

TV-Free

Video-in-motion Interface

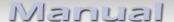
CI-TF-MGU19

Compatible with BMW from 2019 up with MGU navigation

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 two years after purchase will be offered. Labor cost for and other expenses involved with the software-updates will not be refunded.



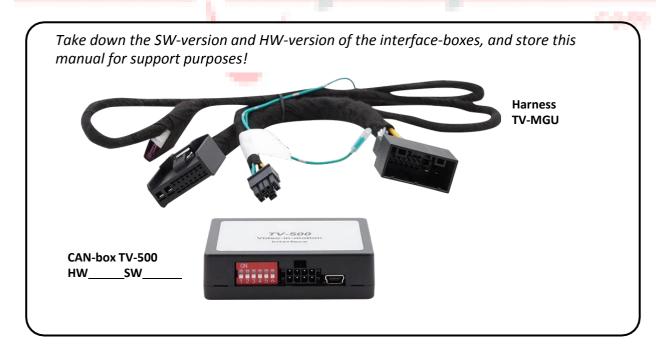
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1. Prior to installation

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





1.2. Check compatibility of vehicle and accessories

Requirements

Vehicle

1s (F40) 09/2019-, 2s Gran Coupé (F44) 11/2019-, 2s Coupé (G42) 08/2021-08/2022, **3s Sedan** (G20) 03/2019-08/2022, **3s Touring** (G21) 09/2019-05/2022, 3s M3 sedan (G80) 11/2020-07/2022, 4s Coupé (G22) 07/2020-07/2022, 4s Convertible (G23) 11/2020-07/2022, 4s Gran Coupé (G26) 07/2021-07/2022, 4s M4 Coupé (G82) 11/2020-07/2022, 4s M4 Convertible (G83) 07/2021-07/2022, 5s M5 Sedan (F90 LCI) 07/2020-, **5s Sedan** (G30 LCI) 07/2020-06/2023, **5s Touring** (G31 LCI) 07/2020-02/2024, 6s Gran Turismo (G32) 07/2020-, 7s Sedan (G11 LCI 03/2019-05/2022, 7s Sedan long (G12) LCI 03/2019-05/2022, **8s** (G14/G15/G16) 07/2018-, **8s M8** (F91/F92/F93) 07/2019-, **iX** (i20) 07/2021-03/2023, **X3M** (F97) 08/2020-06/2021, **X3M** (F97 LCI) 07/2021-, **X3** (G01) 07/2020-07/2021, **X3** (G01 LCI) , 08/2021-, **iX3** (G08 BEV) 09/2020-07/2021, **iX3** (G08 LCI BEV) 09/2021-, **X4M** (F98) 08/2020-06/2021, **X4M** (F98 LCI) 07/2021-, **X4** (G02) 07/2020-07/2021, **X4** (G02 LCI) 08/2021-, **X5** (G05) 08/2018-02/2023, **X5M** (F95) 12/2019-02/2023, **X6** (G06) 08/2019-02/2023, **X6M** (F96) 12/2019-02/2023, **X7** (G07) 2018-06/2022, **Z4** (G29) 11/2018-

Navigation

MGU navigation with 8.8inch, 10.25inch or 12.3inch monitor

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
All vehicles	ON	OFF	OFF	OFF	OFF	ON

^{*} With dip1 to OFF on vehicles with CIC 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
White	CAN HIGH Pin 9
• Green	CAN LOW Pin 16



No liability for vehicle wire colors and pin definition! Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

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

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)

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 is sleep-mode. In case the sleep-mode does not show success, disconnect the battery with a resistor lead.

Expose the head unit (usually in the centre console) and plug the TV-MGU pnp cable set between the power and CAN bus connection. Connect the TV-500 box to the TV-MGU harness.



3. Activation of the video-in-motion function

The video-in-motion can be activated and deactivated by Dip 1 or alternatively by the loose green cable in connection with a switch (not included in delivery).

<u>Video-in-motion permanent</u>

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

OV = TV-Free is not activated

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

