

v.LOGiC Intelligent Solution Interface

CI-V6-NTG6-26

Compatible with 7" and 10.25"
MBUX systems with 26pin socket
in Mercedes vehicles



Product features

- Interactive lane lines with calibration function
- Own on-screen display and setup
- Rear-view camera input
- Automatic switching to rear-view camera input on engagement of reverse gear from all operation modes
- Front camera input
- Side camera inputs
- Side- or front camera activation via blinker signal
- Manual switching to cameras
- 2 trigger outputs (+12V max. 1A), separately adjustable switching events (CAN, ACC, camera, reverse gear)
- Compatible with all factory video accessories
- USB update-port for software-updates by consumer
- Plug&Play installation for MBUX systems with 26 pin socket

Contents

Page

LISURISIM

1. Prior to Installation

- 1.1. Delivery contents
- 1.2. Check compatibility of vehicle and accessories
- 1.3. Setting the dip switches of the interface-box V6C-M626-SP
- 1.4. LED's of the interface-box V6C-M626-SP

2. Connection schema

3. Installation

- 3.1. Connecting interface-box and harnesses on MBUX systems with 26 pin socket
- 3.2. GMSL connection
- 3.2.1. After-market front camera
- 3.2.1.1. Connection to the after-market front camera
- 3.2.1.2. Settings for connecting an after-market front camera
- 3.2.2. After-market wide view front camera
- 3.2.2.1. Connection to the after-market wide view front camera
- 3.2.2.2. Settings for connecting an after-market wide view front camera
- 3.2.3. After-market side view cameras
- 3.2.3.1. Connection of the after-market side view cameras
- 3.2.3.2. Settings for connecting of after-market side view cameras
- 3.2.4. After-market rear-view camera
- 3.2.4.1. Connection to the after-market rear-view camera
- 3.2.4.2. Settings for connecting an after-market rear-view camera
- 3.2.4.3. Settings for OEM rear-view camera
- 3.2.5. Configurable trigger outputs
- 3.3. Interactive lane lines
- 3.3.1. Interactive lane lines settings
- 3.4. Picture settings

4. Operation

- 4.1. Main OSD On-screen display
- 4.1.1. OSD Operation
- 4.1.1.1. Mercedes steering wheel version 1
- 4.1.1.2. Mercedes steering wheel version 2
- 4.1.1.3. Mercedes steering wheel version 3
- 4.1.2. OSD Additional setting options
- 4.2. Selecting the interface as current video source
- 4.2.1. Mercedes steering wheel version 1
- 4.2.2. Mercedes steering wheel version 2

5. Specifications

6. Connections (interface-box)

Page 2



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. 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 cost for and other expenses involved with the software-updates will not be refunded.

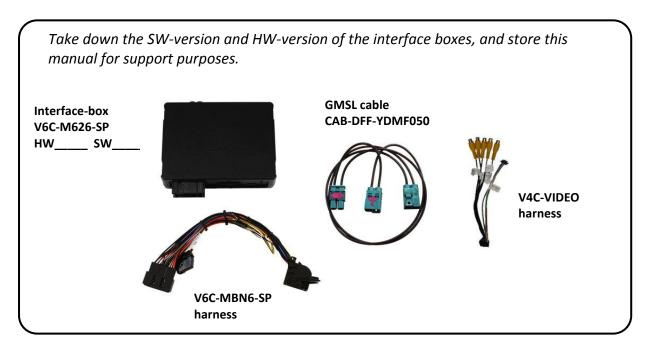
 $P_{age}3$



1. 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.

1.1. Delivery contents



1.2. Check compatibility of vehicle and accessories

Brand	Compatible vehicles	Compatible systems
M ercedes	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 GLC Class (X253) since model year 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 V-Class (W447) since model year 2019	MBUX with 26 pin socket: 7" screen with navigation 10.25" screen

1.3. Setting the dip switches of the interface-box V6C-M626-SP

 $_{\rm Page}4$



Dip switches on the back of the interface-box V6C-M626-SP are used to set the monitor type. The default setting is:

Head unit	Dip 1	Dip 2	Dip 3
7" NTG6 screen	OFF	OFF	OFF
10.25" NTG6 screen	ON	OFF	OFF

