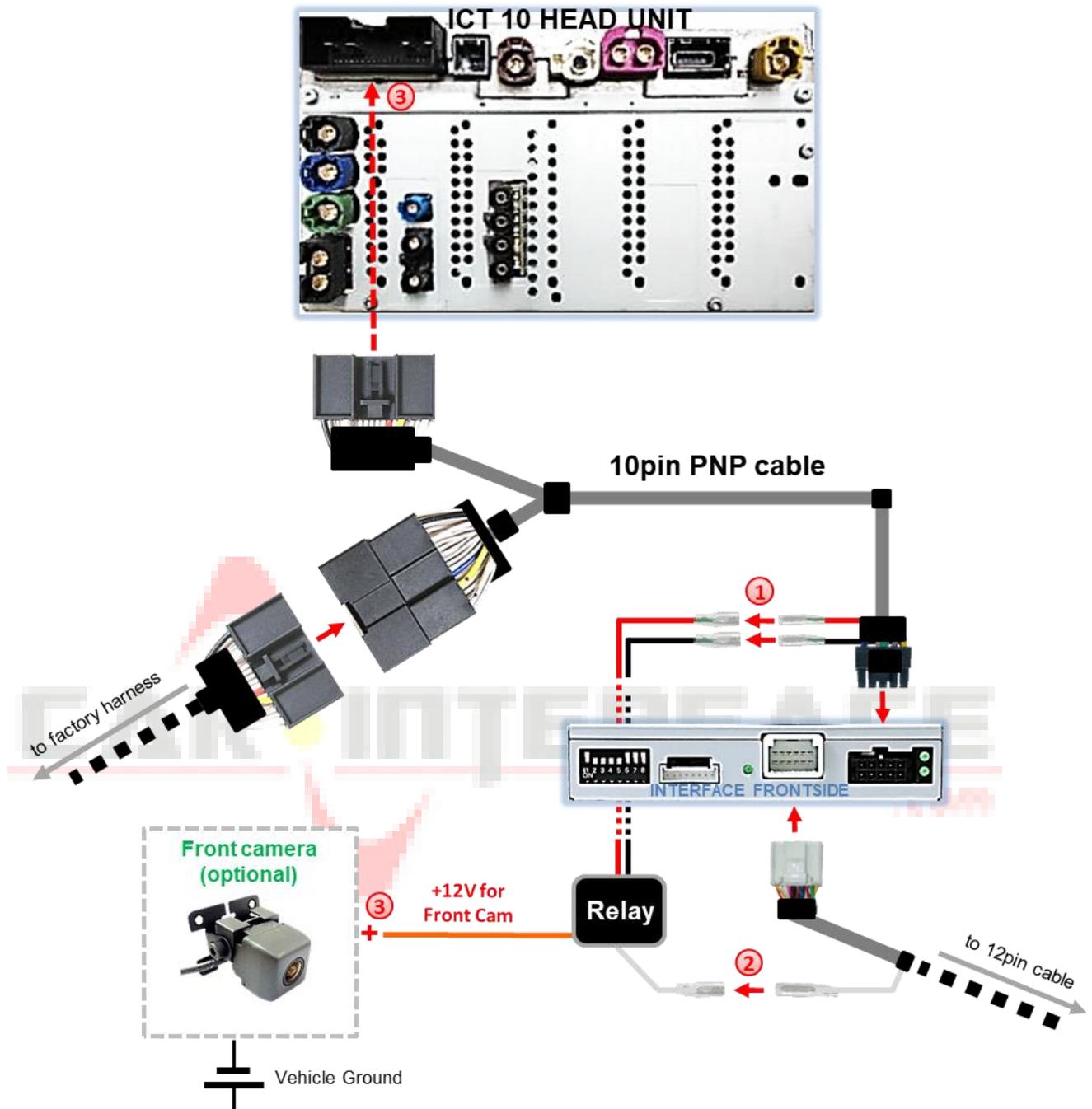
2.6.2.1. Connection - RL4-LR16-8 - Incontrol Touch with 8inch monitor



- 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 (of the black 8 dips), the power supply output supplies +12V (max 3A) when the reverse gear is engaged and additionally 10 seconds delay after the 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 supplies +12V then, too (if Dip 1 is set to ON and the front camera input is selected).

