

**General**

The NavInc interfaces allow for connecting audio/video sources to the original navigation system of Mercedes.



The interface ensures that an input is created on the original Comand 2.0 & APS220 navigation system, on which one external audio/video source can be connected (e.g. DVD player, DVB-T TV, iPod, etc.). The images will be displayed on the navigation screen. The audio of the video sources will be played in stereo through the original audio system of the car.

The interface is equipped with an extra video input for the connection of a reversing camera.

Besides the interface creates analog signals through CAN-BUS. With these signals it is possible to control a reversing camera or the power supply of an external AV-source.

The following output signals will be available:

- +12V switched voltage (max 500mA)
- +12V reversing signal (max 1A)

**Features:**

- 1x Audio/Video input
- Camera input
- PAL/NTSC support
- CAN-BUS output signals
- CE-approved
- Plug & Play cable kit
- TV free for image retention while driving

- Extension of controls of the connected A/V sources



**The following is provided in the set:**

- NavInc AV-interface IF-MB-C20
- Plug & Play cable kit
- Installation- and user manual
- One year software warranty
- Warranty
- Invoice

**Product specifications**

Voltage: 12V DC

Voltage-operating capacity: 10,5 - 14,8V DC

Standby current: >1 mA

Operating current: 230 mA

Power input: 1,8W

Temperature range: - 30°C up to + 80°C

Weight: 210grs

Dimensions(W x H x D): 105 x 30 x 102mm

**Additional information:**

- Check at the tab "compatibility" on top of this page if your radio or navigation system is suitable for this product.
- It is not possible to connect an original DVB-T TV tuner and an audio/video interface at the same time. The original DVB-T TV tuner must be removed.
- Automatic activation of camera is not possible, this is only possible on interface level.
- Image retention while driving included.

**Optional:**

De NavInc AV-interface can be extended with operating software which enables to control the connected DVD player or DVB-T tuner through the original steering wheel and radio controls. See INTERFACE – operating software:

[http://www.navinc.nl/webshop/interface-besturing-software-c-486\\_489.html](http://www.navinc.nl/webshop/interface-besturing-software-c-486_489.html)

**Legal information:**

The driver of the vehicle should not be inferred from the motion images. In many countries, watching movies while driving is prohibited. Therefore we accept no responsibility for material or personal injuries, directly or indirectly,

due to installation of the interface modules.

#### **Interface and Software basic information:**

The NavInc interfaces are no navigation systems or screens to replace the navigation system. The NavInc interfaces enable the possibilities to connect different Audio/Video sources to the navigation system.

Manufacturers create adjusted software and hardware versions, options and enhancements which ensures that the compatibility of the products cannot be guaranteed 100%. Compatibility lists are based on customer feedback and experiences and will constantly be updated for optimal customer support.

The functioning of the interfaces may be influenced by software updates from the manufacturer/dealers. In such cases we will provide a software update for this interfaces (not applicable for all products) within one year after invoice date. The costs for (de)-installation of the interface must be paid by the customer and the interface must be supplied to us.

Car manufacturers create adjusted versions of software and updates without having informed third parties about it. We therefore recommend to not update the car if not necessary.

In exceptional cases it is possible that the interface is not accepted by the vehicle, even after replacing the interface or software updates. In such cases, we should looking for an alternative.

#### **Compatible with the following Mercedes models:**

##### **Mercedes**

- A-Class 1997 - 2004 W168
- C-Class 2000 - 04/2004 W203
- CL-Class 09/2002 - 09/2003 W215 (16:9)
- CLK-Class 1997 - 2002 W208/C208
- CLK-Class 2002 - 05/2004 W209/C209
- E-Class 1999 - 2002 W210 C2.0
- E-Class 2002 - 2005 W211 C2.0
- G-Class 2000 - 2006 W463
- M-Class 1998 - 2005 W163
- S-Class 09/2002 - 09/2003 W220 (16:9)
- SL-Class 2002 - 06/2004 (4:3) R230
- Vito 2000 - 2004 W

#### **Remarks:**

- Only in combination with Comand 2.0 & APS220 navigation system (CD navigation DX)
- It is not possible to connect an original DVB-T TV tuner and an audio/video interface at the same time. The original DVB-T TV tuner must be removed.
- Automatic activation of camera is not possible, this is only possible on interface level.

- Image retention while driving possible.
- When an original DVB-T TV tuner was installed it is possible that an optional TV free module is necessary (TF-MB-C20)

#### Comand 2.0 navigatie-unit:



#### Image of Comand APS 220