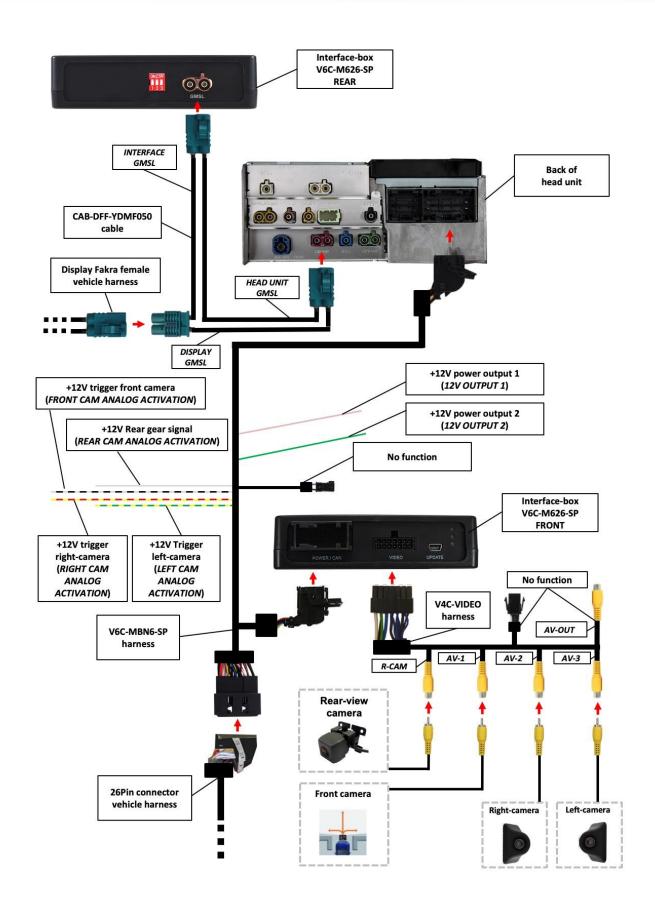
After each change of the dip switch settings you have to execute a power reset of the interface-box!

1.4. LED's of the interface-box V6C-M626-SP



2. Connection scheme

Page 5



3. Installation

 $_{
m Page}$

LISUNUSIM

Switch off 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 is sleep-mode. In case the sleep-mode does not show success, disconnect the battery with a resistor lead.

If power source is not taken directly from the battery, the connection has to be checked for being start-up proven and permanent.

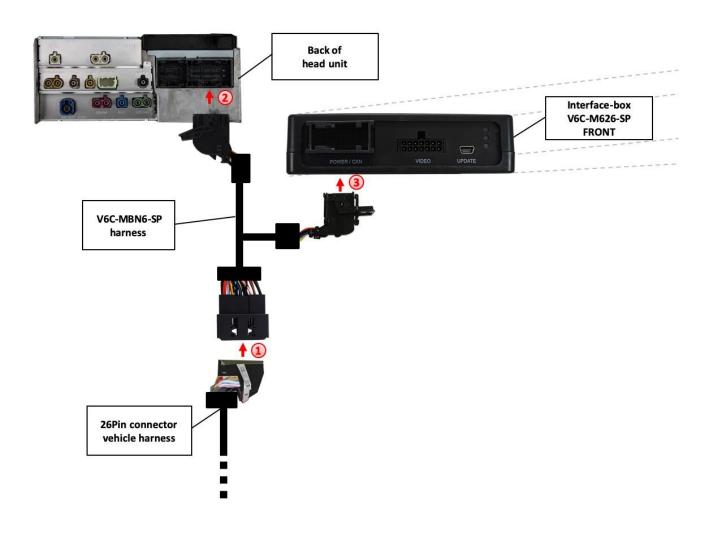
Prior to wire and device installation we suggest to connect and test correct function of all after-market and factory infotainment equipment!

The interface is installed on the backside of the head unit.

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

GLE: Under the passenger seat Sprinter: Behind the factory monitor

3.1. Connecting interface box and harnesses on MBUX systems with 26 pin socket

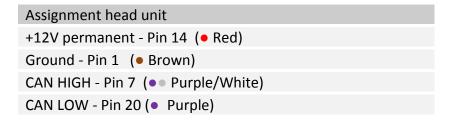




Remove the female 26pin connector of the vehicle harness from the rear of the navigation computer and connect it to the male 26pin socket of the V6C-MBN6-SP harness.

- Connect the female 26pin connector of V6C-MBN6-SP harness to the male 26pin socket of the navigation computer.
- Connect female 18pin AMP connector of the harness V6C-MBN6-SP to the front site of the V6C-M626-SP interface box.