2.6.2.2. Connection - RL4-LR16-10 - Incontrol Touch Pro with 10.2inch monitor



- ① Die Stecker der einzelnen roten und schwarzen Leitung des 10-Pin PNP Kabels an den Buchsen der einzelnen roten und schwarzen Leitung des Relais anschließen.
- ② Den Stecker der einzelnen weißen Leitung des 12-Pin Kabels an der Buchse der einzelnen weißen Leitung des Relais anschließen.
- ③ Die orange farbene Leitung des Relais-Schaltausganges „+12V for Front Cam“ an der After-Market Frontkamera anschließen.

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 supplies +12V then, too (if Dip 1 is set to ON and the front camera input is selected).

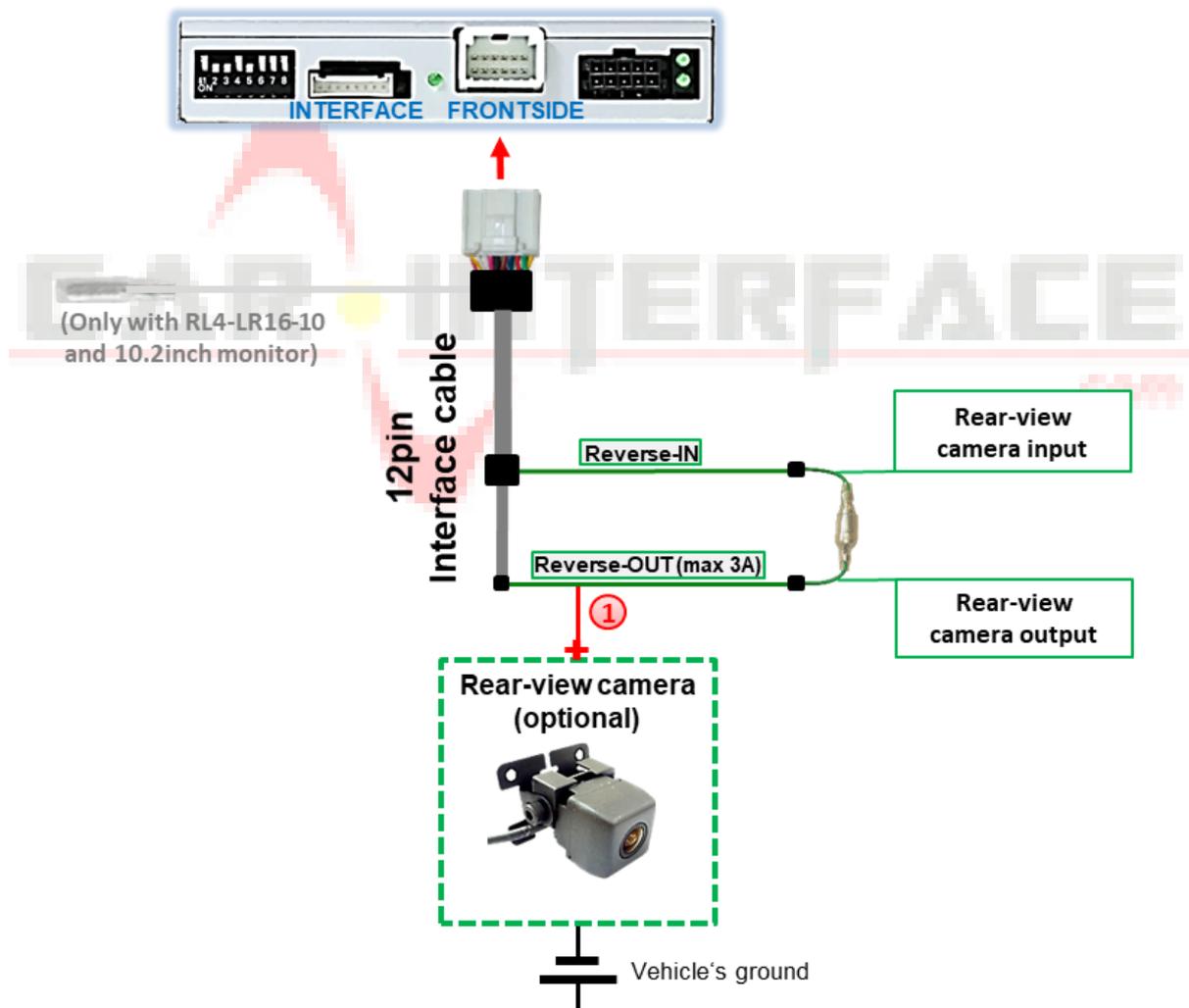
2.6.3. After-market rear-view camera

