

V1.1

OWNER'S MANUAL



CAR MEDIA SYSTEMS



VMX601 DAB

1-DIN 16 CM (6.3") MEDIA MONICEIVER



Works with
Apple CarPlay



works with
androidauto



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IMPORTANT NOTE:

Always follow the instructions in this manual before using the device. Keep this manual in the vehicle for future reference.

Legal notice

- All registered product names, trade marks and brands are the property of their respective owners.
- This owner's manual was made with the utmost care.
- Technical changes and errors reserved.

Due to the ongoing development of this device, it is possible that the information in this manual is incomplete or is not matching to the delivery status.

Please visit periodically www.esxnavi.de on the internet, to check if additional information and updates are available.

Care and maintenance

This device is equipped with high precision and sensitive technique and should always be treated with caution. Please note the following tips to avoid endangering the warranty and extend the life of the appliance.

- Children under 12 should not operate the device. Keep the device and all accessories away from small children.
- Keep the device and its components dry. The effects of water, liquid or moisture can cause damage to the vehicle, the device itself or injury.
- Keep the device and its components away from excessive heat. High temperatures may shorten the life of appliance of the electrical components.
- Keep the device and its components away from excessive cold. Extreme temperature changes and moisture inside the device may cause the breaking of certain components. Do not to drop the device and avoid violent shocks or excessive shaking.
- Do not use strong chemical cleaners, solvents or water to clean the device. Use a slightly moistened cotton cloth.
- Replace a blown fuse only with a new one with the same values. However, before replacing a defective fuse, first check what the cause of the short circuit is. Start with the power cable. If the fuse blows again, there is a malfunction in the device. In this case, you should contact your authorized dealer.

SAFETY INSTRUCTIONS

- Note any time the traffic regulations of the country in which the device is operated.
- Please ensure, that with the engine turned off the vehicle's battery does not discharge fully. The device is another electrical consumer which must be operated with the engine running, other-wise the vehicle's battery will be discharged and the vehicle can not be started.
- Set the volume of the device only as loud, that you are still be able to hear warning signals (e.g. police sirens) and traffic noise inside the vehicle.
- Operate the device as driver only if it's absolutely necessary and in the driving safety is not compromised. The same stands for looking at the screen. If necessary, better park your vehicle at a safe and appropriate location.
- The traffic rules of the EU prohibit to view moving pictures or movies while driving, if the screen of the device is installed within sight of the driver, as he may be distracted. View the screen as driver only for the navigation function, and then only briefly that you will not be distracted. Note at any time the local traffic regulations. In an accident, regress claims could be made by the car insurance company.
- This device is not a substitute for your personal judgment or perception. All suggested routes from the navigation system should never be taken as a reason to disregard the local traffic rules. Your personal assessment of traffic or your knowledge of safe driving practices is paramount. Always match your driving with the current traffic situation.
- Do not follow the suggested routes, if the navigation system instructs you to take an unsafe or illegal way, puts you in an unsafe situation, or directs you into an area which you consider unsafe.
- If problems occur while driving, park the vehicle in a safe and appropriate place to continue before you operate.
- Please use only the included original accessories. Ensure a sufficient mounting of the device by using the included installation accessories, as in the event of an accident enormous accelerations may occur. Poorly installed devices and equipment in accidents could represent a severe risk to the driver and the other passengers of the vehicle.
- Note under all circumstances the regulations and advice of the vehicle manufacturer and do not make any modifications to the vehicle, which could interfere with safe driving. Please treat all parts of the device and the components of your vehicle always with caution.
- Please avoid short circuits and make sure that no metal objects can get inside the device. Also make sure that all connections are properly connected and avoid the interchanging of the polarity of all connections. Complete the installation only while the ignition is turned off.
- In the event of a defect or malfunction, do not attempt to repair it by yourself or open the device, this is dangerous and could cause injury or damage to the equipment or vehicle. A repair should be done by trained and authorized personnel only. The device uses a Class 1 laser to read the disk. Eye contact with a laser is very dangerous to the human eye.
- If you connect an external device, you should first read the instruction manual of the external device and make sure that it is compatible. Avoid connecting an incompatible external device.
- Do not damage or scratch the screen with sharp objects. Do not operate the screen with hard objects.

SPECIFICATIONS

- Universal 1-DIN media moniceiver with 16 cm (6.3") touchscreen display
- Large rotary knob for volume and two function buttons on the control panel
- Compatible with Apple CarPlay® or Android Auto™ (wireless and USB)
- GPS receiver for optimized position determination in navigation applications
- Media player for audio, video and photo
Compatible file formats: AVI, FLV, MOV, MKV, WMV, WMA, MP3, FLAC, JPEG, PNG, BMP
- DAB digital radio (incl. active DAB antenna)
- FM/AM radio with RDS function
- Bluetooth® hands-free function including audio streaming
- USB-A port for media with charging function (1.5 A)
- USB-C port for Apple CarPlay® or Android Auto™ with charging function (1.5 A)
- 4 x 80 watts max. music output
- RCA preamplifier outputs with 4 V (FL/FR/RL/RR/SUB1/SUB2)
- RCA AUX inputs (L/R/VIDEO)
- RCA camera inputs CVBS/HD720p (FRONT/REAR)
- Custom boot logo
- Selectable RGB key panel with animation effect
- External and internal microphone
- Compatible with analog steering wheel remote control (can be learned)

SPECIFICATIONS RADIO TYPE

Function	Band information	Frequency	Maximum emitted power
Satellite system	GPS	1,575 MHz	–
AM Radio	Medium wave band	520 - 1720 kHz	–
FM Radio	Band II	87,5 - 108 MHz	–
DAB Radio	Band III (5A – 13F)	174,9 - 239,2 MHz	–
Bluetooth	Version 5.0	2402 - 2480 MHz	10,0 dBm
WiFi / W-LAN	IEEE802.11b/g/n/a/ac	2412 - 2484 MHz 5180 - 5825 MHz	12,0 dBm 18,0 dBm

DISPOSAL / RECYCLING

If you have to dispose the device and its components, please note that no electronic devices must be disposed in the household waste. Dispose the device and its components at a suitable recycling facility in accordance with local waste regulations. If necessary, consult your local authority or dealer.

More information at www.audiodesign.de/english/disposal



INTENDED USE OF THE DEVICE

This device is only suitable for operation in a vehicle with an on-board voltage of 12 volts with negative ground. In the event of misuse, incorrect installation or modification, the operating license and the warranty expire.