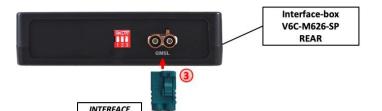
Connection assignment 26pin head unit connector:





26pin head unit connector

3.2. GMSL connection



LISURISIM

- Remove the GMSL pink-bordeaux coloured female double Fakra connector of the vehicle harness at the back of the head unit and connect it to the male double Fakra socket (*DISPLAY GMSL*) of the CAB-DFF-YDMF050 GMSL cable.
- Connect the female double Fakra connector (*HEAD UNIT GMSL*) of the GMSL cable CAB-DFF-YDMF050 to the pink-bordeaux coloured double male Fakra socket on the rear of the head unit.
- 3 Connect the double female Fakra connector (*INTERFACE GMSL*) of the CAB-DFF-YDMF050 GMSL cable to the double male Fakra socket (GMSL) on the rear of the interface box V6C-M626-SP.

3.2.1. After-market front camera

3.2.1.1. Connection to the after-market front camera

 $_{\rm Page}9$

Interface-box

V6C-M626-SP FRONT

LISUNISIM

- Connect the video RCA of the after-market front camera to the female RCA connector "AV-1" of the V4C-VIDEO harness.
- The pink wire (12V OUTPUT 1) of harness V6C-MBN6-SP can be used for +12V electric power supply (max. 1A) of the after-market front camera. Configure in the OSD-menu "Option 1", menu item "Power Out 1" the setting "CAM" (see also chapter "Configurable switching outputs").



3.2.1.2. Settings for connecting an after-market front camera

 $_{\rm Page}10$



You have to configure some settings in the OSD-menus Inputs, Option 1 and Option 2 if you want to connect an after-market front camera (Operation of the OSD: see chapter "OSD-Operation").







OSD-menu	Menu item	Setting	Explication
		OFF	Front camera deactivated
Input	FVC	ON	Switches to front camera if parking process is enabled and reverse gear is released
		RGearOnly	Enabled while parking process (not suitable for front camera operation)
Option 1	Park Logic	Speed_Time	Enabled while parking process and up to e.g. 10km (speed adjustable) or up to 20 second
Option 2	R/F Cam Till	XX	Speed setting for deactivating of the camera image

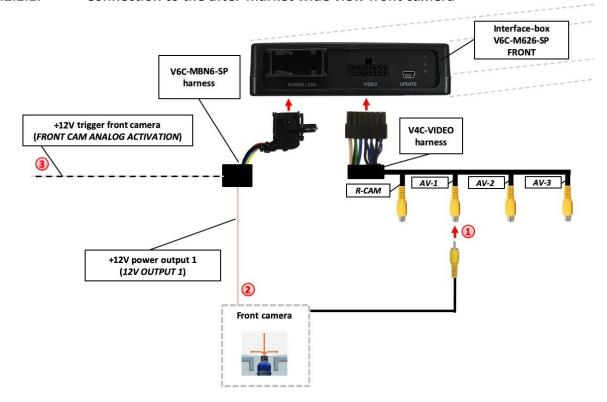
Note: You can deactivate the camera image by long pressing the "Back" button on steering wheel (right steering wheel side).

Page 1



3.2.2. After-market wide view front camera

3.2.2.1. Connection to the after-market wide view front camera



- Connect the video RCA of the after-market wide view front camera to the female RCA connector "AV-1" of the V4C-VIDEO harness.
- The pink wire (12V OUTPUT 1) of harness V6C-MBN6-SP can be used for +12V electric power supply (max. 1A) of the after-market front camera. Configure in the OSD-menu "Option 1", menu item "Power Out 1" the setting "CAM" (see also chapter "Configurable switching outputs").



Exception: Connect the white/black wire of harness V6C-MBN6-SP to the right and left analogue blinker signals (triggered +12V blinker power) and make the menu setting - Option 2 / Cam Trigger - "Analogue", if the system doesn't switch to the aftermarket wide view front camera automatically after the described OSD-setup (Option 2 / Cam Trigger - "CAN", see next chapter).

3.2.2.2. Settings for connecting an after-market wide view front camera

Page 12



For the use of a wide view front camera, the interface offers not only manual activation, but also activation via the blinker function. Note: via CAN bus blinker signal detection (menu: Option 2 / Cam Trigger - "CAN"), the activation does not take place in "blinker comfort mode" (brief touch of the blinker lever).

