

c.LOGiC-Interface

C2-RNSE

Compatible with navigation systems Audi Navi Plus RNS-E

Only for vehicles WITHOUT factory rear-view camera

Product features

- full plug and play multimedia interface
- 2 AV-inputs with separate IR-control channel
- integrated into and controllable by vehicle infotainment
- control of after-market devices, e.g. DVB-T tuner, DVD-player, DVD-changer, ...
- after-market rear-view camera input
- automatic switching to rear-view camera input (optional coding necessary to switch from OEM-modes)
- rear-view camera power (+12V max 1A)
- rear-seat-entertainment video-output for Video-sources connected to the c.LOGiC
- power on remote out trigger signal (+12V max 1A) to switch on connected devices
- video-in-motion

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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. 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

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

CAN-box
TV-400/500
HW _____
SW _____



Interface-box
C2C-M200
HW _____ SW _____



Harness
C3C-RNSE

If remote function for the connected devices shall be used, additional an IR-remote cable and Y-adapter are needed, see chapter [AV-source\(s\)](#).

1.2. Check compatibility of vehicle and accessories

Requirements	
<i>Vehicle</i>	Audi, Lamborghini
<i>Navigation</i>	Audi Navi Plus RNS-E all-in-one navigation 16:9
Limitations	
<i>Factory-TV-tuner</i>	Must NOT be installed.
<i>After-market rear-view camera</i>	Only compatible with NTSC-cameras. Automatic switching to camera from OEM mode only works after coding the head-unit to rear-view camera per diagnosis computer (Only possible on RNS-E with minimum software 550 and till year 2010).
<i>Video-in-motion function</i>	Navigation does NOT work while VIM is activated.

1.3. Setting the dip switches of the CAN-box TV-400/500

TV-400

All vehicles	dip 1 OFF, dip 2 OFF, dip 3 OFF
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TV-500

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
All vehicles	OFF	OFF	OFF	OFF	OFF	OFF

Note: Dip switch functions of the TV-500

Dip 1 – activation TV-free

Dip 2 – no function

Dip 3 – no function

Dip 4 – no function

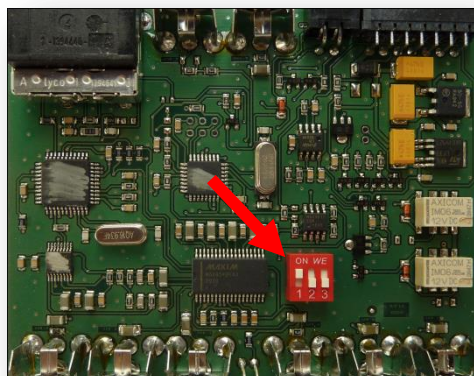
Dip 5 – CAN-bus termination resistor on the vehicle side

Dip 6 – CAN-bus termination resistor on the head-unit side

1.4. Setting the dip switches of the Interface-box C2C-M200

The default dip switch settings of the Interface-box need to be changed **ONLY** if an after-market rear-view camera shall be connected or if the AV2 of the c.LOGiC shall be deactivated. The dip switches are located **inside** the Interface-box. For changes it is necessary to open the box. Default settings are:

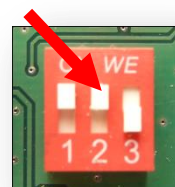
dip1 = ON, dip2 = OFF, dip3 = OFF



Note: Instead of dip switches, there might be jumper 1 to 3.

1.4.1. Automatic switching to rear-view camera

If an after-market rear-view camera shall be connected, in order for the c.LOGiC to automatically switch to its camera input on engaged reverse gear, set dip2 = ON (up).



