

TV-Free Video-in-motion Interface

TF-MFD2

Compatible with Audi RNS-E, Volkswagen MFD2/RNS2 and Skoda Nexus 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.

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.

Contents

1. Prior to installation

- 1.1. Delivery contents
- 1.2. Check compatibility of vehicle and accessories
- 1.3. Setting the Dip-switches of the CAN-Box TV-500
- 1.4. Pin-assignments

2. Installation

3. Activation of the video-in-motion function

4. Specifications

5. Technical support

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-500
HW_____ SW_____

Harness
TV-VN01



1.2. Check compatibility of vehicle and accessories

Requirements

Vehicle Audi A3, A4, TT (8J), VW Touareg; Golf 5, Touran, T5, Passat from years 2006, Caddy Live, Skoda Octavia 2 and other vehicles with MFD2/RNS2 navigation systems

Navigation Audi Navi Plus RNS-E, VW MFD2/RNS2 and Skoda Nexus navigation systems

Attention! Audi A6 with Navi Plus RNS-E have analog speed signal.

Limitations

Audi Navi Plus RNS-E While the video-in-motion function is active, the navigation will not work!

1.3. Setting the Dip-switches of the Can-Box TV-500

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
Audi Navi Plus RNS-E	OFF	OFF	OFF	OFF	OFF	OFF
VW/Skoda MFD2/RNS2/Nexus*	ON	OFF	OFF	OFF	OFF	OFF

* With dip1 to OFF on vehicles with MFD2/RNS2/Nexus the included green cable is used to activate the video-in-motion function.

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

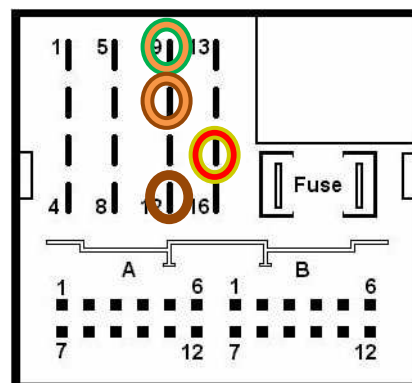
Dip 5 – CAN-bus termination resistor on the vehicle side

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

1.4. Pin-assignments

Pin-assignment vehicle connector

Cable colour	Assignment
● Red/Yellow	+12Volt Permanent Pin 15
● Brown	Ground Pin 12
● Orange/Green	CAN HIGH Pin 9
● Orange/Brown	CAN LOW Pin 10



Pin-assignment of the CAN-Box TV-500 (Molex 8pin)

Cable colour	Pin-No.	Assignment
● Yellow	Pin 4	CAN-HIGH – connection to the head-unit
● Blue	Pin 3	CAN-LOW – connection to the head-unit
● Yellow/Black	Pin 8	CAN-HIGH – connection to the vehicle
● Blue/Black	Pin 7	CAN-LOW – connection to the vehicle
● Red	Pin 1	+12V permanent
● Black	Pin 5	Ground
● Green	Pin 6	Activation of the video-in-motion function (+12V = TV-free activated)
● White	Pin 2	Trigger output (+12V DC 500mA)

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.

Instruction for Audi A3 und A4 with RNS-E:

1. Remove the navigation computer from the centre console with the accordant tool kit (not included).
2. Disconnect Quadlock connector from the backside of the navigation computer and connect it to harness TV-VN01. If the original Quadlock connector carries 12pin inserts, disconnect the inserts and connect them to harness TV-VN01. Connect TV-VN01 to the navigation computer.



Instruction for VW Touareg and T5 with MFD2/RNS2:

1. Remove the navigation computer from the centre console with the accordant tool kit (not included).
2. Disconnect Quadlock connector from the backside of the navigation computer and connect it to harness TV-VN01. If the original Quadlock connector carries 12pin inserts, disconnect the inserts and connect them to harness TV-VN01. Connect TV-VN01 to the navigation computer.



Instruction for VW Golf 5, Touran and Skoda with MFD2/RNS2/Nexus:

1. Remove decorative plastic panels of the navigation computer carefully, remove the 4 TORX screws and pull the navigation computer out of the centre console.
2. Disconnect Quadlock connector from the backside of the navigation computer and connect it to harness TV-VN01. If the original Quadlock connector carries 12pin inserts, disconnect the inserts and connect them to harness TV-VN01. Connect TV-VN01 to the navigation computer.



3. Activation of the video-in-motion function

On vehicles with **RNS-E** navigation system 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. After ACC is switched off, the video-in-motion function will be automatically deactivated.



Note: While the video-in-motion function is active, the navigation will not work! The loose white and green cable are not required and must be isolated.

On vehicles with **MFD2/RNS2** and **Nexus** navigation systems the video-in-motion can be activated and deactivated by Dip 1 or alternatively by the included loose green cable in connection with a switch (not included in delivery).

Video-in-motion permanent

With dip1 to ON the video-in-motion function is activated permanently without disturbing the navigation performance.

Video-in-motion selective

With dip1 to OFF the included green cable is used to activate the video-in-motion function.

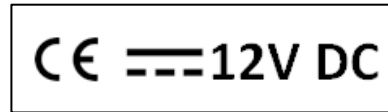
Connect a switch to the green cable and connect the green cable to +12V ACC.

- +12V = TV-Free is activated
- 0V = TV-Free is not activated

Note: The loose white cable is not required and must be isolated.

4. Specifications

Operation voltage	10.5 – 14.8V
Stand-by power drain	<2mA
Operation power drain	~60mA
Power consumption	~0,08W
Temperature range	-30°C to +80°C
Weight	44g
Measurements (box only) W x H x D	76 x 27 x 54 mm



5. Technical Support

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