

TV-Free

Video-in-motion Interface

CTVIMBM02

For BMW

**Professional CCC/CIC
navigation systems**

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.

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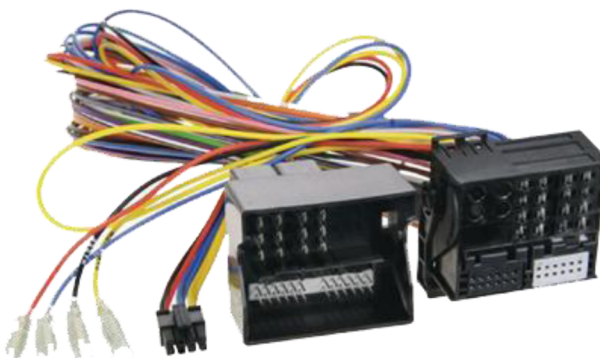
1. Prior to installation

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-401
HW ____ SW ____





1.2. Check compatibility of vehicle and accessories

Requirements

Vehicle BMW 1series (E81/82/87/88), 3series (E90/91/92/93), 5series (E60/61), 6series (E63/64), X5 (E70), X6 (E71), Z4 (E89) Mini R56 from about 10/2006

Navigation Navigation system **Professional** CCC (older 1/2-button iDrive or CIC (newer 8-button iDrive) with 6.5" or 8.8" monitor

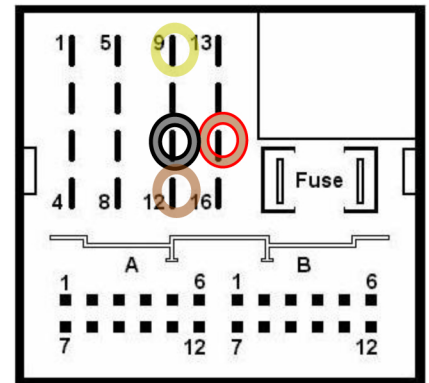
1.3. Setting the Dip-switches

Vehicles with CIC	Dip 1 ON, Dip 2 OFF, Dip 3 OFF	
Vehicles with CCC	Dip 1 OFF, Dip 2 OFF, Dip 3 OFF	

1.4. Pin-assignments

Pin-assignment vehicle connector

●●	Brown/Red	+12V permanent	Pin 15
●	Brown	Ground	Pin 12
●	Yellow	CAN Low	Pin 9
●	Black	CAN High	Pin 11



Pin-assignment of the interface (Molex 8-Pin)

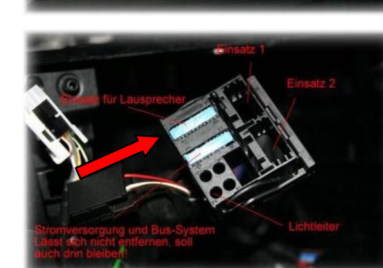
●	Red	+12V battery power	Pin 4
●	Black	Ground	Pin 8
●	Yellow	CAN High Navi	Pin 1
●	Blue	CAN Low Navi	Pin 2
●●	Yellow/Black	CAN High Vehicle	Pin 5
●●	Blue/Black	CAN Low Vehicle	Pin 6

2. 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.

- **Example BMW E90/91/92:**

1. Remove the plugged climate control panel with the accordant tool kit.
2. Remove the trim (plugged too).
3. Remove the 6 screws from the navigation computer and take it out.
4. Remove Quadlock connector from the navigation computer and connect it to Harness supplied.
5. Connect the optical leads to the Harness and connect the harness to the navigation computer.
6. Fit the navigation computer back into the center console.



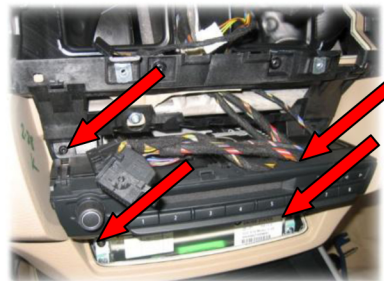
- **Example BMW E60/61:**

1. Remove trim strip step by step using a plastic wedge. Do not proceed to quickly to avoid breaking clamps of the trim strip.
2. Remove the two screws on the upper part of the climate control panel. The lower part is not screwed but only fastened with clamps. After removing the climate control panel in order to facilitate you can disconnect the plugs behind.
3. Remove the lower trim (plugged too) and remove the 4 screws of the navigation computer behind it. Take out the navigation computer.
4. Disconnect Quadlock -connector from the navigation computer and connect it to harness supplied.
5. Connect the optical leads to the Harness and connect the harness to the navigation computer.
6. Fit the navigation computer back into the center console.



• **Example BMW E70:**

1. Remove the center air nozzle unit with the accordant tool kit.
2. Remove the two screws on the upper part of the climate control panel. The lower part is not screwed but only fastened with clamps. After removing the climate control panel in order to facilitate you can disconnect the plugs behind.
3. Remove the 4 TORX screws (see picture) and take out the navigation computer.
4. Remove Quadlock connector from the navigation computer and connect it to harness supplied.
5. Connect the optical leads to the Harness supplied and connect the harness to the navigation computer.
6. Fit the navigation computer back into the center console.



3. Activation of the video-in-motion function

On vehicles with CIC the video-in-motion function is activated permanently without disturbing the navigation performance.

On vehicles with CCC press the menu-button or the iDrive wheel for about 3 seconds while in **main menu** to activate/deactivate the video-in-motion function. When the ignition is off, the video-in-motion interface will be automatically disabled.

Alternatively for CCC it is possible to set dip-switch 1 to ON. Please note that the navigation performance is disturbed on the first few kilometres of driving.

4. Specifications

Operation voltage	10.5 – 14.8V
Stand-by power drain	>1mA
Operation power drain	~60mA
Power consumption	~0,72W
Temperature range	-30°C bis +80°C
Weight	44g
Measurements (box only) B x H x T	70 x 20 x 47 mm