DECLARATION OF CONFORMITY



Distribution:

Audio Design Lautsprecher Vertriebs GmbH
Am Breilingsweg 3, DE-76709 Kronau/Deutschland

The Audio Design Lautsprecher Vertriebs GmbH hereby declares that the device **VMX601DAB** complies with Directive **2014/53/EU**. The full text of the EU declaration of conformity is available at the following Internet address: www.esxnavi.de/ce

SCOPE OF DELIVERY

- 1 x Main device with attachable display
- 1 x 1-DIN metal mounting frame including screw set and mounting rail
- 2 x Metal bracket
- 2 x Unlocking tool
- 1 x 20-pin system plug with ISO connection
- 1 x 16-pin ISO double connector with open cable ends
- 1 x Analog steering wheel remote control adapter
- 1 x External microphone including holder
- 1 x Active DAB Antenna
- 1 x DAB Antenna adapter Fakra on SMB
- 1 x GPS antenna including adhesive pad
- 1 x Replacement rotary knob in silver
- 2 x User Manual (English/German)

1. CONNECTIONS & INSTALLATION

The following instructions are an installation aid for professional installation of the device. Please note the following information 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.

IMPORTANT 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.

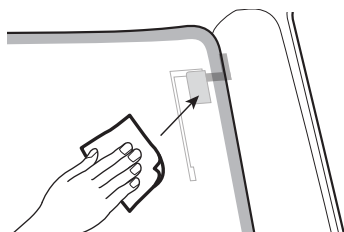
Please note the following steps when installing the device:

- 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 10/11. Then plug in the cable plug from the radio slot of the vehicle on the ESX main device 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 2-DIN radio 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.

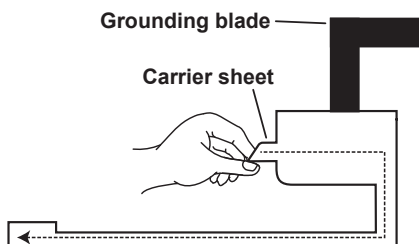
1. CONNECTIONS & INSTALLATION

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 from the black amplifier unit and the foil antenna and stick the antenna onto the window. Stick the copper-colored metal surface of the grounding blade to a bare metal part of the vehicle.

⚠ IMPORTANT NOTE:

In newer vehicles, the original vehicle antenna can usually be used for both analogue (FM/AM) and digital radio reception (DAB). If it does not have separate connections for FM/AM and DAB, a separately available antenna splitter must be used so that both connections on the ESX device can be used.

GPS antenna

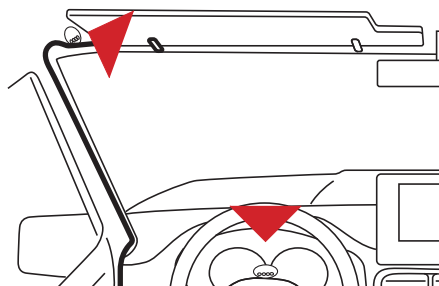
The GPS antenna should be glued horizontally to the dashboard with the adhesive side down. Reception is not possible with a metal-coated pane. Choose a level spot with a clear view of the sky.



Remove the foil on the bottom of the GPS antenna

External microphone

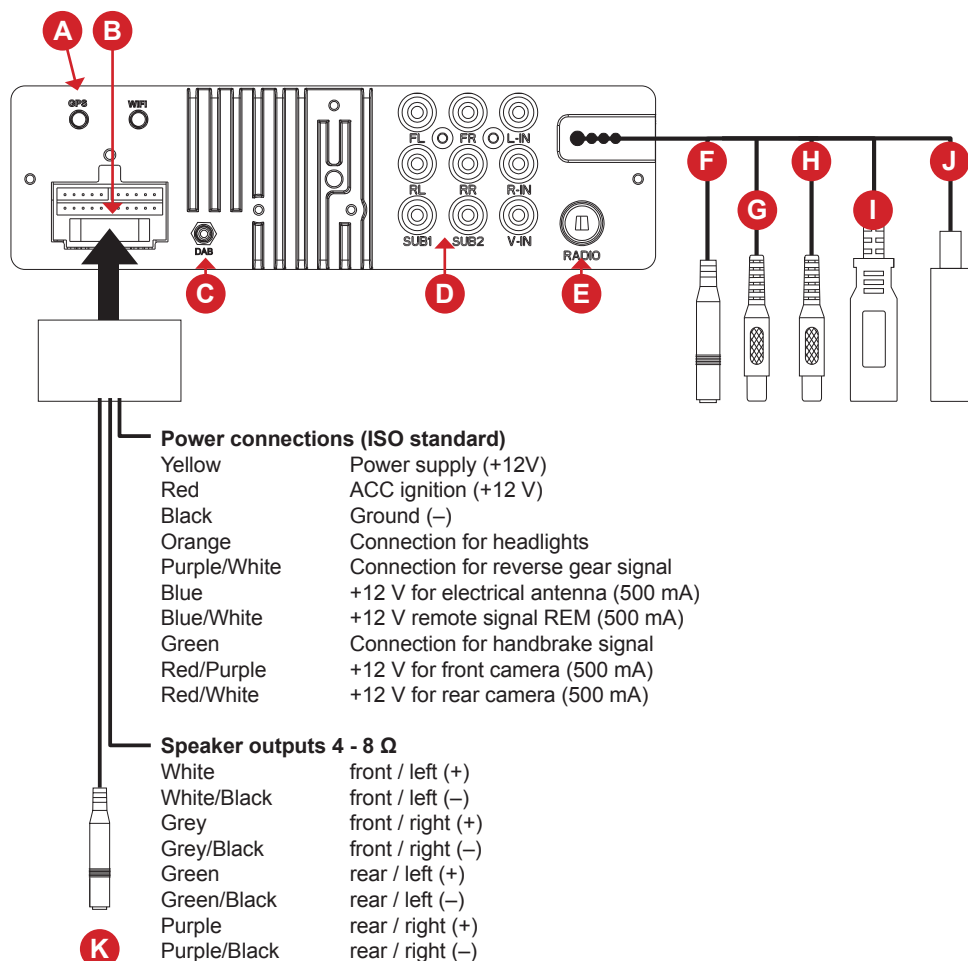
The external microphone should be positioned in an easily accessible place, e.g. next to the sun visor or on the steering column.



USB port

Route the USB ports to the desired location, such as the glove box.

1. CONNECTIONS & INSTALLATION



If your vehicle does not have a suitable ISO system plug, you must use the included 16-pin ISO double plug and connect the corresponding connections to the open cable ends as described above.

⚠ IMPORTANT NOTE:

The handbrake signal must be connected to the device and must be grounded when the handbrake is applied. According to legal regulations, the device may only display a video signal on the main screen when the handbrake is applied. The connection cable must therefore not be permanently connected to ground.

1. CONNECTIONS & INSTALLATION

A Connection for the included GPS antenna

B Fuse 15A (In the event of a defect, only exchange it for an equivalent one)

C Connection for the included DAB antenna

The active DAB antenna is equipped with phantom power; this means you must connect the antenna's black wire to the +12V power supply (e.g., to the blue wire of the ISO adapter for the electric antenna).