dip switches interface-box

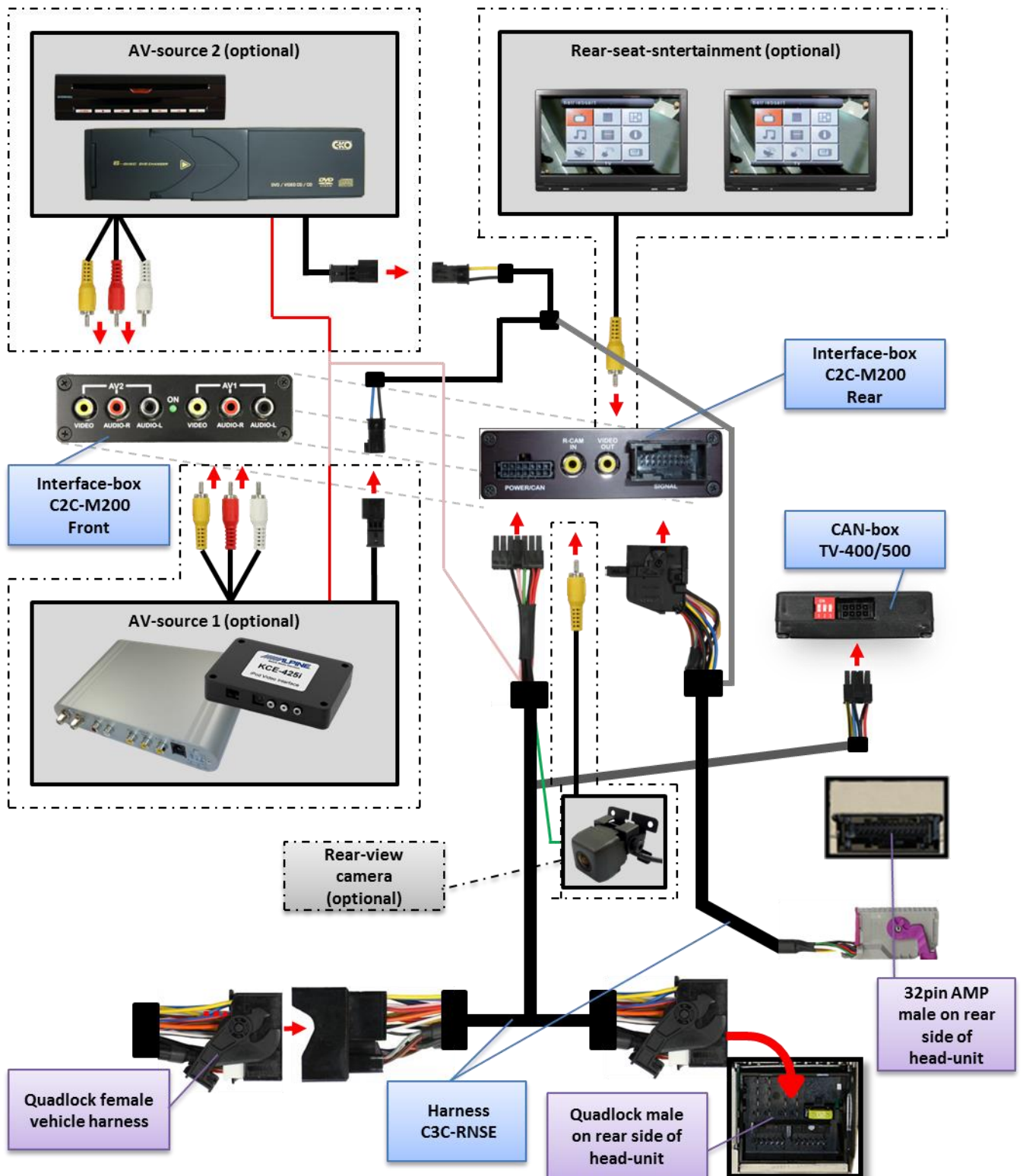
Note: With after-market cameras, automatic switching works only from c.LOGiC mode. For automatic switching from OEM modes, it is necessary to code the head-unit to rear-view camera per diagnosis computer.

1.4.2. Deactivating c.LOGiC AV2-input

If only one AV-source shall be connected to the c.LOGiC, we recommend to disable the AV2-input, to avoid customers switching by mistake to black/no picture of the AV2-input. In order to disable the AV2-input of the c.LOGiC, set dip1 = OFF (down).