Some vehicles have a different reverse gear code on the CAN-bus which the video-interface is not compatible with. Therefore, there are two different ways of installation. If the video interface receives a signal of the reverse gear, the green wire “Reverse-OUT” of the 20pin cable should carry +12V while the reverse gear is engaged.

Note: Do not forget to set video interface’s dip5 to ON before testing.

2.6.3.1. Case 1: Interface receives the reverse gear signal

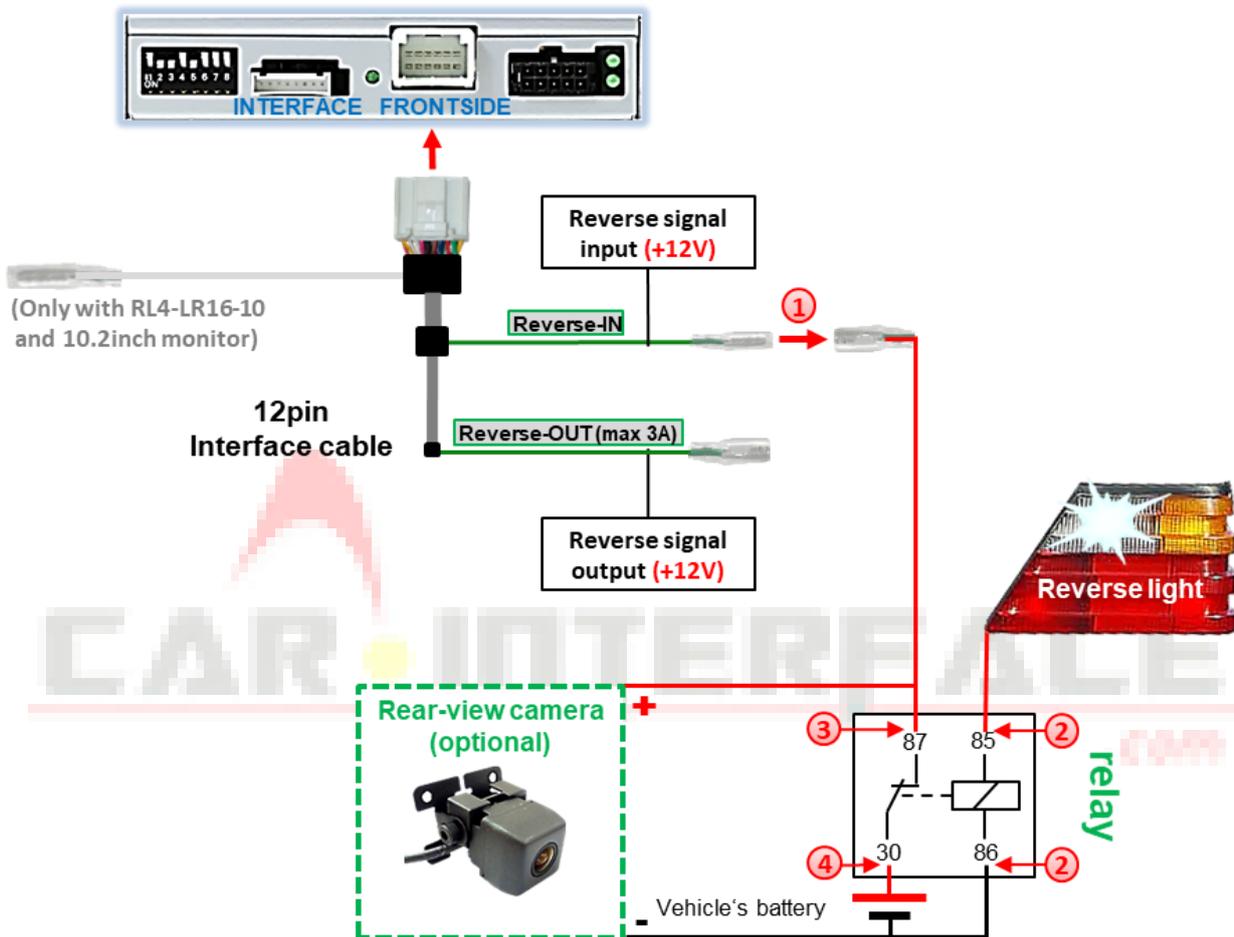
If the interface delivers +12V on the green output wire of the 12pin interface cable while reverse gear is engaged, the video interface will automatically switch to the rear-view camera input “Camera IN” while the reverse gear is engaged.