D AV-Connections

If necessary, connect the appropriate RCA plugs here:

FL (white)	Pre-amplifier output front / left
FR (red)	Pre-amplifier output front / right
RL (white)	Pre-amplifier output rear / left
RR (red)	Pre-amplifier output rear / right
SUB1 (blue)	Pre-amplifier output subwoofer
SUB2 (blue)	Pre-amplifier output subwoofer
L-IN (white)	Audio input AUX / left
R-IN (red)	Audio input AUX / right
V-IN (yellow)	Video input AUX

E Connection for the vehicle's antenna plug (an adapter may be required)

F Ø 3.5 mm jack for the included external microphone

G RCA connection for the input signal of the rear camera

H RCA connection for the input signal of the front camera

I USB-A port for media with charging function 1.5A

J USB-C port for Apple CarPlay®, Android Auto™ and media with charging function 1.5A

K Ø 3.5 mm jack for the included steering wheel remote control adapter

If necessary, connect the appropriate cables to the adapter here:

SWC Gnd (yellow)	Ground connection of the analog steering wheel remote control
SWC 1 (grey)	Connection of the analog steering wheel remote control / left
SWC 2 (red)	Connection of the analog steering wheel remote control / right

You can then teach the corresponding function keys on your analogue steering wheel remote control in the device. More about this on page 15.

2. CONTROL ELEMENTS

2.1 FUNCTION BUTTONS & CONTROLS



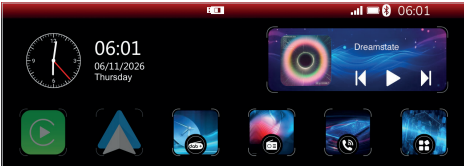
	Function	Description
1	Home menu	Press short to go to the home menu.
2	Volume	Turn the knob to adjust the volume.
	Mute	Press short to activate mute.
	Stand-by	Press and hold the button to switch the device to standby mode.
3	Voice assistant	Press here to activate the voice assistant of your connected smart-phone.
4	Reset	If the device no longer responds to inputs, you can reset the device using the small opening below the display. Press the button for more than 3 seconds to restart the system and reset it to factory settings. All your settings will be lost during the reset. Use a suitable pointed object, such as a paper clip, to do this.

2. CONTROL ELEMENTS

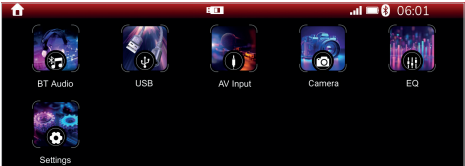
2.2 MAIN MENUS

This device features a very user-friendly menu that you can operate by simply tapping or swiping. More information about the individual applications and functions of the device can be found from page 21 onwards.

Start menu



App menu



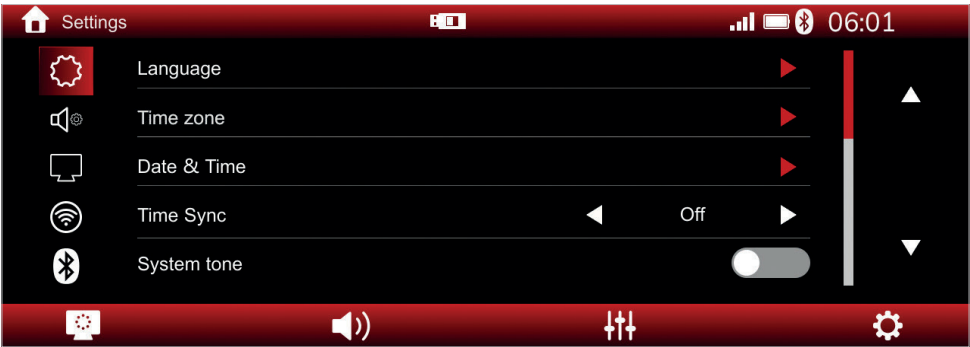
2.3 STATUS BAR

The device's status bar is located at the top of the screen. The information and symbols displayed there have the following meanings:

Symbol	Function	Description
	Start menu	Tap it to go to the start menu.
	CarPlay	Tap to open CarPlay if the device is connected to a smartphone.
	Android Auto	Tap to open Android Auto if the device is connected to a smartphone.
	Time	Current time.
	USB medium	This symbol appears as soon as a USB medium is connected to the device.
	Signal strength	This displays the current signal strength of the mobile network connection of the smartphone connected to the device. This symbol disappears if a connection with CarPlay or Android Auto is active.
	Battery charge level	This displays the current battery level of the connected smartphone. This icon disappears if a connection with CarPlay or Android Auto is active.
	Bluetooth	This symbol appears as soon as the device is connected to a smartphone via Bluetooth. This symbol disappears if a connection with CarPlay or Android Auto is active.

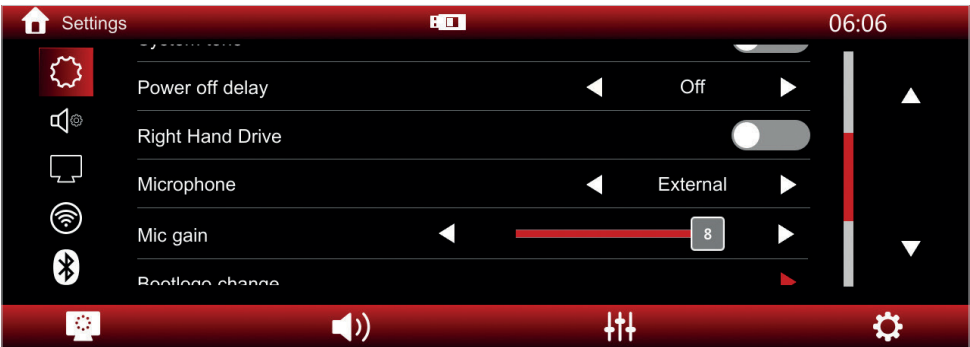
3. SETTINGS

3.1 GENERAL



In the “Settings” menu, you can configure various device settings using the icons on the left. Tap one of the red triangles to open the corresponding submenu, or tap the white triangles to scroll up or down.

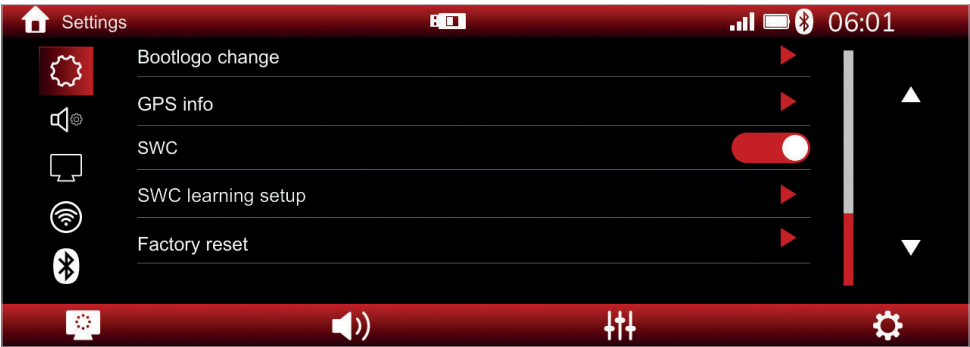
- **Language:** Here you can set the menu language.
- Under **Time zone**, you can select your preferred time zone if you wish to change the one automatically detected. This menu cannot be accessed if manual entry is selected.
- **Date & Time:** Here, the time format, date, and time can be set manually.
- Next to **Time Sync**, you can synchronize the current time and date display via GPS or a paired smartphone.
- The slider next to **System tone** activates the audible confirmation tone that sounds whenever you tap one of the controls.



