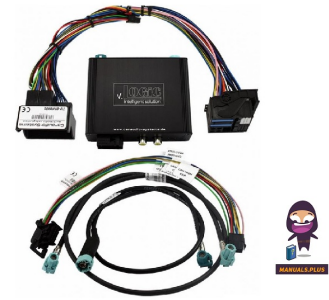


Caraudio-Systems
V5-NTG5-PNP
V.LOGiC
Intelligent
Solution



CARAUDIO-SYSTEMS V5-NTG5-PNP V.LOGiC Intelligent Solution Owner's Manual

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CARAUDIO-SYSTEMS V5-NTG5-PNP V.LOGiC Intelligent Solution



FAQs

Q: Can I watch moving pictures while driving with this product?

A: By law, watching moving pictures while driving is prohibited. The driver must not be distracted. This product should only be used while standing or to display fixed menus or rear-view camera video when the vehicle is moving.

Q: How can I update the software of the interface?

A: We offer free software updates for our interfaces for one year after purchase. To receive a free update, the interface must be sent in at your own cost.

Product Features

- Interactive lane lines
- Own on-screen display and setup
- Rear-view camera input
- Automatic switching to rear-view camera input on the engagement of reverse gear from all operation modes

- Front camera input
- Manual switching to rear-view camera
- 2 trigger outputs (+12V max. 1A), separately adjustable switching events (CAN, ACC, camera, reverse gear)
- Compatible with all factory video accessories (e.g. rear-view camera, TV tuner)
- USB update port for software updates by consumer

Legal Information

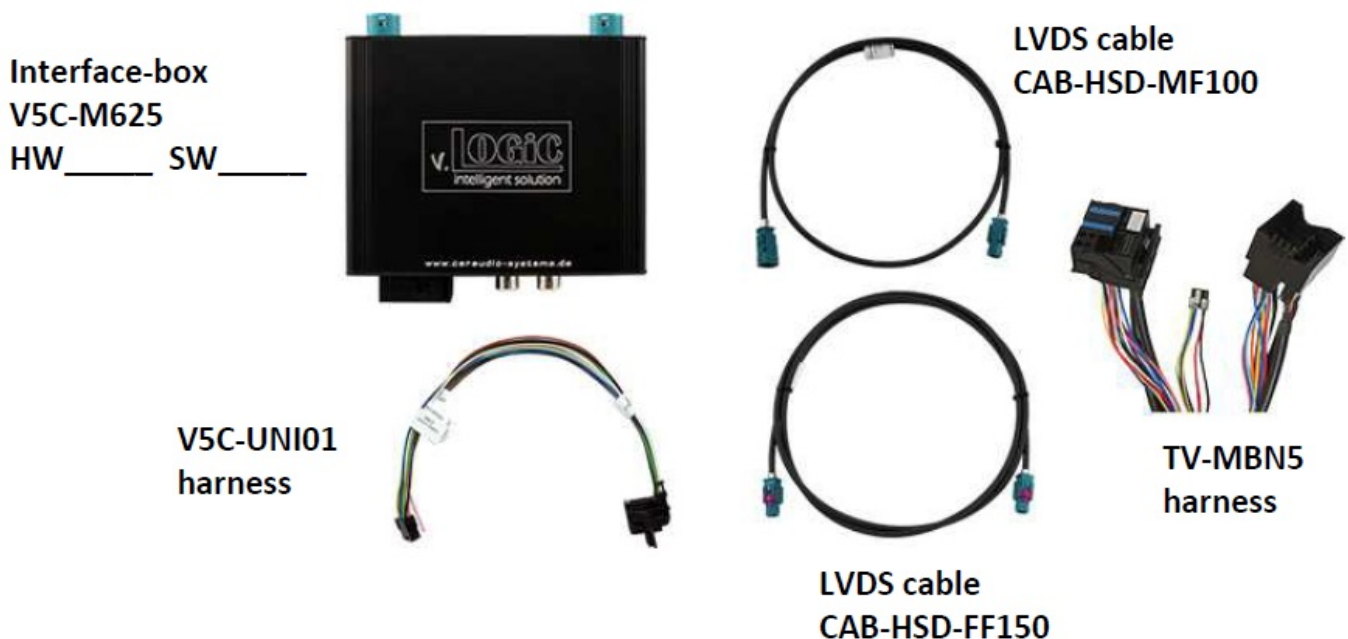
By law, watching moving pictures while driving is prohibited, the driver must not be distracted. We do not accept any liability for material damage or personal injury resulting, directly or indirectly, from the installation or operation of this product. This product should only be used while standing or 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. We offer free software updates for our interfaces for one year after purchase. To receive a free update, the interface must be sent in at own cost. Labor costs for and other expenses involved with the software updates will not be refunded.

Prior to installation

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

Delivery contents

Take down the SW-version and HW-version of the interface boxes, and store this manual for support purposes.



check the compatibility of the vehicle and accessories

Requirements

Navigation

COMAND Online NTG5/5.1, Audio20 NTG5/5.1 with 4pin HSD LVDS connector on the monitor (s-class W222 is not supported)

Limitations

Factory

TV tuner Vehicles with factory TV tuner are not supported

Setting the DIP switches of the interface box V5C-M625

DIP 1 on the back of the interface box V5C-M625 is used to set the monitor type. The default setting is:

