

v.LOGiC Interface

V4-CIC-E

Compatible with the E-series BMW and Mini with navigation system or radio and 6.5" or 8.8" monitor with 4pin HSD LVDS connector

V4-CIC-F

Compatible with the F-series BMW with navigation system or radio and 7" or 10.2" monitor with 4pin HSD LVDS connector



Product features

- Plug and play media-controller with controls by factory infotainment (iDrive)
- Own on-screen display and setup
- No coding of vehicle/factory-infotainment necessary
- On 8.8" and 10.2" 24:10 ultrawide monitor 6 picture format modes (2 split-modes with factory video, 4:3, 16:9, full screen and zoom)
- On 6.5" and 7" 16:9 monitor 3 picture format modes (4:3, full screen and zoom)
- 3 AV-inputs
- Controls of after-market devices (e.g. DVD-player, DVD-changer, ...) by factory infotainment (iDrive, see STA + Database for supported devices)
- 2 trigger outputs (+12V max. 1A), separately adjustable switching events (CAN, ACC, rear-view camera, reverse gear, external navigation)
- Video-in-motion (for V4-CIC-F only for video-sources connected to the v.LOGiC)
- Rear-view camera input
- Automatic switching to rear-view camera input on engagement of reverse gear from all operation modes
- AV3 can be used for front camera, automatic on parking operation, automatic return at 20km/h
- Manual switching to rear-view camera (only for vehicles with PDC button)
- Manual return from rear-view and front camera (cancellation of automatic switching)
- Picture-in-picture mode combining after-market rear-view and front camera picture(s) with factory parking sensor graphics
- Compatible with all factory video accessories (e.g. rear-view camera, Top-View, nightvison, DVD-changer, TV-tuner)
- Rear-seat-entertainment output for AV-sources connected to the v.LOGiC
- USB update-port for software-updates by consumer

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Appendix A – Device control table

Legal Information

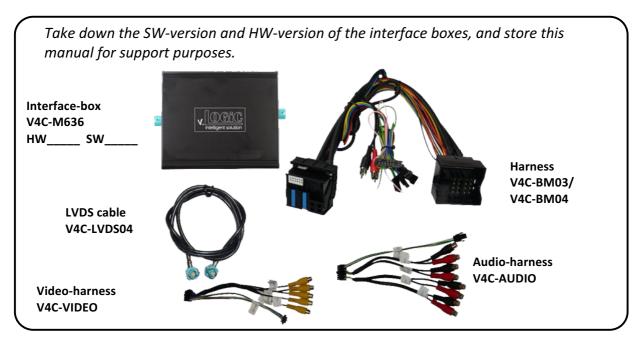
By law, watching moving pictures while driving is prohibited, the driver must not be distracted. We do not accept any liability for material damage or personal injury resulting, directly or indirectly, from installation or operation of this product. This product should only be used while standing or 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.

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



The V4-CIC-E package for BMW E-models contains harness V4C-BM03. The V4-CIC-F package for BMW F-models contains harness V4C-BM04. The harness will be referred to as V4C-BM0x in this manual.

1.1. Check compatibility of vehicle and accessories

| Requirements | |
|------------------|--|
| Vehicle | 1series (E81/82/87/88), 3series (E90/91/92/93), 5series (E60/61), 6series (E63/64), X1 (E84), X5 (E70), X6 (E71), Z4 (E89), 5series (F10/11), 6series (F12/F13), 7series (F01/F02), GT5 (F07), X3 (F25) With 8-button iDrive Mini from approx 09/2010, with 2-button iDrive |
| Navigation | E-series, Mini and F-series with navigation system or radio with 6.5″ or 8.8" monitor (E-series) or with 7" or 10" monitor(F-series) with 4pin HSD LVDS connector |
| Limitations | |
| Factory-USB-port | The AUDIO connection is different if the vehicle is with factory USB-port, please see the note in chapter "Connection to the vehicle-AUX-input"! |

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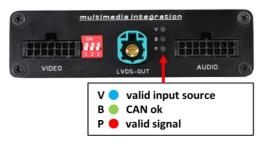
1.2. Setting the dip switches of the interface-box V4C-M636

Dip 1 and 2 on the back of the interface-box V4C-M636 are used to set the monitor type. The default setting is:

| Vehicle/ navigation | Dip 1 | Dip 2 | Dip 3 |
|--|-------|-------|-------|
| CIC-E (E-series), 6.5" monitor – version 1 | OFF | OFF | OFF |
| CIC-E (E-series), 6.5" monitor – version 2 | ON | OFF | ON |
| CIC-E (E-series), 8.8" monitor | OFF | ON | OFF |
| CIC-F (F-series), 7" monitor | ON | OFF | OFF |
| CIC-F (F-series), 10" monitor | ON | ON | OFF |

