

Video converter

RL-UCON-D1

Compatible with

Citroen, Fiat, Opel, Peugeot and Toyota vehicles
with all-in-one head unit and 5 or 7inch monitor or
Uconnect infotainment with separate 10inch monitor



example

Video converter for digital rear-view camera input

Product features

- Video converter for digital rear-view camera systems
- 1 video input for AHD 720p PAL rear-view camera (RCA)
- Automatic conversion of an AHD camera signal at the reversing camera input when reverse gear is engaged

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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).

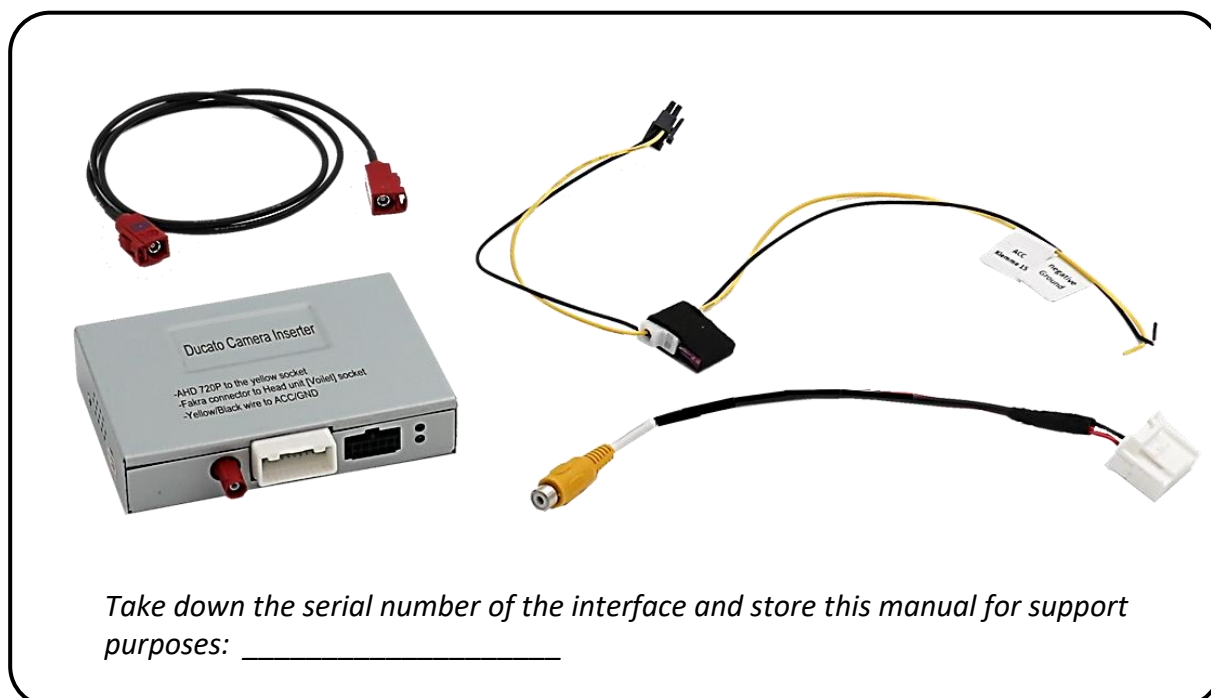
Changes/updates of the vehicle's software can cause malfunctions of the interface. Up to one year after purchase we offer free software-updates for our interfaces. To receive a free update, the interface has to be sent in at own cost. Wages for de-and reinstallation and other expenditures involved with 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



