



MAIN MANUAL

R-D111

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SAFETY

WARNING

Driver distraction can lead to accidents and injuries.

Operating the RADICAL system may distract the driver's attention from the prevailing traffic conditions!

Connecting, changing or inserting data carriers may equally distract the driver's attention from the prevailing traffic conditions.

WARNING

Always ensure that loudspeaker volume allows sounds from outside the vehicle to be heard at all times (e.g. signal horns or sirens).

WARNING

Incorrect assembly or installation of the RADICAL system may result in damage to the RADICAL system or to the vehicle electronics. The device should only be installed by qualified personnel, authorized by RADICAL.

CAUTION

This RADICAL system is intended solely for operation with an on-board voltage of 12 V DC. Operating the RADICAL system at any other onboard voltage may result in damage to the RADICAL system or to the vehicle electrical system.

CAUTION

Dismantling or modifying the RADICAL system may result in damage to the device or the vehicle. Opening or modifying the device by personnel not authorized by RADICAL will invalidate the warranty.

In the event of a malfunction or fault, please contact an authorized RADICAL dealer.

CAUTION

Charging and connecting cables for mobile devices may cause an obstruction to the driver.

These should be positioned to ensure that the driver's movement is not impeded.

CAUTION

The driving recommendations and traffic signs displayed on the RADICAL system may differ from the actual situation. Traffic signposts and traffic regulations take precedence over the driving recommendations and signs displayed on the RADICAL system.

Adapt your driving behaviour and speed to the prevailing visibility, weather, road and traffic conditions.

DEVICE ON/OFF

AUTOMATIC ON/OFF

The RADICAL system is switched on with vehicle ignition.

The RADICAL system is switched off when the ignition is turned off or when the ignition key is removed.

NOTE

Pressing the power button on the front of the device does not switch it off. This only turns the screen off; the power connection to the device is maintained.

HOME SCREEN



- 1. Home
- 2. USB connection status
- 3. Bluetooth connection status
- 4. WiFi connection status
- 5. Time
- 6. Task manager
- 7. Back

HOME SCREEN NAVIGATION

You can flick through the pages of the home screen by swiping to the left or right.

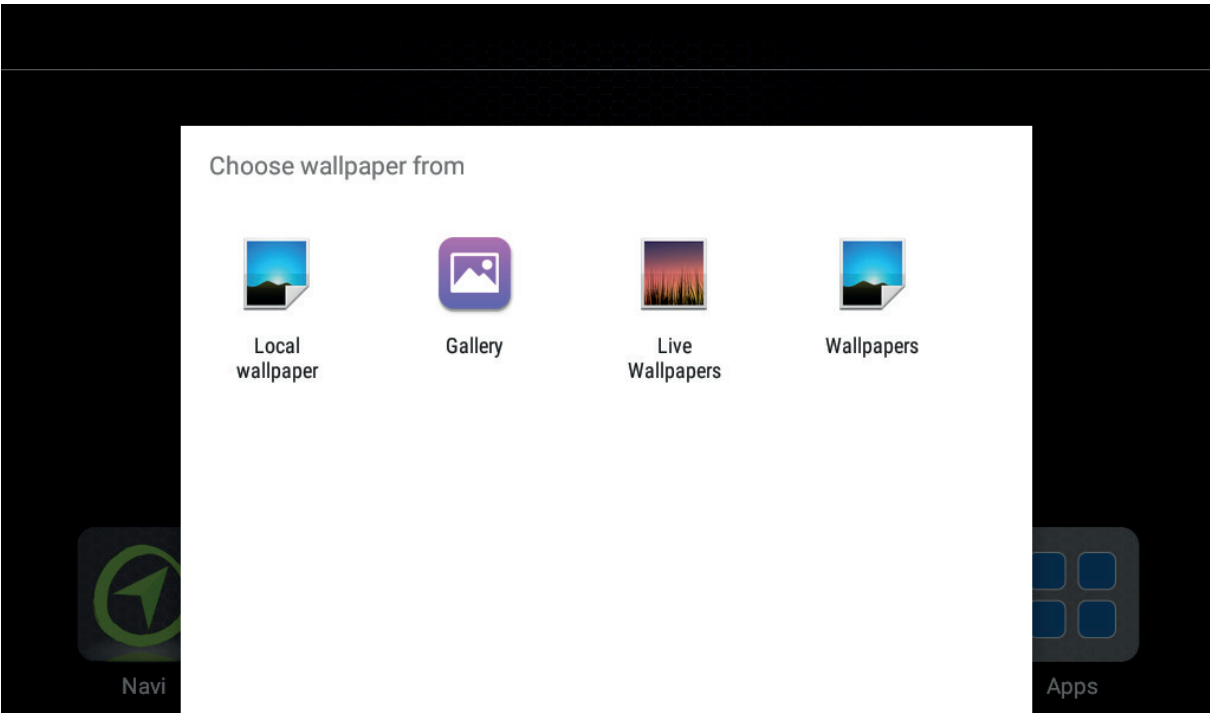




Tap on the relevant icon on the home screen to access the desired function.



The wallpaper can be changed by pressing and holding on a blank area of the home screen.



You can access the quick menu by swiping downwards.

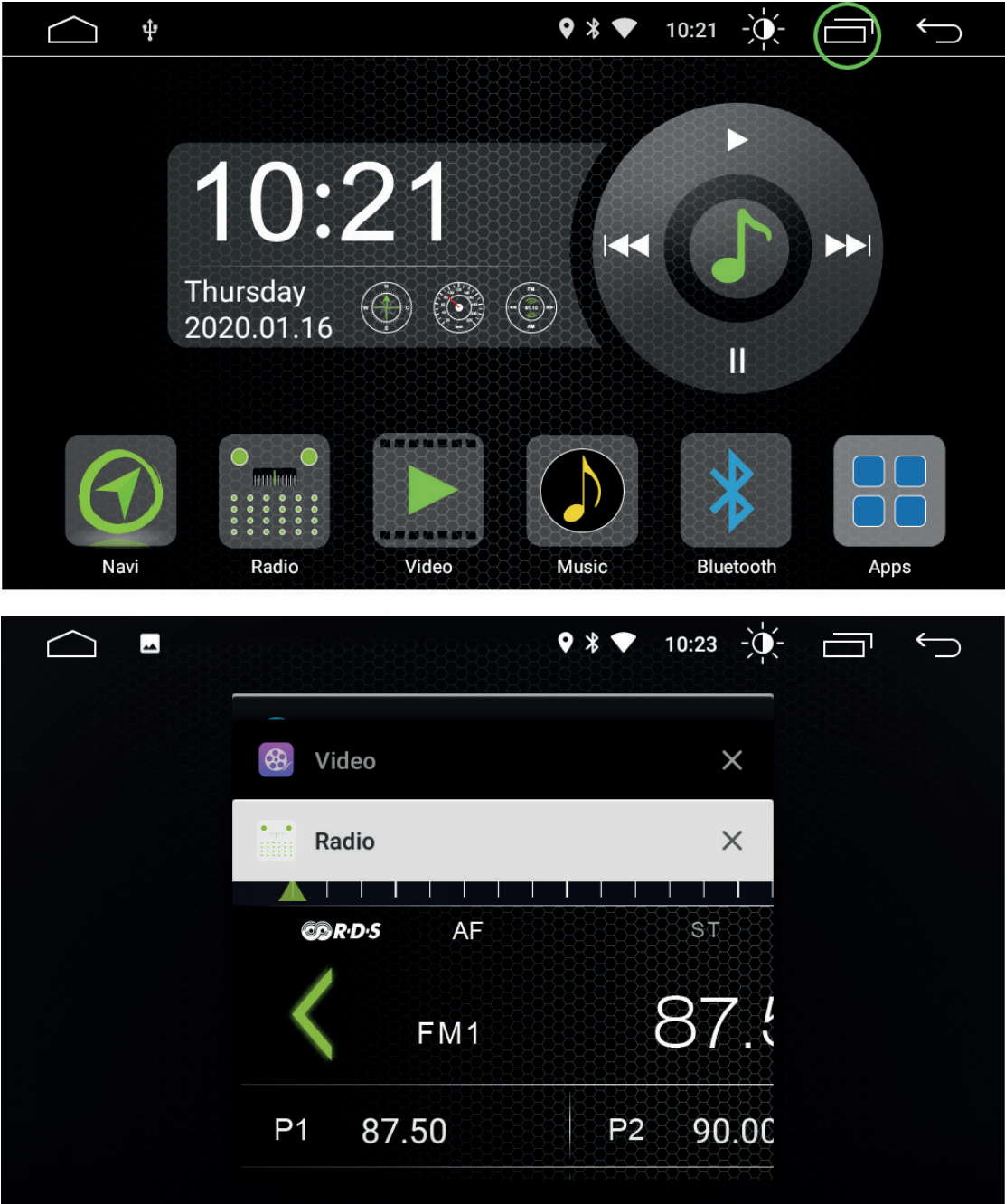


Many settings can be quickly accessed through the quick menu.





The task manager icon opens the task manager.



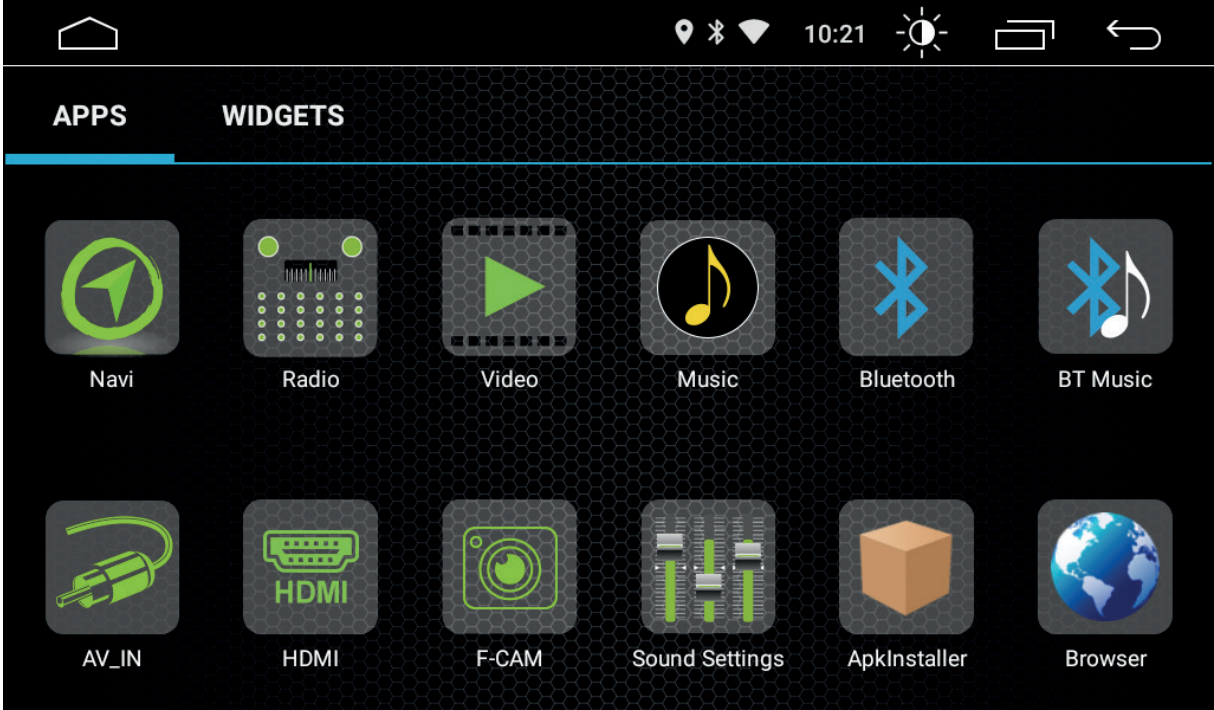
## APPS AND WIDGETS

### APPS

You can open the apps list page by tapping on the apps icon.



All installed apps are displayed on the apps list page.