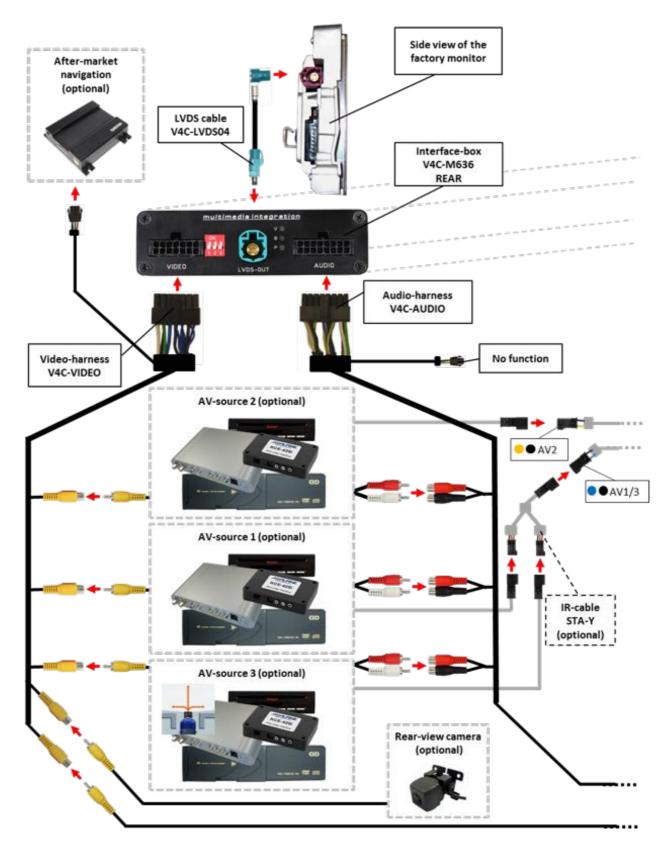
After each change of the dip switch settings you have to execute a power reset of the v.LOGiC interface-box!

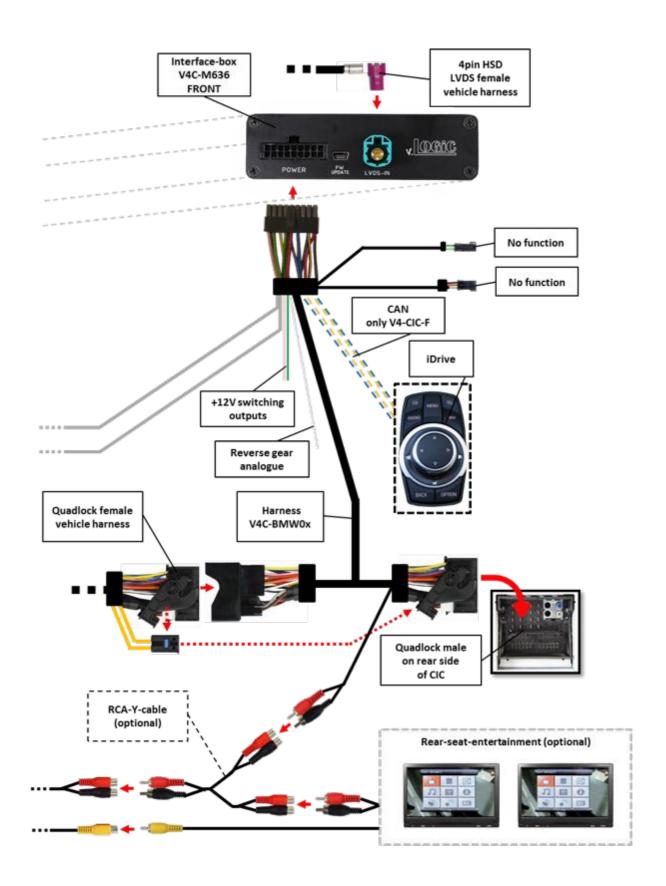
1.3. LED's of the interface-box V4C-M636





2. Connection schema





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3. Installation

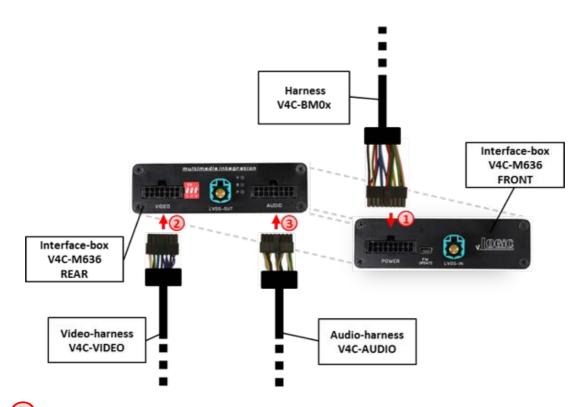
Switch off ignition and disconnect the vehicle's battery! The interface needs a permanent 12V source. If according to factory rules disconnecting the battery is to be avoided, it is usually sufficient to put the vehicle is sleep-mode. In case the sleep-mode does not show success, disconnect the battery 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 factory monitor and on the backside of the navigation computer.