You have to configure some settings in the OSD-menus Inputs, Option 1 and Option 2 if you want to connect an after-market front camera (Operation of the OSD: see chapter "OSD-Operation").







OSD-menu	Menu item	Setting	Explication
		OFF	Front camera deactivated
Input	FVC	ON	Switches to front camera if parking process is enabled and reverse gear is released
		RGearOnly	Enabled while parking process (not suitable for front camera operation)
Option 1	Park Logic	Speed_Time	Enabled while parking process and up to e.g. 10km (speed adjustable) or up to 20 second
Option 2	R/F Cam Till	XX	Speed setting for deactivating of the camera image
Option 2	F/S Cam From	XX	Speed range setting for front- and side cameras (minimum)
Option 2	F/S Cam Till	XX	Speed range setting for front- and side cameras (maximum)
Option 2	Blinker Mode	Front Cam	Activation of the front camera image when the blinker is activated
Option 2 Cam Trigger		CAN	Rear gear and blinker signal detection over CAN Bus
	Analogue	Rear gear and blinker signal detection over analogue +12V signals	

Notes: The camera activation via the blinker mode is only available for front camera <u>or</u> for the side view cameras. A parallel use of this function for all cameras is not possible.

3.2.3. After-market side view cameras

 $_{
m Page}13$

FRONT



3.2.3.1. Connection of the after-market side view cameras

- Connect the video RCA of the right side view camera to the female RCA connector "AV-2" and the video RCA of the left side view camera to the female RCA connector "AV-3" of the V4C-VIDEO harness.
- The pink wire (12V OUTPUT 1) of harness V6C-MBN6-SP can be used for +12V electric power supply (max. 1A) of the after-market side cameras. Configure in the OSD-menu "Option 1", menu item "Power Out 1" the setting "CAM" (see also chapter "Configurable switching outputs").



3 Exception: Connect the yellow/red wire to the right analogue blinker signal and the yellow/green wire to the left analogue blinker signal of harness V6C-MBN6-SP (triggered +12V blinker power) and make the menu setting - Option 2 / Cam Trigger - "Analogue", if the system doesn't switch to the aftermarket side view camera automatically after the described OSD-setup (Option 2 / Cam Trigger - "CAN", see next chapter).

3.2.3.2. Settings for connecting of after-market side view cameras

 $_{\rm Page}14$



For the use of side view cameras, the interface offers not only manual activation, but also activation via the blinker function. Note: via CAN bus blinker signal detection (menu: Option 2 / Cam Trigger - "CAN"), the activation does not take place in "blinker comfort mode" (brief touch of the blinker lever).

You have to configure some settings in the OSD-menus Inputs, Option 1 and Option 2 if you want to connect an after-market front camera (Operation of the OSD: see chapter "OSD-Operation").







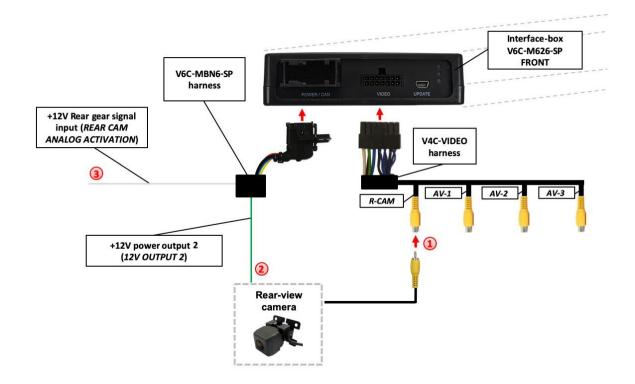
OSD-menu	Menu item	Setting	Explication
lanut	Right VC	ON	Right camera input activated
Input	Left VC	ON	Left camera input activated
		RGearOnly	Enabled while parking process (not suitable for front camera operation)
Option 1	Park Logic	Speed_Time	Enabled while parking process and up to e.g. 10km (speed adjustable) or up to 20 second
Option 2	R/F Cam Till	XX	Speed setting for deactivating of the camera image
Option 2	F/S Cam From	XX	Speed range setting for front- and side cameras (minimum)
Option 2	F/S Cam Till	XX	Speed range setting for front- and side cameras (maximum)
Option 2	Blinker Mode	Side Cam	Activation of the side view cameras image when the blinker is activated
Ontion 2		CAN	Rear gear and blinker signal detection over CAN Bus
Option 2 Cam Trig	Cam Trigger	Analogue	Rear gear and blinker signal detection over analogue +12V signals

Notes: The camera activation via the blinker mode is only available for front camera <u>or</u> for the side view cameras. A parallel use of this function for all cameras is not possible.