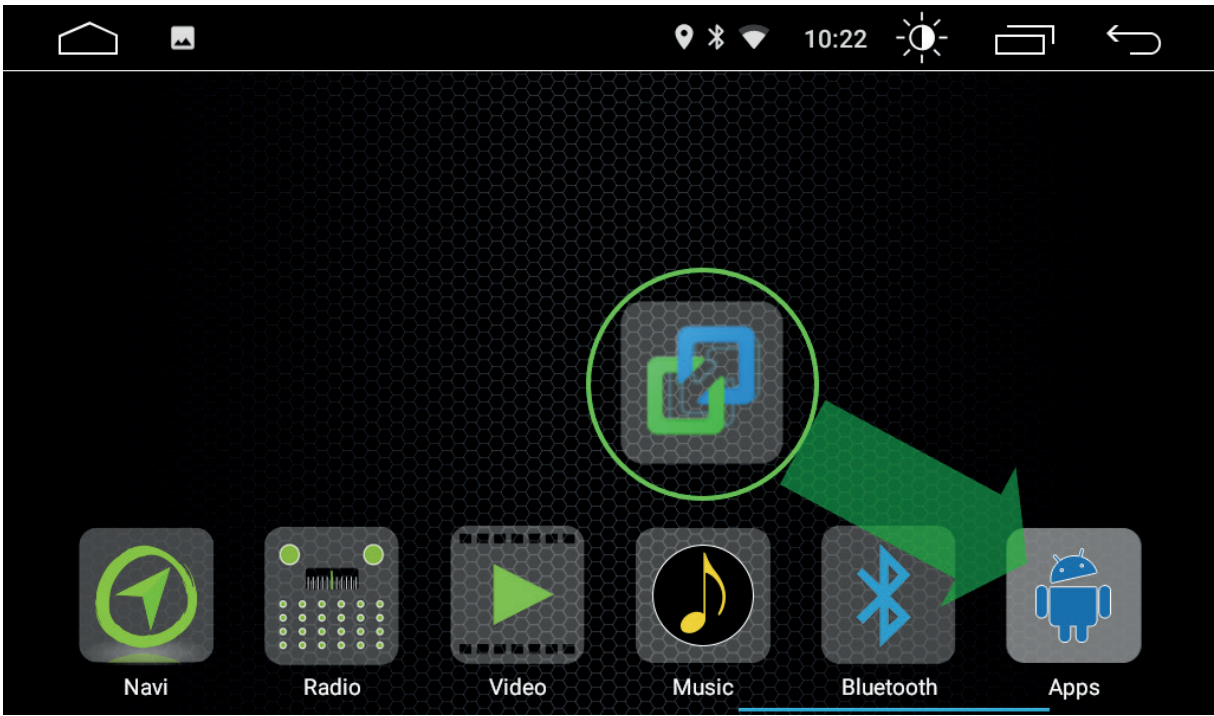




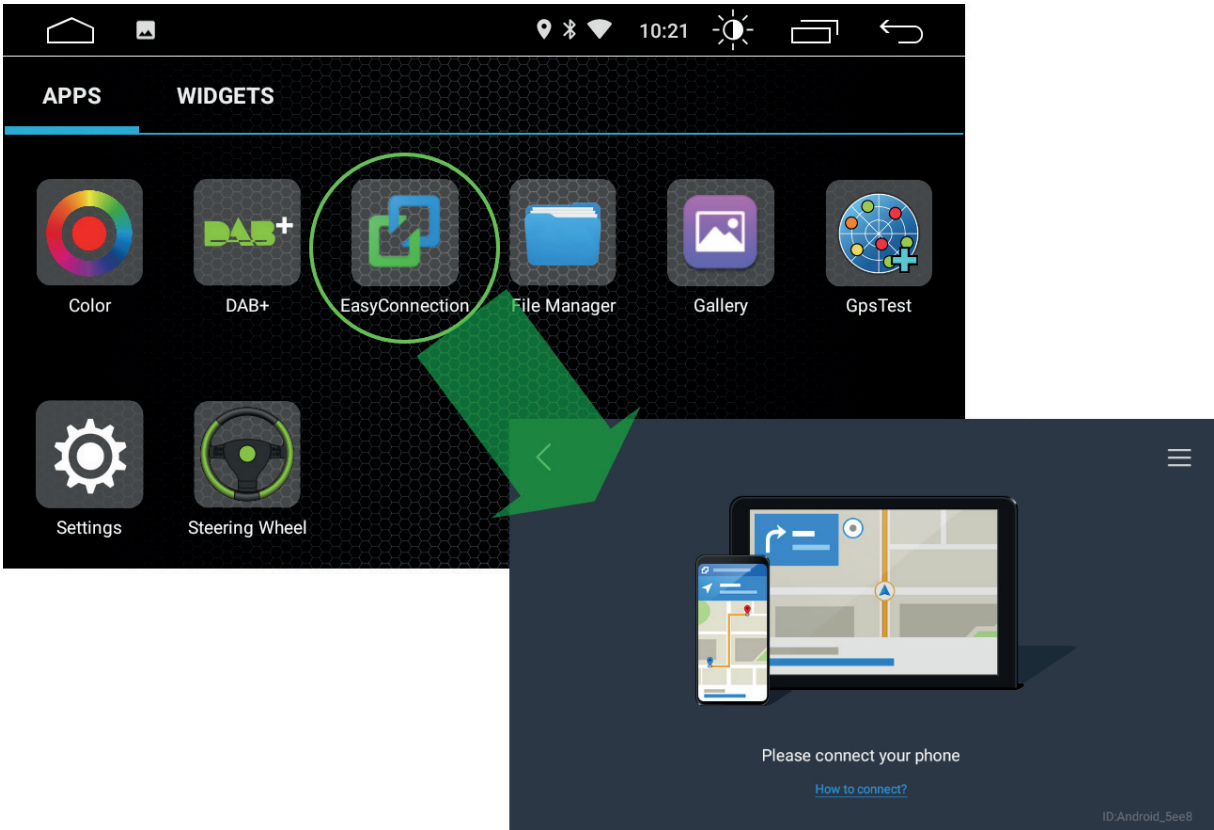
By pressing and holding on an app icon, the app icon can be pinned to the home screen.



To remove the app icon from the home screen, press and hold the icon and drag it to the trash.



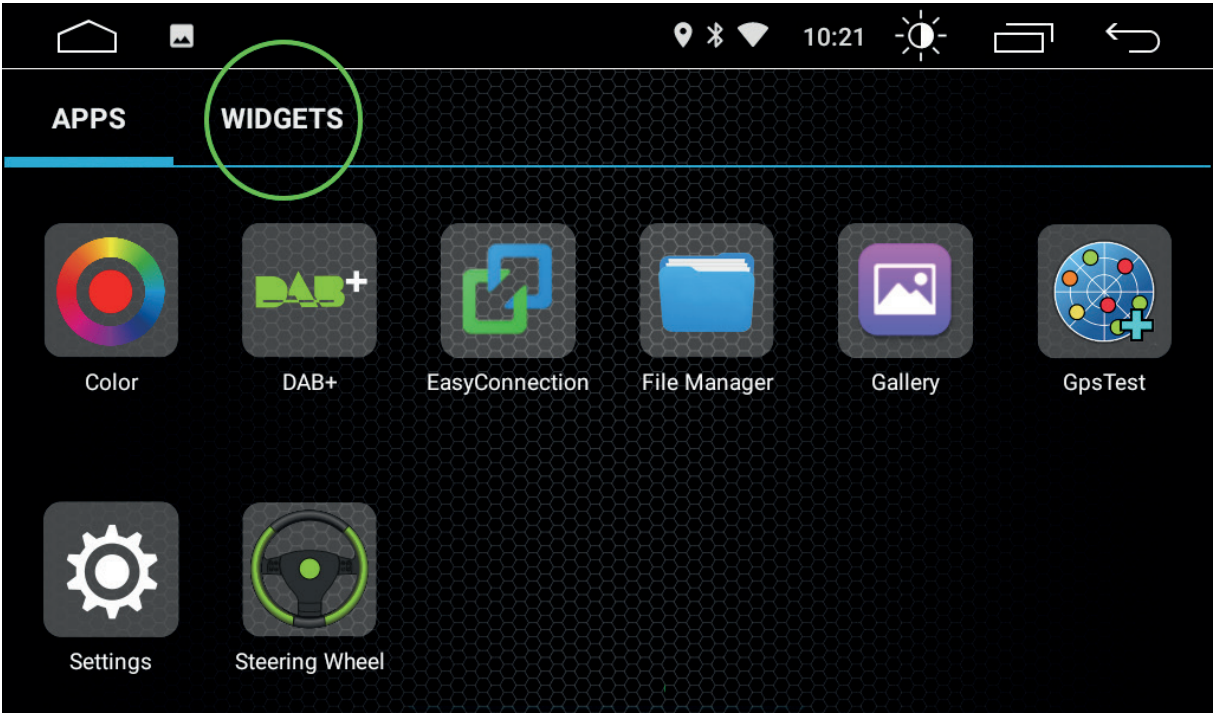
You can open an app by tapping on it.



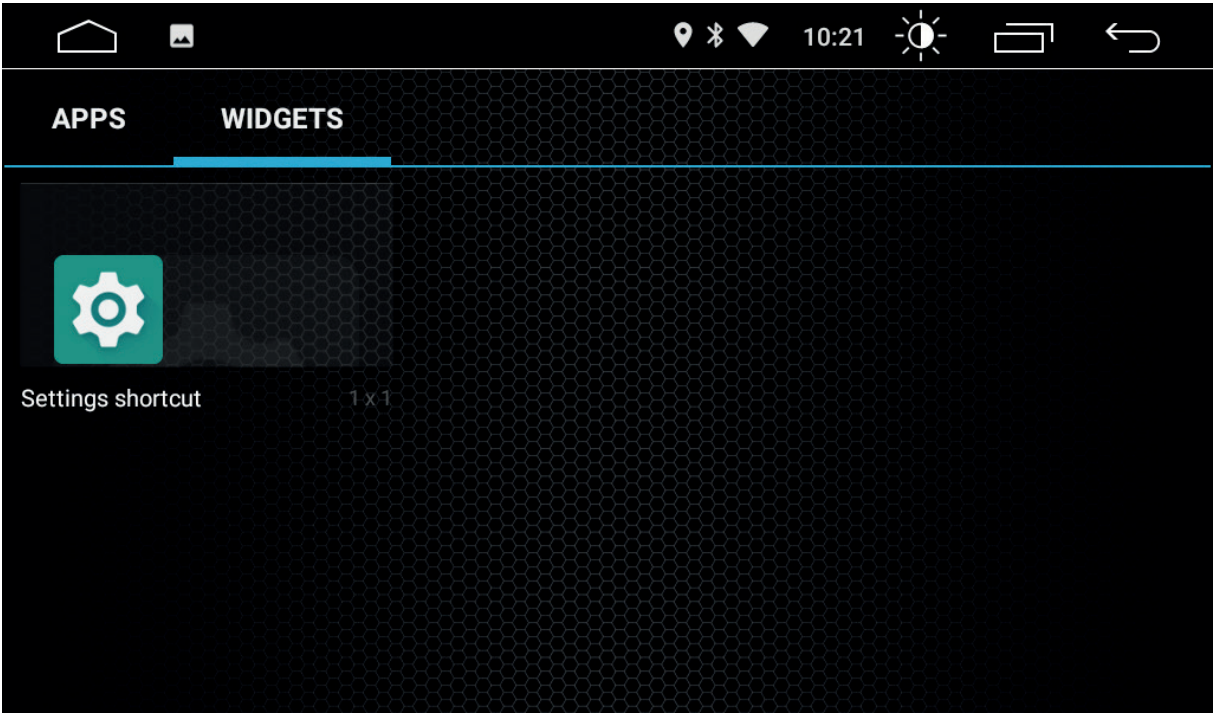


WIDGETS

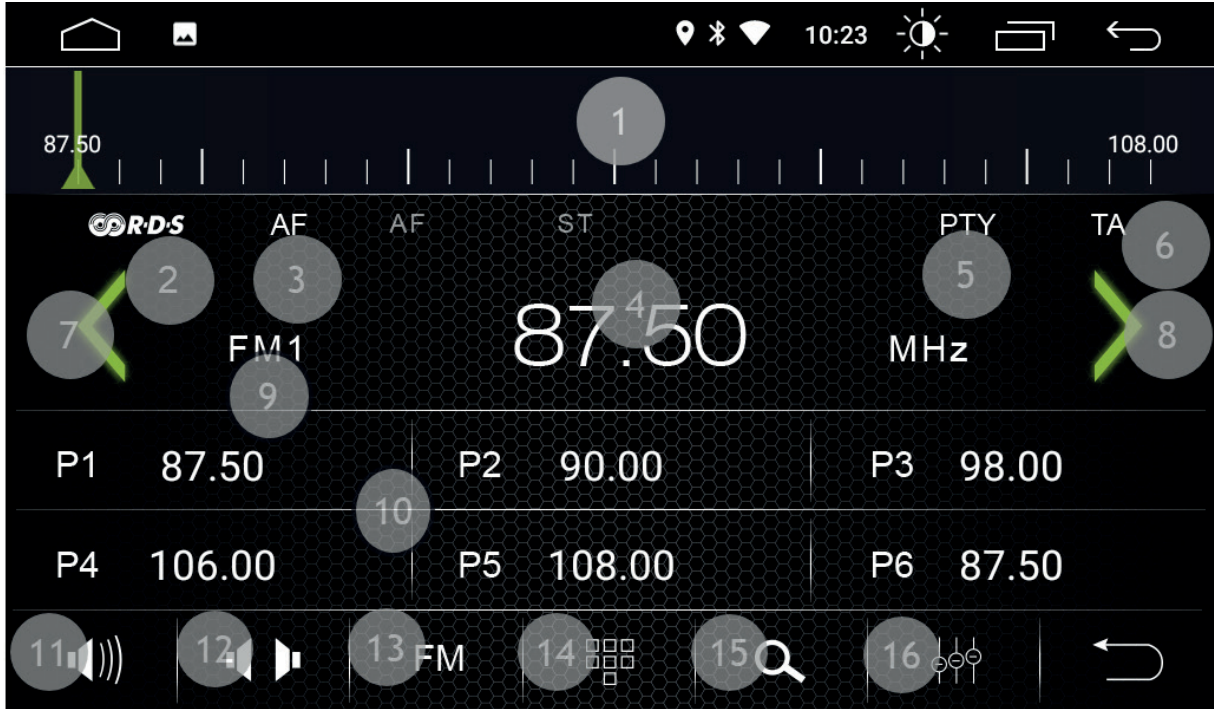
Tap on the widget tab to open the widget list page.



All installed widgets are displayed on the widget list page.



TUNER APP



Functions

- |                      |   |
|----------------------|---|
| 1. Scale             | Slide to change the frequency                               |
| 2. RDS               | Tap to activate/deactivate RDS functions                    |
| 3. AF                | Tap to activate alternative frequency                       |
| 4. Frequency display | Shows the current frequency                                 |
| 5. PTY               | Tap to activate search by program type                      |
| 6. TA                | Tap to activate/deactivate traffic announcements            |
| 7. PREV              | Press to search lower FM station frequencies                |
| 8. NEXT              | Press to search higher FM stations frequencies              |
| 9. Band display      | Shows the current band                                      |
| 10. Preset           | Tap to choose the preset                                    |
| 11. Volume           | Slide to the left and right to adjust the media volume      |
| 12. Stereo           | Tap to activate/deactivate Stereo                           |
| 13. FM               | Tap to switch between the different bands (FM1 > FM2 > FM3) |
| 14. Key pad          | Tap to invoke key pad                                       |
| 15. Auto scan        | Tap to start automatic scanning for FM stations             |
| 16. EQ               | Tap to open the equalizer                                   |

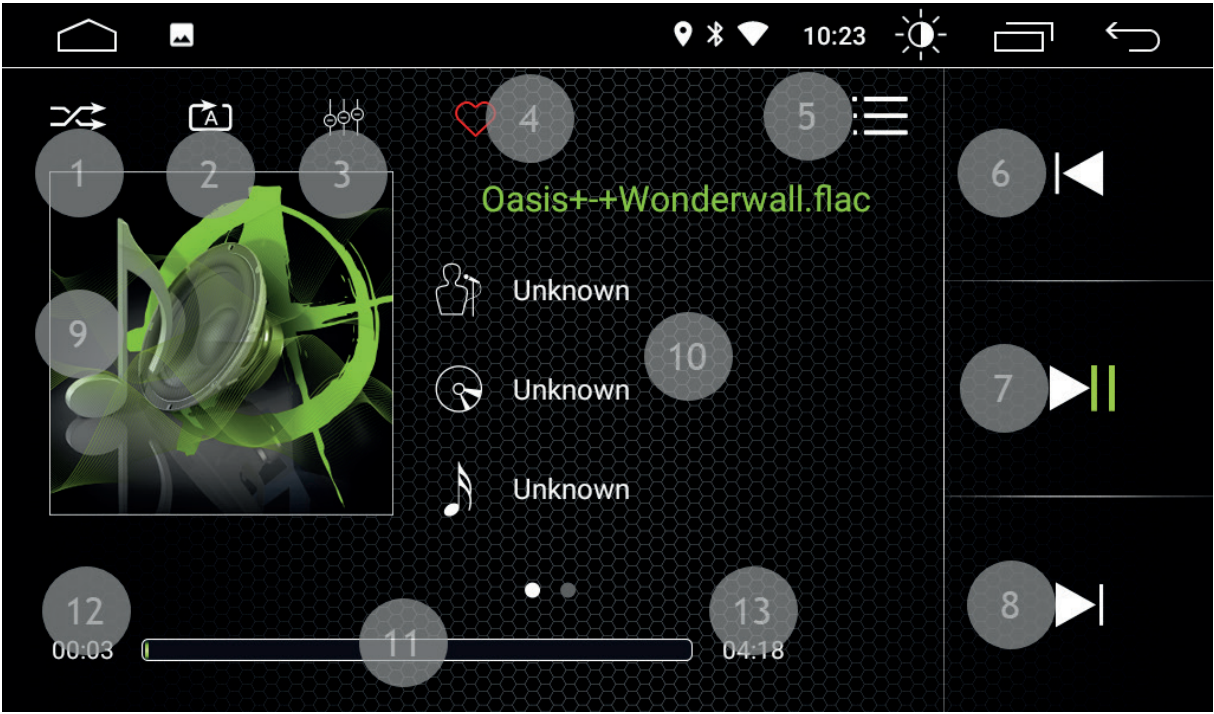
ABBREVIATIONS

- |     |   |
|-----|---|
| REG | Activates search for regional stations with a strong signal   |
| DX  | Stands for distance or distant exchange: means that stations in the wider vicinity will be searched for. These stations usually have a weaker signal. |
| LOC | Stands for local: means that stations in the closer proximity will be searched for. These stations usually have a very strong signal.                 |
| TA  | Stands for traffic announcements.   |
| AF  | Stands for alternative frequency: means that the same station will be searched for on another frequency.  |
| PTY | Stands for program type: describes the division of stations according to categories.  |