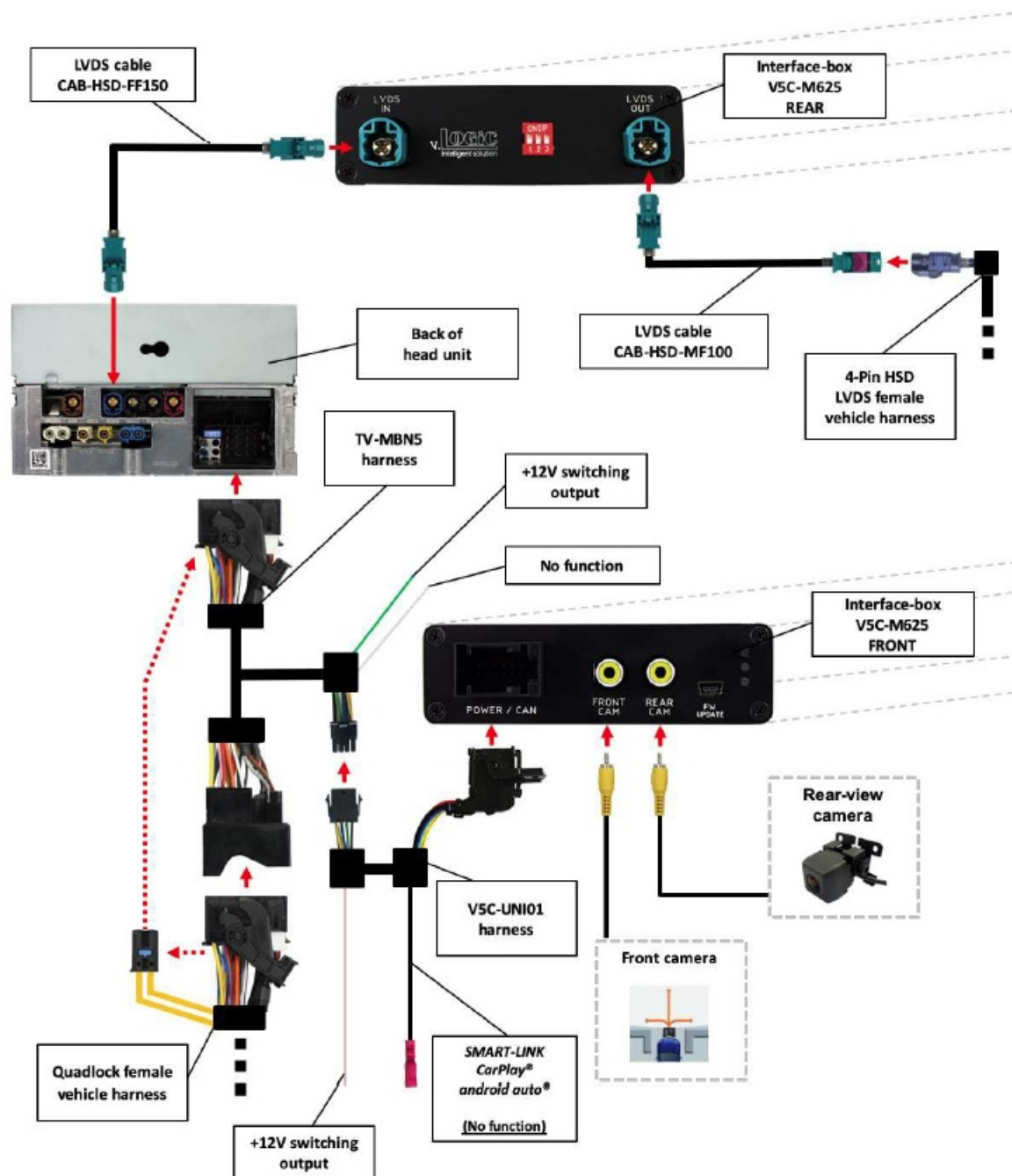
Head unit	DIP 1	DIP 2	DIP 3
COMAND Online NTG5/5.1, Audio20 NTG5/5.1 (Hi-resolution)	ON	No function	No function
Audio20 NTG5/5.1 (Low resolution)	OFF	No function	No function

After each change of the DIP switch settings, you have to execute a power reset of the interface-box!