3.1. Connecting interface-box and harnesses



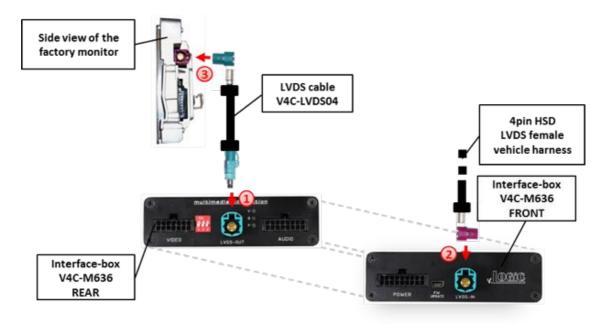
Connect female 18pin Micro-Fit connector of harness V4C-BM0x to the male 18pin Micro-Fit connector (POWER) on the front of the interface-box V4C-M636.

Connect female 14pin Micro-Fit connector of the video-harness V4C-VIDEO to the male 14pin Micro-Fit connector (VIDEO) on the rear of the interface-box V4C-M636.

Connect female 16pin Micro-Fit connector of the audio-harness V4C-AUDIO to the male 16pin Micro-Fit connector (AUDIO) on the rear of the interface-box V4C-M636.



3.2. Connection to the factory monitor

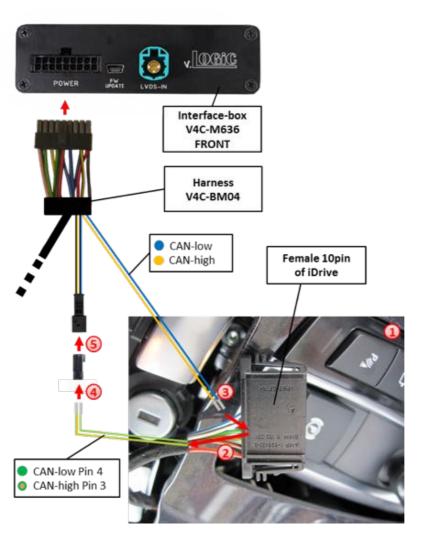


- Connect the straight female 4pin HSD LVDS connector of the LVDS cable V4C-LVDS04 to the male 4pin HSD LVDS connector (LVDS-OUT) on the rear of the interface-box V4C-M636.
- 2 Remove the female 4pin HSD LVDS connector of the vehicle harness at the side of the factory monitor and connect it to the male 4pin HSD LVDS connector (LVDS-IN) on the front of the interface-box V4C-M636.
- 3 Connect the angulated female 4pin HSD LVDS connector of the LVDS cable V4C-LVDS04 to the male 4pin HSD LVDS connector of the factory monitor.



3.3. Connection to the iDrive (only V4-CIC-F)

ONLY for F-series vehicles the V4-CIC-F has to be connected to the iDrive at the centre console additionally.



(1) Remove the iDrive from the centre console and unplug the existing flat female 10pin or 4pin cable connector.

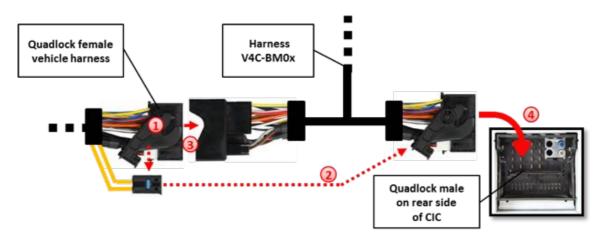
(2) Remove pin 3 green/orange CAN-high and pin 4 green CAN-low of vehicle harness from the female cable connector.

③ Pin yellow (blue) pin of harness V4C-BM04 into pin 3 CAN-high (pin 4 CAN-low) of the female cable connector.

Pin the green/orange cable CAN-high (green cable CAN-low) of the vehicle harness into pin 1 of the included female 2pin AMP connector.

(5) Connect female 2pin AMP connector to 2pin AMP connector (yellow/black and blue/black cable) of harness V4C-BM04.

3.4. Quadlock connector



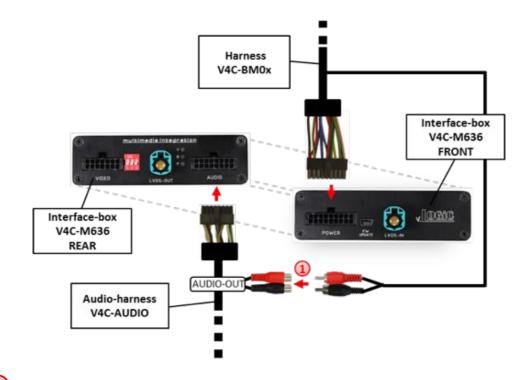
(1) Remove the female Quadlock connector of the vehicle harness from the rear of the navigation computer.

2 Remove optical leads from the female Quadlock connector of the vehicle harness and insert them into the female Quadlock connector of harness V4C-BMOx at the same position.