MEDIA / MUSIC



Functions

- |                   |   |
|-------------------|---|
| 1. Shuffle        | Tap once: shuffle on, tap again: shuffle off                      |
| 2. Repeat         | Tap once: repeat a single track, repeat all tracks, repeat folder |
| 3. EQ             | Tap to open the equalizer   |
| 4. Favourites     | Tap to add to favourites list                                     |
| 5. Browse         | Tap to switch to the file view                                    |
| 6. Previous track | Tap to go back to the previous track.                             |
| 7. Play/pause     | Tap to play or pause the current track                            |
| 8. Next track     | Tap to go to the next track.                                      |

Information fields

- 9. Album cover
- 10. ID3 tag
- 11. Progress bar
- 12. Time played
- 13. Entire length

MEDIA / VIDEO



Functions

- |                 |   |
|-----------------|---|
| 1. Zoom         | Tap to switch to full screen display                              |
| 2. Repeat       | Tap once: repeat a single track, repeat all tracks, repeat folder |
| 3. Rewind       | Tap to rewind   |
| 4. Play/pause   | Tap to play or pause the current video                            |
| 5. Fast forward | Tap to fast forward   |
| 6. Favourites   | Tap to add to favourites list                                     |
| 7. Browse       | Tap to switch to the folder overview                              |

Information fields

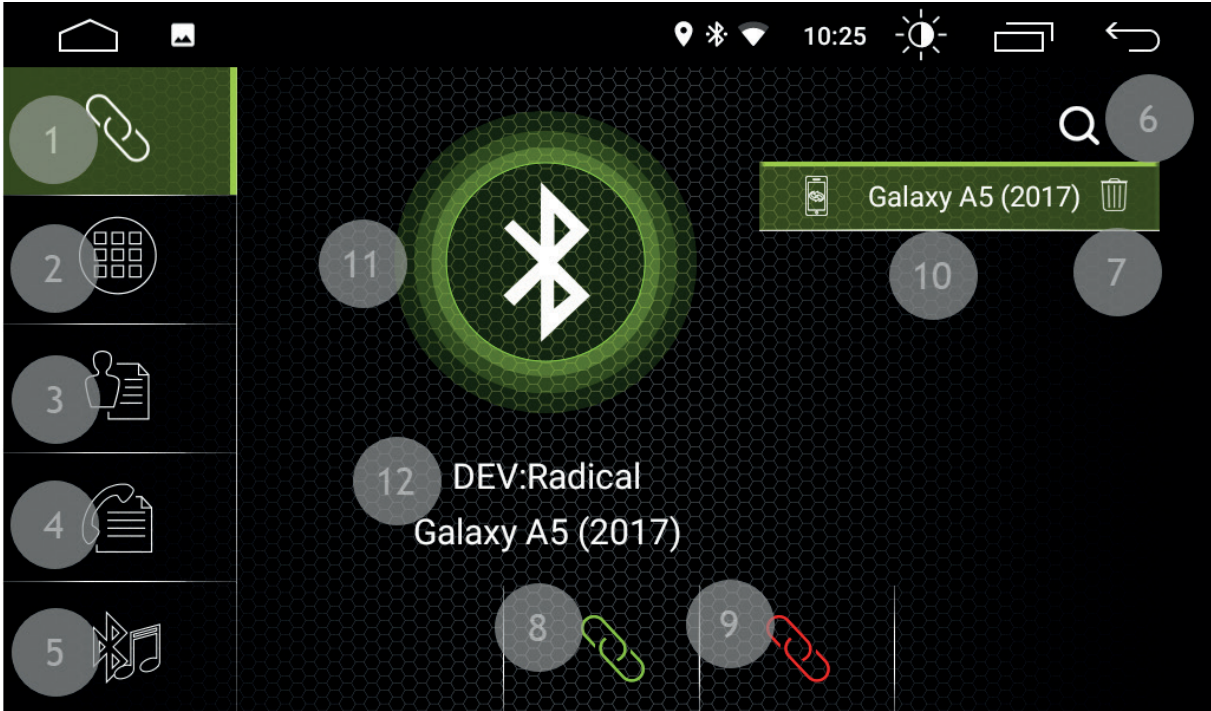
- 8. Time played
- 9. Entire length

BLUETOOTH

PAIRING A BLUETOOTH DEVICE

- 1. Tap on the Bluetooth icon to start the Bluetooth function.
- 2. Activate Bluetooth on your mobile phone and check that your device is set to visible.
- 3. Tap the search icon to look for Bluetooth devices in your vicinity.
- 4. The name of your mobile device should now be shown in the list. Tap on the name of your device to start the pairing process. If your device is not listed, try searching again for Bluetooth devices in your vicinity.
- 5. You should now see a pairing message on your mobile phone. Enter the password for Bluetooth pairing into your mobile phone.
- 6. When your mobile phone has been paired, tap on the phone book icon and then on the import icon to import your contacts. (N.B. Android users will see a message on their mobile phone requesting authorization. Confirm with 'authorize') (N.B. iOS users must manually activate synchronization in the connection menu of their mobile phone)

DEVICE MANAGER FUNCTIONS

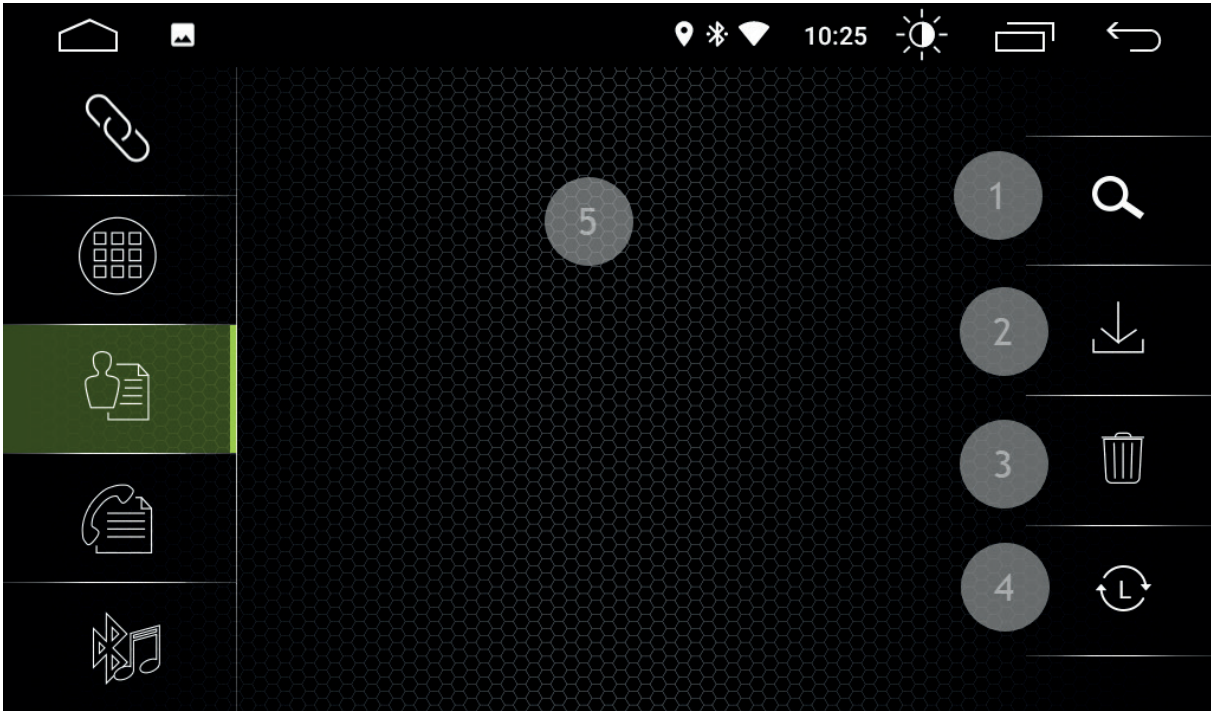


- |                   |   |
|-------------------|---|
| 1. Device manager | Tap to open the device manager                                |
| 2. Number pad     | Tap to call up the number pad                                 |
| 3. Phone book     | Tap to open the phone book                                    |
| 4. Call history   | Tap to open call history                                      |
| 5. BT music       | Tap to open BT music  |
| 6. Search         | Tap to start the search for Bluetooth devices in the vicinity |
| 7. Delete         | Tap to delete the paired device                               |
| 8. Connect        | Tap to connect the device                                     |
| 9. Disconnect     | Tap to disconnect the device                                  |

Device Manager Information Fields

- 10. Paired devices
- 11. Connection symbol
- 12. Device name

PHONE BOOK FUNCTIONS



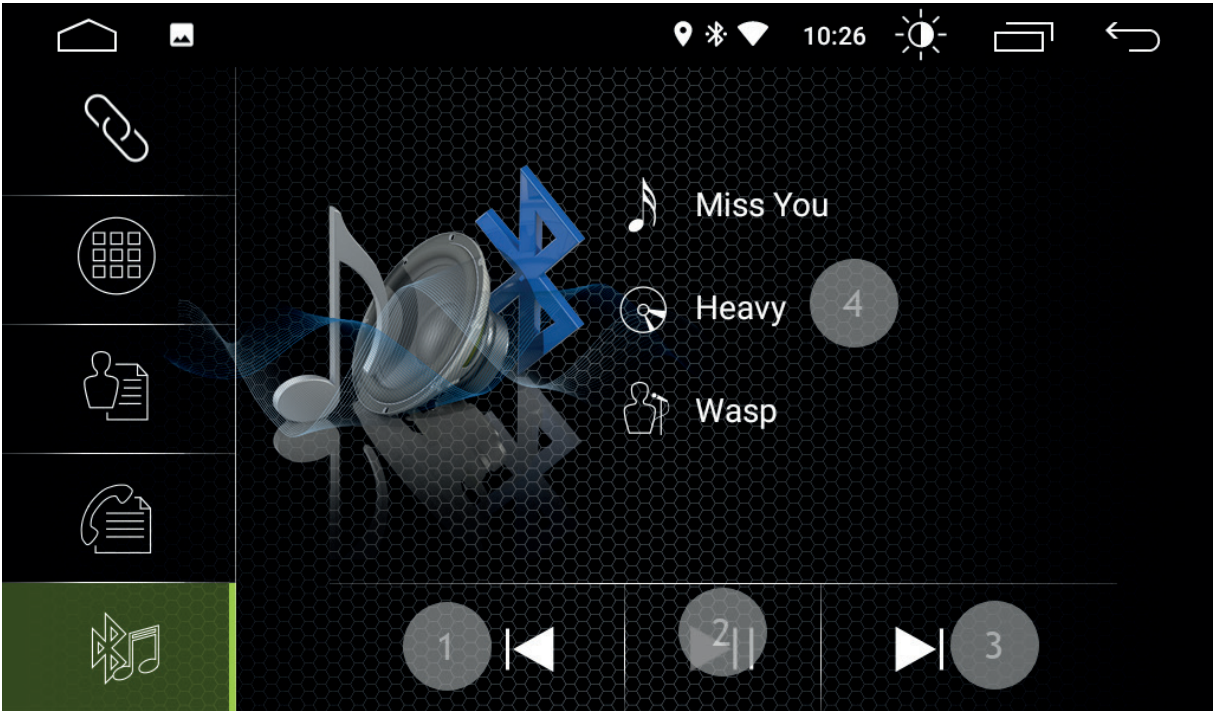
- |            |   |
|------------|---|
| 1. Search  | Tap to search the contact                                   |
| 2. Import  | Tap to manually update the phone book                       |
| 3. Delete  | Tap to delete the phone book (only from the RADICAL device) |
| 4. Sort by | Tap to sort by first / last name                            |

Phone book Information Fields

- 5. Phone book entries



BLUETOOTH MUSIC (A2DP) FUNCTIONS

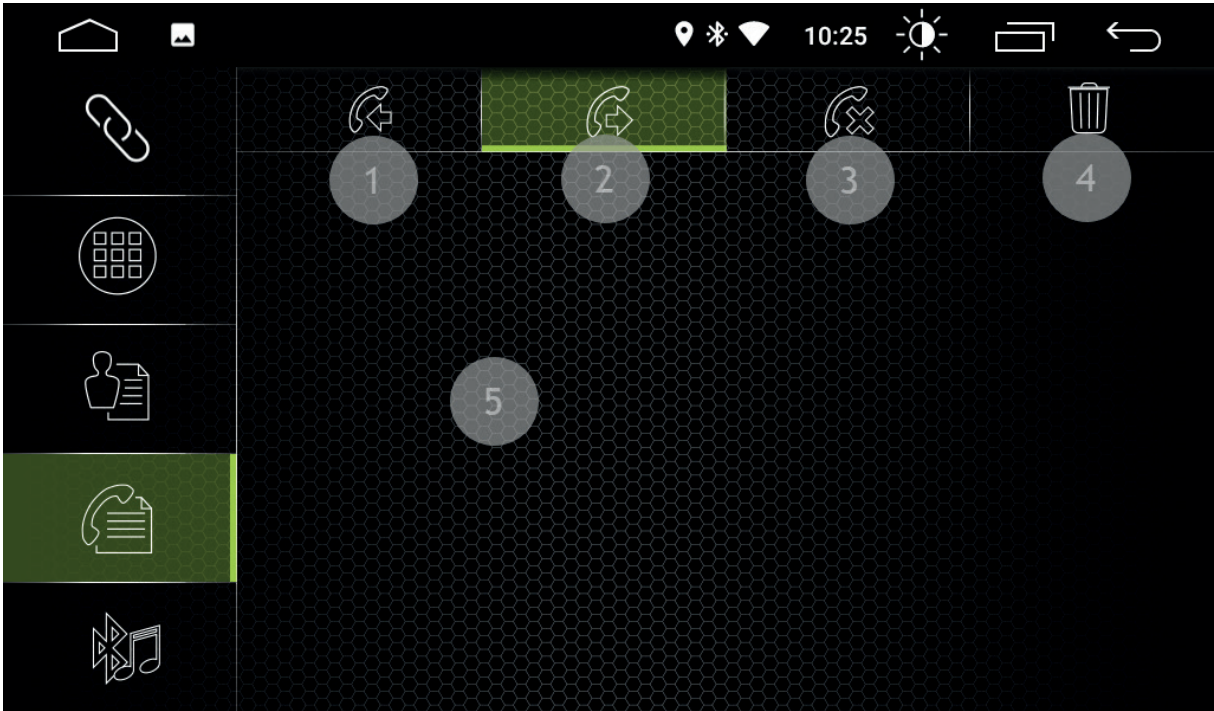


- |                   |  |
|-------------------|--|
| 1. Previous track | Tap to go back to the previous track   |
| 2. Play/pause     | Tap to play or pause the current track |
| 3. Next track     | Tap to go to the next track            |