LEDs of the interface box V5C-M625



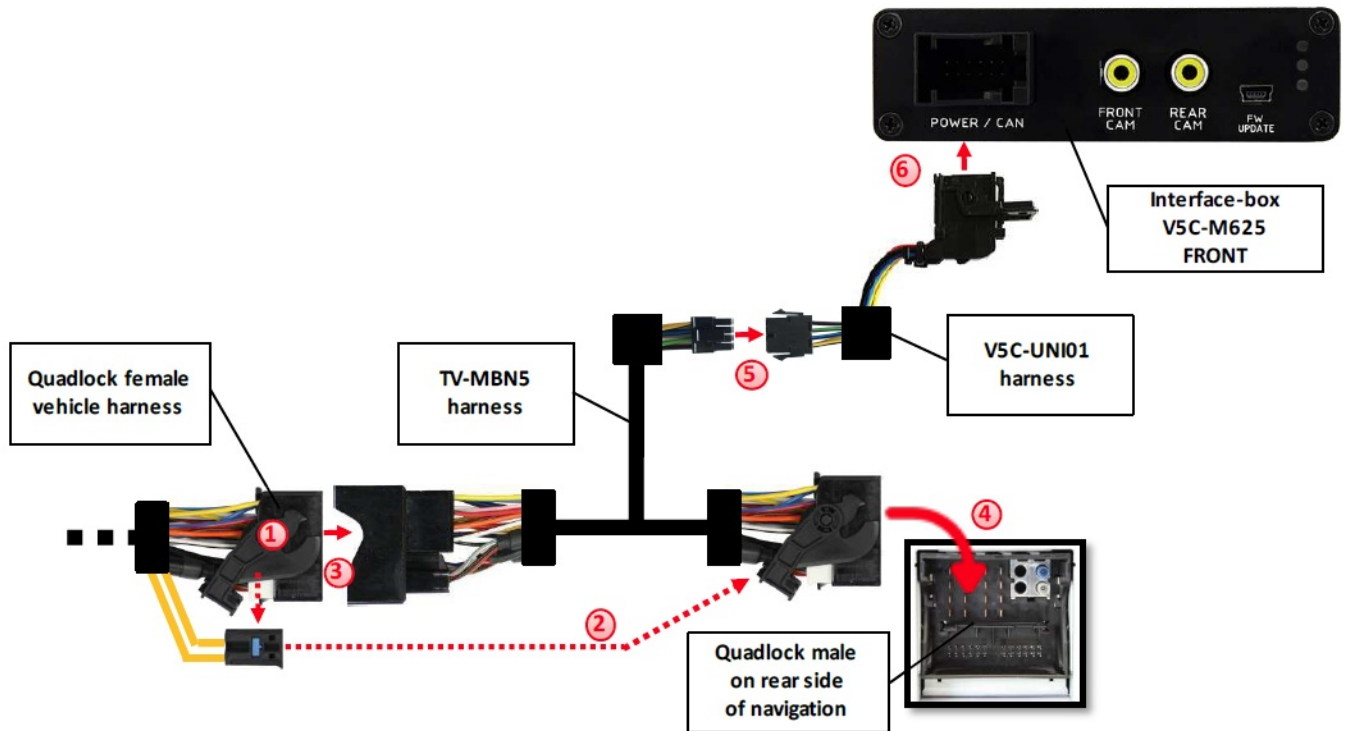
Connection schema



Installation

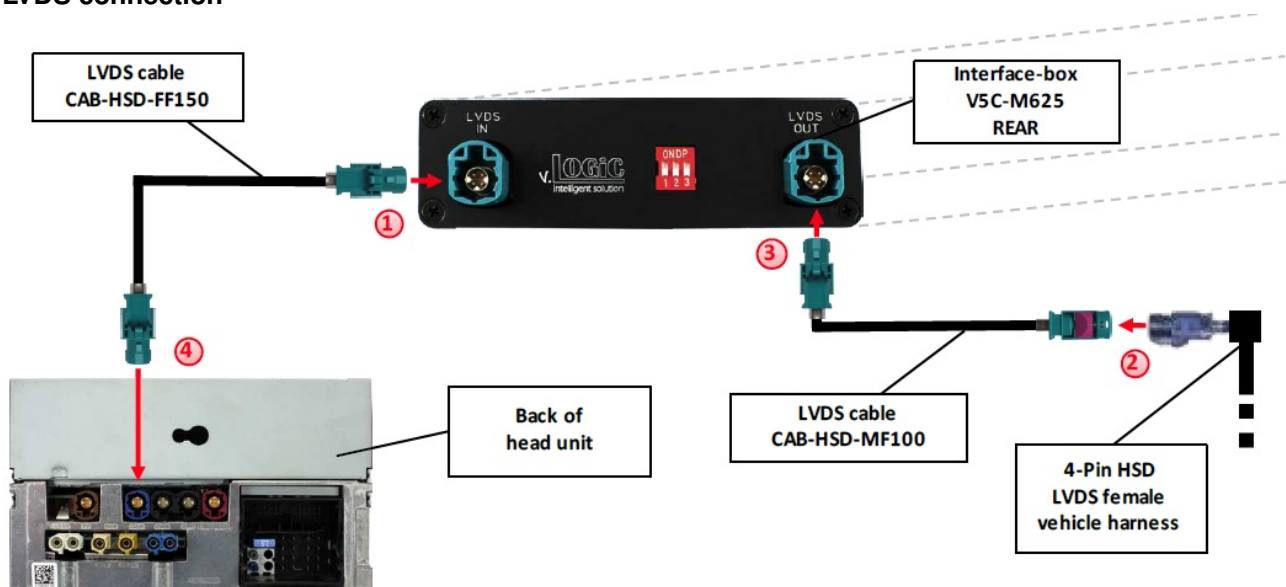
Switch off the ignition and disconnect the vehicle's battery! The interface needs a permanent 12V source. If according to factory rules disconnecting the battery is to be avoided, it is usually sufficient to put the vehicle in sleep mode. In case the sleep mode does not show success, disconnect the battery with a resistor lead. If a power source is not taken directly from the battery, the connection has to be checked for being start-up proven and permanent. Prior to wire and device installation, we suggest connecting and test the correct function of all after-market and factory infotainment equipment! The interface is installed on the backside of the head unit.

Connecting interface box and harnesses



1. Remove the female Quadlock connector of the vehicle harness from the rear of the navigation computer.
2. Remove optical leads from the female Quadlock connector of the vehicle harness and insert them into the female Quadlock connector of harness TV-MBN5 at the same position.
3. Connect the female Quadlock connector of the vehicle harness to the male Quadlock connector of harness TV-MBN5.
4. Connect the female Quadlock connector of harness TV-MBN5 to the male Quadlock connector of the navigation computer
5. Connect the female 8-pin molex connector of the harness TV-MBN5 to the male 8-pin molex connector of the harness TV-MBN5.
6. Connect the female 12pin AMP connector of the harness TV-MBN5 to the front side of the V5C-M625 interface box.