1.2. Checking the compatibility of vehicle and accessories

Requirements

Brand	Compatible vehicles	Compatible systems
Citroen	Jumper2 (X250/X290) from model year 2022, Relay 3 (X250/X290) from model year 2022	R1LOW Mitsubishi all-in-one head unit with 7inch monitor
	Jumper2 (X295) from model year 2024, Relay3 (X295) from model year 2024-	Uconnect R1 EXT Harman head unit with separate 10inch tablet monitor
		MCA250 DAB RVC APTIV short all-in-one head unit with 5inch monitor
Fiat	Ducato3 (Series 8) from model year 2021	R1LOW Mitsubishi all-in-one head unit with 7inch monitor
		Uconnect R1 EXT Harman head unit with separate 10inch tablet monitor
		MCA250 DAB RVC APTIV short all-in-one head unit with 5inch monitor
Opel	Movano C from model year 2022	R1LOW Mitsubishi all-in-one head unit with 7inch monitor
	Movano C from model year 2024	Uconnect R1 EXT Harman head unit with separate 10inch tablet monitor
		MCA250 DAB RVC APTIV short all-in-one head unit with 5inch monitor
Peugeot	Boxer2 (X250/X290) from model year 2022	R1LOW Mitsubishi all-in-one head unit with 7inch monitor
	Boxer2 (X295) from model year 2024	Uconnect R1 EXT Harman head unit with separate 10inch tablet monitor
		MCA250 DAB RVC APTIV short all-in-one head unit with 5inch monitor
Toyota	ProAce Max (T) from model year 2024	Pro Touch Multimedia System - Uconnect R1 EXT Harman head unit with separate 10inch tablet monitor
		RCE DAB-Radio - MCA250 DAB RVC APTIV short all-in-one head unit with 5inch monitor

Limitations:

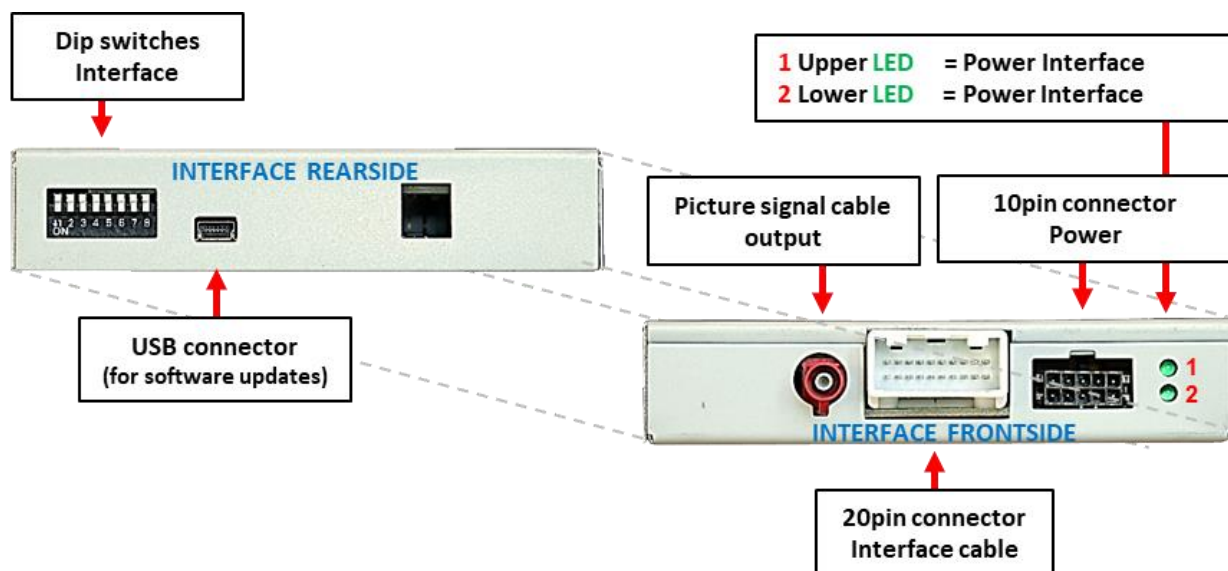
<i>Coding*</i>	Vehicle must already be coded for rear view camera by the factory.
<i>Video input signal</i>	Compatible only with 720p AHD camera with PAL signal.
<i>After-market Rear-view camera</i>	The connected AHD camera must be continuously current stable to avoid damage due to overload.

* A prerequisite for the converter function is a factory precoding which can be recognised by the blue screen on the display when reverse gear is engaged (see picture).



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 - 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.



Set all dip switches to OFF

Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6	Dip 7	Dip 8
OFF ↑	OFF ↑	OFF ↑	OFF ↑	OFF ↑	OFF ↑	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.