Bluetooth Music Information Fields

- 4. Artist and track details

CALL HISTORY FUNCTIONS



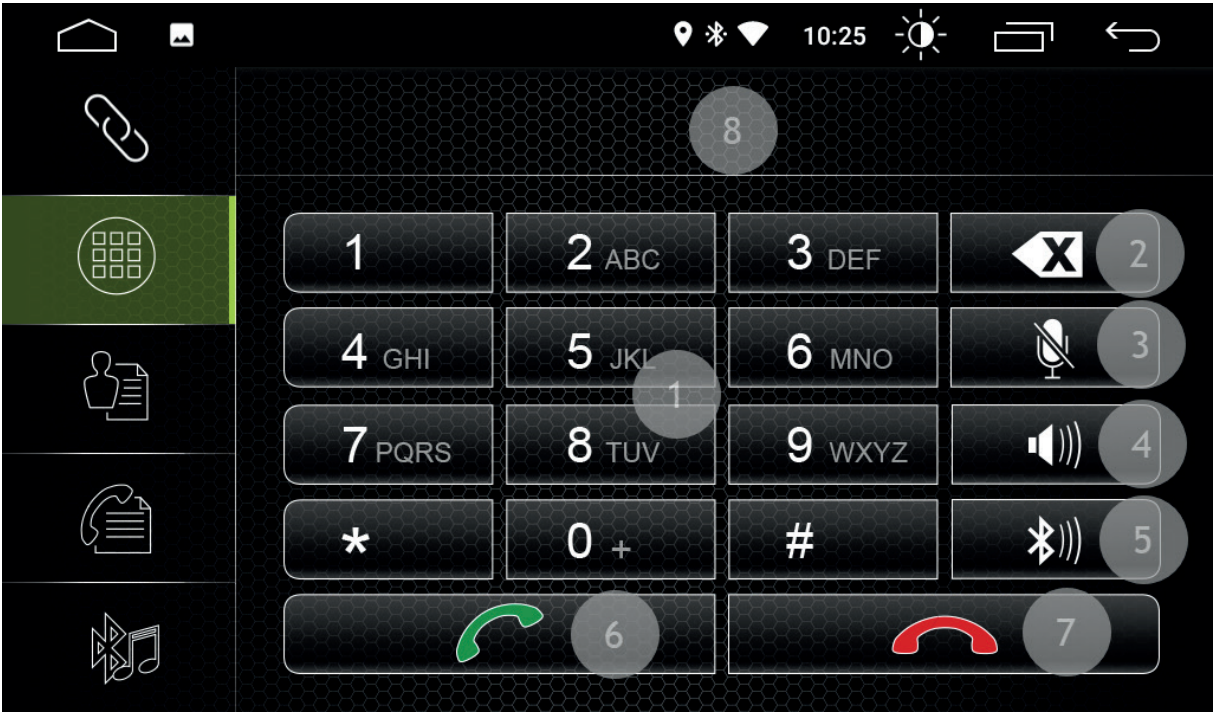
- |                   |  |
|-------------------|--|
| 1. Received calls | Tap to see received calls                                |
| 2. Outgoing calls | Tap to see outgoing calls                                |
| 3. Missed calls   | Tap to see missed calls                                  |
| 4. Delete         | Tap to delete the entries (only from the RADICAL device) |

Call History Information Fields

- 5. Entries



NUMBER PAD FUNCTIONS



- |                      |   |
|----------------------|---|
| 1. Numbers           | Tap to enter a number   |
| 2. Delete            | Tap to delete the last entry                                      |
| 3. Mute conversation | Voice output muted / unmuted                                      |
| 4. Volume            | Tap to adjust the media volume                                    |
| 5. Switch output     | Tap during call to switch output between mobile phone and vehicle |
| 6. Dial              | Tap to make a call  |
| 7. Hang up           | Tap to end a call   |

Call History Information Fields

- 8. Display

EASY CONNECTION

CONNECTION SCREEN



This is where you can choose the type of connection.

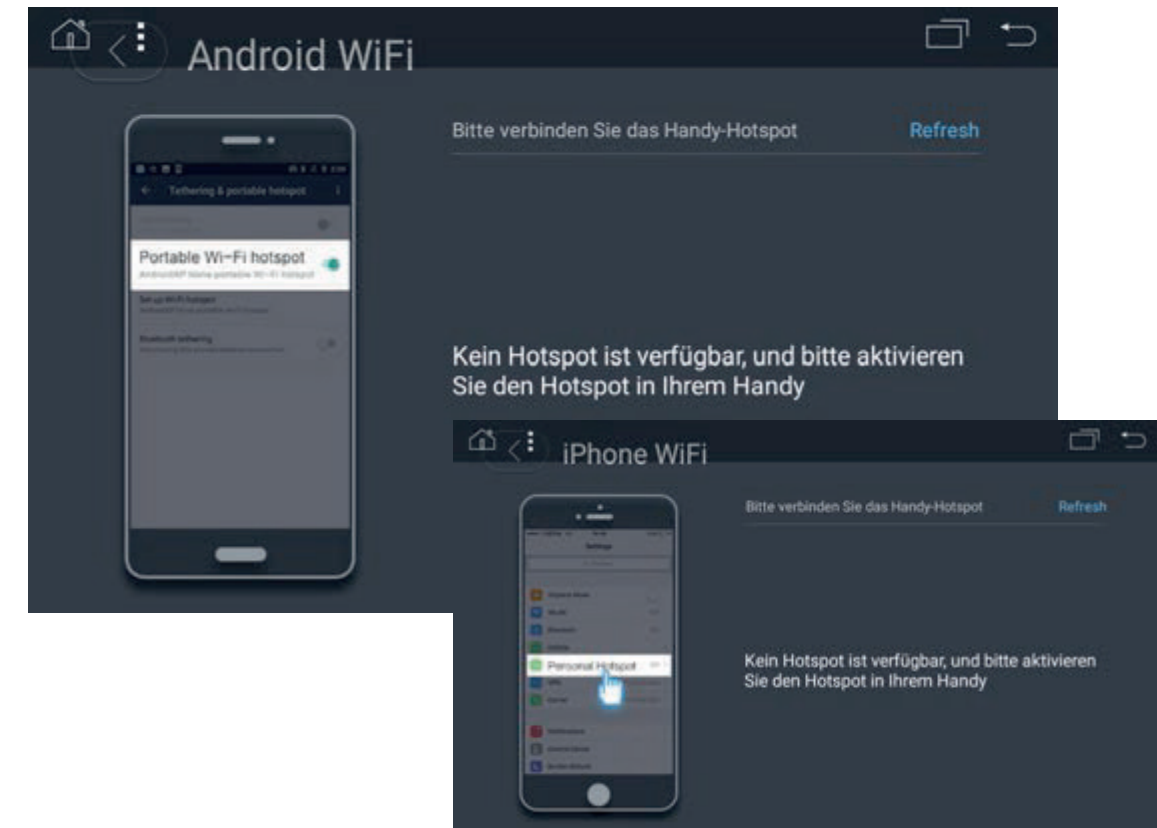


## ANDROID USB CONNECTION (INITIAL CONNECTION)



1. Go to settings on your smartphone.
2. Activate the developer options on your Android smartphone.
3. Activate USB debugging.
4. Open the Easy Connection function.
5. Select Android USB.
6. Connect your smartphone to your RADICAL device via USB. (For first-time connections, your smartphone must be connected to the internet.)
7. Download and install the Easy Connection App from the Google Play Store.
8. The Easy Connection App is automatically started after connection with Radical device is established. The setup is completed.

## Wi-Fi CONNECTION (INITIAL CONNECTION)

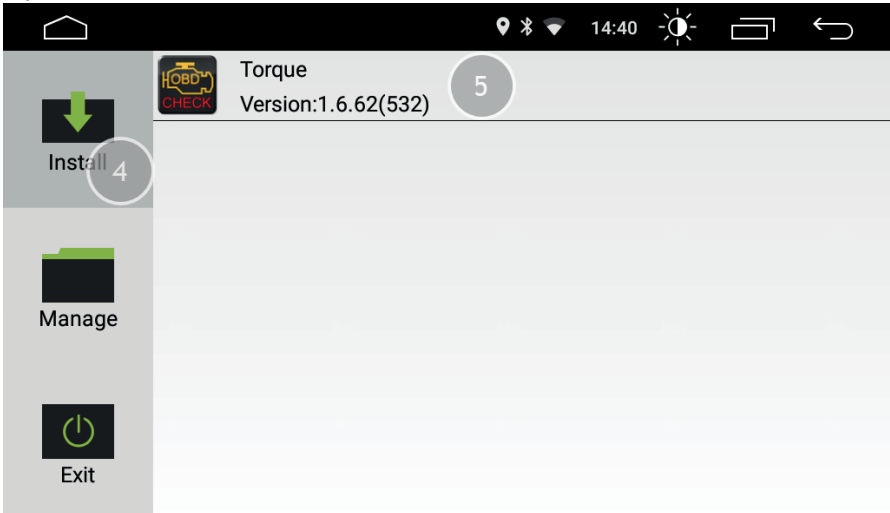


1. Go to the connection settings on your smartphone.
2. Activate mobile hotspot.
3. Open the Easy Connection function.
4. Select Android WiFi if you use an Android smartphone, or iPhone WiFi if you use an iOS smartphone.
5. Connect your RADICAL device to your smartphone's WiFi hotspot.
6. Activate the Airplay function on your iPhone. This will enable mirroring and the device can be operated through your smartphone. For Android devices, connect your smartphone to the RADICAL device via USB, maintain the USB connection until the Easy Connection APP has started on your smartphone and can be seen on your RADICAL device. You can now disconnect the USB; the smartphone is mirrored, and the device can be operated through the RADICAL device, or if preferred, through your smartphone.

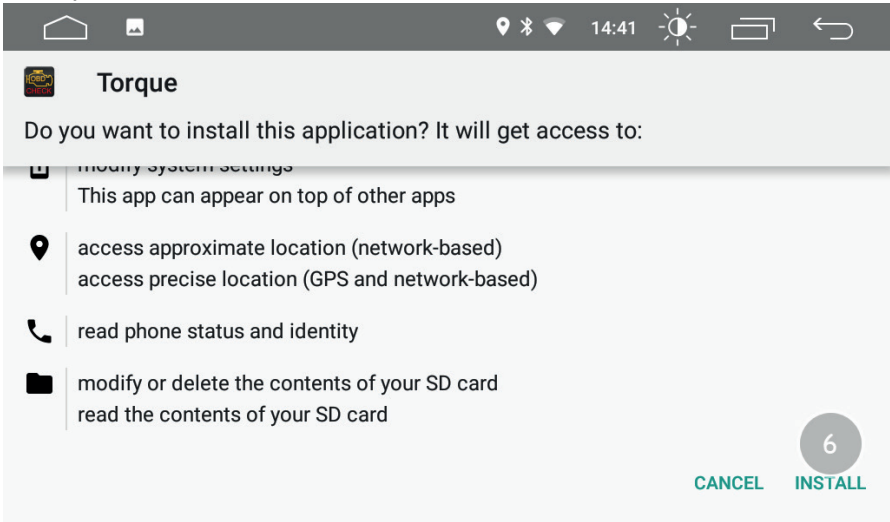


**APK INSTALLER**

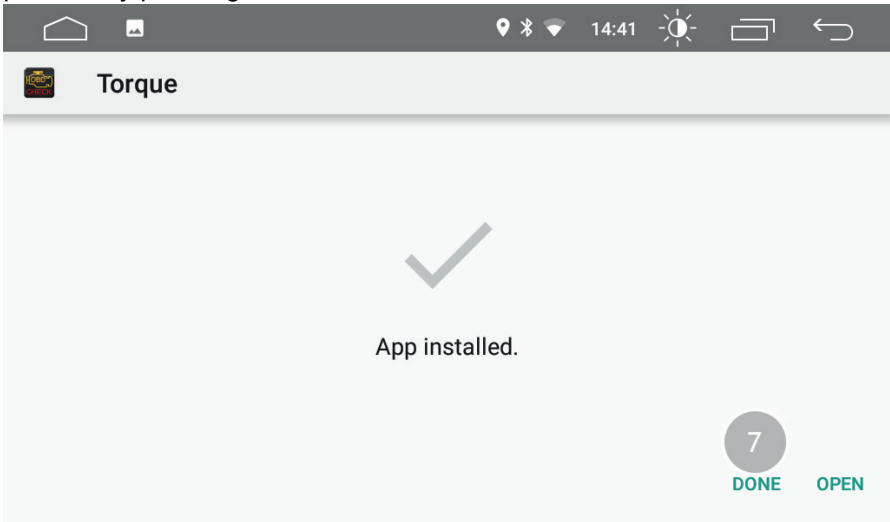
1. Download the desired APK and copy into an external medium of your choice.
2. Connect the external medium to your RADICAL device.
3. Open the APK installer.