3 Connect female Quadlock connector of vehicle harness to the male Quadlock connector of harness V4C-BM0x.

Connect female Quadlock connector of harness V4C-BM0x to the male Quadlock connector of the navigation computer

3.5. Connection to the vehicle-AUX-input



Connect the audio-RCA of harness V4C-BM0x to the female RCA-connectors AUDIO OUT of the audio-harness V4C-AUDIO.

Note: If the vehicle is with factory USB-port, the AUDIO-OUT of the audio harness V4C-AUDIO **must be connected** to the Audio-AUX jack bush which is next to the USB-port (instead of to the male RCA on V4C-BM0x harness).

If connecting a rear-set-entertainment an optional RCA Y-cable is plugged in between, see chapter "Rear-seat-entertainment"

3.6. Connecting peripheral devices

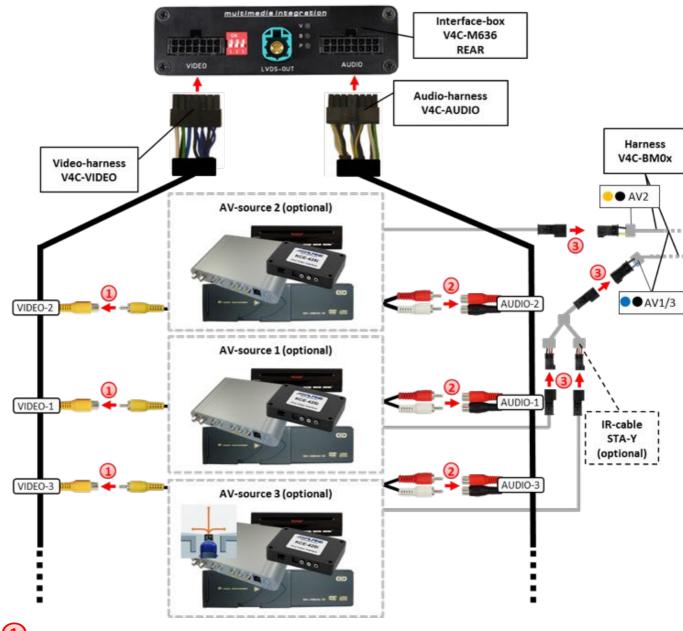
It is possible to connect 3 after-market AV-sources, therefrom optional an iPod and an aftermarket front camera, an after-market rear-view camera, an after-market navigation and rear-seat-entertainment to the v.LOGiC interface.

Before final installation of the peripheral devices, we recommend a test-run to detect incompatibility of vehicle and interface. Due to changes in the production of the vehicle manufacturer is always the possibility of incompatibility.



3.6.1. AV-source(s)

The v.LOGiC interface has the possibility to connect and remotely control by navigation buttons 3 pre-programmed devices. The device list in the device control table (appendix A) shows the pre-programmed remote channels and the related IR-remote cables STA-xxx which must be ordered separately for the control of the device.



(1) Connect video RCA of AV-source 1 to female RCA connector VIDEO-1, the video RCA of AV-source 2 to female RCA connector VIDEO-2 and video RCA of AV-source 3 to female RCA connector VIDEO-3 of the video-harness V4C-VIDEO.

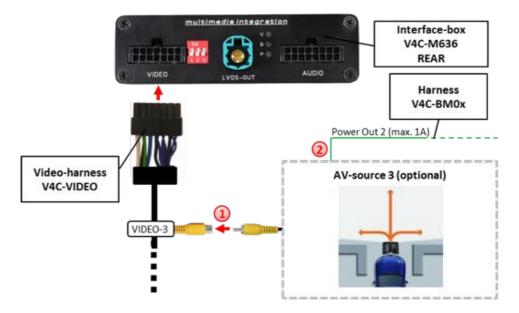
Connect audio RCA of AV-source 1 to female RCA connectors AUDIO-1, the audio RCA of AV-source 2 to female RCA connectors AUDIO-2 and audio RCA of AV-source 3 to female RCA connectors AUDIO-3 of the audio-harness V4C-AUDIO.

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Using the respective STA-xxx IR-control cable, interconnect the blue-black (yellow-black) female 3pin AMP connector of harness V4C-BM0x and the IR-port of the AV-source 1 (AV-source 2). If 3 AV-sources are connected, connect the optionally available IR-control cable STA-Y between the blue-black female 3pin AMP connector and the IR-ports of the AV-sources 1 and 3.

3.6.2. After-market front camera

3.6.2.1. Connection to the after-market front camera



Connect the video RCA of the after-market front camera to the female RCA connector VIDEO-3 of the video-harness V4C-VIDEO.

2 The green wire of harness V4C-BM0x can be used for +12V electric power supply (max. 1A) of the after-market front camera. Configure in the OSDmenu "MISC", menu item "POWER OUT 2" the designated electric power supply (see chapter "Configurable switching outputs").



