

V1.0

INSTALLATION
GUIDE



CAR MEDIA SYSTEMS



VN1030

SMART MONICEIVER



Works with
Apple CarPlay

IMPORTANT NOTES

This guide is an aid for the professional installation of the device.

Please note the following notes before installation:

- Always handle all parts of the device and the components of your vehicle with care.
- Under all circumstances observe the regulations of the vehicle manufacturer and do not make any changes to the vehicle which could impair driving safety.
- For safety reasons, disconnect the vehicle battery's ground connection before installation.
- Please always pay attention to the correct polarity of the connections.
- Please do not modify any harnesses or connections of the device or the vehicle as this may affect the warranty.
- Make sure that no cables are squashed or cause a short circuit.
- Do not lay cables in front of the airbags, e.g. in the dashboard or in a way that affects their function.

 **NOTE:**

For many vehicle models, a vehicle-specific 1-DIN installation set is required for professional installation. In order to be able to use the existing steering wheel remote control of your vehicle, a vehicle-specific adapter may also be required. You can obtain information about this on the Internet or from your specialist dealer.

RECOMMENDED TOOLS

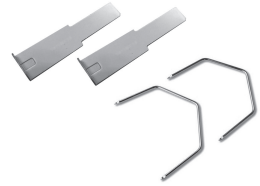


T25

Torx T25 screwdriver or bit



Phillips screwdriver



Unlocking tools



Cable ties



Plastic mounting wedges

INSTALLATION HINTS

Please note the following steps when installing the device:

1 Original radio / navigation system

If available, first remove the original radio / navigation device. Use suitable unlocking tools to pull the device out of the dashboard. Then pull the cable plug from the device and leave it accessible in the radio slot.

2 Cabling of the ESX main device

Lay the supplied cable sets and antennas in the vehicle. Please note the information on the next page. Then connect all cable sets, antennas and dongles to the ESX main device as described on page 6. Then plug in the cable plug from the radio slot of the vehicle on the ESX main unit or on its vehicle-specific system cable set.

3 Installation of the ESX main device

Now the ESX main device can be inserted into the 1-DIN installation slot of the vehicle.

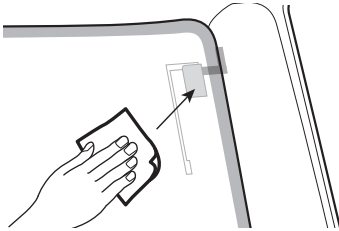
4 Functional test

Before you complete the installation, you should perform a function test. Check all functions of the ESX naviceiver including the steering wheel remote control of the vehicle.

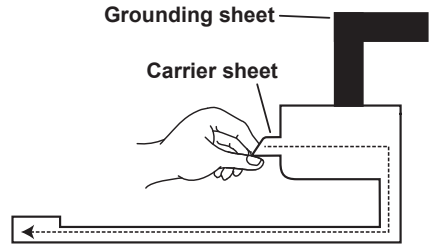
GENERAL INSTALLATION INSTRUCTIONS

DAB antenna

Route the DAB antenna to the windshield and attach it there.



Clean the windshield with a suitable cleaning cloth.



Remove the carrier sheet of the black amplifier unit and the foil antenna and stick the antenna to the window.

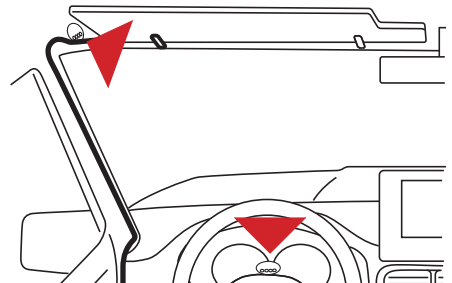
Glue the copper-colored metal surface of the grounding sheet to a bare metal part of the vehicle.

⚠ NOTE:

In newer vehicles, the original vehicle antenna can usually be used for both analogue and digital radio reception. The enclosed DAB window antenna should only be used if no fender or roof antenna is available.

External microphone


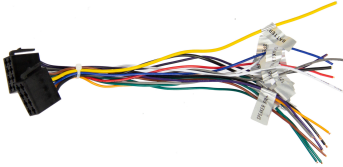
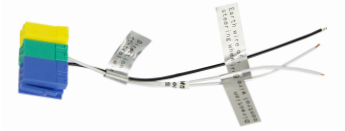
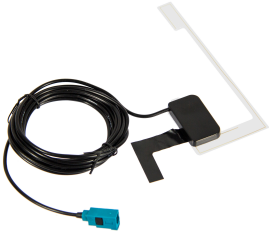


The external microphone should be positioned in an easily accessible location, e.g. next to the sun visor or on the steering column.



