

## **r.LiNK Video inserter**

### **RL4-MBN6**

**Compatible with Mercedes Benz vehicles with MBUX/NTG6 with 7inch or 10.25inch monitor and double Fakra connector at the head unit**



example

**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 for 7inch monitors (not available for all vehicles)
- Video-in-motion (ONLY for connected video-sources)
- Video-inputs NTSC and PAL compatible

## Contents

### 1. Prior to installation

- 1.1. Delivery contents
- 1.2. Checking the compatibility of vehicle and accessories
- 1.3. Boxes and connectors – video interface
- 1.4. Settings of the 8 Dip switches (black)
  - 1.4.1. Adjustment – power supply output (dip 1)
  - 1.4.2. Enabling the interface's video inputs (dip 2-3)
  - 1.4.3. Rear-view camera settings (dip 5)
  - 1.4.4. Activating – front camera back-switching (dip6)
  - 1.4.5. Activating the guide lines (dip 7)
  - 1.4.6. Monitor selection (Dip 8)
- 1.5. Settings - 6 Dip switches (Top of box–black)
- 1.6. Settings of the 4 Dip switches (CAN function – red)

### 2. Installation

- 2.1. Place of installation
- 2.2. Installation locations of the factory Head Unit
- 2.3. Removing the MBUX head-unit in the Sprinter (W907)
- 2.4. Connection schema
- 2.5. Anschluss
  - 2.5.1. Picture signal cable - Head unit type 1
  - 2.5.2. Picture signal cable - Head unit type 2
  - 2.5.3. 10pin Power/CAN cable
    - 2.5.3.1. Place of connection
  - 2.5.4. Analog power supply for the video interface
  - 2.5.5. Power supply output
- 2.6. Connection - video-sources
  - 2.6.1. Audio insertion
  - 2.6.2. After-market front camera
  - 2.6.3. After-market rear-view camera
    - 2.6.3.1. Case 1: Interface receives the reverse gear signal
    - 2.6.3.2. Case 2: Interface does not receive the reverse gear signal
- 2.7. Connection - video-interface and external keypad
- 2.8. Picture settings and guide lines

### 3. Interface operation

### 4. Specifications

### 5. FAQ – Trouble Shooting-Interface functions

### 6. Technical support

## 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



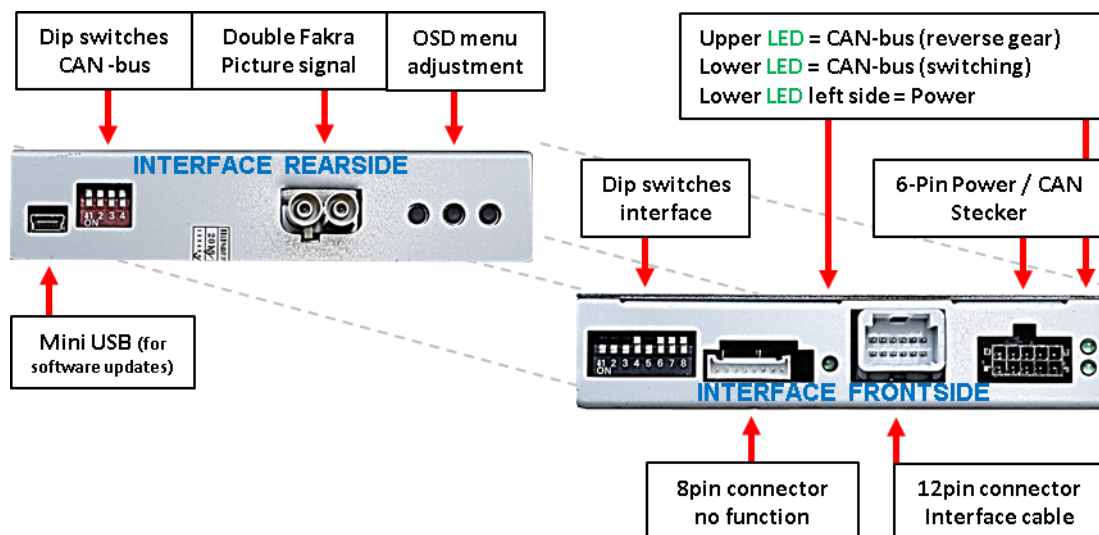
*Take down the serial number of the interface and store this manual for support purposes: \_\_\_\_\_*

## 1.2. Checking the compatibility of vehicle and accessories

Requirements		
Brand	Compatible vehicles	Infotainments
<b>Mercedes Benz</b>	A-Class (W177) since 05/2018 B- Class (W247) since 12/2018 CLA Coupé (C118) since 03/2019 CLA Shooting B (X118) since 07/2019 EQC (N293) since 2019 GLB (X247) since 09/2019 GLE Coupé (C167) since model year 2019 GLE SUV (W167) since model year 2019 GLS- Class (X166) since model year 2019 Sprinter (W907/910) since model year 2018	<p><b>MBUX with 7inch monitor</b>  without navigation: MB order code <b>E3M</b>  with navigation: MB order code <b>E3M+E1E</b>  or  <b>Comand Online NTG6 - MBUX</b>  <b>with 10.25inch monitor</b>  MB order code: <b>E4M</b></p>
<b>Limitations:</b>		
<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. If 2 audio sources shall be connected to the infotainment, an additional electronic is necessary to switch them.	
<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>Guide lines</i>	Available only for vehicles with 7inch monitor, not for 10inch monitor. If the interface does not receive the required information from the vehicle CAN-bus, guide lines won't be supported.	

### 1.3. Boxes and connectors – video interface

The video-interface converts the connected after-market sources video signals into a LVDS signal which is inserted in the factory monitor 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 **UP = OFF** and **DOWN = ON**.



Dip	Function	ON (down)	OFF (up)
	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 Video 1-input	enabled	disabled
3	CVBS Video 2-input	enabled	disabled
4	No function		set to OFF
5	Rear-view cam type	after-market	factory or none
6	*Frontcam back-switching for 10 seconds	*enabled	disabled
7	Guide lines	enabled	disabled
8	Monitor selection	7inch monitor	10.25inch monitor

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

See the following chapters for detailed information.

#### 1.4.1. Adjustment – power supply output (dip 1)

If set to **ON**, the video interfaces' red wire will supply +12V (max 3A) with engaging the reverse gear and additionally 10 more seconds delay for the time of the front camera's back-switching after the reverse gear has been disengaged. Furthermore, the red wire's power supply for the front cam becomes active with manually front camera switching (short press of the external keypad).

If set to **OFF**, the video interfaces' red wire will supply permanent +12V ACC (max 3A).

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

#### 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.

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

#### 1.4.3. Rear-view camera settings (dip 5)

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 – front camera back-switching (dip 6)

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.

(Attend to correct adjustment of the power supply output (dip1)!

#### 1.4.5. Activating the guidelines (dip 7)

If set to **ON**, the guidelines will be shown on the display. If set to **OFF**, the guide lines won't be visible on the display.

**Note:** 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

#### 1.4.6. Monitor selection (Dip 8)

Dip 8 customizes the monitor-specific video settings.

If the monitor doesn't give a satisfying picture, change the dip position while a working video source is connected to the chosen input of the interface. Disconnect the 6pin plug at the interface box between every change of the dip setting.

**After each Dip-switch-change a power-reset of the Can-box has to be performed!**

### 1.5. Settings - 6 Dip switches (Top of box–black)

The 6 dip switches at the top of the video interface are responsible for the according monitor assignment.