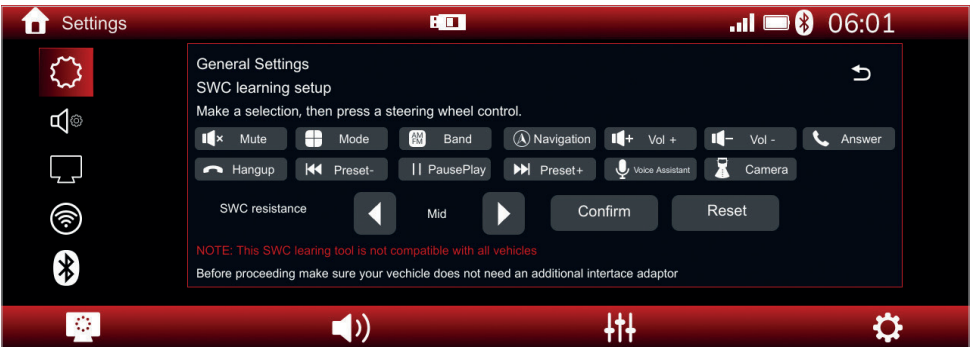
- **Power off delay:** Here, you can use the – / + buttons to set the number of seconds the device remains on after the ignition is switched off.
- **Right Hand Drive:** Here, you can specify whether the vehicle is right-hand drive.
- **Microphone:** Select the microphone you wish to use here. Choose “External” for the microphone mounted on the windshield. Choose “Internal” if you want to use the microphone located on the front of the unit, next to the rotary knob. You can adjust the microphone sensitivity using the **Mic gain** setting.

3. SETTINGS

3.1 GENERAL



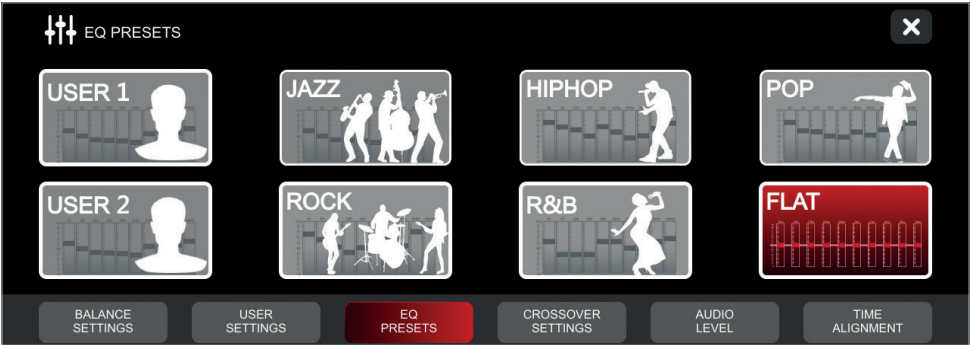
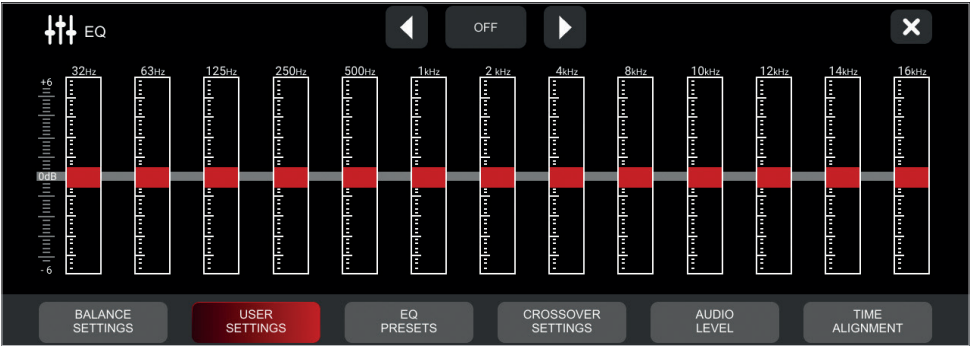
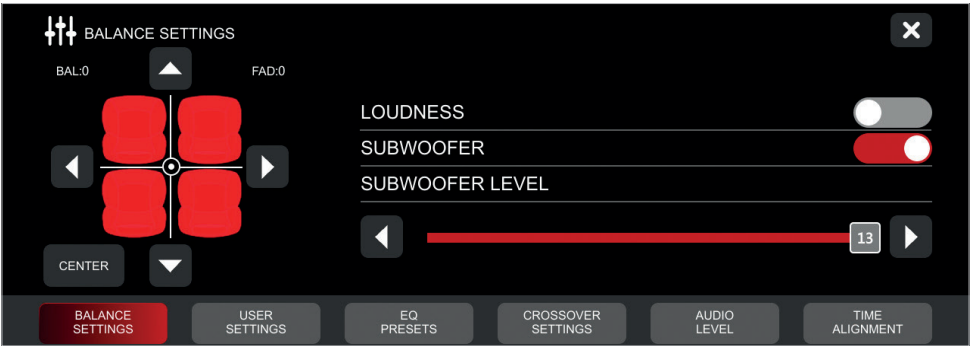
- **Bootlogo change:** You can set your own startup logo here. Save a JPG file named “**changelogo.jpg**” with dimensions of 1280 x 452 pixels to the root directory of the connected USB flash drive (max. 32 GB).
- **GPS info:** This section displays information about available GPS satellites used to determine the device's position.
- **SWC:** This function must be enabled if you wish to use your vehicle's steering wheel controls.
- Under **Factory reset**, you can reset the device to its factory settings. This will delete all saved parameters, settings, and data.



- **SWC learning setup:** This option allows you to reset the device to its factory settings. Please note that this will delete all saved parameters, settings, and data.