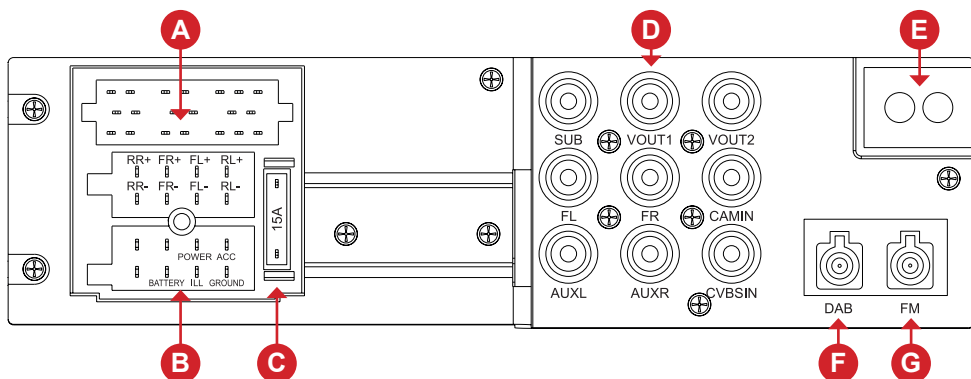
USB ports

Route the USB ports to the desired location, e.g. to the glove compartment.

SCOPE OF DELIVERY

ITEM	FIGURE	QUANTITY
1. Main device		1
2. Universal ISO connector for power supply and speakers		1
3. Universal adapter for steering wheel control		1
4. DAB antenna		1
5. USB extension cable		2
6. External microphone		1

CONNECTION DESCRIPTION



A Connection for steering wheel remote control *
 If your vehicle has a steering wheel remote control with a suitable system plug, you can plug it in here.

If your vehicle does not have a suitable system plug, you can connect the connections accordingly using the adapter supplied (page 5, no. 3):

Direction Control Wire A (white)	Key 1, left
Direction Control Wire B (white-black)	Key 2, right
Earth wire of steering wheel (black)	Ground

B ISO connector for power supply and speakers
 If your vehicle has a suitable ISO system plug, you can plug it in here.
 If your vehicle does not have a suitable ISO system plug, you can connect the connections using the adapter supplied (page 5, no. 2):

BATTERY (yellow)	Permanent plus (Battery)
12V ACC (red)	Ignition plus
GROUND (black)	Ground
Amplifier Control (blue)	Remote wire for ext. amps
ILL (orange)	Headlights
SWC GND (black)	Ground SWC*
KEY1 (green)	SWC left*
KEY2 (braun)	SWC right*

SPEAKER RR+ / - (purple / purple-black)	Speaker rear right
SPEAKER FR+ / - (gray / gray-black)	Speaker front right
SPEAKER FL+ / - (white / white/black)	Speaker front left
SPEAKER RL+ / - (green / green-black)	Speaker rear left

C Fuse (in the event of a defect, only for an equivalent exchange)

CONNECTION DESCRIPTION

D AV connections

If necessary, connect the corresponding RCA plugs here:

SUB (green)	Vorverstärkerausgang Subwoofer
VOUT1 (yellow)	Videoausgang 1
VOUT2 (yellow)	Videoausgang 2
FL (white)	Vorverstärkerausgang links vorne
FR (red)	Vorverstärkerausgang rechts vorne
CAMIN (yellow)	Rückfahrkamera
AUXL (white)	Audioeingang AUX links
AUXR (red)	Audioeingang AUX rechts
CVBSIN (yellow)	Frontkamera oder Zusatzkamera

E Additional connections

If necessary, connect the appropriate connections and cables here:

Camera +12V (red)	Power supply for cameras
Camera GND	Ground for cameras
PARK (pink)	Handbrake signal
REVERSE (orange)	Reverse gear signal
MIC	External microphone (page 5, no. 6)
SWC	Steering wheel remote control* (if A or B is not used)
Apple CarPlay	Extension for Apple CarPlay / Android Auto (page 5, no. 5)
USB	Extension for USB storage media (page 5, no. 5)

F DAB antenna (page 5, no. 4)

G Vehicle FM antenna connector

* **Steering wheel remote control:**

An existing steering wheel remote control can be integrated as described under A, B and E. Use one of the three options as needed.

In the enclosed owner's manual on page 10 you will find instructions on how the steering wheel remote control is taught in the device.

NOTE:

The handbrake signal must be connected to PARK. When the handbrake is applied, the signal must be connected to ground. According to legal regulations, the device may only play videos on the main screen when the handbrake is engaged. The connection cable must therefore not be permanently connected to ground. While driving, the screen is switched off to avoid accidents caused by carelessness.



CAR MEDIA SYSTEMS



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