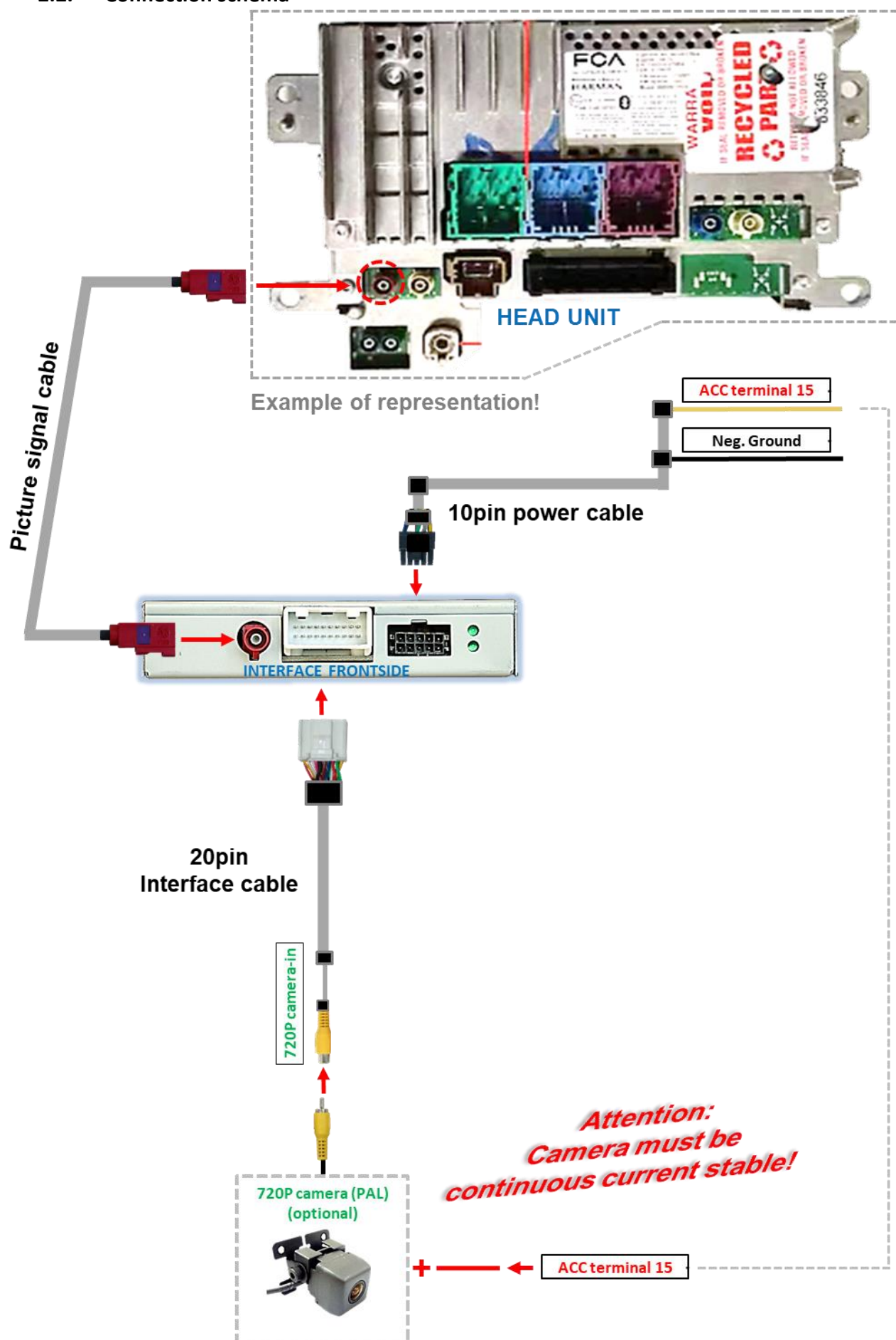
As with any installation of retrofit equipment, a stand-by test is necessary after the installation of the video interface, to ensure that the unit also switches off after reaching the vehicle's sleep mode.