**Attention:** In contrast to both other dip benches (8dip and 4dip), the 6dip position **UP = ON** and **DOWN = OFF**!

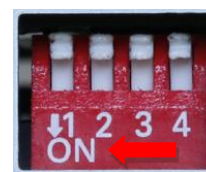
Monitor size and variant	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
7" Single without touch screen	ON	ON	ON	ON	ON	OFF
7" Single touch screen	OFF	OFF	ON	ON	ON	OFF
7" Dual without touch screen	ON	ON	OFF	ON	OFF	OFF
7" Dual touch screen	OFF	OFF	OFF	ON	OFF	OFF
10" Single without touch screen	ON	ON	OFF	OFF	OFF	OFF
10" Single touch screen	OFF	OFF	OFF	OFF	OFF	OFF

**After each Dip-switch-change a power-reset of the Can-box has to be performed!**

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

All 4 dip-switches of the video interface have no function for normal use and have to be set to OFF.

Dip position **UP = OFF** and **DOWN = ON**.



Vehicle/Navigation	Dip 1	Dip 2	Dip 3	Dip 4
All vehicles	OFF	OFF	OFF	OFF

**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!**

### 2.1. Place of installation

The interface is supposed to be installed at a suitable location behind the vehicle's factory monitor and the factory head-unit.



## 2.2. Installation locations of the factory Head Unit

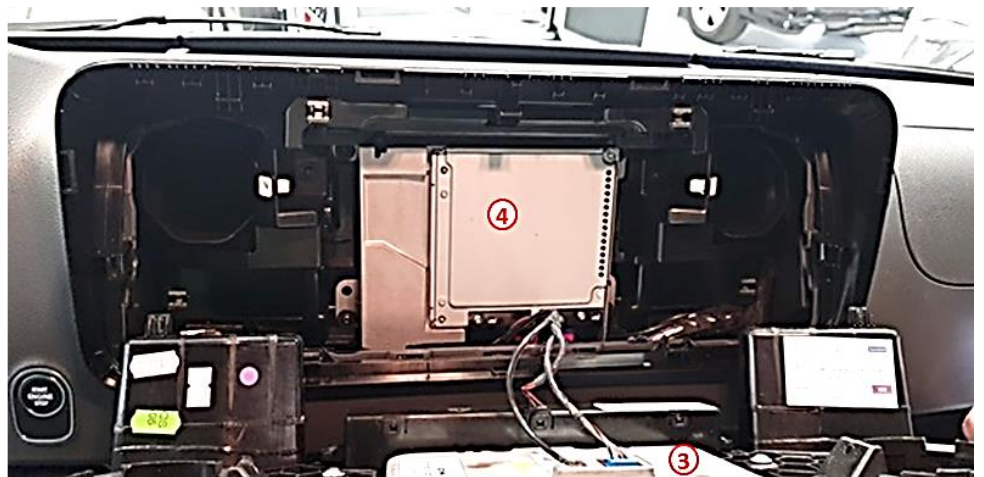
The factory head units of the Mercedes A-Class (W177), Mercedes GLE (W167 and C167) and Mercedes Sprinter (W907/910) vehicles are located at the following locations:

A-Class: On the A-pillar on the driver's side

GLE: Under the passenger seat

Sprinter: Behind the factory monitor

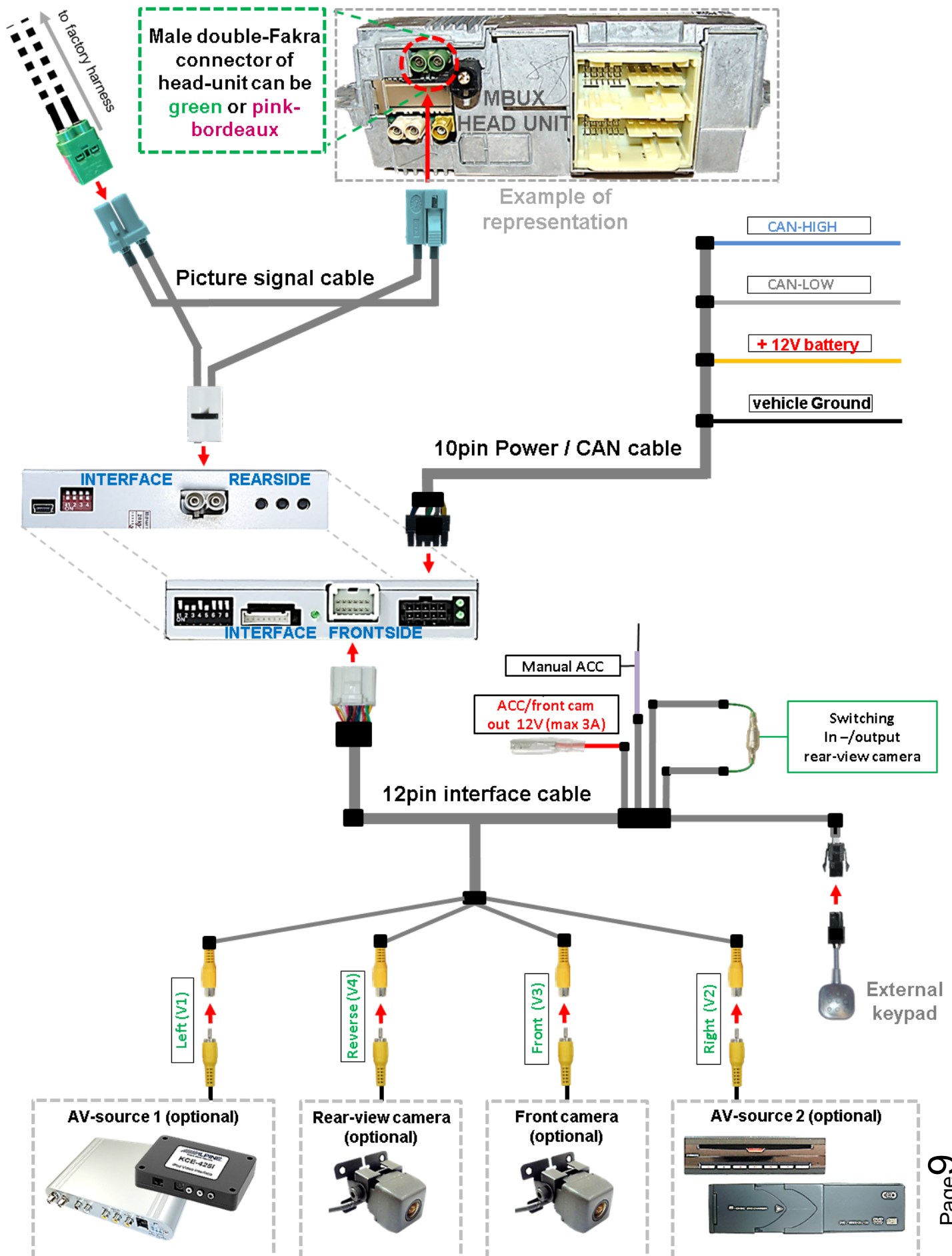
## 2.3. Removing the MBUX head-unit in the Sprinter (W907)



- 1 Remove air vents by using MB special tool.
- 2 Remove one hidden screw under each air vents
- 3 Remove front cover – monitor will stay in front.
- 4 Remove the head-unit.