3. SETTINGS

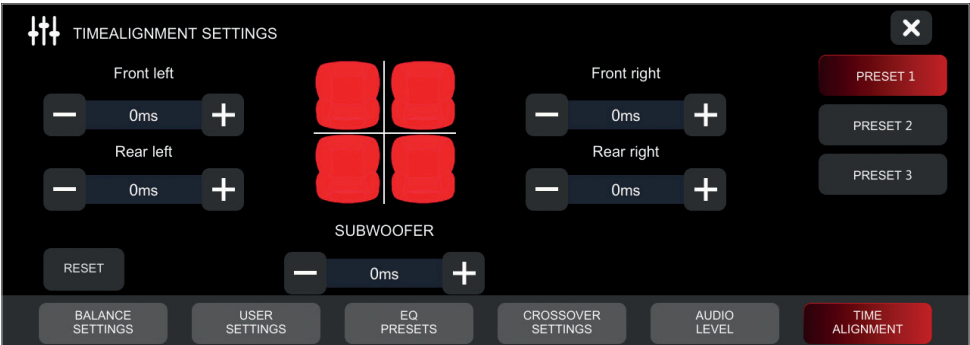
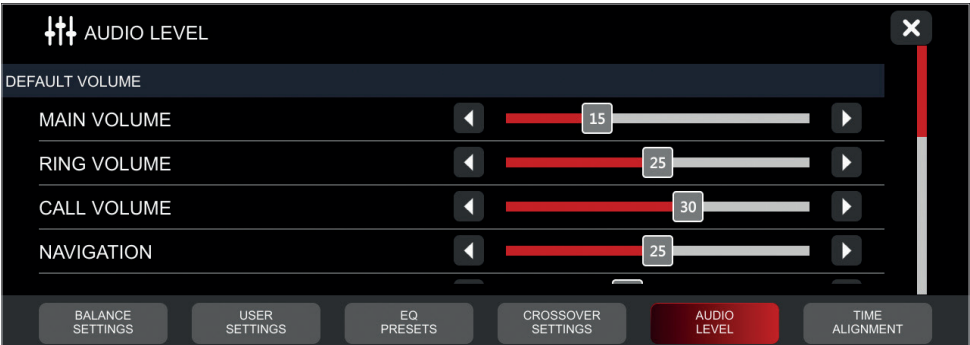
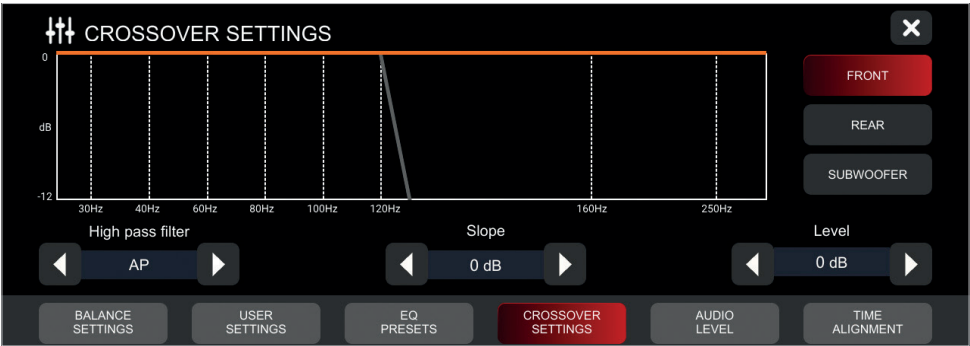
3.2 AUDIO



- Under **BALANCE SETTINGS**, you can adjust the soundstage. To the right, you will find the subwoofer settings, should you be using a subwoofer with the device.
- With **USER SETTINGS**, you can manually adjust the 13-band equalizer or select one of the presets using the < / > buttons.
- Under **EQ PRESETS**, you can select one of the pre-configured sound profiles.

3. SETTINGS

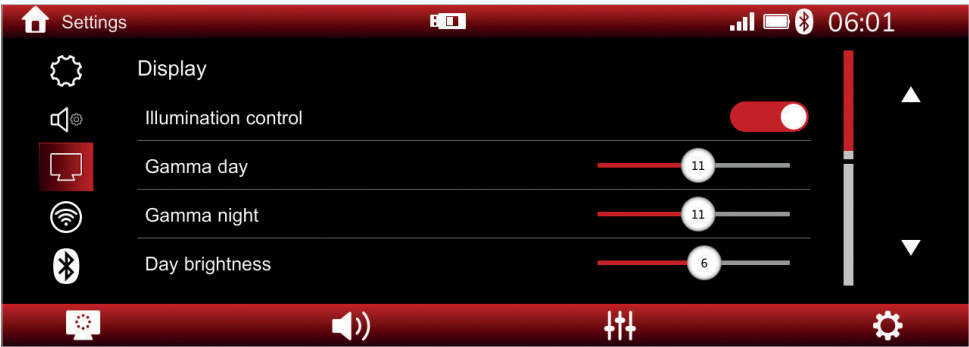
3.2 AUDIO



- The **CROSSOVER SETTINGS** allow you to freely adjust the crossover frequency, slope, and level boost for the FRONT and REAR channel pairs as well as the subwoofer.
- Under **AUDIO LEVEL**, you can adjust the levels for individual applications.
- **TIME ALIGNMENT** allow you to adjust the time delay for each speaker and the subwoofer. To the right, you will find PRESETS 1–3, which you can configure.

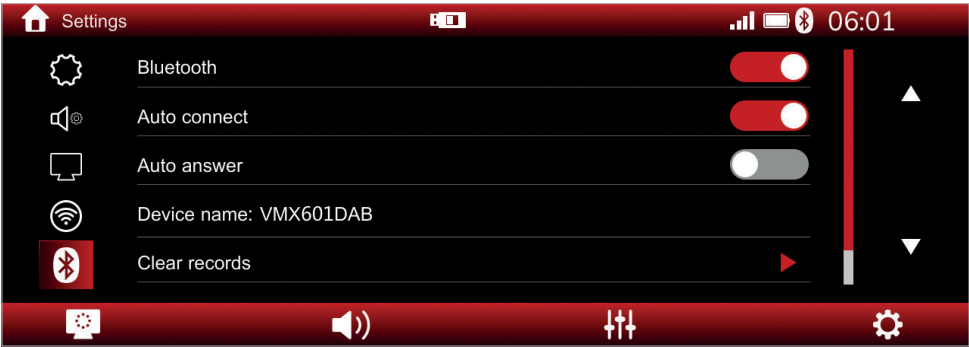
3. SETTINGS

3.3 DISPLAY



- **Illumination control:** When enabled, you can control the day and night lighting modes via the connected low-beam signal.
- Using the following four controls, you can separately adjust the display brightness and gamma value for day and night modes.
- **LED Panel light:** Here, you can select the color for the button and ambient lighting. With the animation effect enabled, the colors change continuously.
- Under **Wallpaper** you can select a different background image and adjust its brightness.

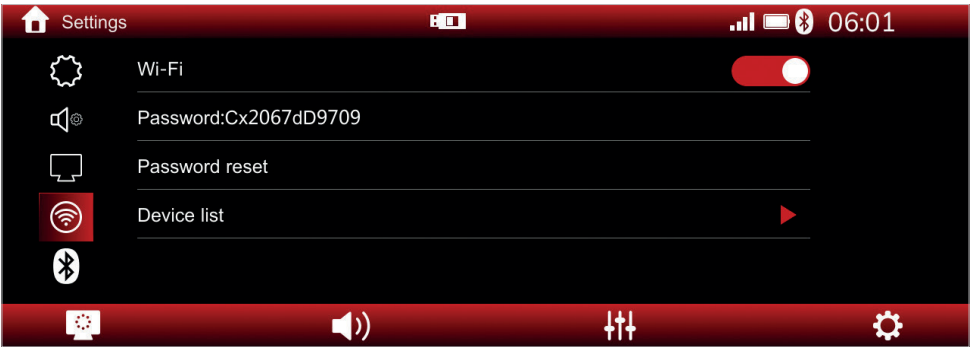
3.4 BLUETOOTH



- **Bluetooth:** Activate this function if you wish to connect your smartphone to the device for hands-free operation. This function is also required for Apple CarPlay and Android Auto. Confirm any necessary permissions on your smartphone if prompted.
- Under **Auto connect** and **Auto-answer**, you can specify whether your smartphone should automatically connect to the device after a restart and whether calls should be answered automatically. Under **Clear records** you can remove previously registered devices.