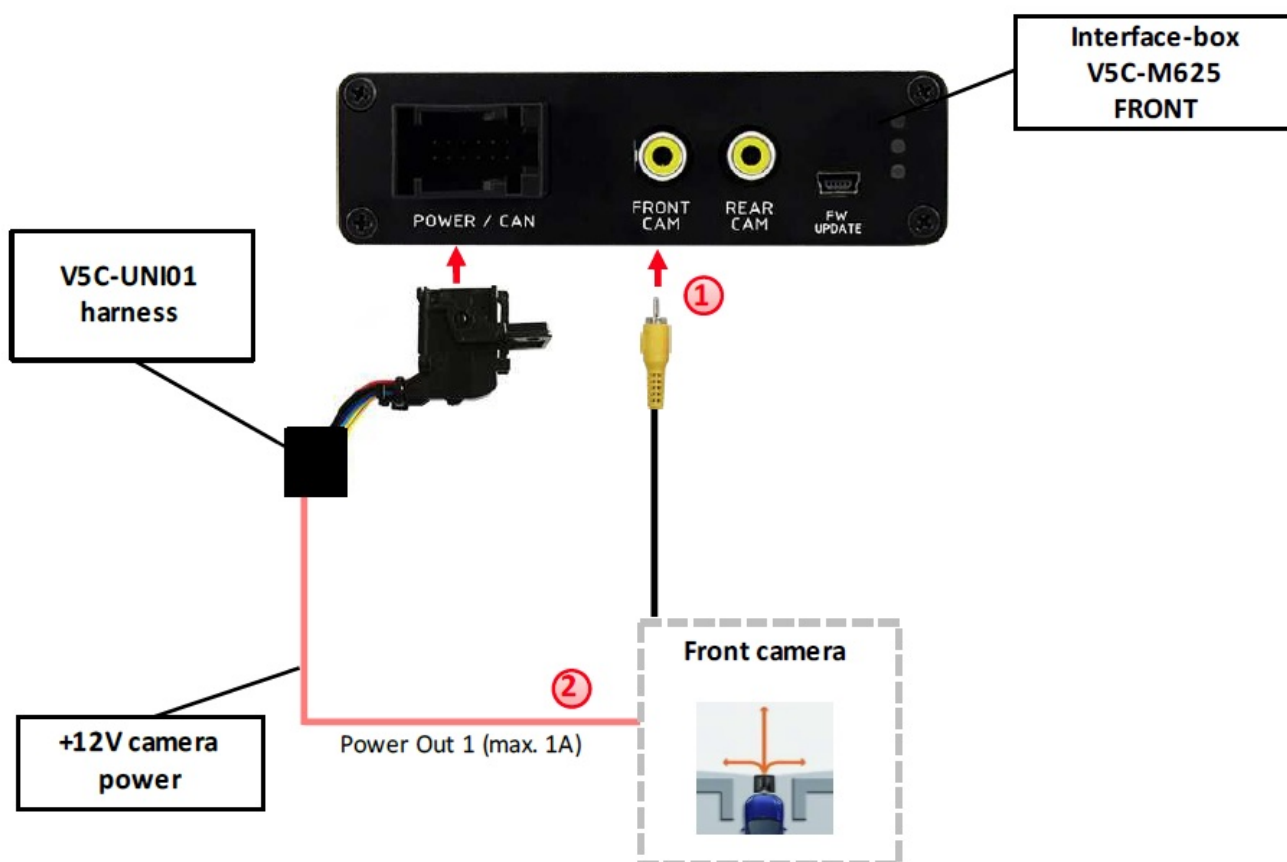
LVDS connection



1. Connect the female 4pin HSD LVDS connector of the LVDS cable CAB-HSD-FF150 to the male 4-pin HSD LVDS connector (LVDS-IN) on the rear of the interface box V5C-M625.
2. Remove the blue female 4-pin HSD LVDS connector of the vehicle harness at the back of the head unit and connect it to the male 4-pin HSD LVDS of the CAB-HSD-MF100 LVDS cable.
3. Connect the female 4-pin HSD LVDS connector of the LVDS cable CAB-HSD-MF100 to the male 4pin HSD LVDS connector (LVDS-OUT) on the rear of the interface box V5C-M625.
4. Connect the female 4-pin HSD LVDS connector of the LVDS cable CAB-HSD-FF150 to the pink male 4-pin HSD LVDS connector on the rear of the head unit.

After-market front camera

Connection to the after-market front camera



1. Connect the video RCA of the after-market front camera to the female RCA connector “FRONT CAM” of the interface box V5C-M625.
2. The pink wire of harness V5C-UNI01 can be used for +12V electric power supply (max. 1A) of the after-market front camera. Configure in the OSD menu “OPTION”, menu item “POWER OUT 2” the designated electric power supply (see chapter “Configurable switching outputs”).



Settings for connecting an after-market front camera

You have to configure some settings in the OSD-menus INPUTS and MISC if you want to connect an after-market front camera (Operation of the OSD: see chapter “OSD-Operation”).