Note: The after-market front camera is always connected to AV3.



3.6.2.2. Settings for connecting an after-market front camera

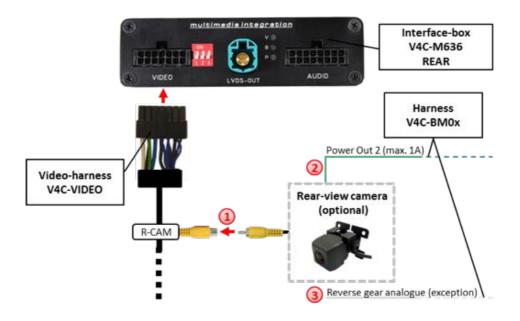
You have to configure some settings in the OSD-menus INPUTS and MISC if you want to connect an after-market front camera (Operation of the OSD: see chapter "OSD-Operation").

| M OGit | Caraud | Caraudio-Systems | | |
|--------------------------------|---|--|--|--|
| IMAGE INPUTS OSD MISC | AVI AV2 AV3 EXT.MAVI REARCAM FRONTCAM REVERSE LOGIC | IR41 IR9 OFF OFF ON ON Gear only | | |

| OSD-menu | Menu item | Setting | Explication |
|----------|---------------|-------------|--|
| | AV3 | OFF | The front camera is connected to AV3 |
| | | OFF | No front camera connected |
| | FRONT CAM | ON | Switches to front camera if parking process is enabled and reverse gear is released |
| INPUTS | ReverseLogic | Intelligent | For vehicles with PDC button. Enabled while parking process and up to 20 km/h or together with PDC if existing |
| | | | For vehicles without PDC button. Enabled while parking process and up to 20 km/h. |
| MISC | OEM PDC CAR | Horizontal | PDC-display of the vehicle is horizontal |
| IVIISC | UEIVI FDC CAR | Vertical | PDC-display of the vehicle is vertical |

Note: You can deactivate the enabled parking process by pressing the iDrive or by enabling other modes (e.g. radio). After deactivation you can't enable the parking process again until the vehicle is diving faster than 20km/h, the ignition is switched off and on or the PDC will be disabled and enabled again, if existing.

3.6.3. After-market rear-view camera



3.6.3.1. 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 of the video-harness V4C-VIDEO.

The green wire of harness V4C-BM0x can be used for +12V electric power supply (max. 1A) of the after-market rear-view camera. Configure in the OSD-menu "MISC", menu item "POWER OUT 2" the designated electric power supply (see chapter "Configurable switching outputs").

| INAGE INPUTS DSD MISC | VERSION POHEROUTI PONEROUT2 GENPDC CAR VIM FACTORY RESET | 1.6 0.8.45 CAN RearCam Horizontal ON |
|--------------------------------|---|--|

3 On some vehicles the reverse light signal doesn't exist on the CAN-bus. Connect the white wire of harness V4C-BM0x to reverse light signal (+12V of reverse light) if the v.LOGiC doesn't switch to the rear-view camera automatically after the described OSD-setup (see next chapter).



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

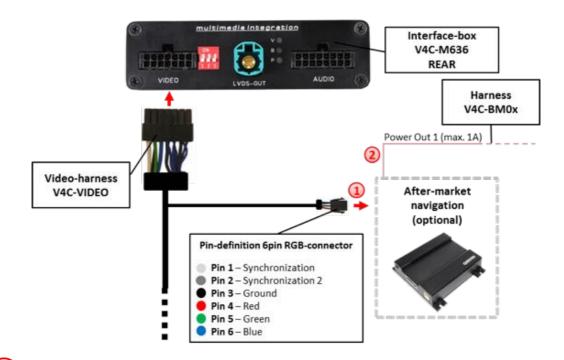
You have to configure some settings in the OSD-menus INPUTS and MISC if you want to connect an after-market rear-view camera (Operation of the OSD: see chapter "OSD-Operation").

| V OGIC | Caraud | io-Systems |
|--------|---------------|------------|
| THAGE | AUL | IR41 |
| INPUTS | | IR9 |
| 050 | | OFF |
| HISC | EXT.HAVI | OFF |
| | REARCAM | ON |
| | FRONTCAM | OH |
| | REVERSE LOGIC | Bear only |
| | | |

| OSD-menu | Menu item | Setting | Explication |
|----------|---------------|-------------|--|
| | REAR CAM | OFF | No rear-view camera connected |
| INPUTS | | ON | Switches to rear-view camera if reverse gear is engaged and/or PDC-display is displayed |
| | | OEM | If a factory rear-view camera is existing! v.LOGiC turns off, if PDC or reverse gear is enabled and it displays factory rear-view camera and/or PDC-display |
| | ReverseLogic | Intelligent | For vehicles with PDC button. Enabled while parking process and up to 20 km/h or together with PDC if existing |
| | | Gear only | For vehicles without PDC button. Enabled while parking process and up to 20 km/h. |
| MISC | OEM PDC CAR | Horizontal | PDC-display of the vehicle is horizontal |
| IVIISC | UEIVI PDC CAR | Vertical | PDC-display of the vehicle is vertical |

Note: You can deactivate the enabled parking process by pressing the iDrive or by enabling other modes (e.g. radio). After deactivation you can't enable the parking process again until the vehicle is diving faster than 20km/h, the ignition is switched off and on or the PDC will be disabled and enabled again, if existing.