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

2.1. Place of connection

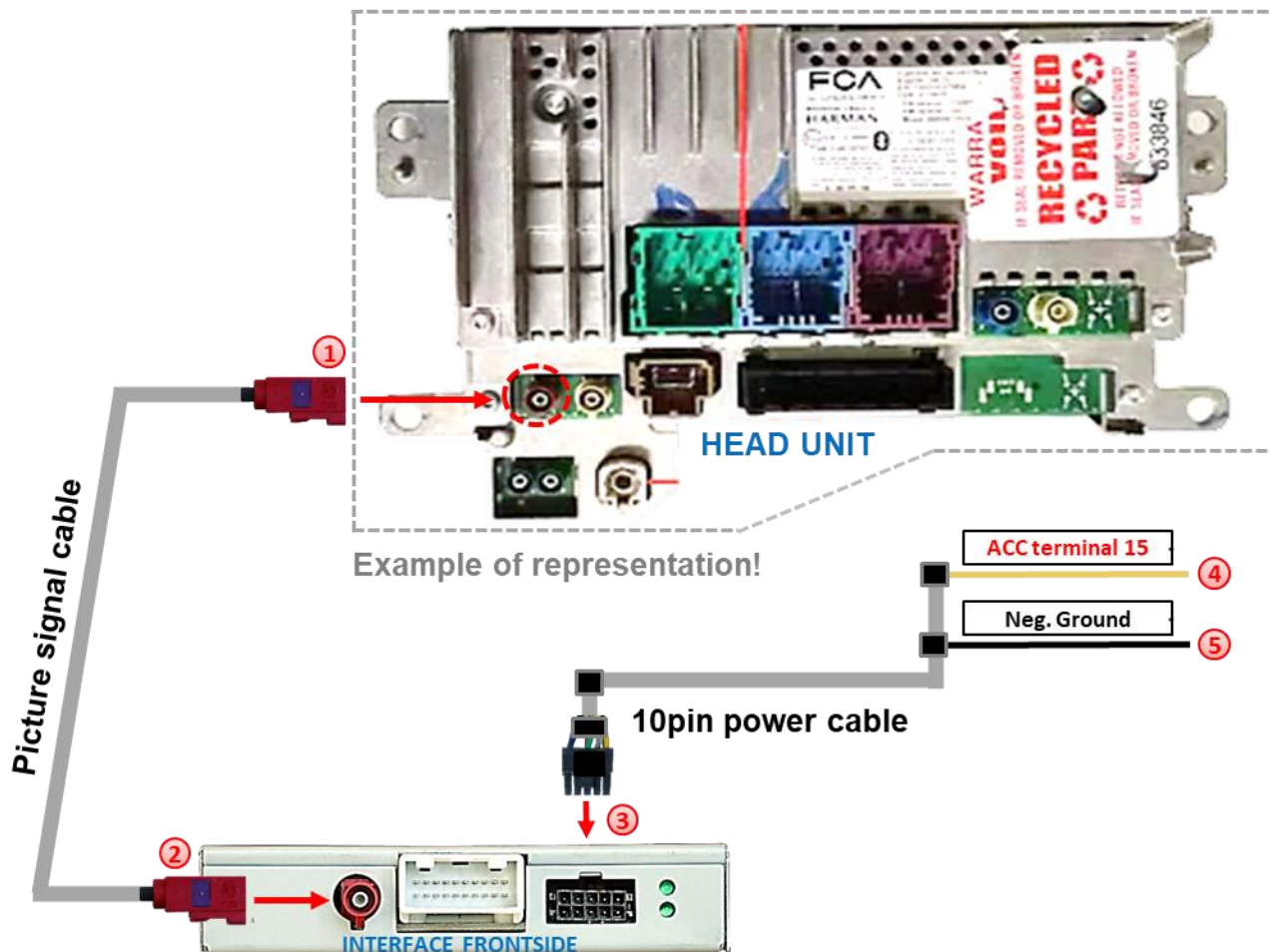
The video interface has to be connected at a suitable location behind the vehicle's head-unit.