3.2.4. After-market rear-view camera

3.2.4.1. Connection to the after-market rear-view camera

 2 age 15



- Connect the video RCA of the after-market rear-view camera to the female RCA connector "R-CAM" of the V4C-VIDEO harness.
- The green wire (12V OUTPUT 2) of harness V6C-MBN6-SP can be used for +12V electric power supply (max. 1A) of the after-market rear-view camera. Configure in the OSD-menu "Option 1", menu item "Power Out 2" the setting "CAM" (see also chapter "Configurable switching outputs").



Exception: Connect the white wire of harness V6C-MBN6-SP to analogue rear gear signal (+12V) and make the menu setting - Option 2 / Cam Trigger - "Analogue", if the system doesn't switch to the aftermarket rear-view camera automatically after the described OSD-setup (Option 2 / Cam Trigger - "CAN", see next chapter).

3.2.4.2. Settings for connecting an after-market rear-view camera

 $P_{\rm age}16$



You have to configure some settings in the OSD-menus Inputs, Option 1 and Option 2 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
		OFF	Rear-view camera deactivated
Input	RVC	ON	Switches to rear-view camera if reverse gear is engaged or PDC is activate
		RGearOnly	Enabled while parking process (not suitable for front camera operation)
Option 1	Park Logic	Speed_Time	Enabled while parking process and up to e.g. 10km (speed adjustable) or up to 20 second
Option 1	RVC Lines	ON	Interactive lane lines activated
Option 2	R/F Cam Till	XX	Speed setting for deactivating of the camera image
Option 2	Cam Trigger	CAN	Rear gear and blinker signal detection over CAN Bus
		Analogue	Rear gear and blinker signal detection over analogue +12V signals

Note: You can deactivate the camera image by long pressing the "Back" button on steering wheel (right steering wheel side).

3.2.4.3. 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 factory rear-view camera
Option 1	Park Logic	Speed_Time	Enabled while parking process and up to e.g. 10km (speed adjustable) or up to 20 second
Option 2	R/F Cam Till	XX	Speed setting for deactivating of the camera image

3.2.5. Configurable trigger outputs



+12V power output 2



You can configure the both +12V trigger outputs separately. The pink wire is (12V OUTPUT 1) is Power Out 1 and the green wire is (12V OUTPUT 2) is Power Out 2.

Note: You can configure the both trigger outputs in the OSD-menu Option 1 separately (Operation of the OSD: see chapter "OSD-Operation").

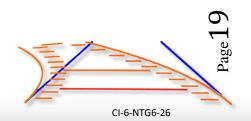


OSD-menu	Menu item	Setting	Explication
	Power Out 1 (pink)	CAN	+12V when the interface is on (red LED on)
		ACC	+12V when ignition is on
0071011		CAM	+12V when camera input is activated (manually or automatically)
OPTION	Power Out 2	RGear	+12V when reverse gear is engaged
	(green)	AVS	+12V when camera / video input was manually activated
		OFF	Trigger output deactivated

Tip: We recommend for all camera modes the power out setting "<u>CAM</u>" and for AV source the power out setting "<u>AVS</u>" or "<u>ACC</u>".

3.3. Interactive lane lines

You have to configure some settings in the OSD menu Option 1 if you want to activate interactive lane lines



Version 10.05.2022



(Operation of the OSD: see chapter "OSD-Operation").



OSD-menu	Menu item	Setting	Explication
	RVC Lines	OFF	Interactive lane lines deactivated
Option 1		ON	Interactive lane lines activated
	Car Type	Sprinter / Others	Vehicle type selection

3.3.1. Interactive lane lines settings

The height and width of the interactive lane lines can be set in the OSD menu. For this setting you must at first activate the rear-view camera level and push then the "HOME" steering wheel button for 3sec. (right steering wheel side) to activate the settings menu. With the "VOL" volume steering wheel button you can select the menu point "Line Height" to change the height of the interactive lane lines and with menu point "Line Width" the width of the lines. Over the menu point "Exit" you can leave this settings menu.