- ① Additionally, the +12V (max. 3A) power supply for the rear-view camera can be taken from the green wire of the 12pin interface cable.

2.6.3.2. Case 2: CAN-box does not receive the reverse gear signal

If the video interface does not deliver +12V on the green wire of the 12pin 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.

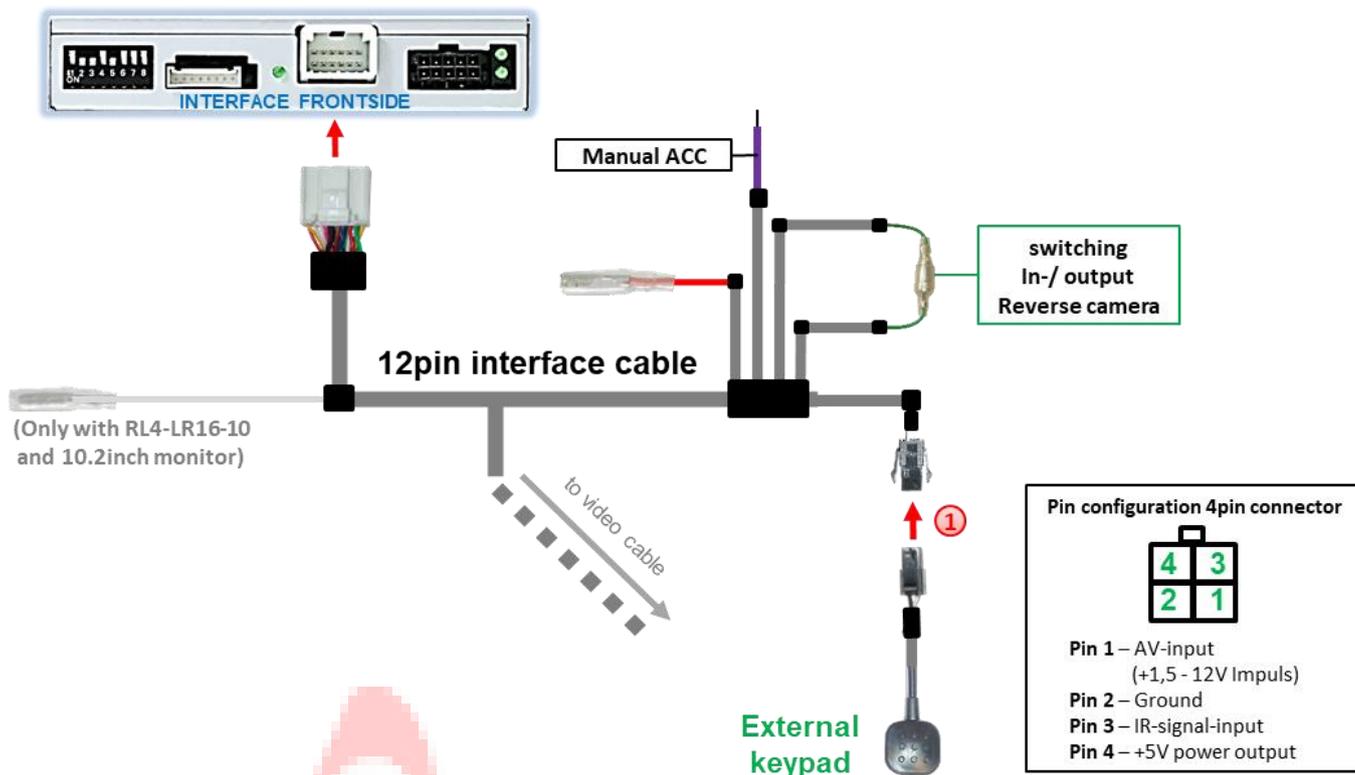


- 1 Disconnect the green cable's preconnected male- and female connectors of the 12pin interface cable and connect the green input cable "Reverse-IN" to the output connector (87) of the relay.

Note: Last but not lot 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 stabile and permanent +12V to the relay's input connector (30).

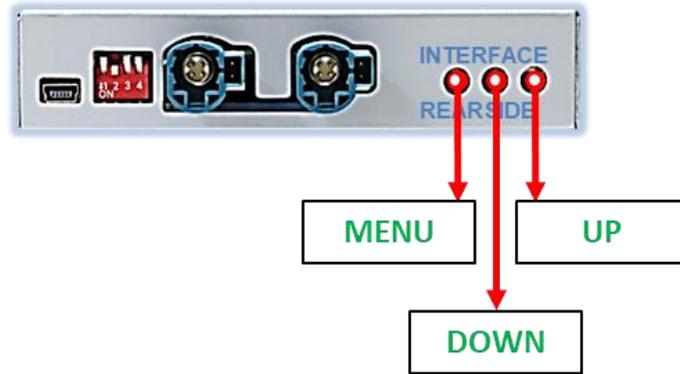
2.7. Connecting video-interface and keypad



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

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

2.8. Picture settings



The picture settings are adjustable by the 3 push-buttons at the rear-side of the video-interface. Press the MENU button to open the OSD settings menu or to switch to the next menu item. Press UP and DOWN to change the selected value. The buttons are placed inside in the housing to avoid accidental changes during or after the installation. Picture settings must 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)
- IR-AV1/2 (no function)
- Guide L/R (no function)
- UI-CNTRL (no function) - via Dip6 the guide lines were activated
- H-SIZE = horizontal picture size
- V-SIZE = vertical picture size

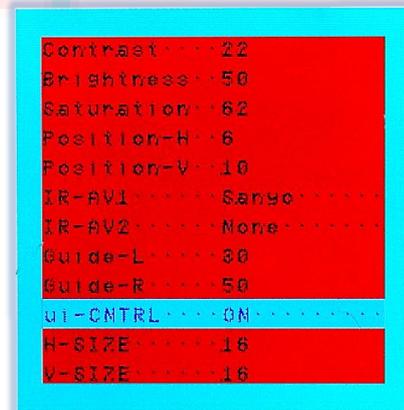


Illustration exemplary

Note: To adjust the reverse picture, engage the reverse gear.

3. Interface operation

3.1. By factory infotainment button

switching video sources



To switch the interface's activated video sources, the factory infotainment buttons can be used.

Press the according infotainment button to switch the input from the factory video to the inserted video sources. If all inputs are activated by dip switch settings, the order is the following:

Factory video → Video IN 1 → Video IN 2 → factory video

Each press will switch to the next enabled input. Inputs which are not enabled will be skipped.

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

3.2. By keypad

Alternatively or additionally to the factory infotainment buttons, the interface's external keypad can be used to switch the enabled inputs. Even if not needed, the keypad should always remain connected to the video interface for support purposes.

➤ 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. Each long press will switch to the next enabled input. Inputs which are not enabled will be skipped.

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.

4. Specifications

BATT/ACC range	7V - 25V
Stand-by power drain	11mA
Power	230mA @12V
Video input	0.7V - 1V
Video input formats	NTSC
Temperature range	-40°C to +85°C
Dimensions video-box	117 x 26 x 103 mm (W x H x D)

5. 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.
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 qual. bad.	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 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.



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