

TV-Free Video-in-motion Interface

TF-PC

**compatible with Citroen und Peugeot
RT3-N3 CAN, RT4, NG4 NaviDrive
and NG4 WipCom/WipNav
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.

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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-500
HW _____ SW _____



Harness
TV-PC

1.2. Check compatibility of vehicle and accessories

| Requirements | |
|---|---|
| <i>Vehicle</i> | Citroen, Peugeot |
| <i>Navigation</i> | RT3-N3 CAN, RT4, NG4 NaviDrive and WipCom/WipNav |
| Limitations | |
| <i>Vehicles without Source-button (only RT3-N3-CAN and RT4)</i> | The included green cable is used to activate the video-in-motion function (+12V = activated). |

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 |
|----------------------|-------|-------|-------|-------|-------|-------|
| NG4 NaviDrive/WipCom | ON | OFF | OFF | OFF | OFF | OFF |
| RT3-N3 CAN, RT4 | 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

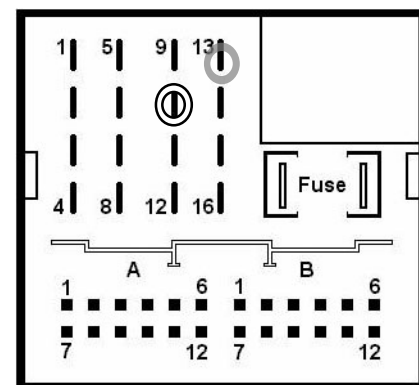
1.4. Pin-assignments

Pin-assignment vehicle connector

- White CAN High Pin 10
- Grey CAN Low Pin 13

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.

1. Using an unlocking device, unlock and pull out the navigation unit.

2. Disconnect the vehicle wiring harness Quadlock connector on the back of the navigation unit. The Quadlock connector consists of a number of chambers, the two 12pin inserts of which have to be disconnected from the Quadlock connector.



3. Connect the two 12pin inserts you have just disconnected from the vehicle wiring harness Quadlock connector to the interface Quadlock connector. Proceed by connecting the now fully commissioned interface Quadlock connector to the navigation unit. Then push the vehicle wiring harness Quadlock connector into the interface Quadlock socket.

2.1. Exception: Vehicles with RT3-N3 CAN and RT 4 without Source-button

On vehicles with RT3-N3 Can or RT 4 navigation system without Source-button 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: *As long as the video-in-motion function is activated, the **navigation will NOT be working!***

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

3. Activation of the video-in-motion function

On vehicles with **RT3-N3 CAN/RT4** press the “SRC”-button on the steering-wheel for 3 seconds to activate/deactivate the video-in-motion function. When the ignition is off, the video-in-motion interface will be automatically disabled.

Note: *As long as the video-in-motion function is activated, the navigation will NOT be working!*

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

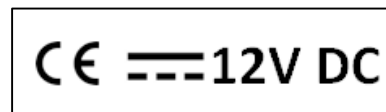
On vehicles with **NG4 NaviDrive/WipCom** the video-in-motion function is activated permanently without disturbing the navigation performance.

Note: *On some vehicles the navigation performance is affected and as long as the video-in-motion function is activated the navigation will not be working! In this case you have to connect the green cable as described in chapter “Exception: Vehicles with RT3-N3 CAN and RT 4 without Source-button” and set Dip 1 to OFF.*

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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