4. Select the install tab.
5. Tap on the APK that you wish to install.
6. Then press install.

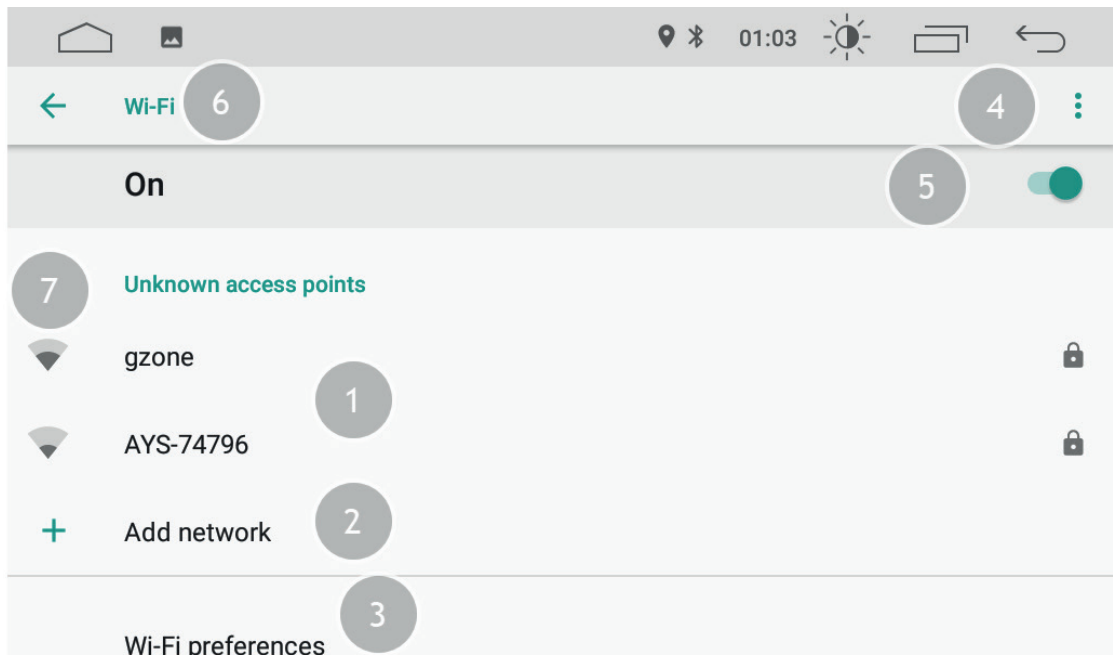
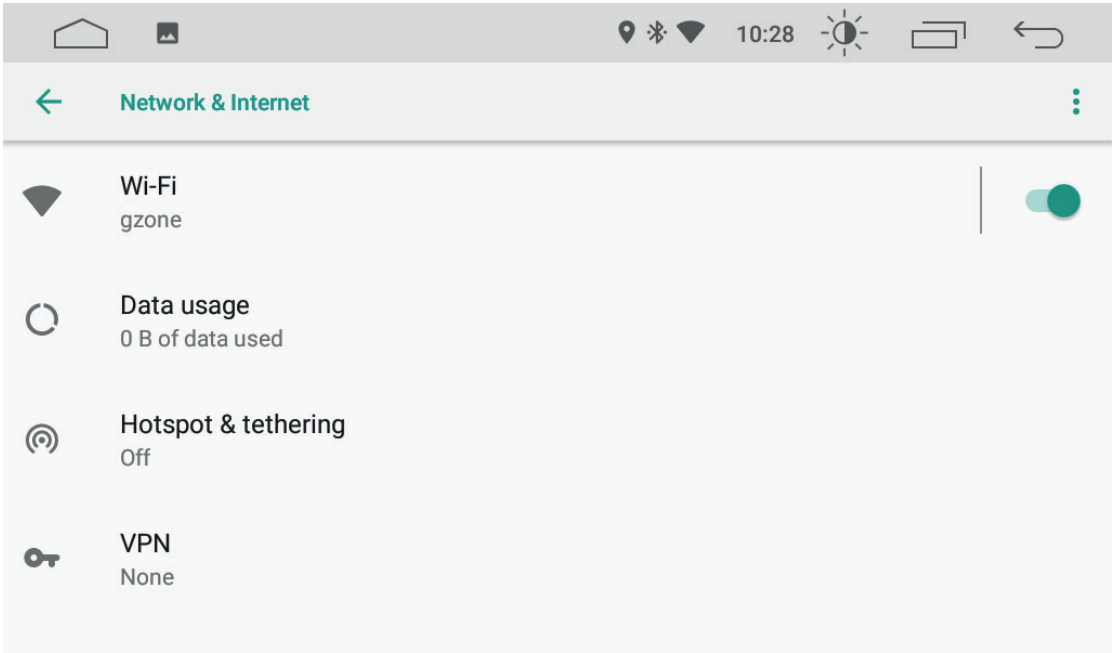


7. After the APK has been installed, you can either open the APK directly, or complete the process by pressing DONE.



**SETTINGS**

**Network & Internet**



**WIFI FUNCTIONS**

- |                            |  |
|----------------------------|--|
| 1. Available WiFi networks | Tap on the appropriate network to establish a connection |
| 2. Add network             | Tap to manually add a network                            |
| 3. Settings                | Tap to open the WiFi settings                            |
| 4. Additional options      | Tap to open the WiFi additional options                  |
| 5. ON/OFF                  | Tap to turn WiFi on/off                                  |

**WiFi Information Fields**

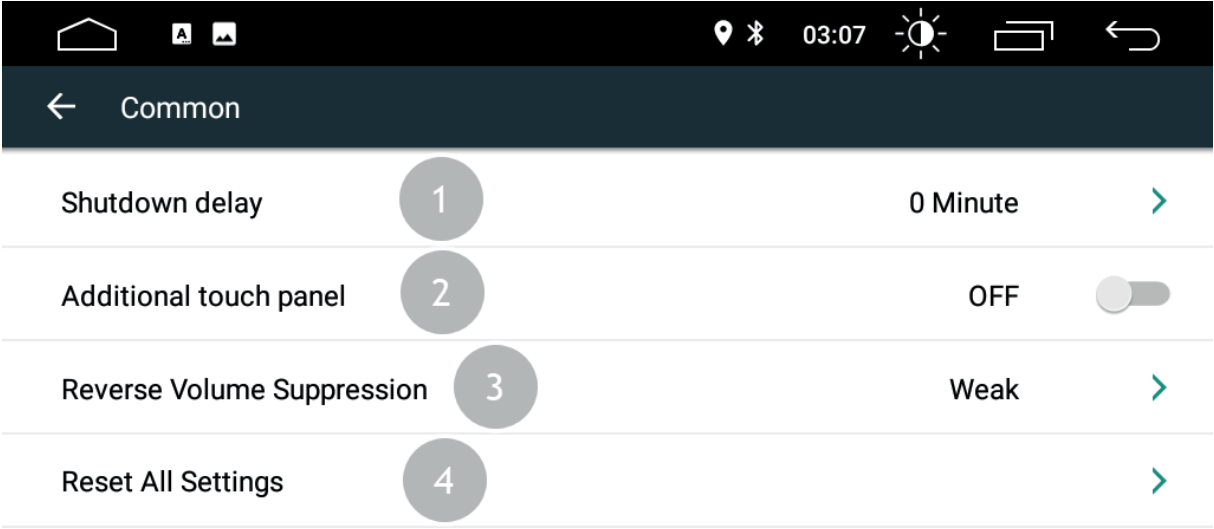
- |                      |                                 |
|----------------------|---------------------------------|
| 6. Menu display      | Indicates which menu you are in |
| 7. Connection status |                                 |





Car Infotainment

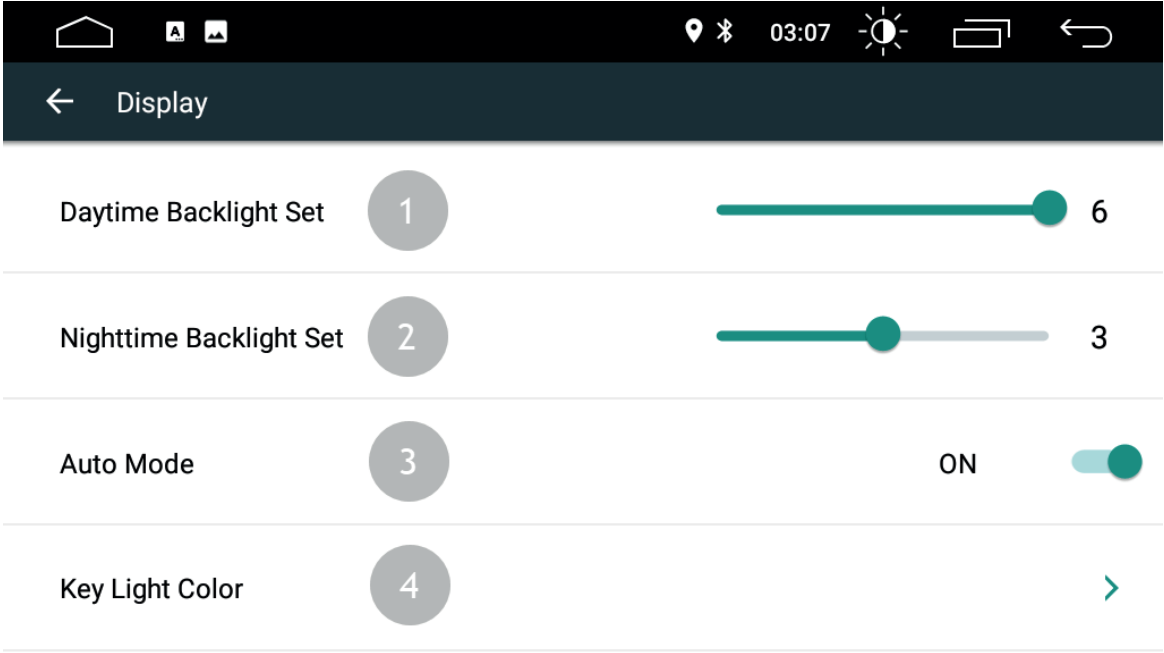
Common



- 1. The shutdown delay is 0 minute, 10 minutes, 20 minutes, 30 minutes, 60 minutes respectively. Shutdown delay can be adjusted in accordance to preference.
- 2. Additional touch panel. User can choose to on or off the touch assist. The touch assist has 7 most commonly used options and is displayed on top of the screen at the interface where it provides the user easy maneuver of the machine.
- 3. Reverse Volume Suppression. To adjust the volume while at the reverse position, select Reverse Volume Suppression. There are four options available namely None, Weak, Medium and Strong. Selecting None means there will not be any changes to the current defaulted volume. Selecting Strong means lowering down the reverse volume at most.
- 4. Reset All Settings. Touch Reset All Settings, at the popup dialog, select confirm. When the device restarts, the system will restore to factory settings. All your settings will be removed.



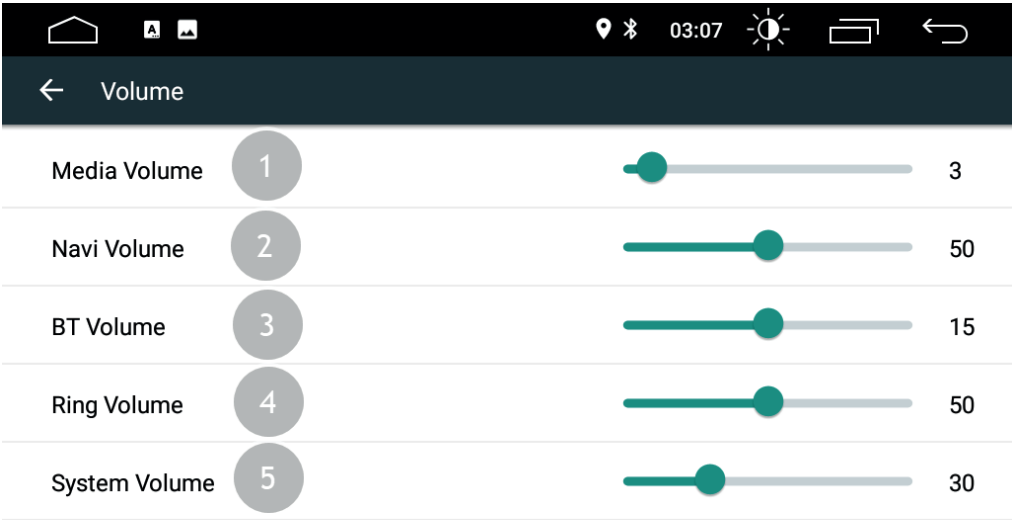
Display



Adjust the display brightness of the background for different timing of daytime and nighttime.

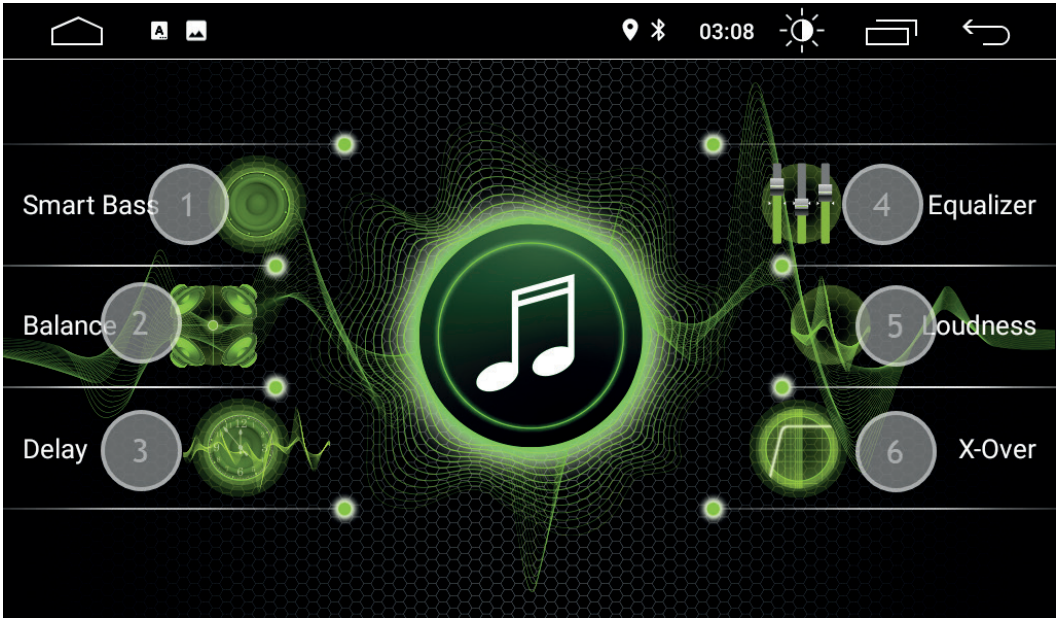


Volume



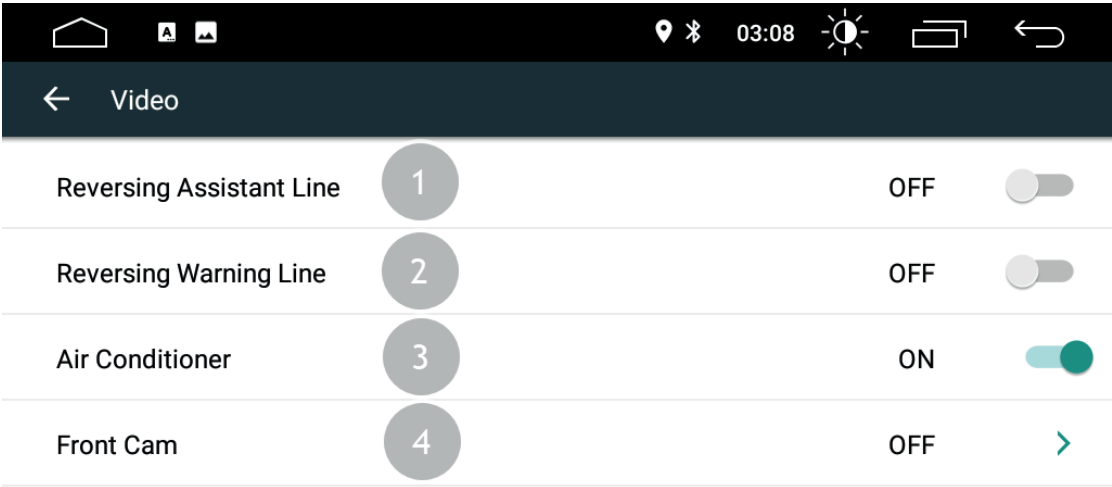
Volume options for respective systems can be adjusted in accordance to desire.

Audio Settings



Enter sound effect interface by touching "Sound Effect" to access different sound effect modes.