## 2.4. Connection schema



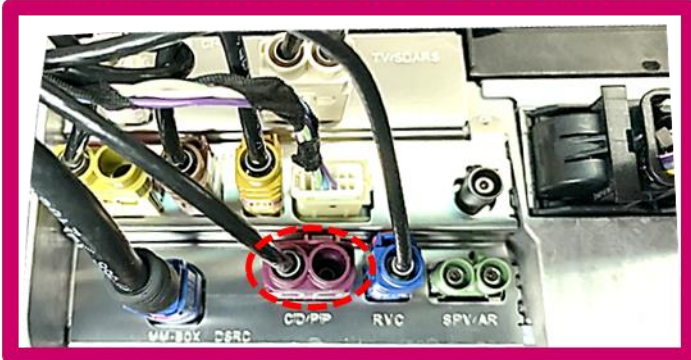
## 2.5. Connection

### Attention:

Depending on the vehicle, two different head units were installed.  
The connection differs between HU **type 1** and HU **type 2**.

#### Head Unit **type 1**

Pink/bordeaux coloured Double Fakra



MBUX 7inch with navigation:

MB order code: **E3M+E1E**

MBUX 10.25inch with navigation:

MB order code: **E4M**

#### Head Unit **type 2**

Green Double Fakra (pink/bordeaux doesn't exist)



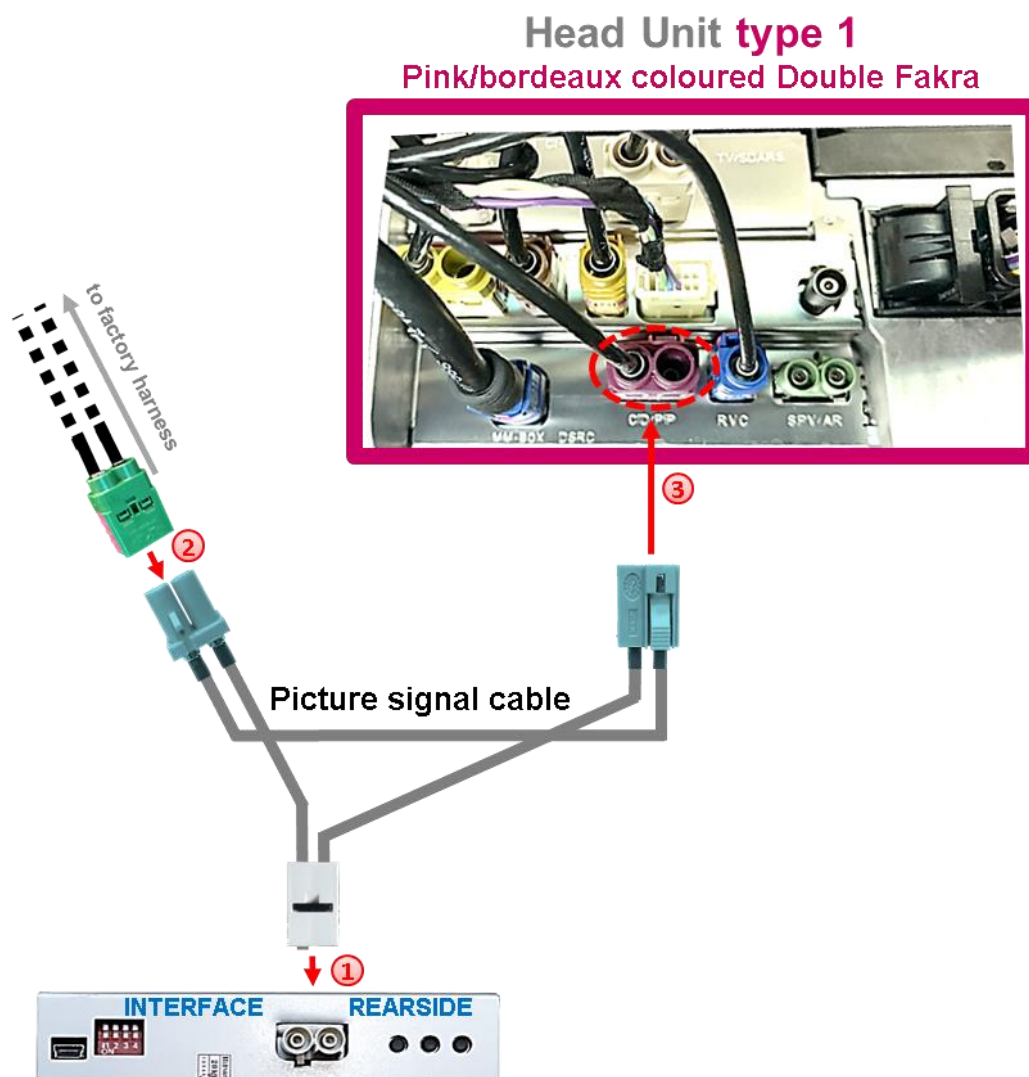
MBUX 7inch without navigation

MB order code: **E3M** (without **E1E**)

### 2.5.1. Picture signal cable - head unit type 1

If a pink/bordeaux Double Fakra is present at the head unit's rear-side, the picture signal cable has always to be connected to the pink/bordeaux one.

Remove the head unit and disconnect the rearside's **pink-bordeaux coloured** female double Fakra connector.



- ① Connect the picture signal cable's white coloured female Double Fakra connector to the male double Fakra connector of the video interface.
- ② Disconnect the female double Fakra connector at the head unit's male **pink-bordeaux** coloured Double Fakra connector and connect it to the male waterblue coloured double Fakra connector of the enclosed picture signal cable.
- ③ Connect the picture signal cable's waterblue coloured female Double-Fakra connector to the head unit's previously become free **pink-bordeaux** coloured Double-Fakra connector.



Attention: The picture signal cable's connection has always to be done at the head unit's Double Fakra, even if only one side of the factory Double Fakra is occupied!