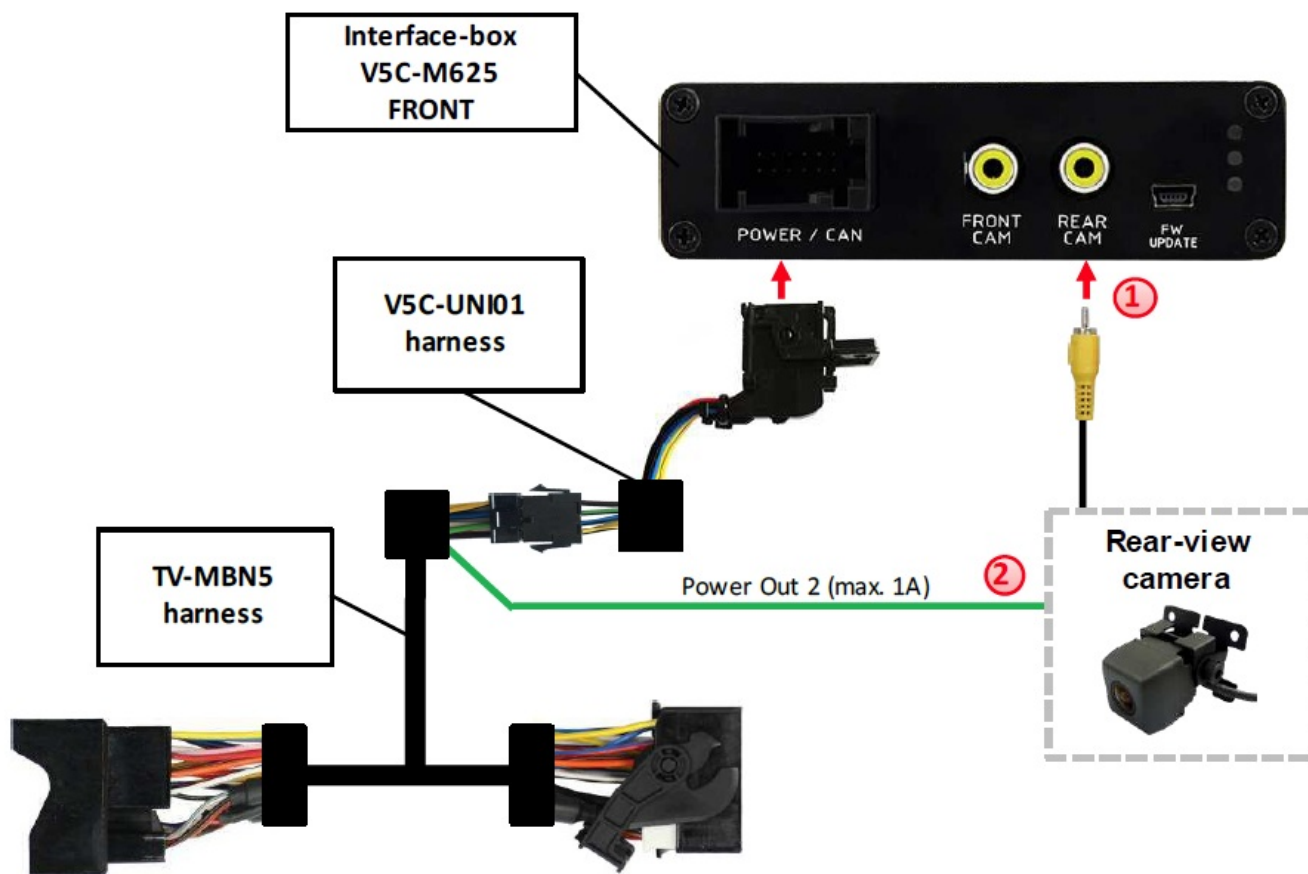


OSD-menu	Menu item	Setting	Explication
INPUT	FVC	OFF	Keine Frontkamera angeschlossen
		ON	Switches to front camera if parking process is enabled and reverse gear is released
OPTION	PARK LOGIC	RGearOnly	Enabled while parking process
		RGearSpeed	Enabled while parking process and up to 30 km/h
		RGearTime	Enabled while parking process and up to 20 second

Note: You can deactivate the enabled parking process by pressing the “hands-free mode OFF” or “right arrow” button on the steering wheel. After deactivation, you can’t enable the parking process again until the vehicle is driving faster than 30km/h or the ignition is switched off.

After-market rear-view camera

Connection to the after-market rear-view camera



1. Connect the video RCA of the after-market rear-view camera to the female RCA connector "REAR CAM" of the interface box V5C-M625.
2. The green wire of harness TV-MBN5 can be used for a +12V electric power supply (max. 1A) of the aftermarket rear-view camera. Configure in the OSD menu "OPTION", menu item "POWER OUT 2" the designated electric power supply (see chapter "Configurable switching outputs").



Settings for connecting an after-market rear-view camera

You have to configure some settings in the OSD-menus **INPUT** and **OPTION** if you want to connect an after-market rear-view camera (Operation of the OSD: see chapter "OSD operation")