Video

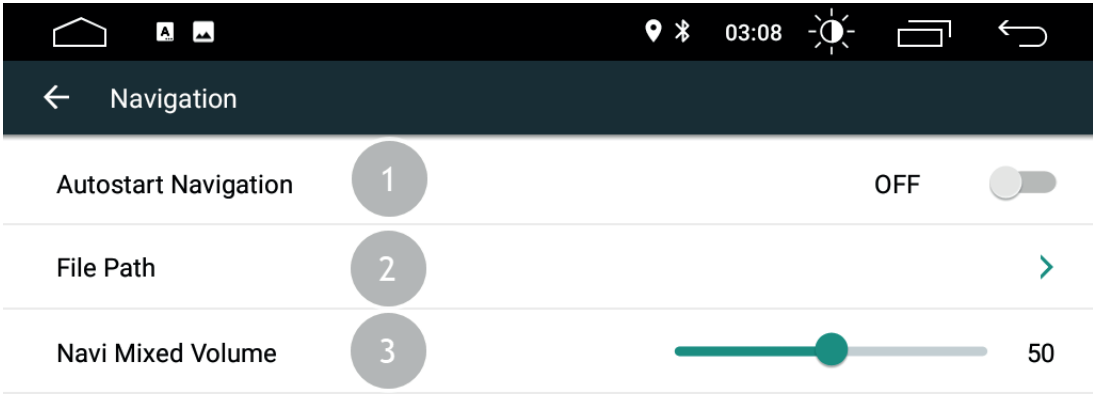


Functions

- 1. Reversing Assistant Line. Tap to activate/deactivate Reversing Assistant Line.
- 2. Reversing Warning Line. Tap to activate/deactivate Reversing Warning Line.
- 3. Air Conditioner. Tap to activate/deactivate Air Conditioner.
- 4. Front Cam. Tap to activate/deactivate Front Cam.



Navigation

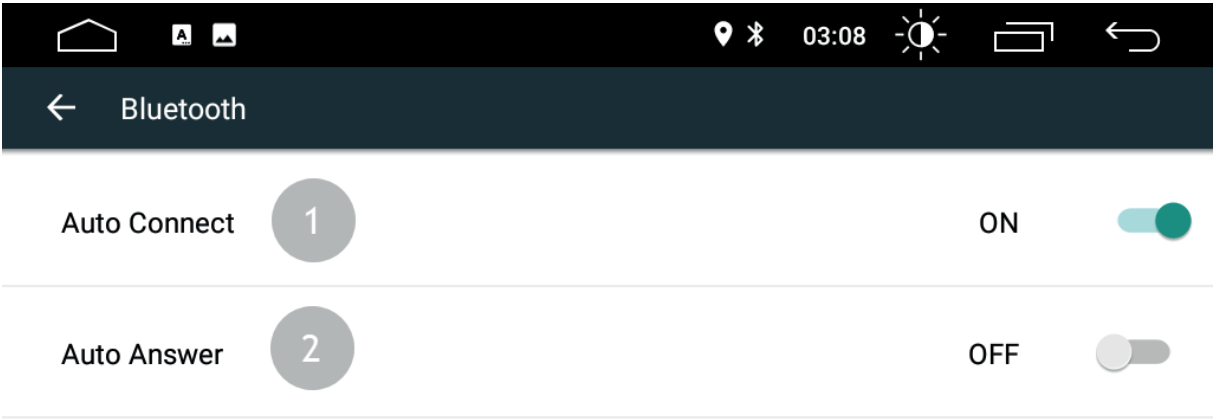


- 1. Autostart Navigation. User can set autostart of navigation upon booting.
- 2. File Path. User may insert pre-installed navigation application to pair with the navigation button. The system will automatically display all installed applications and you may touch to select the application of your choice.
- 3. Navi Mixed Volume. Slide to the left or right to adjust the Navi mixed volume.





Bluetooth



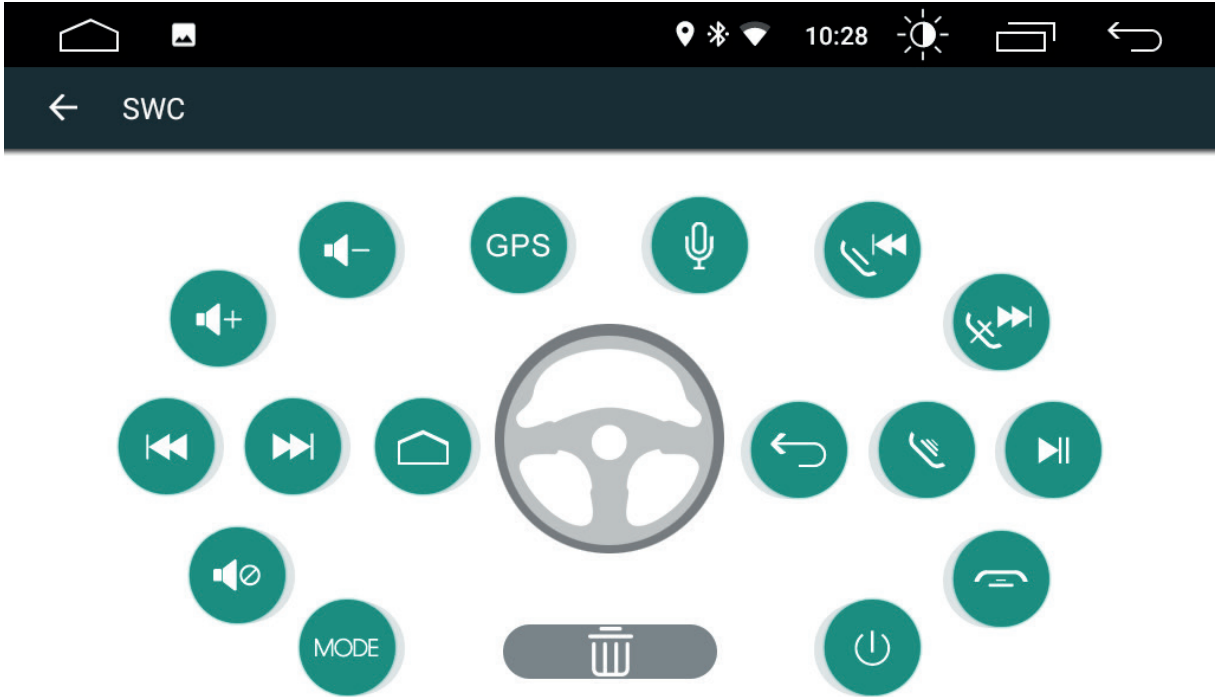
Functions

- 1. Auto Connect. By enabling this option, the machine will auto search and auto connect to the last connected device.
- 2. Auto Answer. By enabling this option, the machine will auto answer all incoming calls using Bluetooth.

SWC

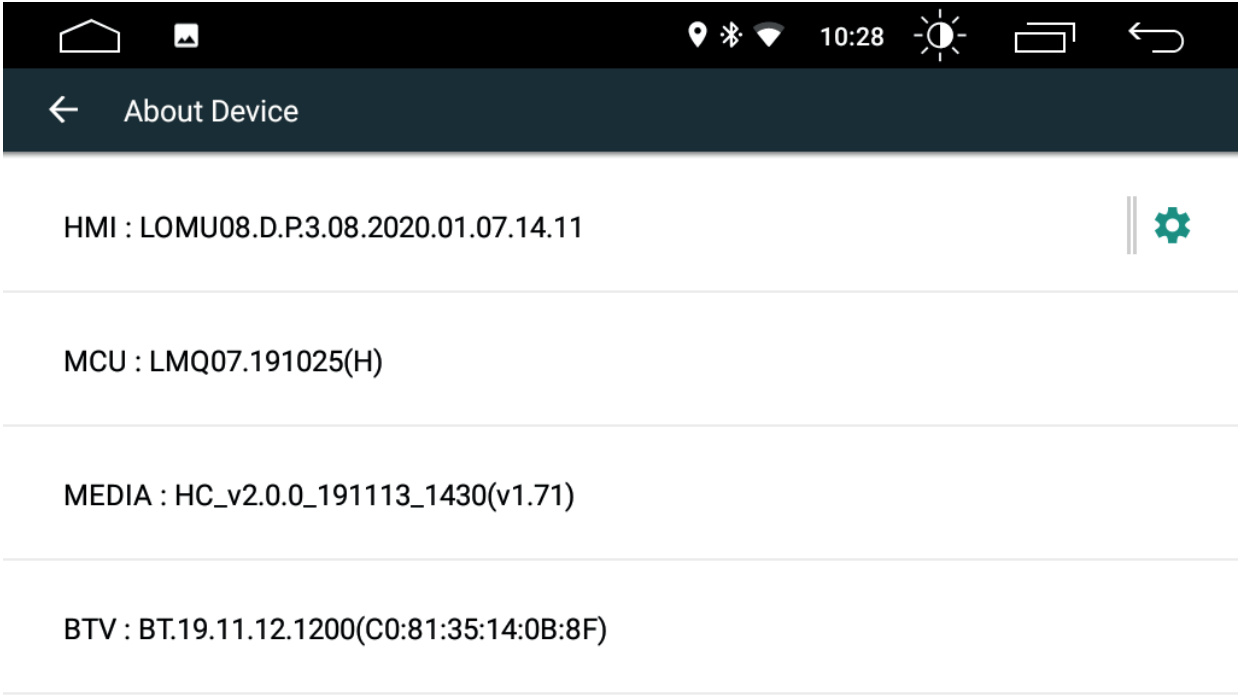
You can configure the steering wheel remote control buttons with the steering wheel app.

- 1. Open the steering wheel app.



- 2. Now select the function that you wish to configure (the function will light up in blue).
- 3. Press the corresponding steering wheel remote control button.
- 4. Repeat step 2 - 3 to complete all the control button settings.

About Device

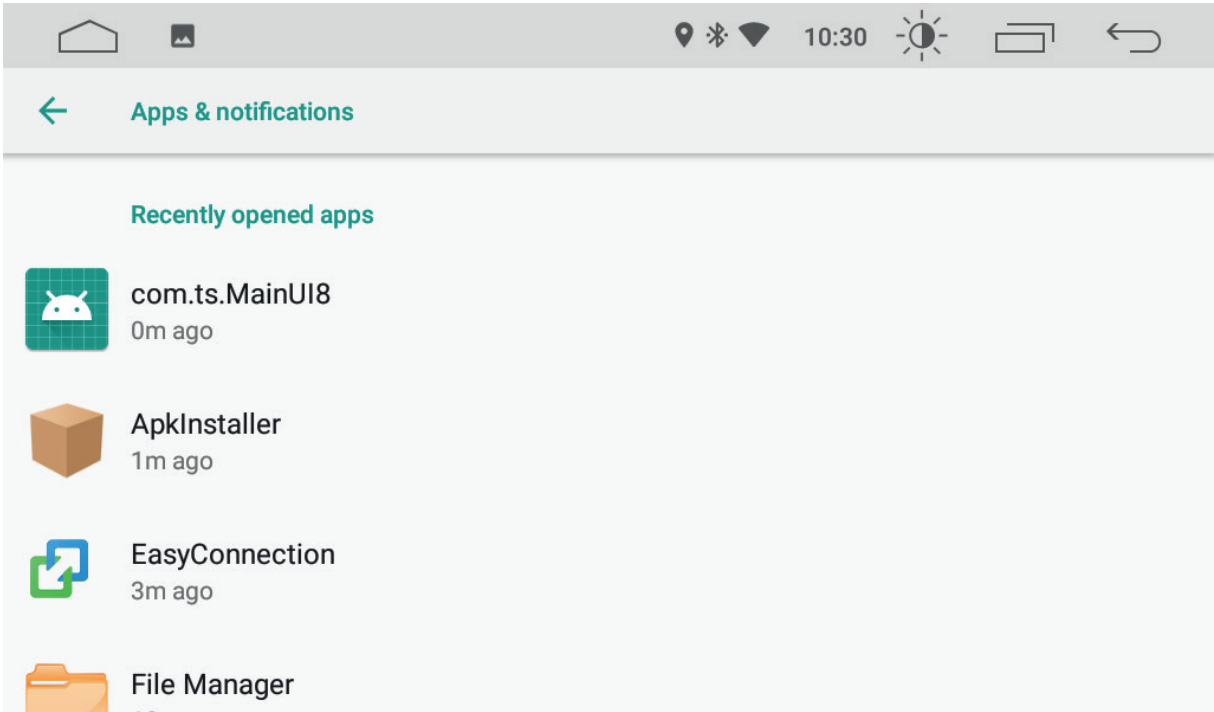


Here you can see the software status of the hardware modules of the device.

Apps & notifications

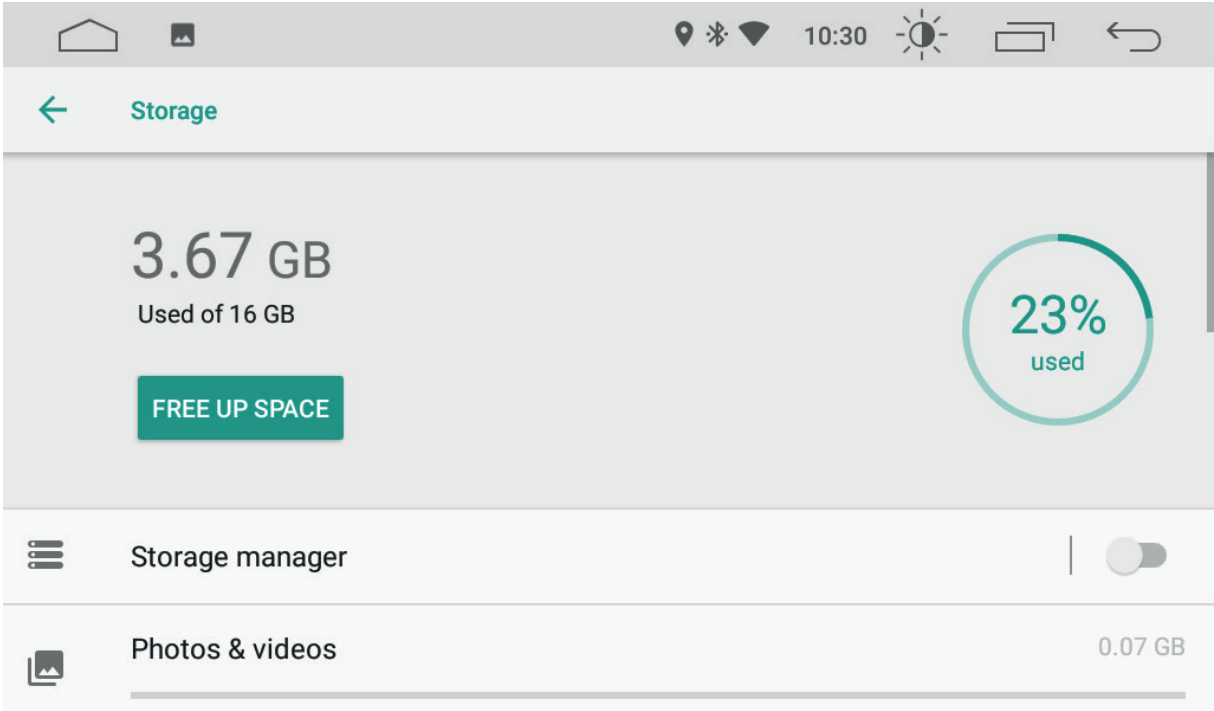
You can select which apps may send notifications on the app notifications page.

You can manage your installed apps on this page. Here you can also uninstall apps that have been installed.