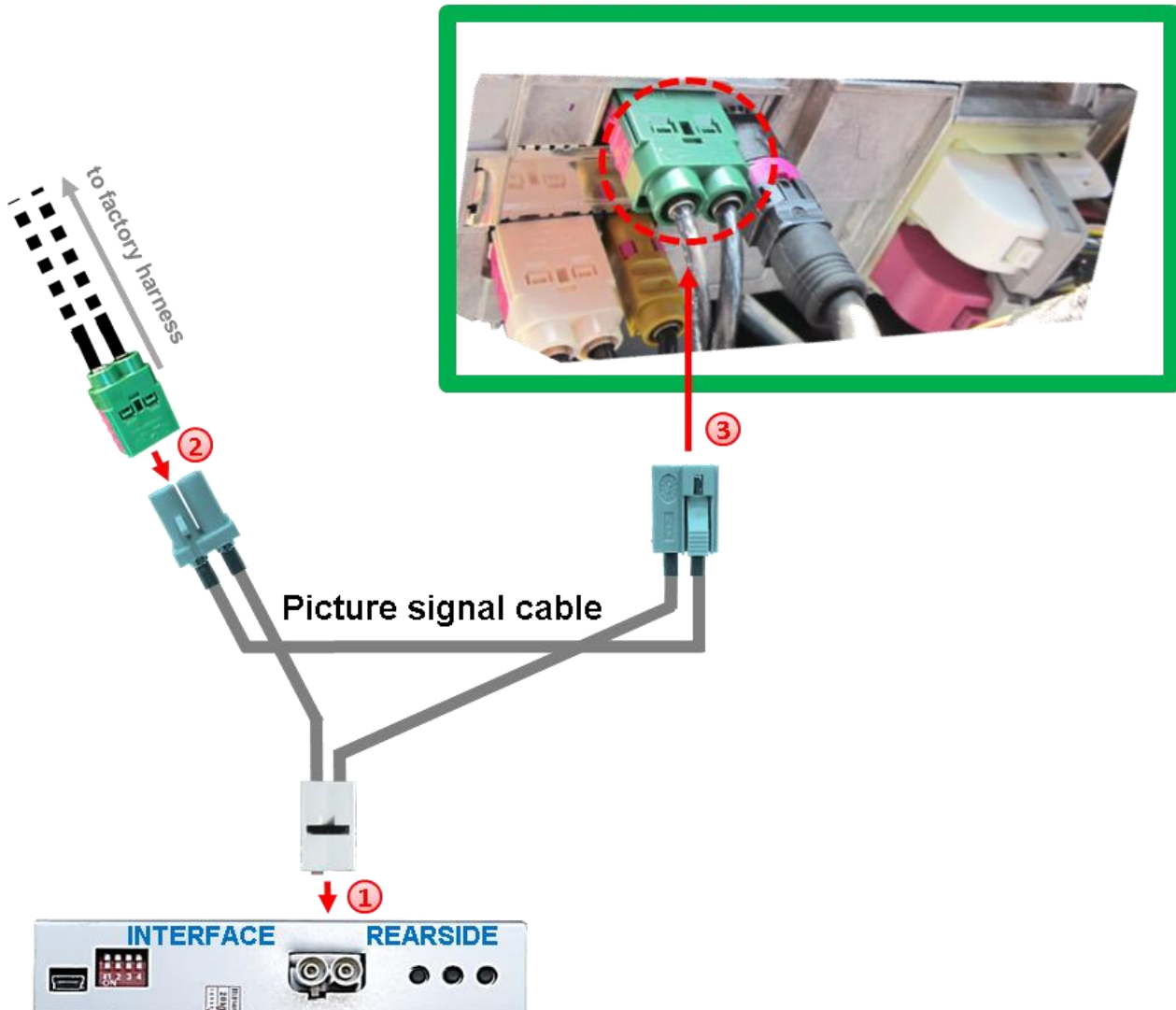
### 2.5.2. Picture signal cable head unit type 2

If **no** pink/bordeaux Double Fakra is present at the head unit's rear-side, the picture signal cable has to be connected to the green one.

Remove the head unit and disconnect the rearside's **green** female double Fakra connector.

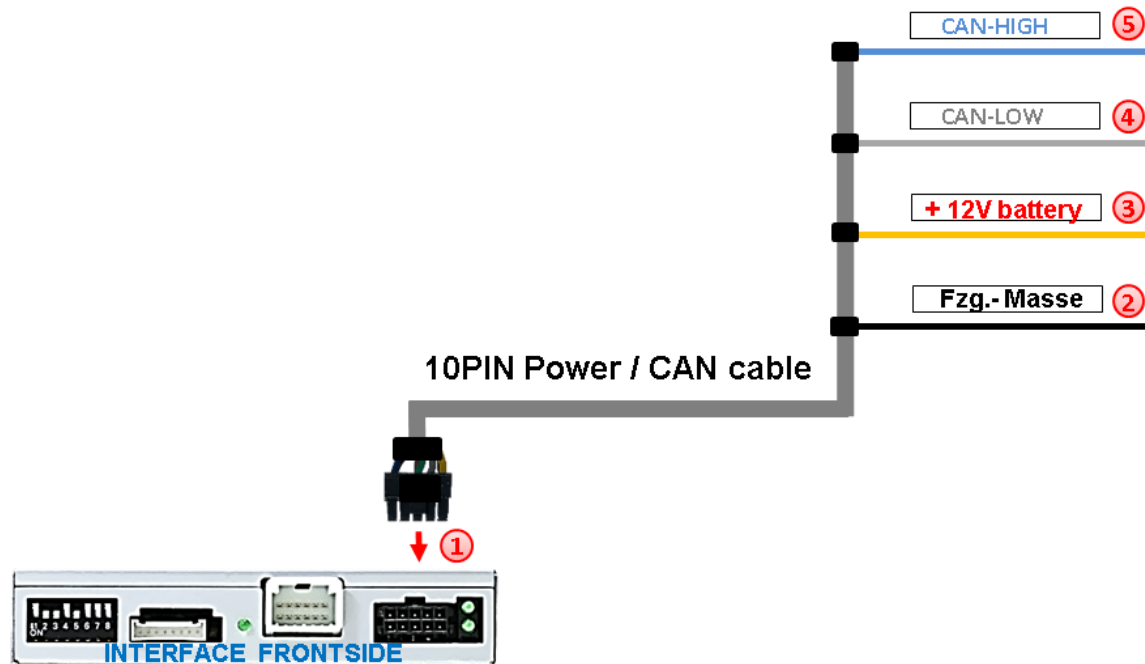
#### Head Unit **type 2**

**Green Double Fakra** (if pink/bordeaux doesn't exist)



- ① Connect the picture signal cable's white coloured female Double Fakra connector to the male double Fakra connector of the video interface.
- ② Disconnect the female double Fakra connector at the head unit's male **green** coloured Double Fakra connector and connect it to the male waterblue coloured double Fakra connector of the enclosed picture signal cable.
- ③ Connect the picture signal cable's waterblue coloured female Double-Fakra connector to the head unit's previously become free **green** coloured Double-Fakra connector.

## 2.6. 10pin Power / CAN cable



- ① Connect the 10pin power / CAN cable's female 10pin connector to the 10pin connector of the video interface.
- ② Connect the single **black wire** of the 10pin Power / CAN Cable to stabile vehicle's negative ground.
- ③ Connect the single **yellow wire** of the 10pin power/CAN cable to +12V permanent and stabile power supply.
- ④ Connect the single **grey wire** of the 10pin power / CAN cable to the vehicle's CAN-Low
- ⑤ Connect the **blue wire** of the 10pin Power / CAN Cable to the vehicle's CAN-High.

**Place of connection:** see next page



## 2.7. Place of connection – Power/can

Head Unit **type 1**  
with **pink/bordeaux** Double Fakra:

At the black 26pin connector



- Head Unit **type 2**  
with **green** Double-Fakra:

At the white 31pin connector



As an alternative connection possibility for both HU types, **only if equipped with an RVC preparation (code FR7)**, there is a 4-Pin connector with the same cable colours for Power and CAN under the driver's seat.



The factory FR7 RFK preparation is only available:

- For type 1** - When the blue single Fakra is occupied at the head unit
- For type 2** - When the green double fakra at the head unit is occupied twice.