2. Connection schema

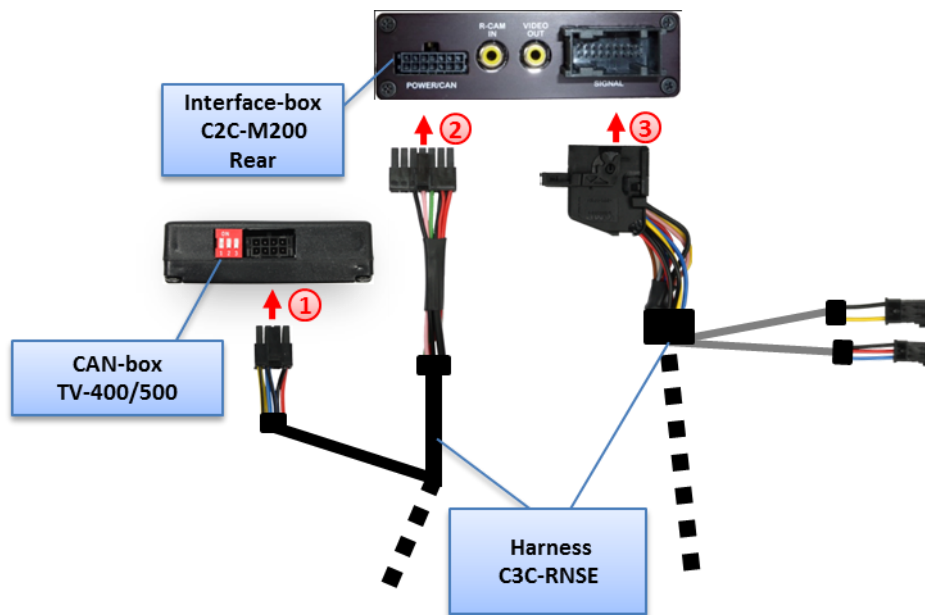


3. Installation

Switch off ignition and disconnect the vehicle's battery! If according to factory rules disconnecting the battery has 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.

Place of installation is behind the head-unit.

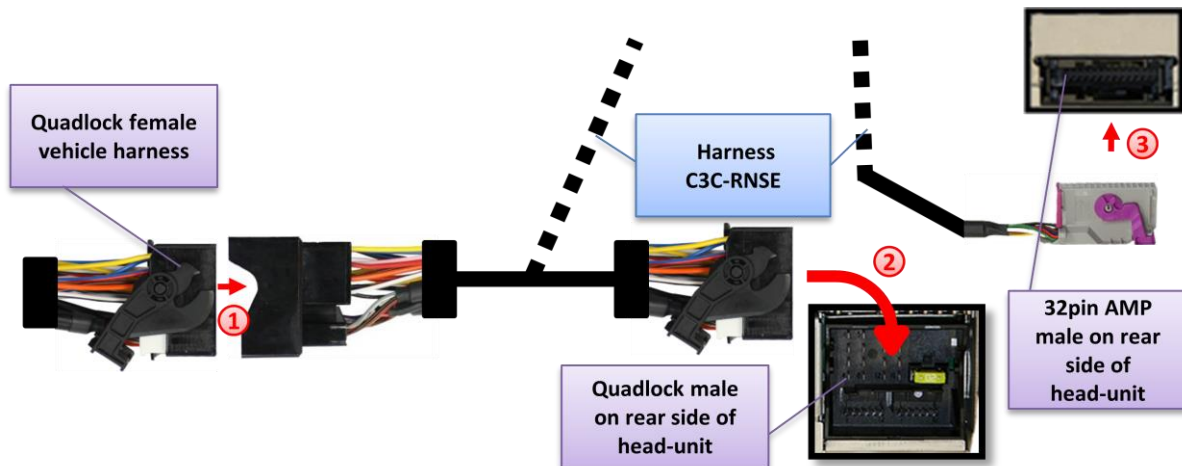
3.1. Interconnecting Interface-box, CAN-box and harness



- ① Plug harness C3C-RNSE into 8pin Molex of CAN-box TV-400/500.
- ② Plug harness C3C-RNSE into 14pin Molex of Interface-box C2C-M200.
- ③ Plug female 18pin AMP-connector of C3C-RNSE into male 18pin AMP-socket of Interface-box C2C-M200.

3.2. Connections to head-unit

Remove the head-unit from the dash-board.