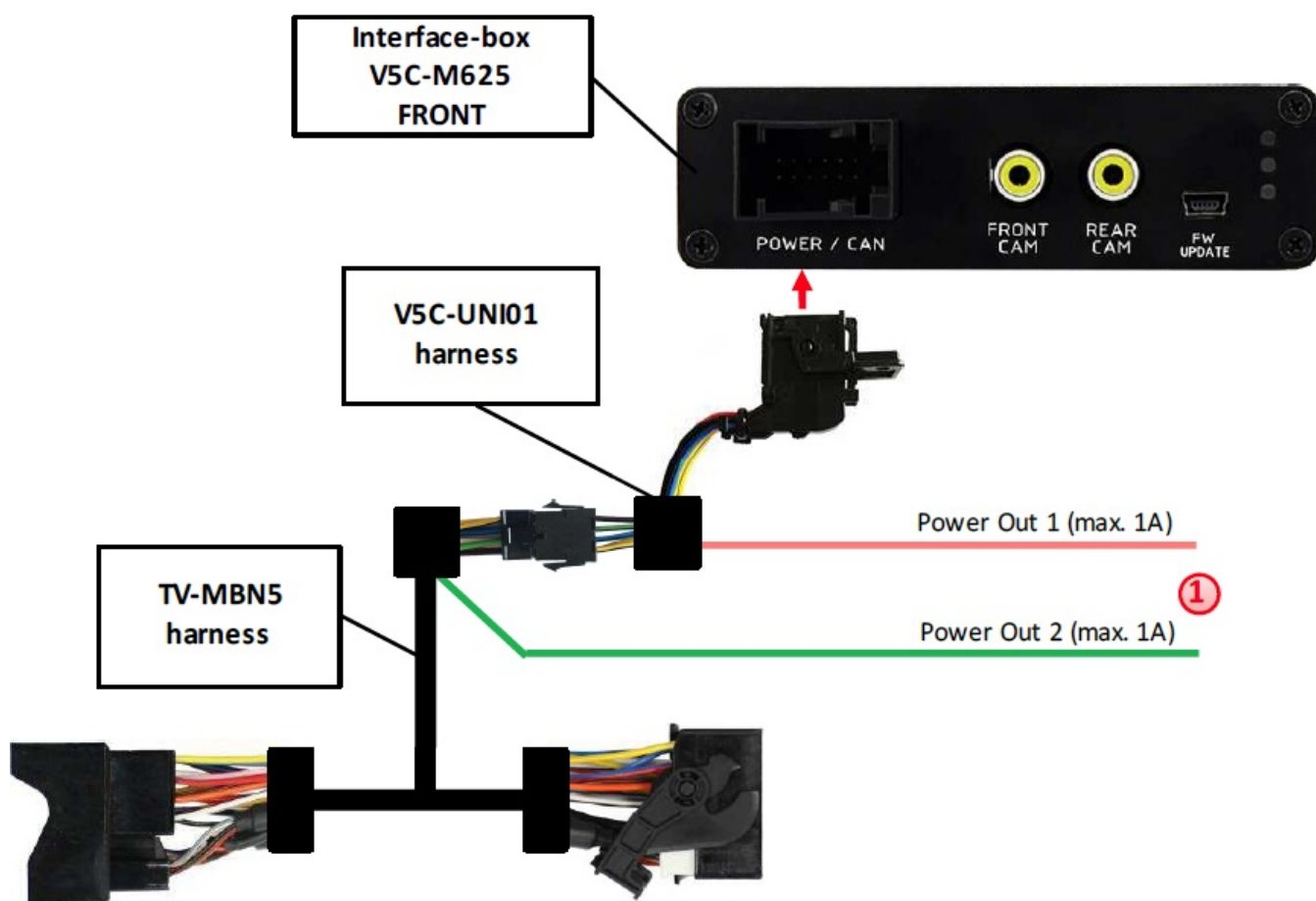
OSD-menu	Menu item	Setting	Explication
INPUT	RVC	OFF	No rear-view camera connected
		ON	Switches to the rear-view camera, if reverse gear is engaged and/or PDC-display, is displayed
OPTION	PARK LOGIC	RGearOnly	Enabled while parking process
		RGearSpeed	Enabled while parking process and up to 30 km/h
		RGearTime	Enabled while parking process and up to 20 seconds
	RVC GRAPHIC	OFF	Interactive lane lines deactivated
		LINES	Interactive lane lines activated

Note: You can deactivate the enabled parking process by pressing the “hands-free mode OFF” or “right arrow” button on the steering wheel. After deactivation, you can’t enable the parking process again until the vehicle is driving faster than 30km/h or the ignition is switched off.

Settings for OEM rear-view camera

OSD-menu	Menu item	Setting	Explication
INPUT	RVC	OEM	If a factory rear-view camera is existing! The interface turns off if reverse gear is enabled and it displays the factory rear-view camera
OPTION	PARK LOGIC	RGearSpeed	Enabled while parking process and up to 30 km/h

Configurable trigger outputs



1. You can configure both +12V trigger outputs separately. The pink wire is POWER OUT 1 and the green wire is POWER OUT 2.

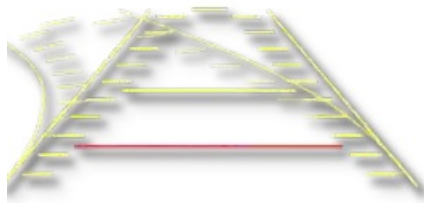
Note: You can configure both trigger outputs in the OSD-menu OPTION separately (Operation of the OSD: see chapter "OSD-Operation").



OSD-menu	Menu item	Setting	Explication
OPTION	POWER OUT1 (pink) POWER OUT2 (green)	CAN	+12V when the interface is on (red LED on)
		ACC	+12V when ignition is on
		CAM	+12V when the rear-view camera input is activated
		RGEAR	+12V when the reverse gear is engaged
		AVS	+12V when interface video source is active
		OFF	Trigger output deactivated

Interactive lane lines

You have to configure some settings in the OSD-menu OPTION if you want to activate interactive lane lines (Operation of the OSD: see chapter “OSD-Operation”).



OSD-menu	Menu item	Setting	Explication
OPTION	RVC GRAPHIC	OFF	Interactive lane lines deactivated
		LINES	Interactive lane lines activated
	CAR TYPE	A/B/C/CLA/CLS/ E/ G/GLA/GLC/ GLE/ GLS/SL/SLC/ V/VIT O/	Vehicle type selection

Picture settings

You can change the picture settings in the OSD-menu IMAGE (activation only from interface video level possible).

- Brightness
- Contrast
- Saturation
- Hue
- Sharpness

Note: The picture settings will be retained for each AV source separately.