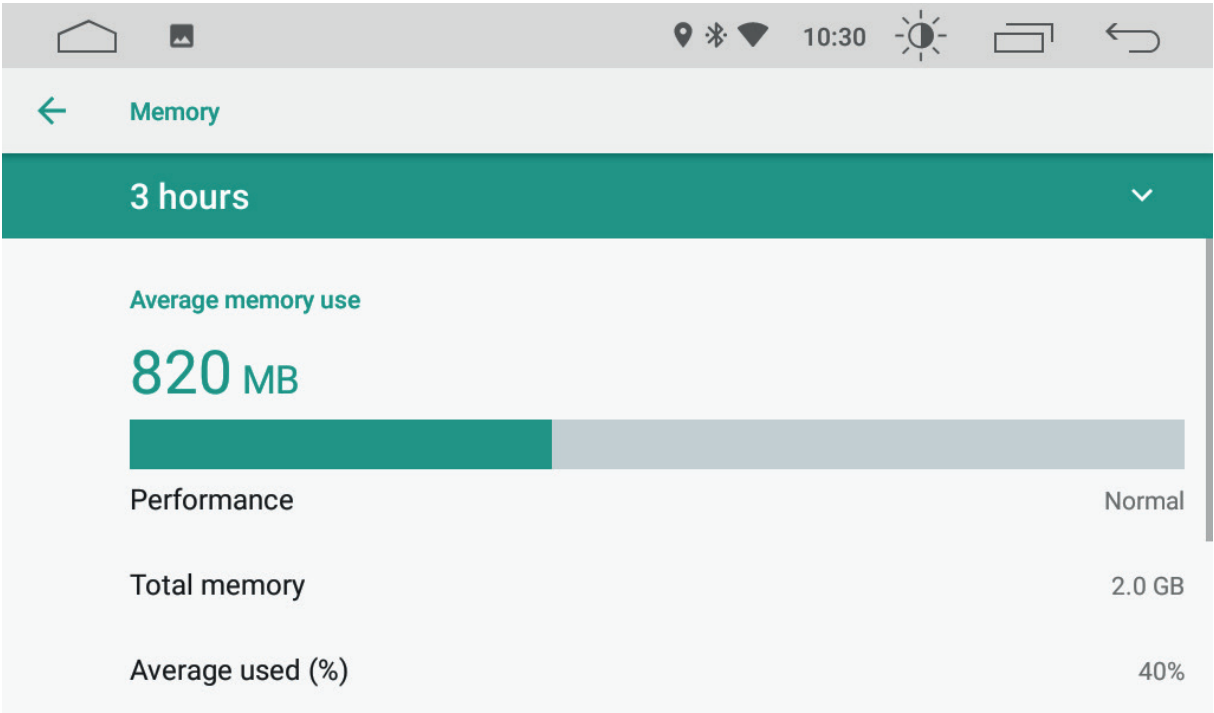
Storage

Here you can see information about the internal memory and any external memory device connected.



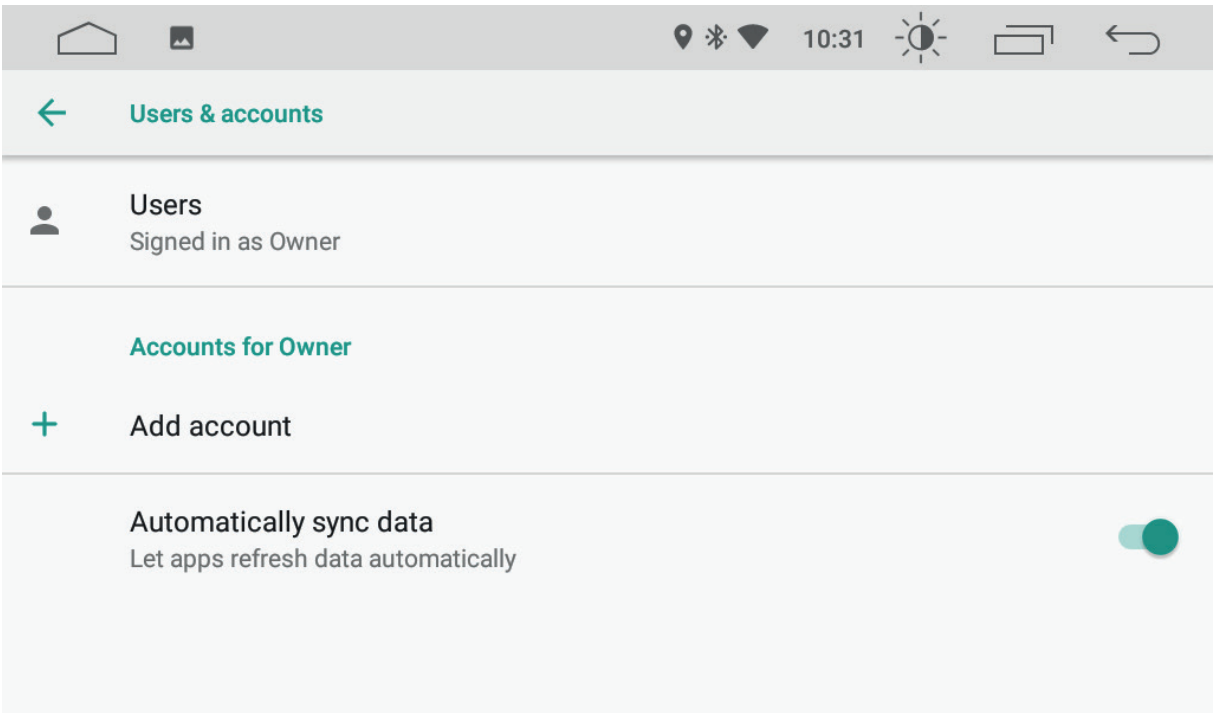
Memory

Here you can see information about the internal RAM memory.

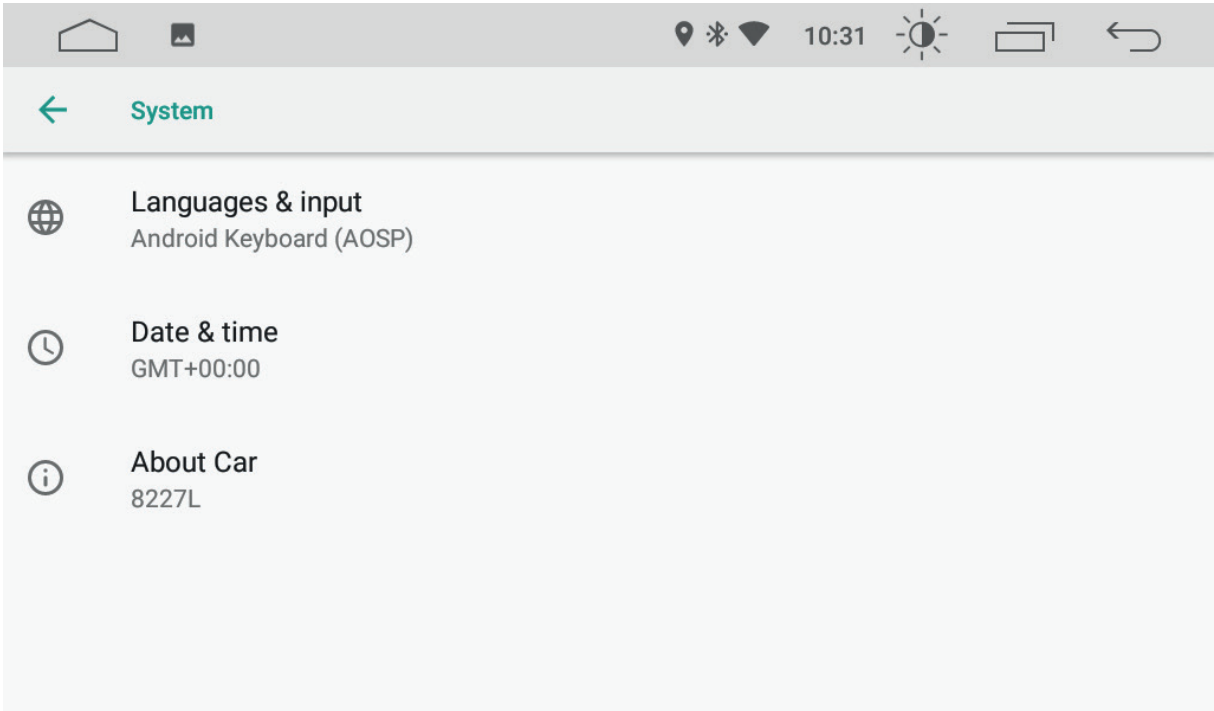


Users & accounts

User accounts can be managed here.

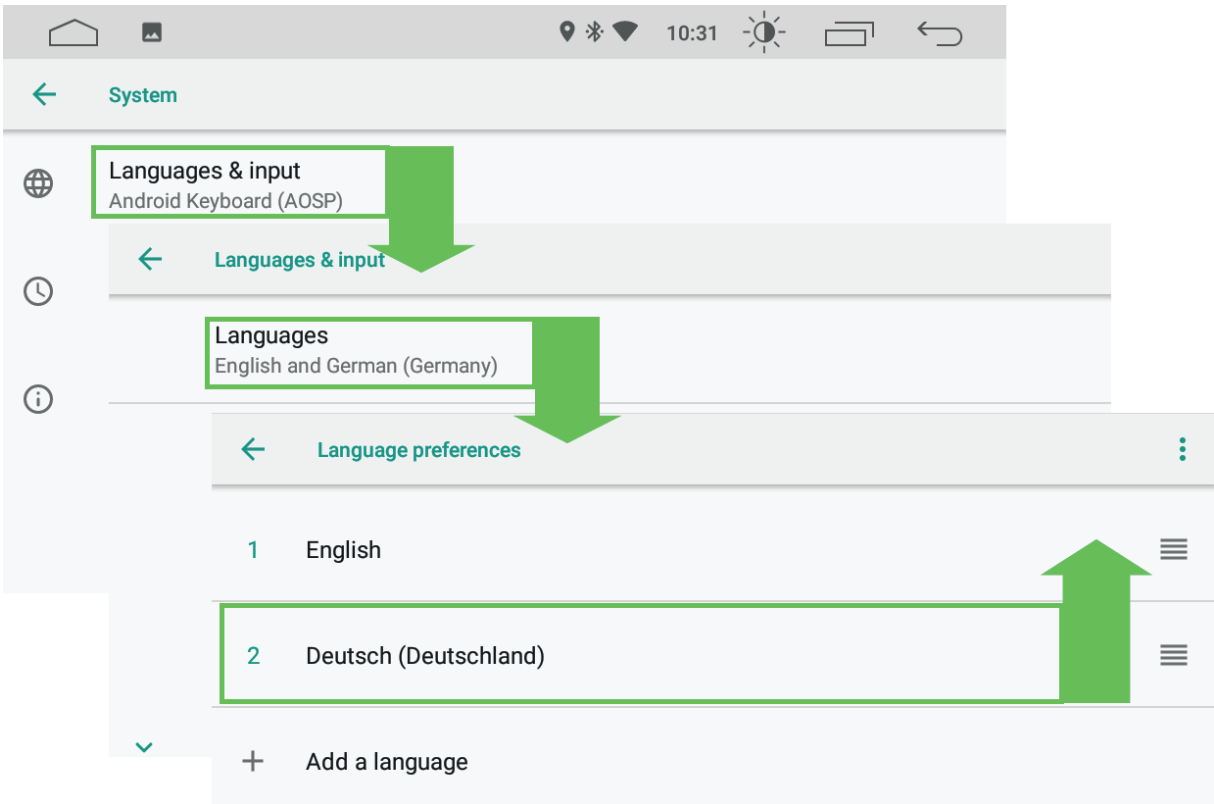


System



Change or add language

Press on language to open the language list. You can add a new language to the list by selecting 'add language'. Select the language that you wish to add to the list. The position of the languages shows the order in which the languages are placed: The primary language which is also the display language is placed first. To use a different language as the display language, press on the desired language and drag it into the first place.





INSTALLATION NOTES

CAUTION:

- The installation of the RADICAL system should be carried out by an authorized installer. Specific knowledge and tools are required to do the installation. Incorrect installation can cause damage to the vehicle and the RADICAL system.
- Correct functioning can only be guaranteed when you use the RADICAL original accessories included in the kit or those optionally available. The RADICAL system and the original accessories must under no circumstances be modified or altered in any way. Inappropriate actions can cause damage to the vehicle and the RADICAL system.

NOTE:

- The RADICAL system is not compatible with vehicles, which are equipped with a hybrid or electro drive ex factory.
- The RADICAL R-D111 is equipped with an integrated DAB+ receiver. To make use of this you will need a suitable DAB antenna (included in kit) that must be connected to the RADICALsystem.

REMOVAL WORK AND PREPARATION

NOTE:

- Remove the ignition key and keep it outside the car until the installation is finished.
- Please wait for ca. 10 minutes until the CAN bus system is completely shut down, before you start with the deinstallation of the original device.
- Start with the deinstallation of the original device.

NOTE:

- Make sure that all connectors at the rear of the ZENEC system have sufficient room and are not bent.
- Connectors without a retaining mechanism must be additionally secured with insulating tape.