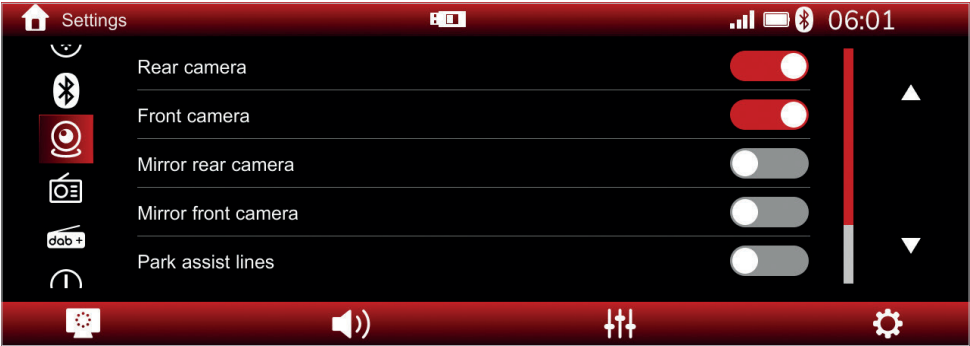
3. SETTINGS

3.5 WI-FI



- **Wi-Fi:** This function is required for Apple CarPlay and Android Auto. It also allows you to provide a Wi-Fi hotspot for other devices.
- The password reset function allows you to clear the device's password and set a new one.
- In the **Device list**, you can select a compatible smartphone to connect to the unit. You can also delete previously registered devices there.

3.6 CAMERA



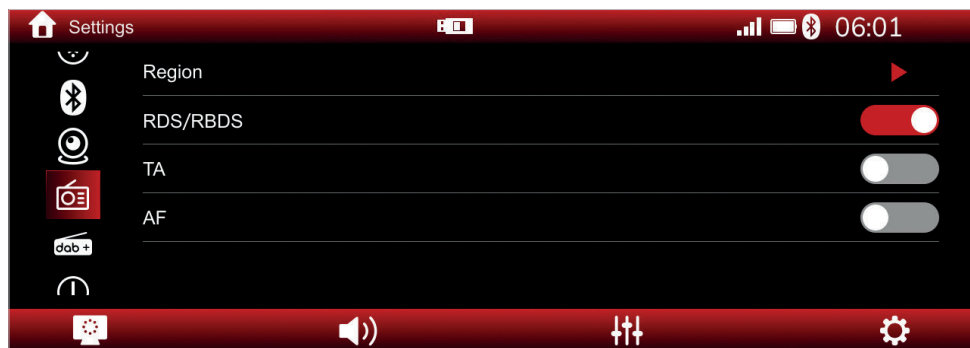
- **Camera:** In this section, you can configure various settings for the connected cameras, such as activating the rear or front camera or mirroring their views.
- Use the slider next to **Park assist lines** to enable the rear camera's guide lines. You can adjust these guide lines using the "Adjust parking lines" option.
- Next to **Rear view camera delay**, you can use the "+" button to set the delay (in seconds) before the rear-view camera image appears on the display after shifting into reverse.

The device supports the connection and operation of cameras using the following video signals:

- CVBS (analog video signal)
- HD720p (high-definition video signal with 1280 × 720 pixels)
- Please ensure that the connected camera supports one of these formats to guarantee proper operation.

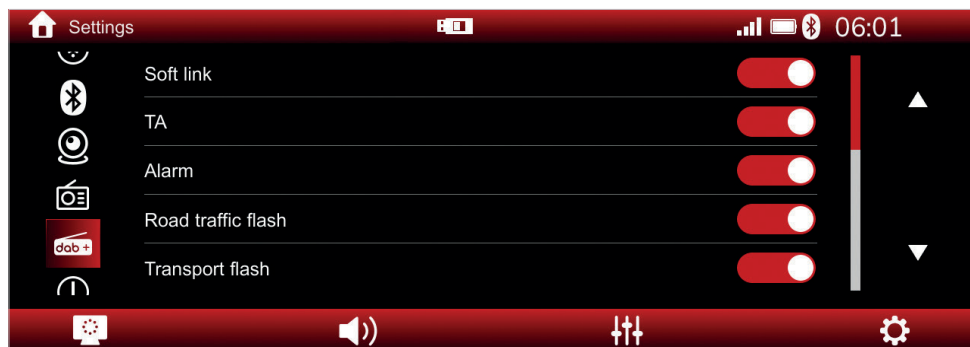
3. SETTINGS

3.7 RADIO



- **Radio:** Here you can configure various settings for analog radio reception.
- **Region:** Select the reception area.
- RDS/RBDS enables the transmission of additional information or messages from radio stations.
- If **TA** is activated, traffic announcements from the last-listened FM station are permitted while playing other media.
- **AF** allows the radio to switch to an alternative, better frequency for the station within the network if the reception signal is too weak and an alternative frequency is available.

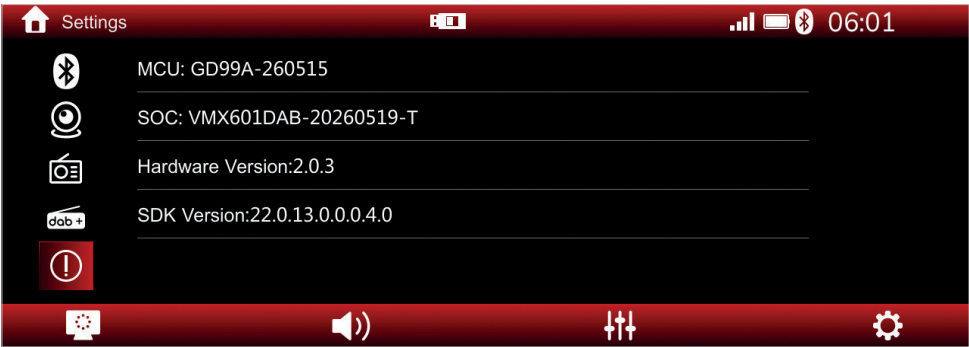
3.8 DAB



- **DAB:** Here you can configure various settings for digital radio reception.
- In addition to **Soft Link**, you can enable automatic switching to a similar program on another station if reception becomes weak.
- If **TA** is activated, traffic announcements from the last-listened DAB station are permitted while playing other media.
- Further down, you can activate additional options for DAB reception.