- ① Transfer female Quadlock connector from the back of the head-unit to male Quadlock connector of harness C3C-RNSE.
- ② Plug female Quadlock connector of C3C-RNSE into male Quadlock socket of head-unit.
- ③ Plug female 32pin AMP-connector of C3C-RNSE into male 32pin AMP-socket of head-unit.

Note: If the 32pin AMP-socket of the head-unit is already occupied, the vehicle probably has a factory rear-view camera or a factory TV-tuner. In case of a factory tuner, it must be uninstalled: disconnect the female 32pin AMP-connector of the factory harness and disconnect all wires from the factory TV-tuner. In case of a factory rear-view camera you have ordered/received the wrong product, call for support.

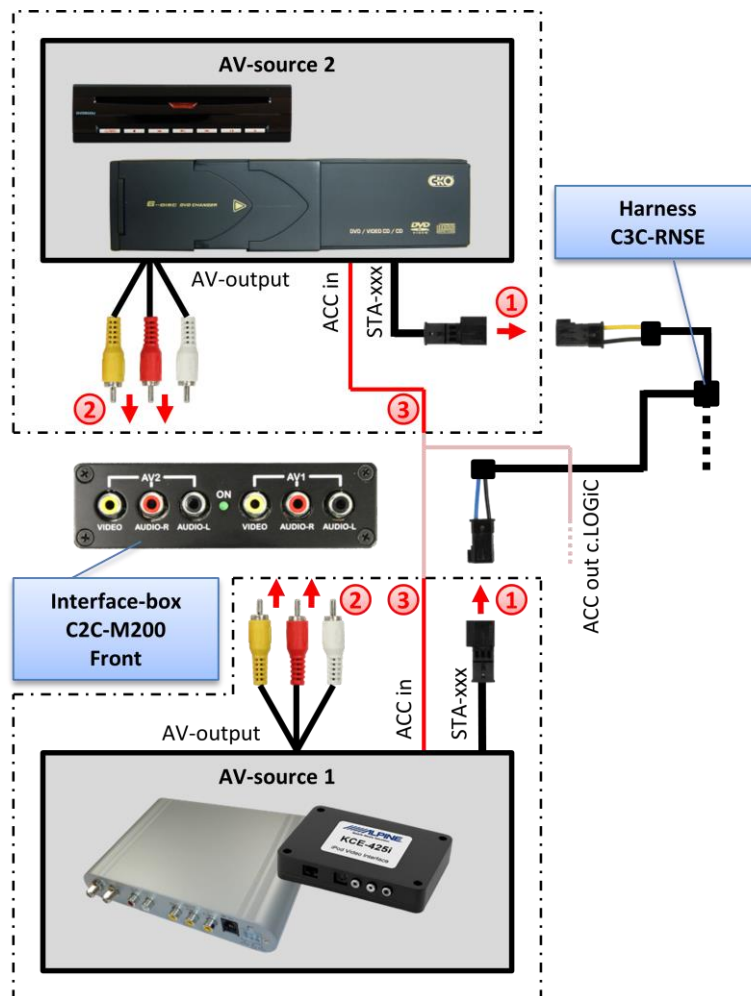
3.3. Connecting peripheral devices

It is possible to connect up to 2 after-market AV-sources, an after-market rear-view camera and rear-seat-entertainment to the c.LOGiC Interface.

Before final installation of the peripheral devices, we recommend to test-run the c.LOGiC functions to detect incompatibility of vehicle, navigation, factory accessories or peripheral devices as soon as possible.

3.3.1. AV-source(s)

The c.LOGiC interface has the possibility to connect and remotely control by navigation buttons up to 2 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.