3.6.4. After-market navigation



3.6.4.1. Connection to the after-market navigation by RGB

Connect the male 6pin connector of the video-harness V4C-VIDEO to the aftermarket navigation.

2 The pink wire of harness V4C-BM0x can be used for +12V switching voltage (max. 1A) of the aftermarket navigation. Configure in the OSD-menu MISC, menu item POWER OUT 1 to "Ext. Navi" (see chapter "Configurable switching outputs").



Note: It is possible to connect the after-market navigation to an AV-input alternatively.

3.6.4.2. Settings for connecting an after-market navigation by RGB

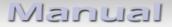
You have to configure some settings in the OSD-menu INPUTS if you want to connect an after-market navigation (Operation of the OSD: see chapter "OSD-Operation").

| M OGIC | Caraud | io-System |
|--------|---------------|-------------|
| IMAGE | AUL | IR41 |
| INPUTS | | IR9 |
| 050 | AUS | OFF |
| | EXT.HAVI | |
| | REARCAM | ON |
| | FRONTCAM | OH |
| | REVERSE LOGIC | Intelligent |
| | | |
| | | |

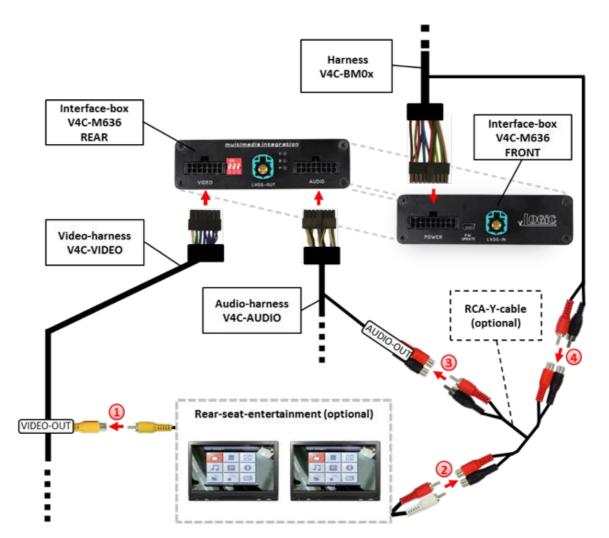
| OSD-menu | Menu item | Setting | Explication |
|----------|-----------|---------|--|
| INPUTS | EXT. NAVI | OFF | No after-market navigation connected |
| INPUTS | EAT. NAVI | ON | After-market navigation connected by RGB |

Note: You can switch directly to a connected after-market navigation (only possible for vehicles with 8-button iDrive) by pressing the NAV button (video only).





3.6.5. Rear-seat-entertainment



(1) Connect the video RCA of the rear-seat-entertainment to the female RCA connector VIDEO-OUT of video-harness V4C-VIDEO.

2 Connect the audio-RCA of the rear-seat-entertainment to the female RCA connectors of the optional RCA-Y-cable.

3 Connect the audio RCA of the optional RCA-Y-cable to the female RCA connectors AUDIO OUT of the audio-harness V4C-AUDIO.

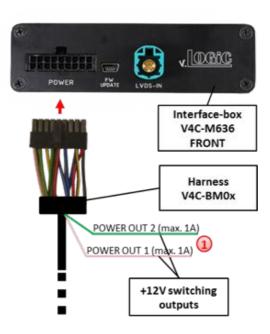
Connect the audio RCA of harness V4C-BM0x to the female RCA connectors of the optional RCA-Y-cable.

Note: The last source keeps active on rear-seat-entertainment if you switch the navigation to OEM mode.





3.6.6. Configurable trigger outputs



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

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



| OSD-menu | Menu item | Setting | Explication |
|----------|----------------------|--------------|--|
| | | CAN | +12V when the v.LOGiC is on (red LED on) |
| | | Ignition | +12V when ignition is on |
| | POWER OUT1 | RearCam | +12V when the rear-view camera input (AV4) is activated |
| MISC | (pink) POWER OUT2 | Ext. Navi | +12V when an after-market navigation is configured and the RGB input is activated |
| | (green) | Reverse Gear | +12V when reverse gear is engaged |
| | | AUX Switch | +12V when v.LOGiC video-source is active (for external audio switch) |
| | | OFF | Trigger putput deactivated |