Operation

OSD – On-screen display

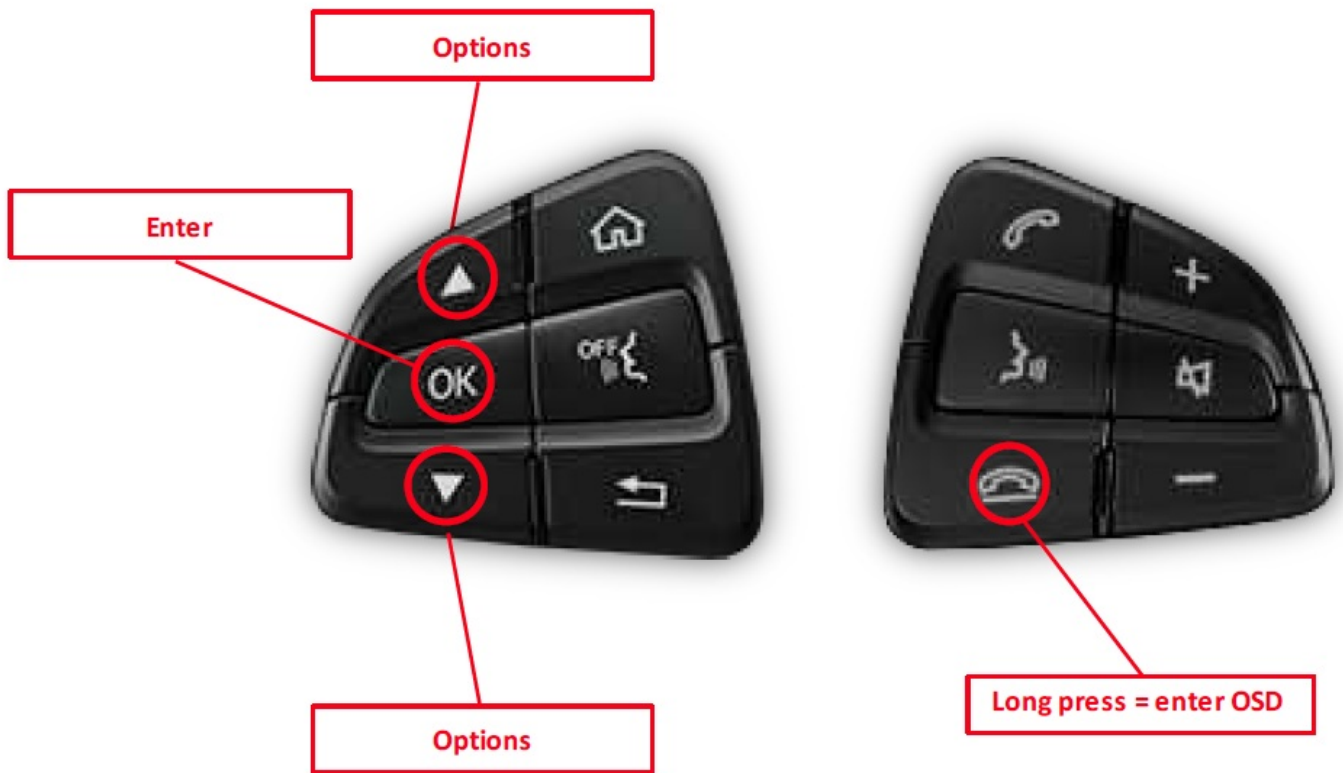
You can change the basic configurations of the interface in the OSD (on-screen display).