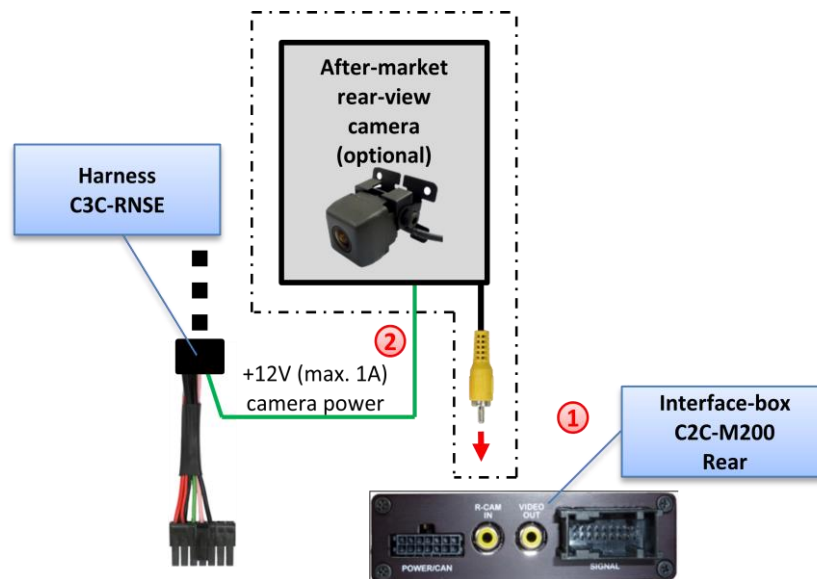


- ① Using the respective STA-xxx IR-control cable, interconnect the blue (yellow) female 3pin AMP connector of harness C3C-RNSE and the IR-port of the AV-source 1 (AV-source 2).
- ② Using an RCA-cable, interconnect the female RCA-port AV1 (AV2) of the Interface-box C2C-M200 with the AV-output of the AV-source 1 (AV-source 2).
- ③ The pink ACC-output wire (+12V max 1A) of harness C3C-RNSE can be connected to the ACC-input wires of the connected device to switch it on. It carries +12V when the head-unit is running.

3.3.2. Installing AV-source's IR-sensor additionally

Additionally to the control via OEM navigation, it is possible to install the original IR-sensor of a connected device. By using the respective Y-adapter (e.g. STA-Y35MM or STA-RJ12) for the IR-Port of the connected device, the controls of navigation AND device's IR-sensor can be connected and used simultaneously. Installation of the IR-sensor is recommended as the controls via navigation are limited, and not all functions may be covered.

3.3.3. After-market rear-view camera



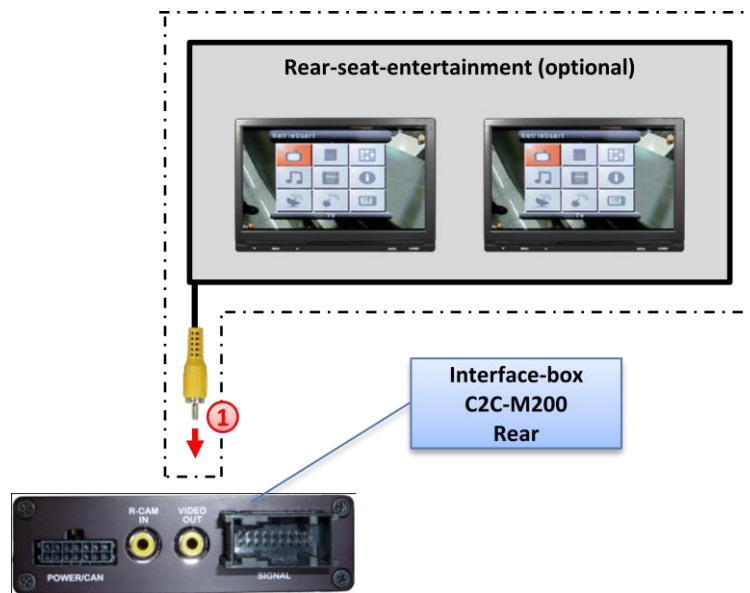
- ① Connect the video RCA of the after-market rear-view camera to female RCA connector R-CAM IN of Interface-box C2C-M200.
- ② Connect the green wire of C3C-RNSE to the camera power supply (+12V max. 1A). The green wire is high (+12V max. 1A) when reverse gear is engaged. Connect the loose white-brown wire of the female Quadlock connector of harness C3C-RNSE to the green wire of harness C3C-RNSE, too.

Note: Only compatible with NTSC-cameras.

Automatic switching on reverse gear from OEM mode to camera input only works after coding the head-unit per diagnosis computer (Only possible on RNS-E with minimum software 550 and till year 2010).

If coding is done by diagnosis PC, code rear-view camera to value 1 in channel 04, controller 56. After coding the vehicles needs to be locked for at least 66 minutes to reach general sleep mode.