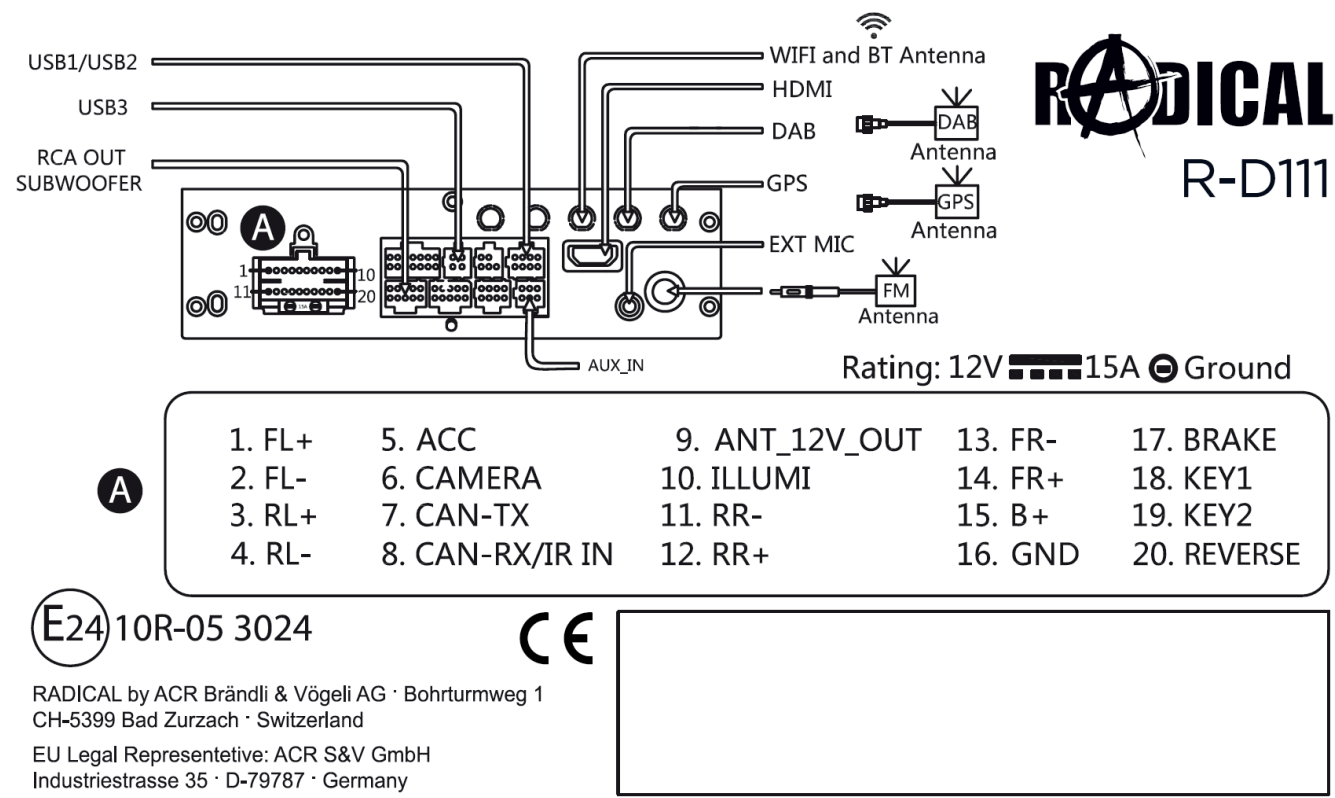
OVERVIEW INCLUDED ACCESSORIES



No.	Article	Qty
1	GPS antenna with metal mounting plate and double sided adhesive pad	1
2	6 Pin connection cable (Aux-Video In, Aux L IN, Aux R IN, F-Camera, R-CAM Power +12V, F-CAM Power +12V)	1
3	10 Pin connection cable (Subwoof 2x, FL-Out, FR-Out, RL-Out, RR-Out, AV1-Out, CAM +6.8V)	1
4	Wi-Fi antenna	1
5	Removal tool	2
6	USB extension cable	3
7	ISO-DIN main harness	1
8	Microphone with mounting clip	1
9	DAB antenna	1



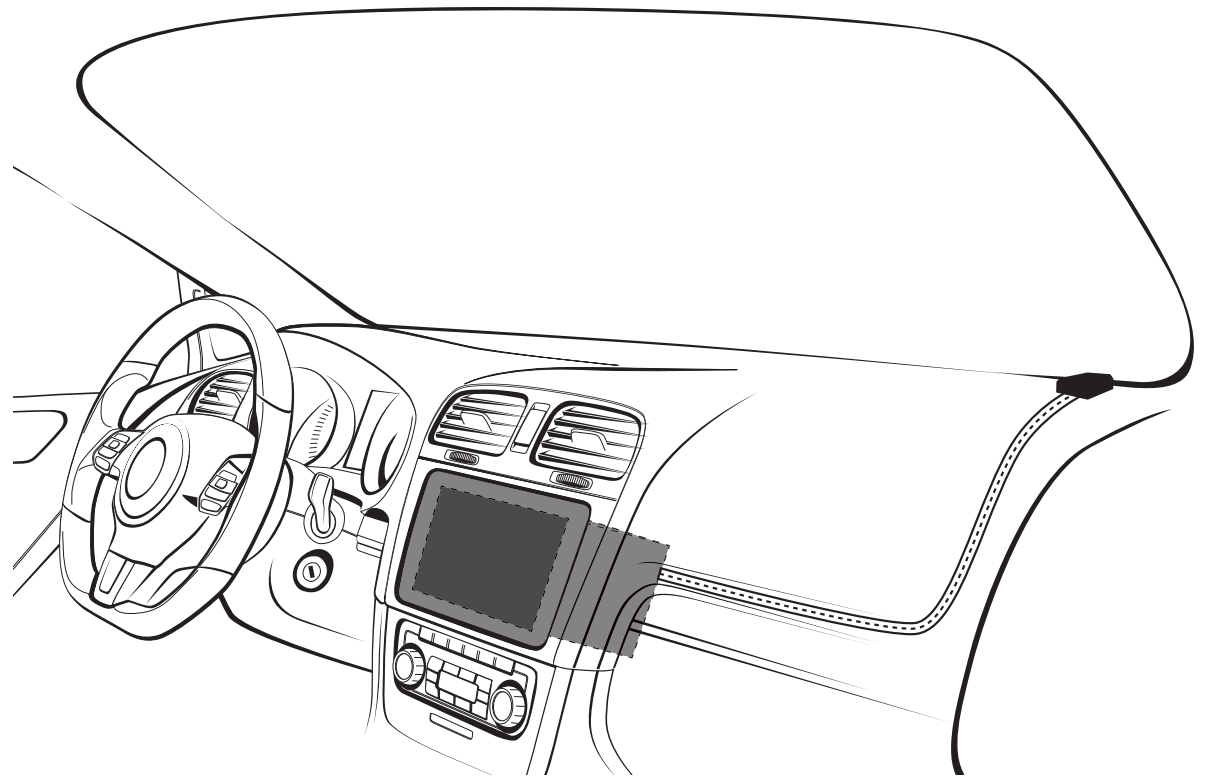
CONNECTION DIAGRAM R-D111



No.	Cable assignment	
1	FL+	Front left (+)
2	FL-	Front left (-)
3	RL+	Rear left (+)
4	RL-	Rear left (-)
5	ACC	Terminal 15 - ignition
6	CAMERA	Reverse signal with video signal (CVBS)
7	CAN-TX	Not used
8	CAN-RX/IR IN	IR-in input for connecting an external CAN / stalk interface
9	ANT 12V OUT	Power for Electric Antenna. Output +12 V (300 mA)
10	ILLUMI	Illumination (Terminal 58)
11	RR-	Rear right (-)
12	RR+	Rear right (+)
13	FR-	Front right (-)
14	FR+	Front right (+)
15	B+	Battery +12V (Terminal 30)
16	GND	Chassis Ground (Terminal 31)
17	BRAKE	Parking (Handbrake). The signal must be at ground when the handbrake is applied. To avoid accidents caused by carelessness, the screen goes dark while driving.
18	KEY1	Analog steering wheel remote control (analog connection)
19	KEY2	Analog steering wheel remote control (analog connection)
20	REVERSE	Reverse signal

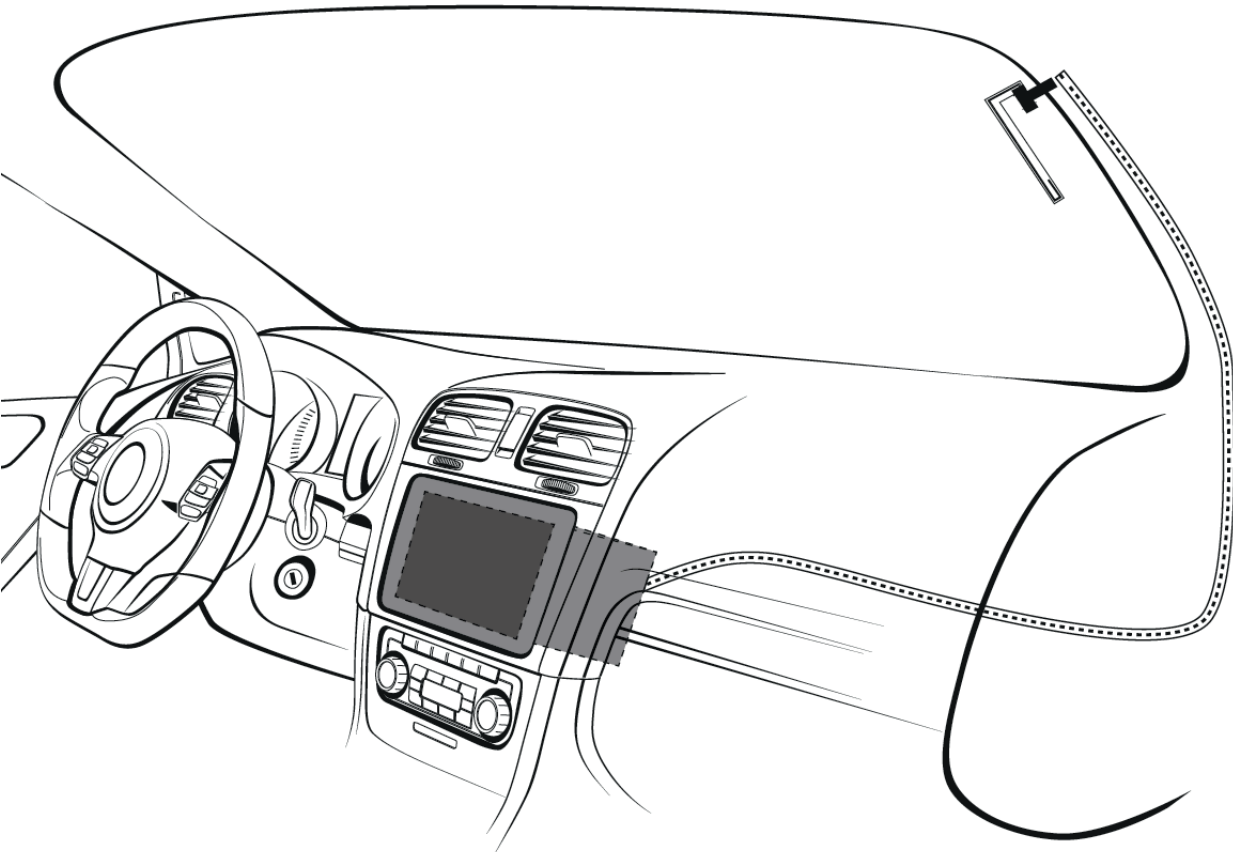
GSP antenna

Install the GPS antenna in a suitable position, making sure that the GPS reception is not adversely affected by unwanted shielding of metallic vehicle parts (thermal insulation glazing, etc.). Then route the connection cable into the radio bay.



DAB antenna

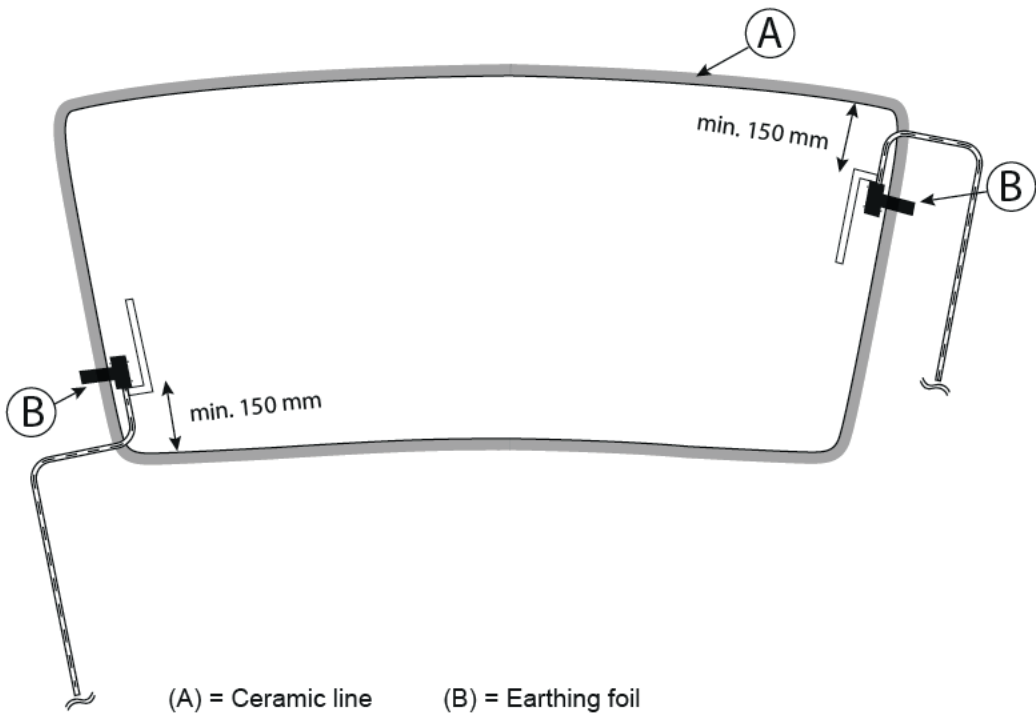
Route the antenna cable downwards along the A-pillar, along the dashboard and into the radio bay.



WORKING OUT THE INSTALLATION POSITION OF THE ANTENNA

Installing the antenna on the left-hand side

Installing the antenna on the right-hand side





## TROUBLESHOOTING

Problem	Cause	Solution
No power supply (Cannot switch device on)	Device not properly connected	Check cable connection, if necessary, contact dealer
	Faulty fuse	Check cable connection and swap fuse, if necessary, contact dealer
No sound from vehicle loudspeakers	Loudspeakers not connected properly	Check cable connection, if necessary, contact dealer
	External amplifier not connected properly	Check cable connection, if necessary, contact dealer
Operation no longer possible	System software has been modified	Press reset pin and restore device to factory settings
	Third party installed app has caused system software crash	Press reset pin and restore device to factory settings

### Note:

If you have any further questions or problems please check the FAQs for your RADICAL device.

You can find these at [www.my-radical.com](http://www.my-radical.com)

## STATUTORY RIGHTS AND WARRANTY

Dear customer,

Please read the warranty terms below carefully. Should your RADICAL product require warranty service, please return it to the retailer from whom it was purchased or else, the distributor of your country. Do not send-in any product to RADICAL directly. This RADICAL product is protected against defective materials and/or improper workmanship by a manufacturer warranty for the period of 2 years from date of purchase at retail, to the original buyer. The statutory consumer protection regulation („EU statutory warranty“) remains unaffected by the provided manufacturer product warranty. For the treatment of warranty related claims, the dealer / importer needs to register the device with an RMA number and provide a valid product serial number together with the original slip of purchase or the invoice, showing the purchase date.

### Not covered by the manufacturer warranty are damages due to:

1. Unauthorized or unapproved installation, incorrect audio or mains connection(s).
2. Defects caused by exposure of product to moisture, water and organic fluids (“solvents”), excessive heat and prolonged exposure to sun rays, as well as excessive dirt or dust.
3. Mechanical defects caused by accidents, fall or impact.
4. Damage due to unauthorized repair attempts and modifications of product not explicitly authorized by the manufacturer.
5. Damage caused by normal “wear and tear” over time.

This warranty is limited to the repair or the replacement of the defective product at the manufacturer’s option and does not include any other form of damage, whether incidental, consequential or otherwise. Damages caused by improper packaging during transportation of product back to dealer or importer are not covered under the warranty. Any compensation claims of consequential damages to other auxiliary devices or components in the dashboard caused by the device directly or indirectly, are excluded.


Not covered by the manufacturer are consequential costs arising from handling of product to conduct warranty service labor like for example the un-installation and re-installation of devices, to cure a hardware failure or other defect.

### My-Radical.com

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 10R-05 3024

R-D111



Hereby, ACR Brändli + Vögeli AG declares that the type of radio equipment R-D111 and R-D211 complies with the 2014/53/EU Directive. The full text of the EU Declaration of Conformity is available at the following Internet address: <http://www.acr.ch/en/home/> (see link „Product Conformity Documents“ in the footer are of the page).



by ACR AG · Bohrturmweg 1 · CH-5330 Bad Zurzach · Switzerland  
[www.my-radical.com](http://www.my-radical.com)

RevB