Pin assignment 10pin Power/CANcable	Pin assignment head-unit <b>Type 1</b> with <b>pink-bordeaux</b> Double-Fakra black 26pin connector	Pin assignment head-unit <b>Type 2</b> with <b>green</b> Double-Fakra white 31pin connector	Head Units with FR7 Pre equipment <b>Type 1</b> and <b>Type 2</b>
• CAN High <b>blue</b>	• Pin 7 <b>purple</b> white	• Pin 15 <b>purple</b> white	• <b>purple</b> white
• CAN Low <b>grey</b>	• Pin 20 <b>purple</b>	• Pin 22 <b>purple</b>	• <b>purple</b>
• +12V Battery <b>yellow</b>	• Pin 14 <b>red</b>	• Pin 1 <b>red</b>	• <b>red</b>
• Ground <b>black</b>	• Pin 1 <b>brown</b>	• Pin 6 <b>brown</b>	• <b>brown</b>

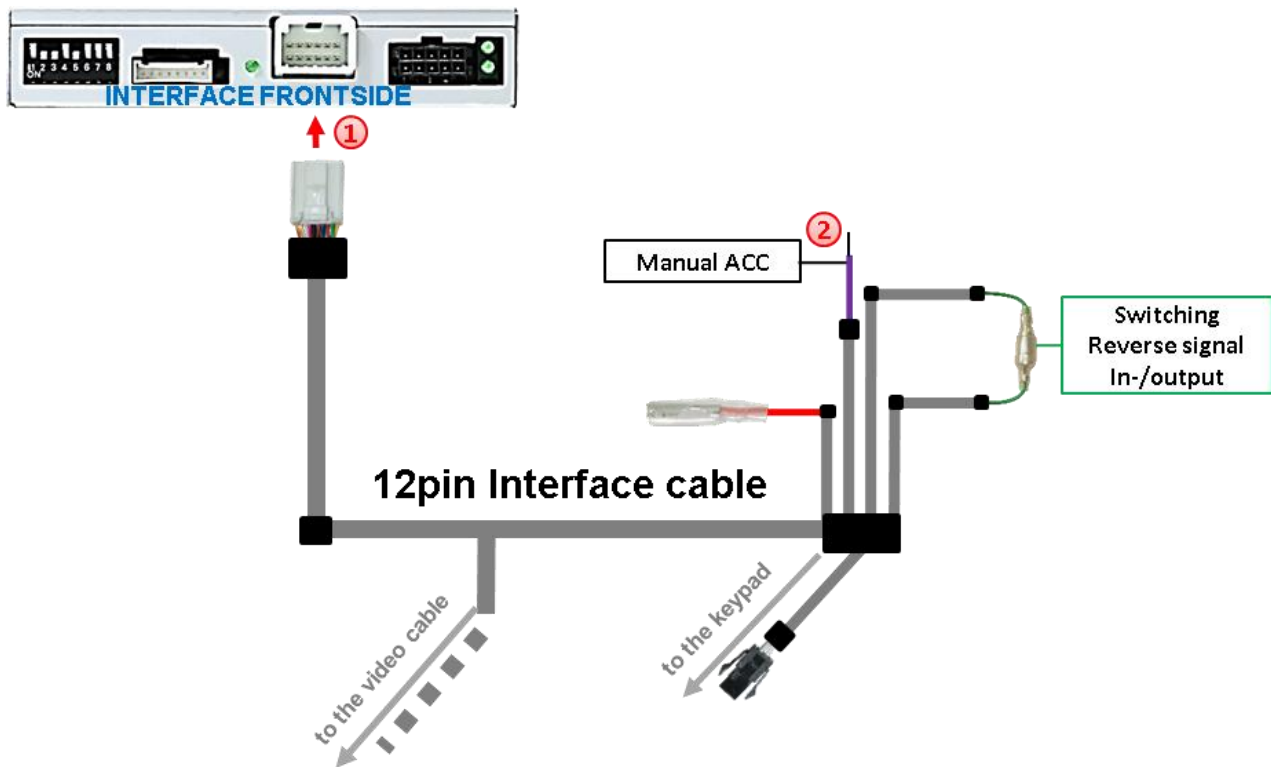
**There`s no liability for the vehicle`s pin diagram! Changes in the manufacturer`s production are possible any time. The mentioned information has to be verified by the installer.**



**Note:** The CAN communication doesn't succeed in all vehicles. If, after connecting the 10pin Power / CAN cable, no interface LED lightens up while the ignition is turned on, refer to chapter "Analogue power supply for the video interface".



## 2.8. Analog power supply for the video interface



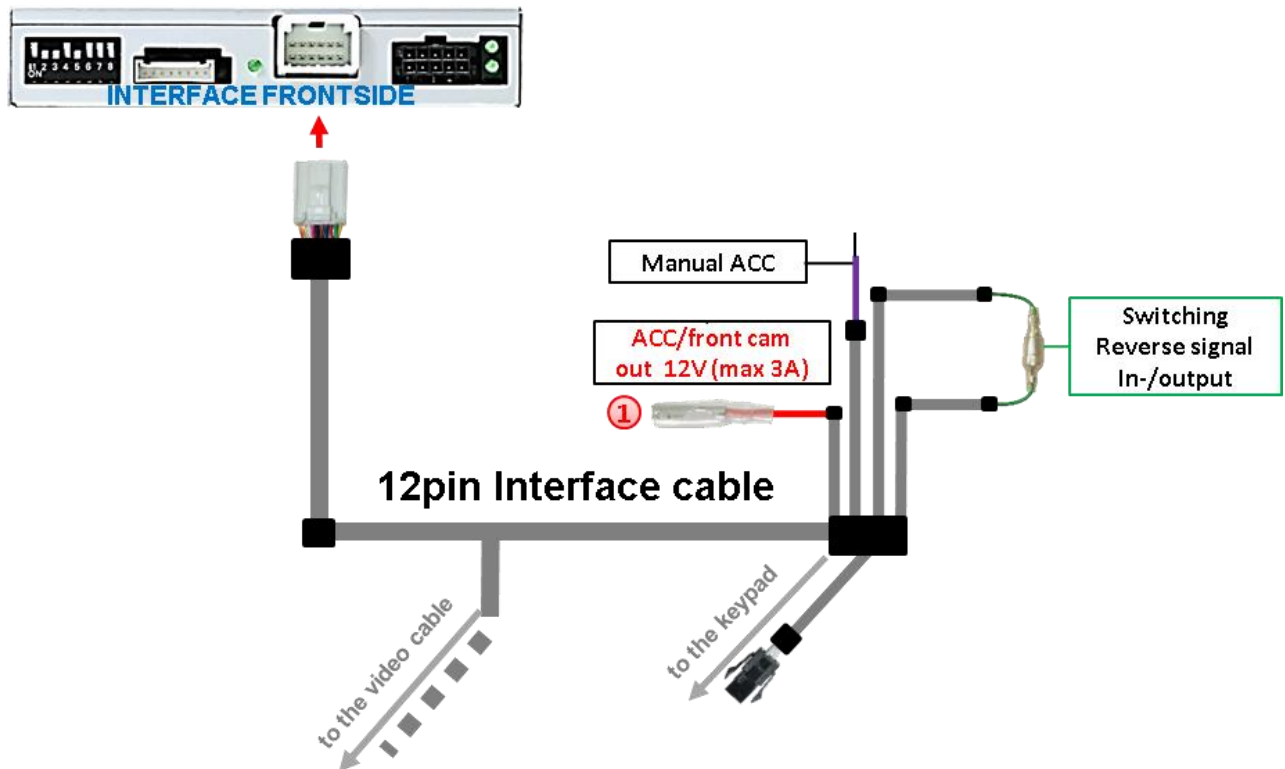
- 1 Connect the enclosed 12pin interface cable's female 12pin connector to the male 12pin connector of the video interface.