3.3.4. After-market rear-seat-entertainment



- ① Using RCA-cables, connect the rear-seat-entertainment to the female RCA-connector VIDEO OUT of Interface-box C2C-M200.

Note: As the output is a full output, not shared with the video signal for the navigation system, splitting the video with an RCA Y-cable might give a good enough picture for two rear-seat-entertainment monitors. If not, or if connecting more than two monitors, use a video splitter.

4. Operation

4.1. Activation of the video-in-motion function

The video-in-motion function is activated by long-pressing the “next track” button when in TV-mode. As confirmation, the head-unit’s button illumination will blink a few times slowly. Repeat to deactivate, confirmation are a few fast blinks. While the video-in-motion function is active, the navigation will not work. After ACC is switched off, the video-in-motion function will be automatically deactivated.

4.2. Selecting the c.LOGiC as current AV-source

Push the **CD/TV** button of the head-unit to choose the c.LOGiC as current AV-source.



4.3. Switching between AV1 and AV2

After selecting the c.LOGiC as current AV source, longpress the **knob** to switch between AV1 and AV2.



Note: If AV2 is deactivated (see chapter chapter Deactivating c.LOGiC AV2 input), it is not possible to switch to the c.LOGiC's AV2.

4.4. Assigning device controls

After selecting the c.LOGiC as current AV source, switch to the c.LOGiC's AV1. Now longpress key **SETUP**. The FIS will display "TV 1" and "RC01". Turn right knob until the device-related IR-code as described in device control table for AV1 (appendix A) is reached. Push right knob to confirm the assignment. Longpress right knob to assign device control for AV2. The FIS will display "TV 2" and "RC01". Turn right knob until the device-related IR-code as described in device control table for AV2 (appendix A) is reached. Push right knob to confirm the assignment.

Note: The IR-control channel TV1 is preset to RC-Code 41 compatible DVB-T tuners and TV2 is preset to RC-Code 09 for the usbLiNK.

If the AV2 is deactivated (see chapter chapter Deactivating c.LOGiC AV2 input), it is not necessary, nor possible to assign device controls.

4.5. Remote function

The button assignment table shows which functions of the connected devices can be executed by head-unit buttons. Once an AV-input is activated, the head-unit button in the left column will execute the function described in the corresponding device column. The function description equals the remote control buttons of the optional c.LOGiC remote control or the additional device. On the additional device the writing may vary (e.g. AV instead of Source).



Button assignment table c.LOGiC Audi Navi Plus RNS-E						
Head-unit button	DVB-T	USB-LiNK	DVD-player	DVD-changer	iPod®-control	Analog-tuner
1	CH -	TRACK -	TRACK -	TRACK -	TRACK -	CH -
1 long	EPG	POWER	PBC	PBC	SHUFFLE	FM
2	CH +	TRACK +	TRACK +	TRACK +	TRACK +	CH +
3	OK	OK / PLAY	OK	OK	OK	MODE
4	↑	↑	↑	↑	↑	VOL +
5	↓	↓	↓	↓	↓	VOL -
6	→	→	→	→	→	CH +
6 long	SCAN	VOL+	PLAY	PLAY	PLAY	SCAN
7	←	←	←	←	←	CH -
7 long	POWER	VOL-	AV	DISC	EJECT	MODE
8	EXIT	EXIT	STOP	STOP	PLAY	MUTE
9	MENU	SETUP	SETUP	SETUP	LIGHT	ADJUST

4.6. Picture settings

To enter the picture settings menu **longpress** the **RETURN** button.

The picture settings menu always starts with the brightness settings. The respective current picture value is displayed on the instrument panel.


Press the **knob** to change from brightness to colour and contrast (after contrast, the interface starts again with brightness).

Turn the **knob** to change the current picture value. To quit the settings menu press **RETURN**-button.



5. Specifications

Operation voltage	10.5 – 14.8V DC
Stand-by power drain	<1mA
Operation power drain	240mA
Power consumption	3W
Temperature range	-30°C to +80°C
Weight	202g
Measurements (box only) B x H x T	90 x 30 x 105 mm

CE  12V DC

6. Technical Support

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