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3.7. Picture settings

3.7.1. Picture format

You can change the picture format by **long pressing** the **CD-button** (BMW with 8-button iDrive) or by **long pressing** the **Menu-button** (2-button iDrive in Mini) while in the respective AV-mode. The following options are available

| 8.8" and 10.2 | 2" 24:10 ultrawide monitor: | |
|---------------------|--|-------------|
| • FULL | = 24:10 v.LOGiC full screen mode | V |
| ∘ Zoom | = 24:10 v.LOGiC full screen mode zoom | |
| ° 16:9 | = 16:9 v.LOGiC picture central | BACK OPTION |
| ° 4:3 | = 4:3 v.LOGiC picture central | |
| • AV + LVDS | = 16:9 v.LOGiC picture on left side, factory picture on right side | |
| ∘ LVDS + AV side | = 16:9 factory picture on left side, v.LOGiC picture on right | |
| 6.5" and 7" 1 | L6:9 monitor: | |
| • FULL | = 16:9 v.LOGiC full screen mode | |
| • ZOOM | = 16:9 v.LOGiC full screen mode zoom | |

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

= 4:3 v.LOGiC-picture central

3.7.2. Picture settings

° 4:3

You can change the picture settings in the OSD-menu IMAGE (Operation of the OSD: see chapter "OSD-Operation").



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



4. Operation

4.1. OSD – On-screen display

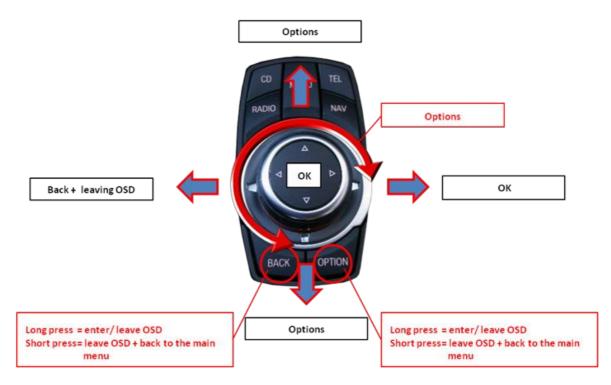
You can change the basic configurations of the v.LOGiC in the OSD (on screen display).



4.1.1. OSD – Operation

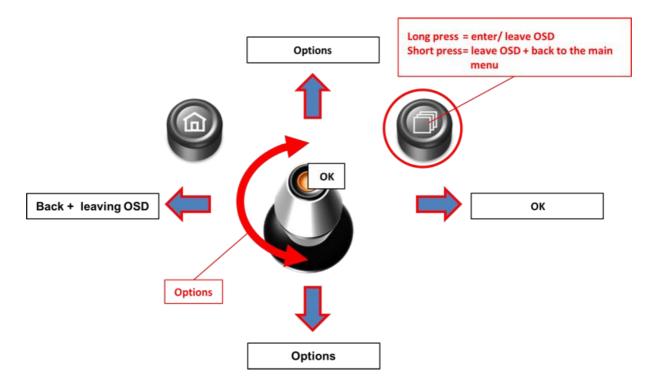
You can control the OSD by iDrive.

4.1.1.1. 8-button iDrive





4.1.1.2. 2-button iDrive in Mini



4.1.2. OSD – Additional setting options

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

| V OGiC | Caraudio-Systems | M LOGIC | Caraudio-Systems |
|--------------------------------|-------------------------------|--------------------------------|--|
| IHAGE IMPUTS OSD HISC | H POSITION 35 U POSITION 0 | IMAGE INPUTS OSD MISC | UERSION 1.6 0.8.45 POHEROUTI CAN POHEROUT2 CAN GENPDC CAR Horizontal VIM ON FACTORY RESET |

| OSD-menu | Menu item | Setting | Explication |
|----------|---------------|---------|---------------------------------|
| | H POSITION | 0-xxx | Horizontal position of the OSD |
| | V POSITION | 0-xxx | Vertical position of the OSD |
| MISC | VERSION | X.XX.XX | Displays the current SW-version |
| | FACTORY RESET | | Resetting to factory settings |



4.2. Video-in-motion function

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

| MOGIC | Caraudi | o-Systems |
|--------------------------------|---|--|
| IHAGE INPUTS OSD HISC | VERSION POHEROUTI Poherout2 Denpdc Car Vim Factory Reset | 1.6 0.8.45 CAM CAM Horizontal DM |

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

For the V4-CIC-E the video-in-motion function is permanently active without disturbing the navigation performance.

For the V4-CIC-F the video-in-motion function for (audio-) video-sources connected to the v.LOGiC is permanently active without disturbing the navigation performance.

4.3. Selecting the v.LOGiC as current AV-source

Inputs which are not enabled are skipped.



In the vehicle's **CD/Multimedia** menu, activate **AUX front** by iDrive and after it **long press CD-button** respectively **long press Menu-button** to choose the v.LOGiC as current AVsource.

Short press CD button respectively **MENU** button to switch the AV-sources. Each short press will switch to the next enabled input. If all inputs are enabled the order is:

Factory-video \rightarrow AV1 \rightarrow AV2 \rightarrow AV3 \rightarrow AV4 (R-CAM) \rightarrow RGB \rightarrow factory-video \rightarrow ...