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



**Note:** Do not connect to ordinary ACC!

## 2.9. Power supply output



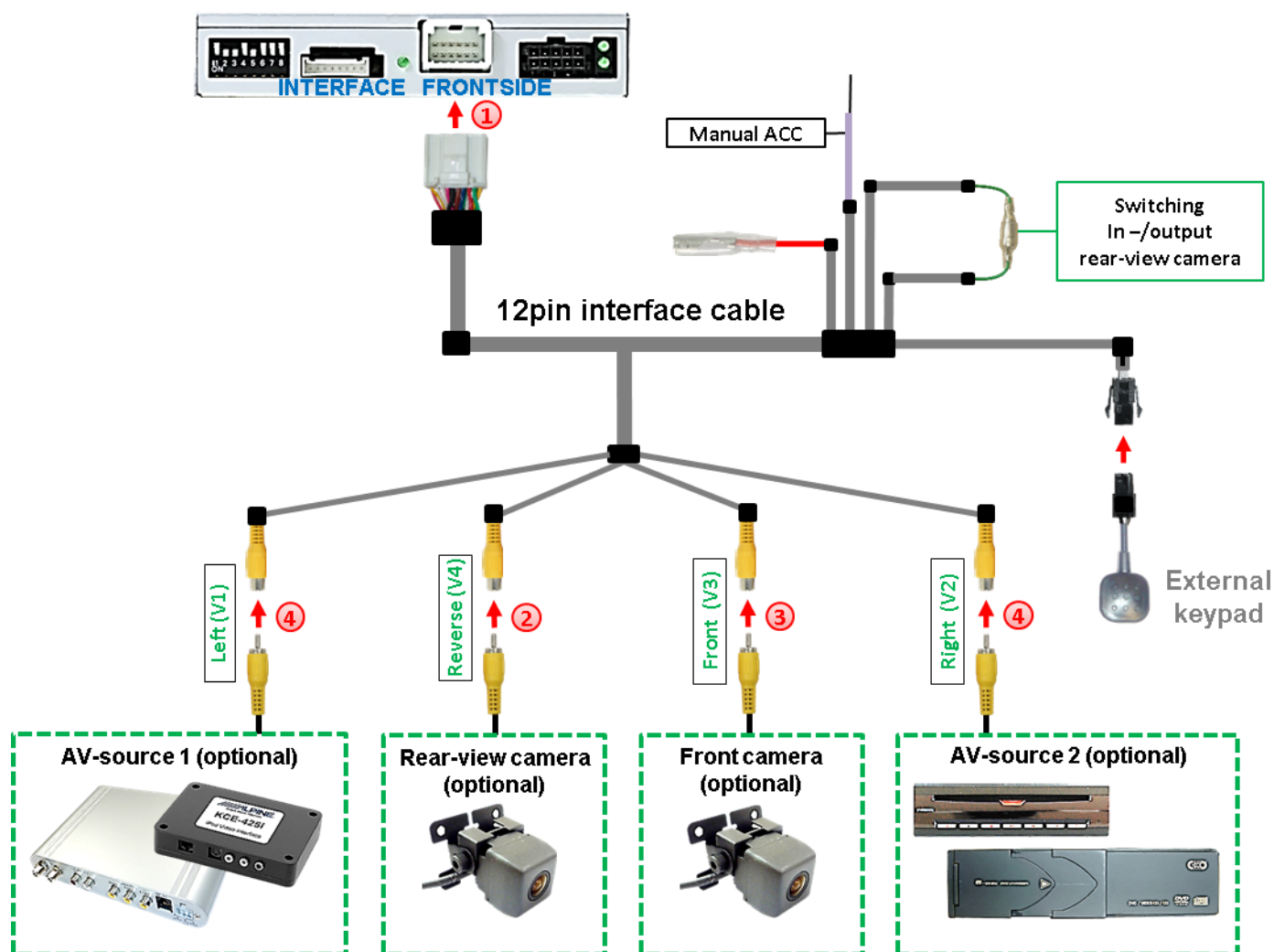
- ① The red power supply output **ACC/front cam out 12V (max 3A)** can be used to power an external source and has a different assignment depending on the position of dip switch 1 (of the black 8 dips):

Dip	Function
Dip 1 <b>ON</b>	+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 <b>OFF</b>	+12V (max. 3A) simulated ACC (while CAN has activity)

## 2.10. Connection - 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 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.

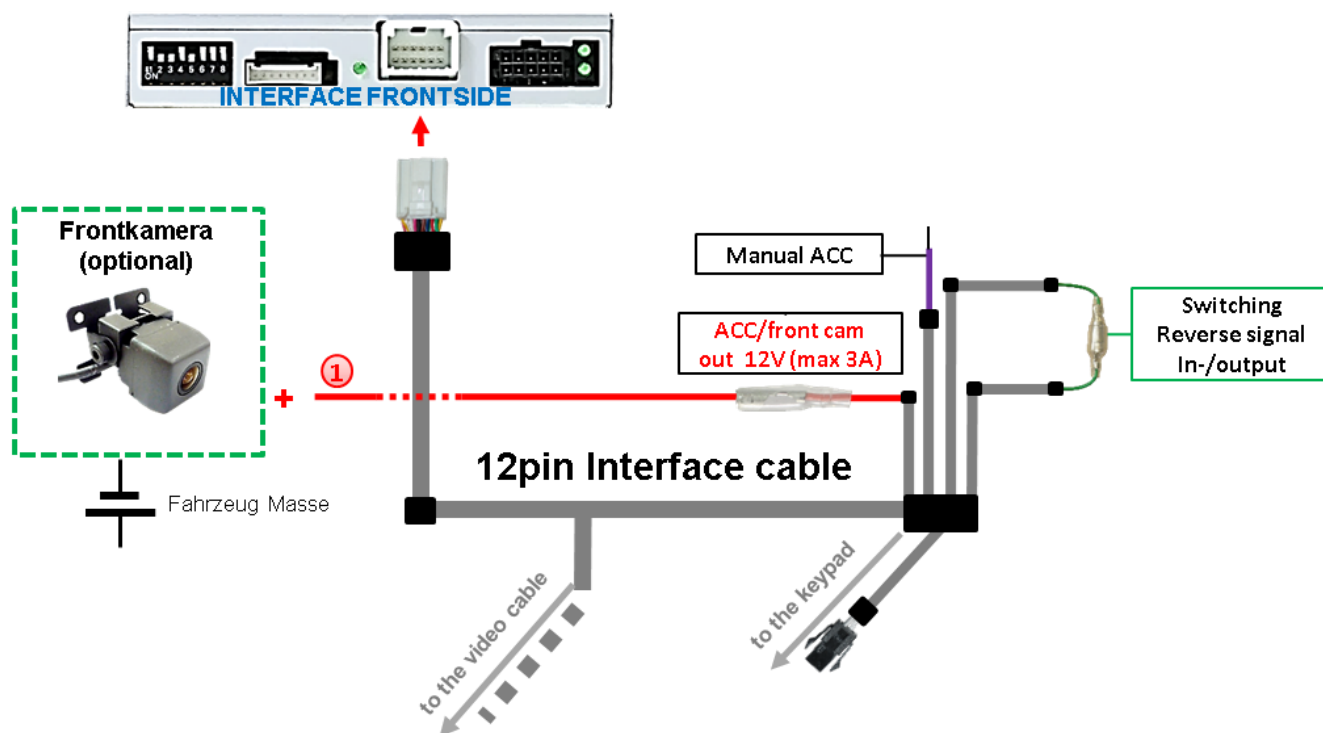


- ① Connect the 12pin interface cable's female 12pin connector to the male 12pin connector of the video-interface.
- ② Connect the video RCA of the Rear-view camera to the 12pin interface cable's female RCA connector „Reverse V4“.
- ③ Connect the front camera's video RCA connector to the 12pin interface 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)”.

