

TV-Free

Video-in-motion Interface

TF-PCM31

**compatible with Porsche
PCM 3.1
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

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.

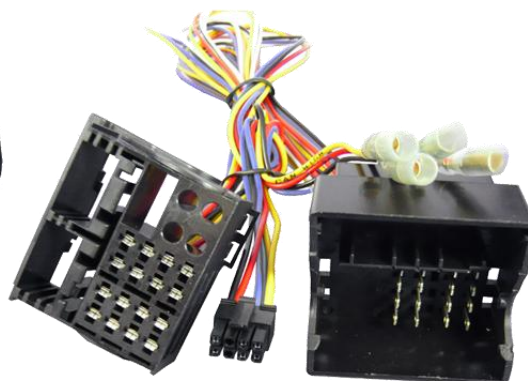
1.1. Delivery contents

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-NTG2



1.2. Check compatibility of vehicle and accessories

Requirements

Vehicle Cayenne E2, Panamera

Navigation PCM 3.1

Limitations

Internal DVD video cannot be watched!

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
Vehicles without rear-view camera or with after-market rear-view camera	ON*	OFF	OFF	OFF	ON	ON
Vehicles with factory rear-view camera	ON*	ON	OFF	OFF	ON	ON

* With dip1 to OFF 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 – Factory rear-view camera existing

Dip 3 – no function

Dip 4 – no function

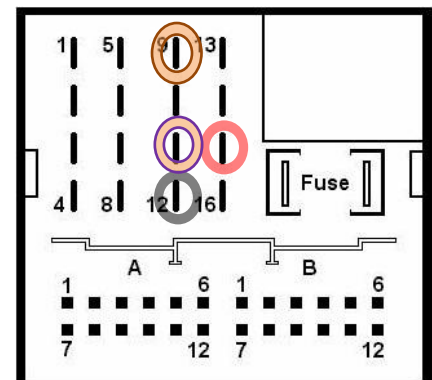
Dip 5 – CAN-bus termination resistor on the vehicle side

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

1.4. Pin-assignments

Pin-assignment vehicle connector

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



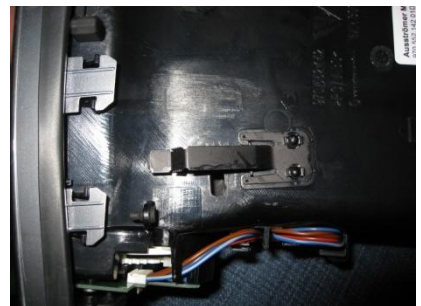
Pin-assignment of the CAN-Box TV-400 (Molex 8pin)

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.

1. The video-in-motion interface has to be installed in the back of the navigation unit. It is necessary to unmount the navigation unit.
2. Remove Quadlock connector from the navigation computer and connect it to Harness TV-NTG2.
3. Remove the both 12pin inserts from the original Quadlock connector and connect them together with the optical leads to the Harness TV-NTG2. Connect the TV-NTG2 to the navigation computer.



3. Activation of the video-in-motion function

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.

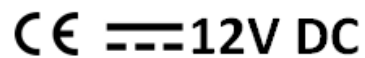
Connect a switch to the green cable and connect the green cable to +12V ACC.

- +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

A rectangular box containing the CE mark followed by the text '12V DC'. The '12V' is preceded by a double horizontal line, indicating a regulated power supply.

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