2.2. Connection schema



2.3. Connection – power and picture signal cable

Remove the head unit

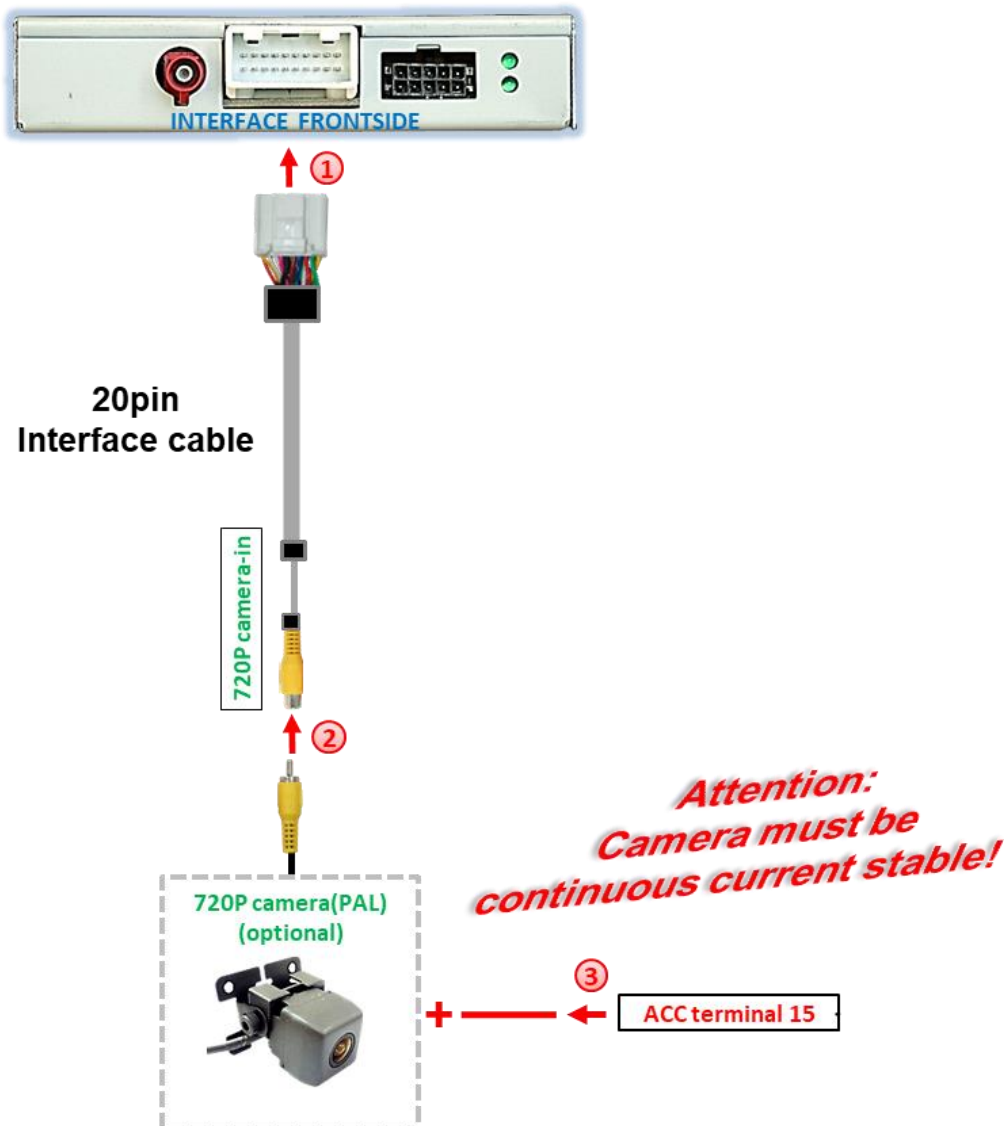


- ① Connect the female bordeaux-coloured Fakra connector of the enclosed picture signal cable to the male bordeaux-coloured Fakra connector of the factory head unit.
- ② Connect the opposite female bordeaux-coloured Fakra connector of the enclosed picture signal cable to the male bordeaux-coloured Fakra connector of the video interface.
- ③ Connect the female 10pin connector of the 10pin power cable to the male 10pin connector of the video interface.
- ④ Connect the yellow wire of the 10pin power cable to **+12V ACC (terminal 15)**.
- ⑤ Connect the black wire of the 10-pin power cable to negative ground.

2.4. Connection – AHD Kamera

Note: Only compatible with 720p AHD camera with PAL signal!

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 20pin interface cable's female 20pin connector to the male 20pin connector of the video-interface.
- ② Connect the video RCA of the AHD camera to the 20pin interface cable's female RCA connector „720P Camera-IN“.
- ③ Connect the power cable of the AHD camera to +12V ACC as previously done with the yellow wire of the 10pin power cable.

Note: Due to the ACC power supply, the camera must be continuously current stable to avoid damage due to overload.

3. Specifications

BATT/ACC range	7V - 25V
Current consumption	about 100mA @12V
Video input	0.7V - 1V
Video input formats	PAL
Temperature range	-40°C to +85°C
Dimensions video-box	107 x 95 x 24 mm (W x H x D)

4. 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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