3. SETTINGS

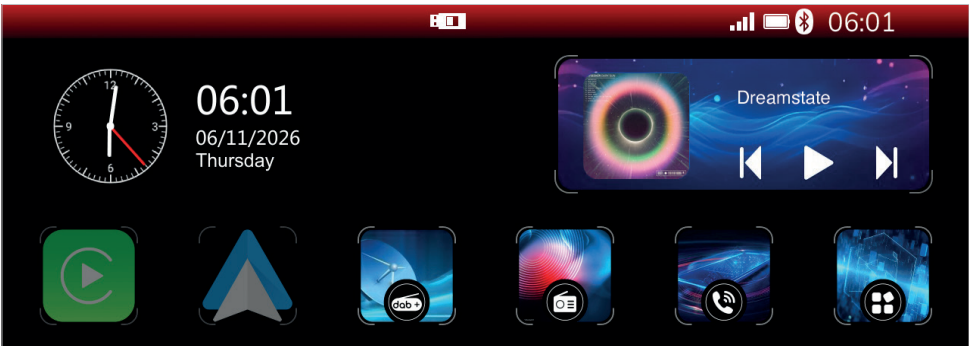
3.9 ABOUT



- Next to the **exclamation mark icon**, you will find various information about the device.

4. APPLICATIONS & FUNCTIONS

4.1 START & APP MENUS



- At the bottom of the **Start menu**, you will find basic applications such as Apple CarPlay, Android Auto, DAB radio, AM/FM radio, and the phone function. You can open the app menu at the bottom right.
- You will find additional applications and functions in the **app menu**.

4. APPLICATIONS & FUNCTIONS

4.2 APPLE CARPLAY & ANDROID AUTO

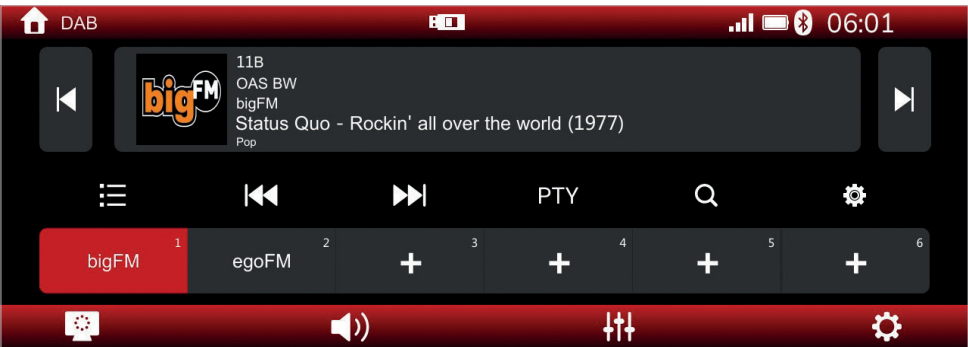


- To use **Apple CarPlay**, you must first connect your iPhone to the device via a USB charging cable or Bluetooth (see page 18). Bluetooth and Wi-Fi must be enabled on both devices. You may also need to enable the CarPlay function for this connection on your iPhone.
- To use **Android Auto**, you must first connect your phone to the device via a USB charging cable or Bluetooth (see page 18). Bluetooth and Wi-Fi must be enabled on both devices. You may also need to install the Android Auto app and enable it for this connection.
- If you have enabled **Auto connect** in the Bluetooth settings (see page 18), your phone will connect automatically each time until you delete the phone's registration or turn off Apple CarPlay or Android Auto.

IMPORTANT NOTE:

Please note that using some apps requires a mobile internet connection and may result in high data consumption.

4.3 DAB



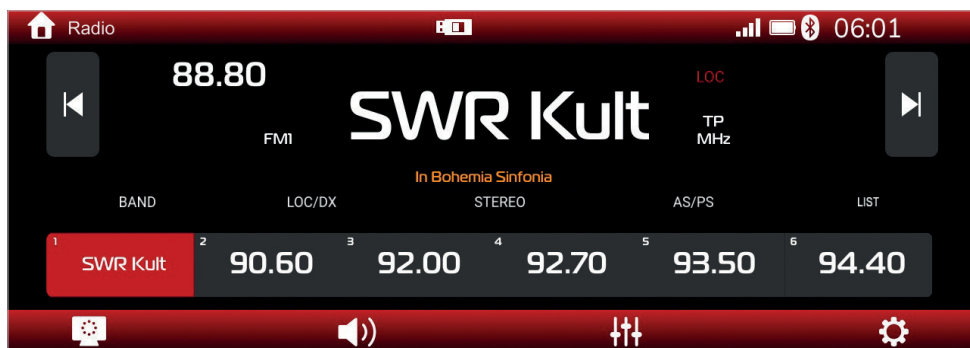
- First, perform an automatic channel scan by tapping the **magnifying glass icon**. Depending on reception conditions, this process may take a few minutes.

4. APPLICATIONS & FUNCTIONS

4.3 DAB

- After a successful station scan, you can select the found radio stations using the **left (down) and right (up) arrow keys**.
- Tapping the **list icon** opens the list of found radio stations, which can then be selected individually.
- The currently playing radio station can be saved to the **favorites bar** at the bottom. Press and hold the desired position to save the radio station as a favorite.
- Under **PTY**, you can select the desired station category for the station search.
- Under the **gear icon**, you will find further options for DAB reception.