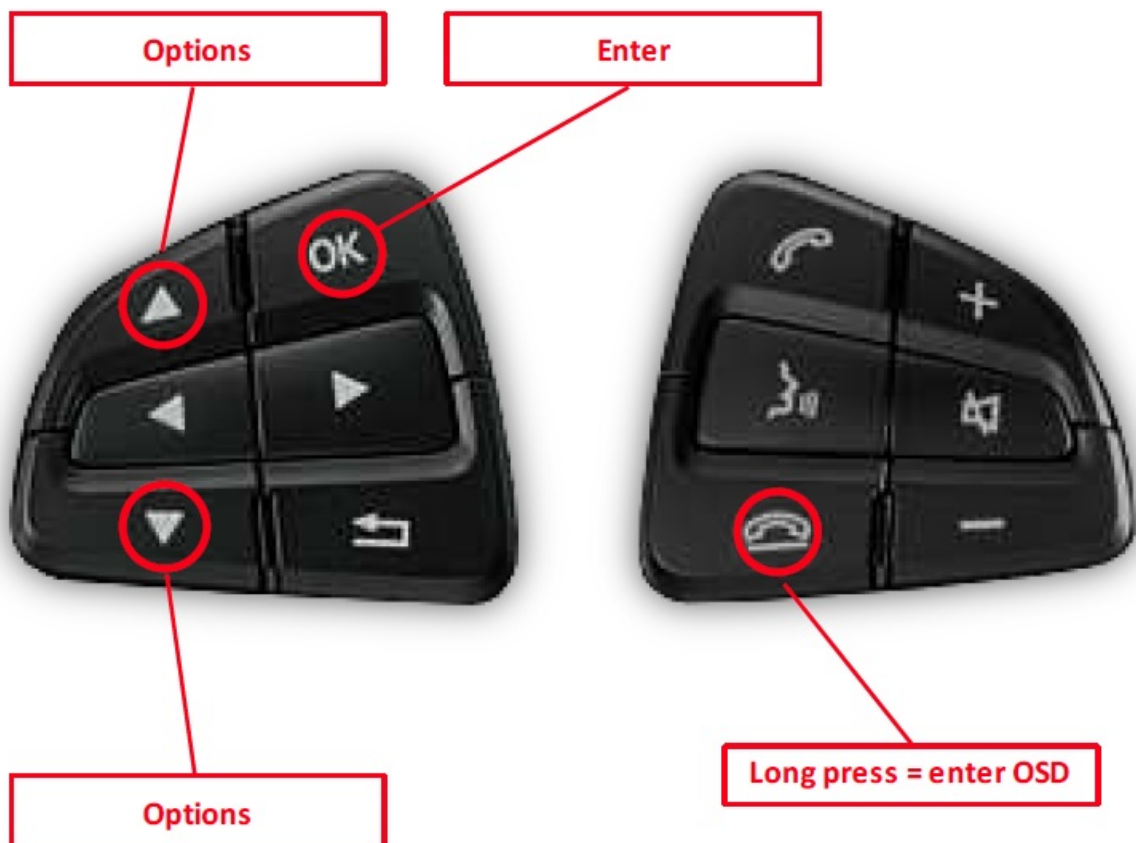
OSD – Operation

You can control the OSD by steering wheel buttons. Set the “radio level” in the instrument cluster before you start the OSD control.

Mercedes steering wheel version 1



Mercedes steering wheel version 2



OSD – Additional setting options

The following settings in the OSD-menus OPTION and OSD can be configured over and above the described settings in this manual (Operation of the OSD: see chapter “OSD-Operation”):



OSD-menu	Menu item	Setting	Explication
OSD	POS. X	0-xxx	Horizontal position of the OSD
	POS. Y	0-xxx	The vertical position of the OSD
	SIZE	SMALL	Small OSD menu windows
		LARGE	Large OSD menu windows
	OSD TIMEOUT	2-20	Time setting for automatic OSD shutoff
INFO	VERSION	X.XX.XX	Displays the current SW-version
OPTION	FACTORY RESET		Resetting to factory settings

Video-in-motion function

It is possible to activate and deactivate the video-in-motion in the OSD menu “OPTION” (Operation of the OSD: see chapter “OSD-Operation”).



OSD-menu	Menu item	Setting	Explication
OPTION	VIM	ON	Video-in-motion activated
		OFF	Video-in-motion deactivated

For the V5-NTG5-PNP the video-in-motion function is permanently active without disturbing the navigation performance.

Selecting the interface as current video source



Long press “hands-free mode OFF” respectively and long press the “right arrow” button to choose the interface as the current video source.

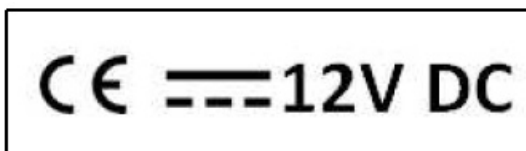
Short press the “hang-up” button switch the video sources (cameras). Each short press will switch to the next enabled input. If all inputs are enabled the order is:

FRONT CAM → REAR CAM → ...

Inputs that are not enabled are skipped.

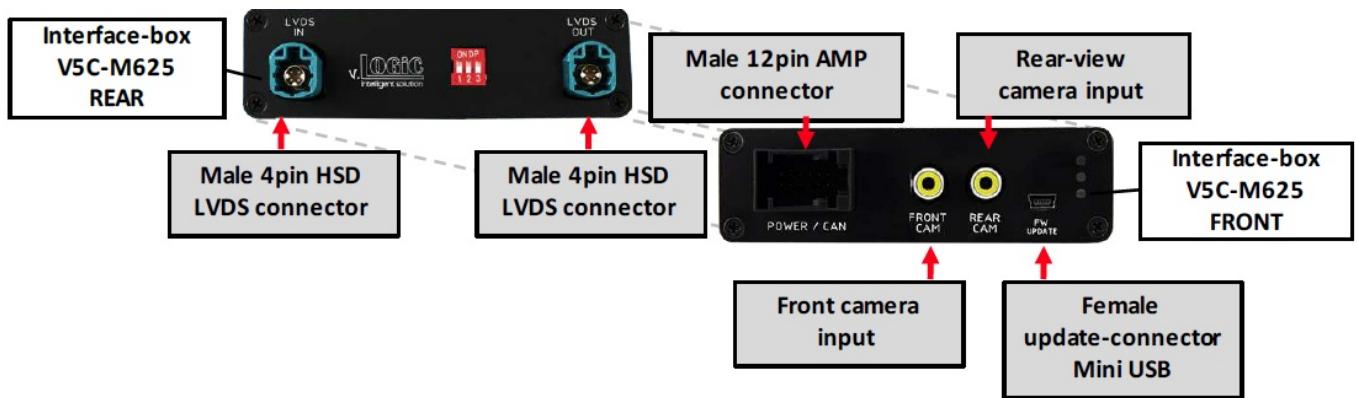
Specifications

- Operation voltage 10.5 – 14.8V DC
- Stand-by power drain <0,1mA
- Operation power drain 190mA
- Power consumption 2,6W
- Temperature range -20°C to +80°C
- Weight (box only) 285g
- Measurements (box only) B x H x T 141 x 30 x 105 mm



Connections

(interface-box)



Technical Support

- CAS GmbH
- manufacturer/distribution
- In den Fuchslöchern 3
- D-67240 Bobenheim-Roxheim
- email support@casgermany.com

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Documents / Resources

	<p>CARAUDIO-SYSTEMS V5-NTG5-PNP V.LOGiC Intelligent Solution [pdf] Owner's Manual V5-NTG5-PNP, V5C-M625, V5-NTG5-PNP V.LOGiC Intelligent Solution, V5-NTG5-PNP, V.LOGiC Intelligent Solution, Intelligent Solution, Solution</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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