 $^{age}25$

4.4. Assigning device controls

You can assign the device controls in the OSD-menu INPUTS (Operation of the OSD: see chapter "OSD-Operation"). Assign related IR-codes AV1 for AV-source 1, AV2 for AV-source 2 and AV3 for AV-source 3 as described in device control table (see appendix A)

| M LOGIC | Caraudio-Systems | | |
|--------------------------------|---|--|--|
| IMAGE INPUTS DSD HISC | AVI AU2 AU3 EXT.MAUI REARCAM FRONTCAM REVERSE LOGIC | IR41 IR9 OFF OFF ON ON Gear only | |

Note: The IR-control channel AV1 is preset to IR-Code 41 compatible DVB-T tuners

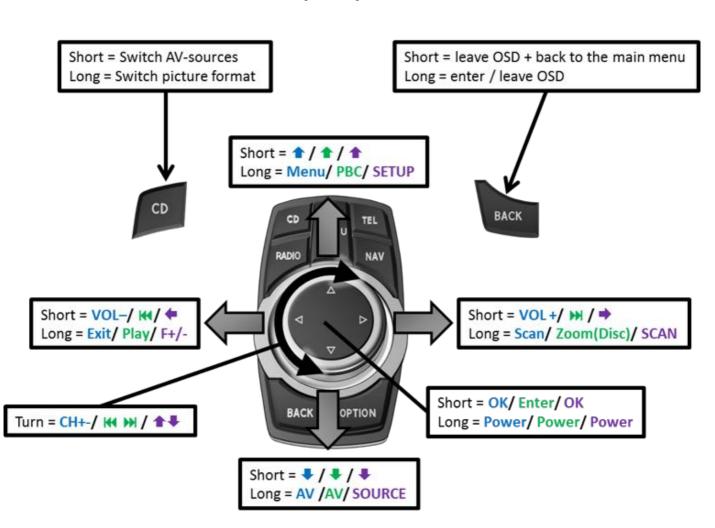
If you connect an AV-source without control you have to assign any IR code for the respective AV-input (AV1/2/3) because in the setting "OFF" there is no picture visible.



4.5. Controlling of the connected AV-sources

The picture shows which functions of the connected devices can be executed by iDrive. Once an AV-input is activated the iDrive action will execute the function described in the picture. The function description equals the remote control buttons of the device's remote control. On the additional device the writing on the remote control buttons may vary (e.g. AV instead of Source).

4.5.1.1. Controlling by 8-button iDrive

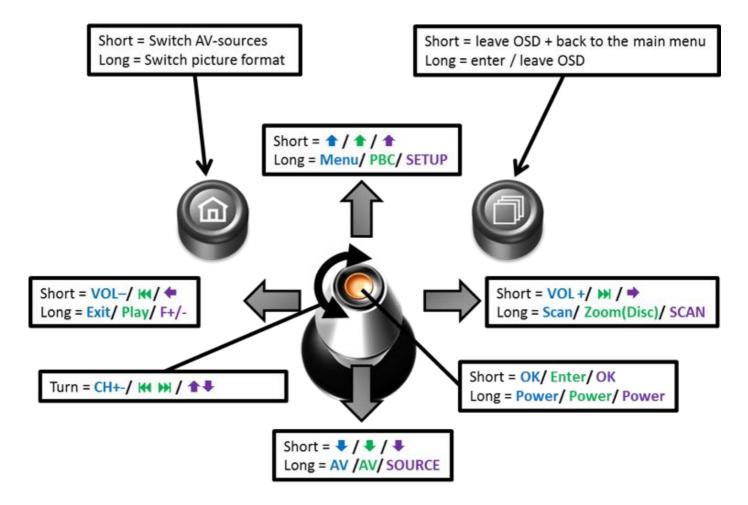


Controlling of AV-sources: DVB-T / DVD / DAB

Note: A few functions could be different on some connected devices.

4.5.1.2. Controlling by 2-button iDrive in Mini





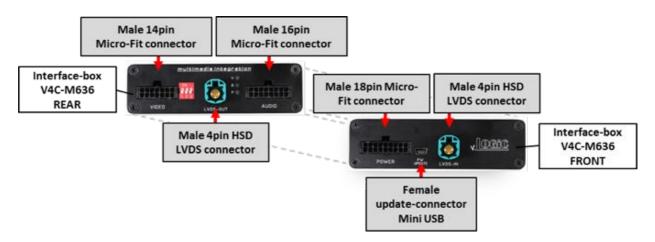
Note: A few functions could be different on some connected devices.



5. 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 |

6. Connections (interface-box)



7. Technical Support

Caraudio-Systems Vertriebs GmbH manufacturer/distribution In den Fuchslöchern 3 D-67240 Bobenheim-Roxheim

email support@caraudio-systems.de

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