### 2.10.1. 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.

### 2.10.2. 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 (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 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).

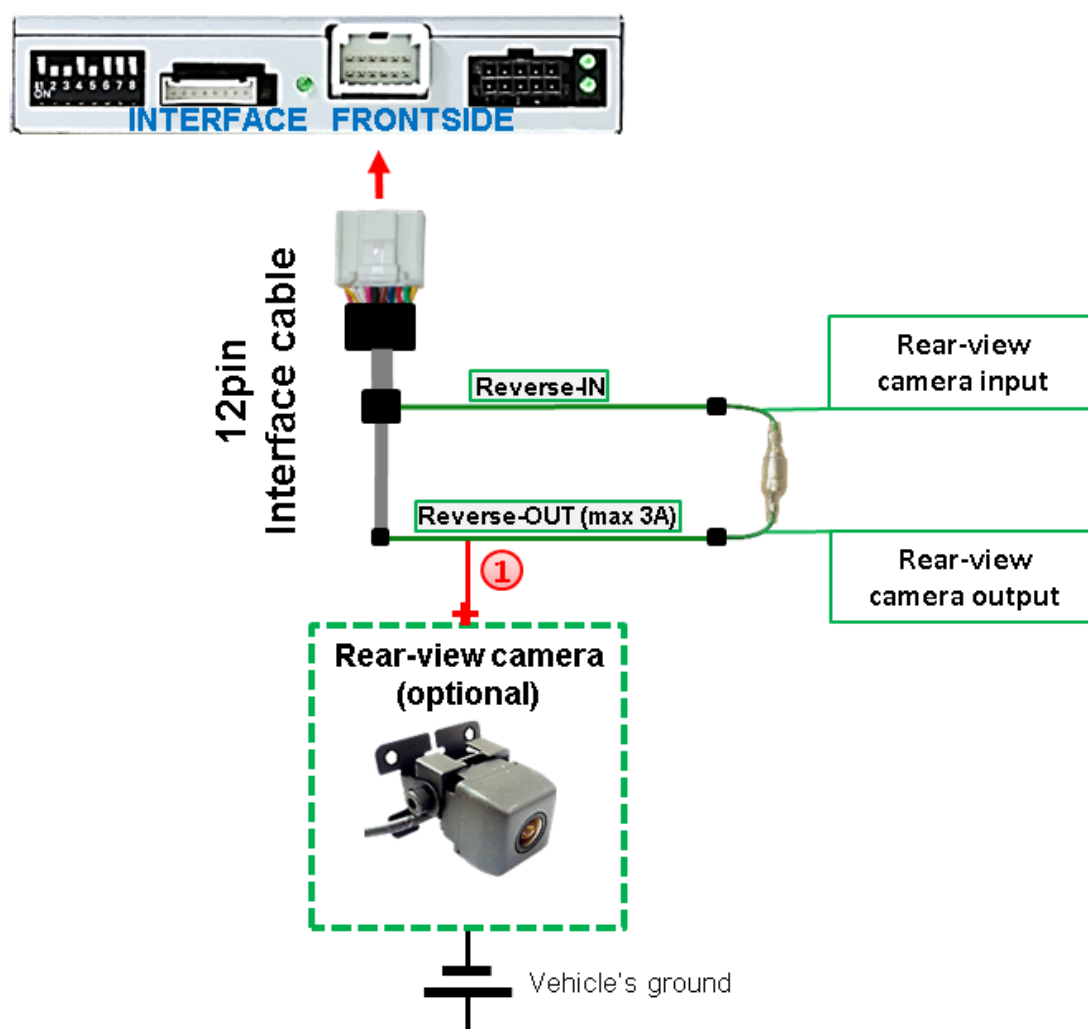
### 2.10.3. After-market rear-view camera

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.

#### 2.10.3.1. Case 1: Interface receives the reverse gear signal

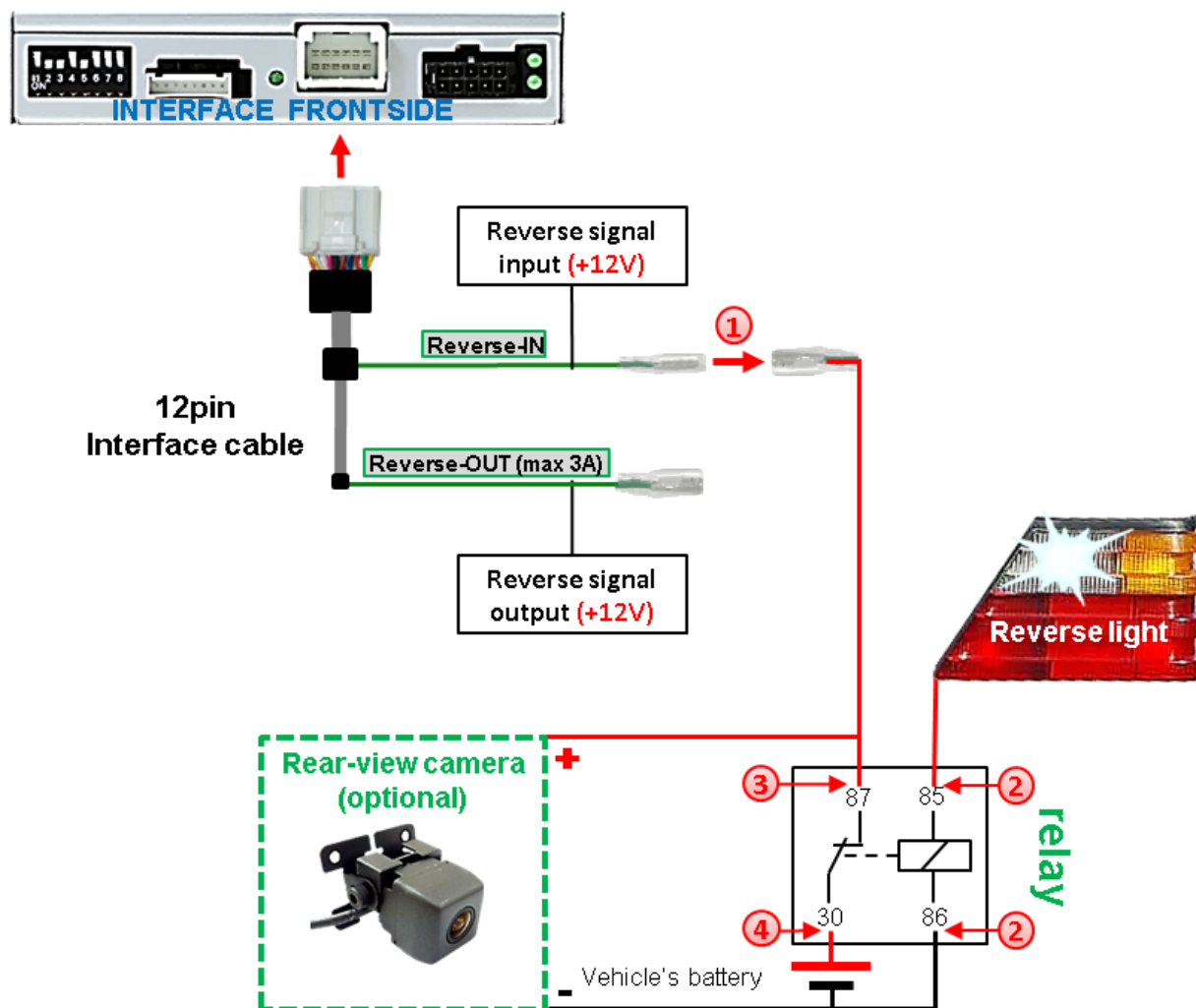
If the interface delivers +12V on the green output wire of the 12pin interface cable while reverse gear is engaged, the video interface will automatically switch to the rear-view camera input **"Camera IN"** while the reverse gear is engaged.