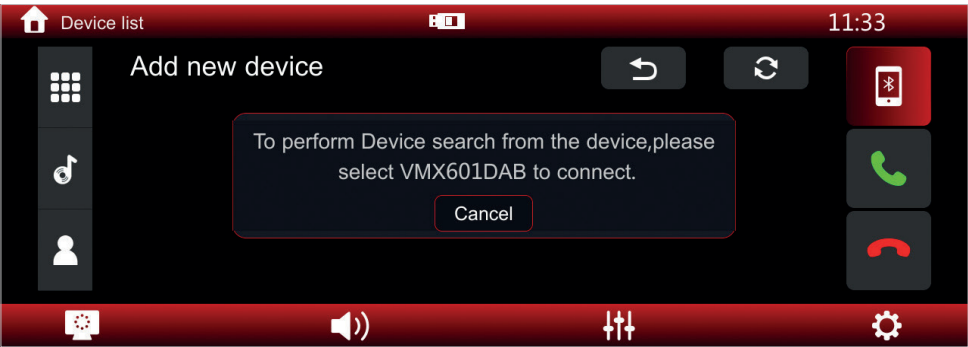
4.4 RADIO



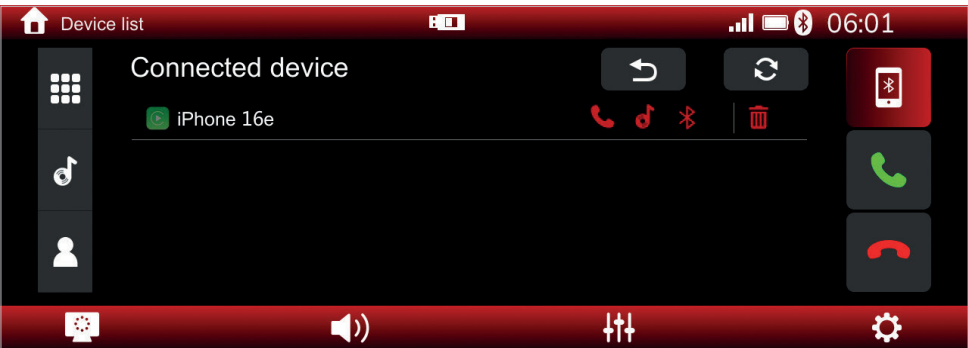
- Use the **BAND** button to switch between FM and AM (longwave). Each band has multiple memory slots where stations can be saved as favorites.
- Perform a station scan for each band. Press and hold the **AS/PS** button to start the search. Depending on reception conditions, this process may take a few minutes.
- Once the scan is complete, you can select the found radio stations using the **left (down) and right (up) arrow buttons**. Briefly pressing **AS/PS** again will play a short preview of each found station.
- The currently playing station can be saved to the **favorites bar** at the bottom. Press and hold the desired position to save the station as a favorite.
- Use the **LOC/DX** button to toggle between weak/distant (DX) stations and stronger local (LOC) stations.
- Use the **Stereo** button to switch a weak station to mono. Under **LIST**, you will find additional radio options as well as a station category search.

4. APPLICATIONS & FUNCTIONS

4.5 BT PHONE



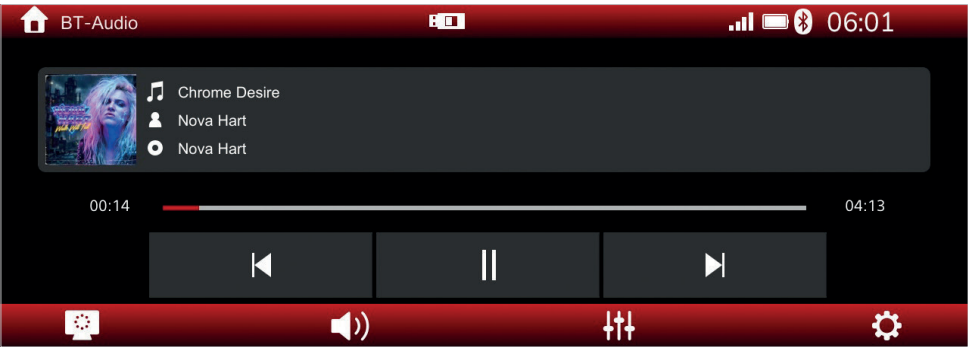
- **BT Phone:** Open the hands-free function menu here.
- Simultaneous use of Apple CarPlay or Android Auto and the hands-free function is not possible. One of the two functions must be deactivated if necessary.
- If your phone is not yet connected to the device via Bluetooth, please follow the instructions on page 18 or select your phone from the displayed list of devices. Ensure that Bluetooth is enabled on your phone.
- **Synchronization:** Confirm on your phone that you wish to synchronize your contacts and call logs with the device.



- Once the device is connected to your phone, you can tap the **keypad** or **contacts** on the left-hand control bar. You will also find your phone's call history there.

4. APPLICATIONS & FUNCTIONS

4.6 BT AUDIO

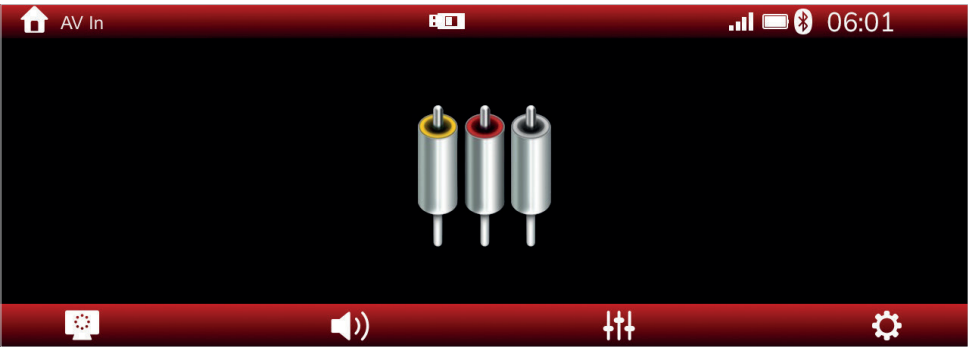


- **BT Audio:** Tap the music icon on the left (or in the app menu) and open the Bluetooth audio streaming application on your phone to select a track.
- If your phone is not yet connected to the device, please follow the instructions on page 18.
- **Controls:** The controls are located on the bar below, while playback options for BT audio playback are found at the top right.

 IMPORTANT NOTE:

Some older phones require you to manually start the audio player and manually select the playlist and track.

4.7 AV IN



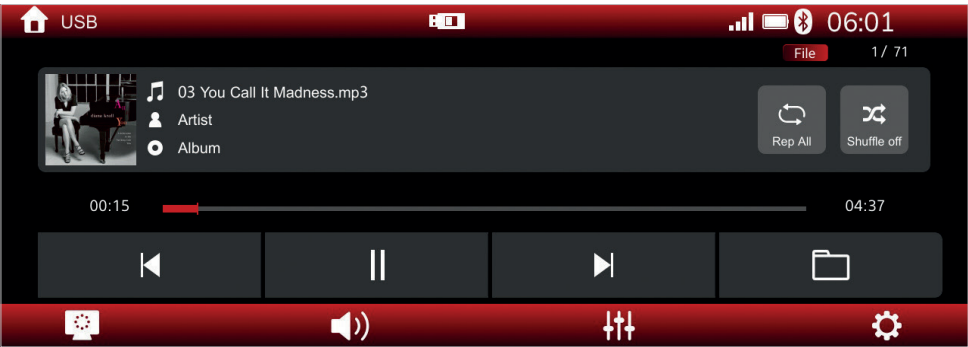
- **AV In:** Activate playback of external audio or video sources connected to the AV and AUX inputs.
- You must control playback using the external audio or video device.

 IMPORTANT NOTE:

No videos or moving images may be played while driving, otherwise the driver could be distracted.

4. APPLICATIONS & FUNCTIONS

4.8 USB



- **USB:** Compatible media such as music, videos, and photos can be played back here. To do so, the files must be stored on a USB device connected to the unit.
- **Controls:** The control panel located below houses the playback controls, while the media player's playback options are found in the top right corner.
- **Folder icon:** In the file manager, you can select from different media types—such as music, photos, or videos—or choose a second connected USB device using the options on the left.
- **Compatible file formats:** AVI, FLV, MOV, MKV, WMV, WMA, MP3, FLAC, JPEG, PNG, BMP

⚠ IMPORTANT NOTE:

No videos or moving images may be played while driving, otherwise the driver could be distracted.

4.9 CAMERA



- **Camera:** Open the camera display if you have a rear or front camera connected to the device.
- If you have two cameras connected, you can select the desired view using the control bar at the bottom.
- Please refer to the information on camera settings on page 19.





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