3.4. Picture settings

The camera picture settings can be set in the OSD menu. For this setting you must at first activate the camera level and push then the "HOME" steering wheel button for 3sec.



(right steering wheel side) to activate the settings menu. With the **VOL**" volume steering wheel button you can select and change the "Brightness", "Contrast", "Saturation", Hue" and "Sharpness" menu points. Over the menu point "Exit" you can leave this settings menu.

Note: The picture settings will be retained for every camera input separately.



4. Operation

4.1. Main OSD On-screen display

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



4.1.1. OSD – Operation

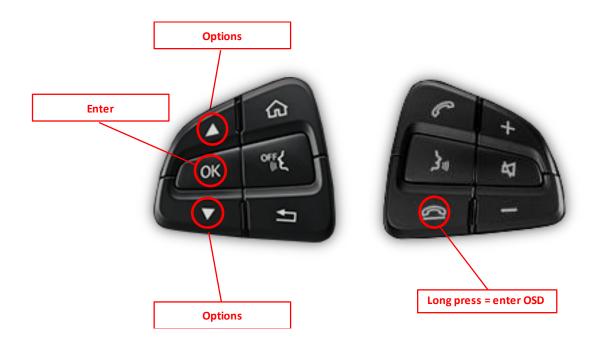
The OSD menu can be controlled via the following buttons:

4.1.1.1. Mercedes steering wheel version 1

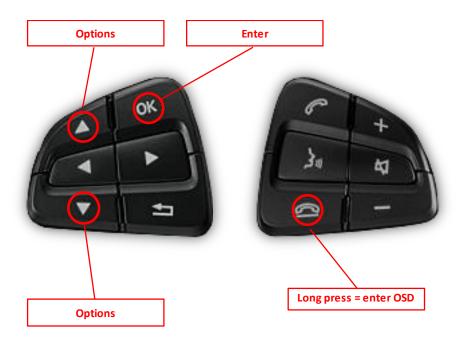


4.1.1.2. Mercedes steering wheel version 2

Page 27



4.1.1.3. Mercedes steering wheel version 3



4.1.2. OSD – Additional setting options

Page 23

CI-6-NTG6-26



The following settings in the OSD menus Option 1 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
	POS. X	0-xxx	Horizontal position of the OSD
	POS. Y	0-xxx	Vertical position of the OSD
Osd	Size	Small	Small OSD menu windows
	3126	Large	Large OSD menu windows
	Osd TimeOut	2-20	Time setting for automatic OSD shutoff
CAN	Bridge speed		CAN bus connection status
Info	Version	X.XX.XX	Displays the current SW-version
Option 1	Factory Reset		Resetting to factory settings

4.2. Selecting the interface as current video source

4.2.1. Mercedes steering wheel version 1



Press long "STAR" button to choose the interface as current video source.

Short press "STAR" button switch the video sources (cameras/AV sources). Each short press will switch to the next enabled input. If all inputs are enabled the order would be as follows:

Rear CAM \rightarrow Front CAM \rightarrow Right Cam/AV1 \rightarrow Left Cam/AV2 \rightarrow ...

Inputs which are not enabled are skipped.

The exiting of the interface camera/video level is achieved by **long press** of "STAR" button.

4.2.2. Mercedes steering wheel version 2



Long press "handsfree mode OFF" respectively **long press "right arrow" button** to choose the interface as current video source.

Short press "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 which are not enabled are skipped.

5. Specifications

Sage 2

LISURISIM

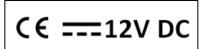
Operation voltage 10.5 – 14.8V DC

Stand-by power drain 1mA
Operation power drain 190mA
Power consumption 2,6W

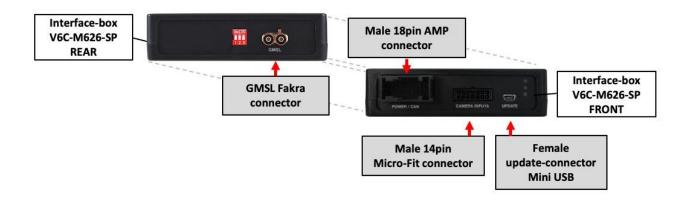
Temperature range -20°C to +80°C

Weight (box only) 285g

Measurements (box only) B x H x T 141 x 30 x 105 mm



6. Connections (interface-box)



Legal disclaimer: Mentioned company and trademarks, as well as product names/codes are registered trademarks ® of their corresponding legal owners.