- 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.

### 2.10.3.2. Case 2: Interface 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.



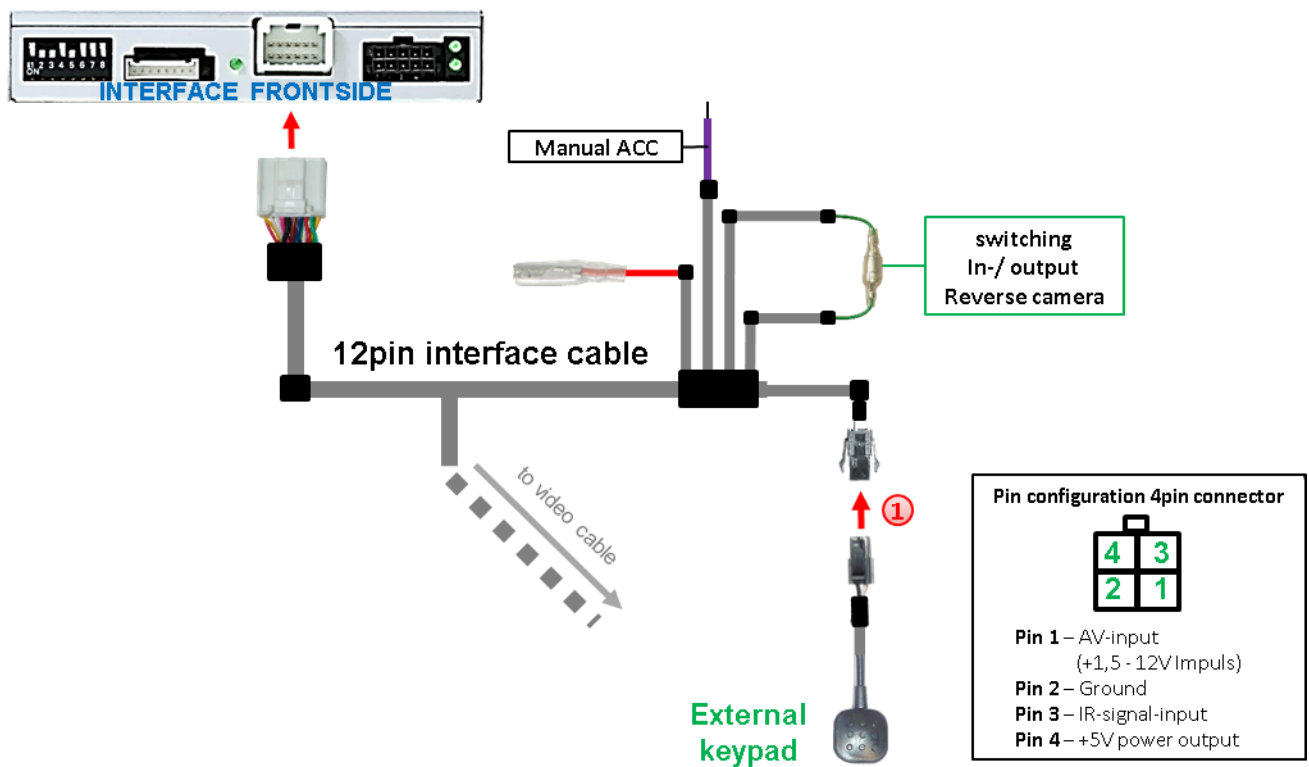
- ① Disconnect the green cable's preconnected male- and female connectors of the 12pin interface cable and connect the green input cable "Reverse-IN" to the output connector (87) of the relay.

**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).



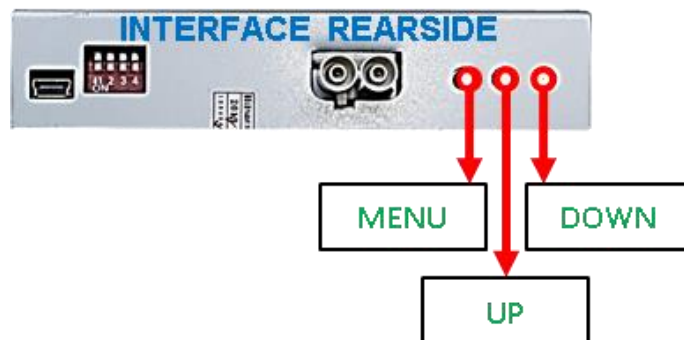
## 2.11. Connection - video-interface and external keypad



- 1 Connect the female 4pin connector of the keypad 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.

## 2.12. Picture settings and guide lines

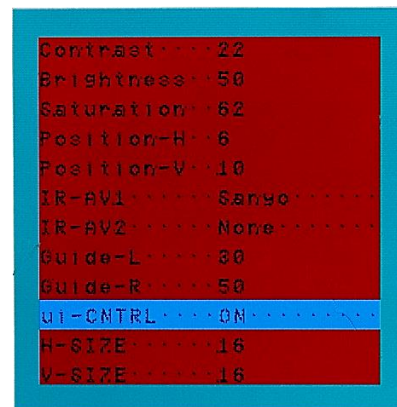


The picture settings are adjustable by the 3 push-buttons at the rear-side of the video-interface. Press the MENU button to open the OSD settings menu or to switch to the next menu item. Press UP and DOWN to change the selected value. The buttons are placed inside in the housing to avoid accidental changes during or after the installation. Picture settings must be done separately for all video inputs 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)
- Position V (vertical)
- IR-AV1/2 (no function)
- Guide L Move guide lines horizontally (when left out - right back in)
- Guide R (no function)
- UI-CNTRL (no function - guide lines only for 7inch by dip switch 6)
- Size H/V (picture size horizontal/vertical)



**Note:** 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! Generally, guide lines are only available for vehicles equipped with 7inch monitors)

### 3. Interface operation

➤ Long press of keypad (2-3 seconds)

By long pressing the external keypad (2-3 seconds), the video interfaceswitches 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 → Left (V1) → Right (V2) → factory video*

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 interfaceswitches from the factory video to the front camera input and with press-repeat back to factory video.

### 4. Specifications

BATT/ACC range	7V - 25V
Stand-by power drain	10mA
Power	270mA @12V
Video input	0.7V - 1V
Video input formats	NTSC/PAL
Temperature range	-40°C to +85°C
Dimensions video-box	119 x 24 x 100 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.
	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.	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.
Inserted picture double or 4 times on monitor.		
Inserted picture distorted, flickering or running vertically.	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.
	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 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 is being tested under fluorescent light which shines directly into the camera.	Test camera under natural light outside the garage.
Camera input picture flickers.		
Camera input picture is bluish.	Protection sticker not removed from camera lens.	Remove protection sticker from lens.

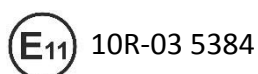
Symptom	Reason	Possible solution
Camera input picture black.	Camera power taken directly from reverse gear lamp.	Use relay or electronics to "clean" reverse gear lamp power. Alternatively, if CAN-bus box is compatible with the vehicle, camera power can be taken from green wire of 6pin to 8pin cable.
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.

## 6. 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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