



Z-N965



INFOTAINER
USER MANUAL

EN

Device user manual for ZENEC media system

We are delighted that you have chosen a product from ZENEC.

Please read this operating manual before you start your new ZENEC system. In this device user manual you will find important instructions and information for the safe operation of the ZENEC system, and to help you make the most of its technical advantages.

All the information in this manual corresponds to the state at the time of going to press, and applies only to ZENEC systems in original condition. On account of possible updates to device software, the illustrations and features shown in this operating manual may be different from your ZENEC system. Differences in the information, illustrations or features cannot form a basis for any claims.

If you sell your vehicle with the ZENEC system still fitted, please ensure that this operating manual stays with the vehicle, and that any personal data like a phonebook stored in the device is deleted.

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SAFETY INSTRUCTIONS

CAUTION

If the driver of the vehicle is distracted, this may lead to an accident or injury. Operating the ZENEC system can distract attention from the general traffic situation! Equally, connecting, changing or inserting data media can distract the driver from the general traffic situation.

CAUTION

Always choose loudspeaker settings such that acoustic signals coming from outside can always be heard in the vehicle (e.g. signal horns or sirens).

CAUTION

Incorrect installation or commissioning of the ZENEC system may cause damage to the ZENEC system or to the vehicle electronics. Only let qualified specialists authorized by ZENEC install the device.

CAUTION

This ZENEC system is intended solely for operation at an on-board voltage of 12 V DC. Operating the ZENEC system at any other voltage can cause damage to the ZENEC system or to the vehicles electrical system.

CAUTION

Taking apart or modifying the ZENEC system can result in damage to the device or the vehicle. Opening the device or modification by a person not authorized by ZENEC will render warranty claims null and void.

In the event of a malfunction or defect please contact an authorized ZENEC dealer. Unauthorized repairs will void any warranty claim.

CAUTION

The connection and charging leads of external mobile devices can get in the way of the driver. Please run these so that the driver's freedom of movement is not hindered.

CAUTION

Route recommendations and displayed traffic signs on the ZENEC system may differ from the real situation. Real traffic signs and traffic regulations have precedence over route recommendations and indications of the ZENEC system.

Speed data displayed in the navigation system corresponds to the permitted speed limit. Please adjust your speed and driving behavior to the prevailing visibility, weather, road, and traffic conditions.

TURN ON / OFF

See page 8 and item ① for the location and manual operation of the left rotary encoder with Power ON / OFF function.

Auto ON / OFF

Z-N965 devices mounted in vehicles without factory installed SWC: Device will switch on with ignition (ACC) position of key*.

Z-N965 devices mounted in vehicles with OE SWC and additional Stalk interface: Device will switch on with ignition (ACC) position of key*.

NOTE

For vehicles equipped with OE steering wheel controls, a separate Stalk interface is required (not part of this kit).

*The ACC ignition key may not auto start the device, depending on the presence of a second 12V battery in the vehicle and the brand specific electrical power cable routing and system connection of auxiliary components.

Further info may be obtained by the vehicle maker or an authorized ZENEC dealer.

ANTI-THEFT PROTECTION

The ZENEC system is equipped with an anti-theft protection function. If this is active, on restarting the ZENEC system after interruption of the power supply you will be asked to enter your password.

To change the password:

Device User Manual → Setup → Password

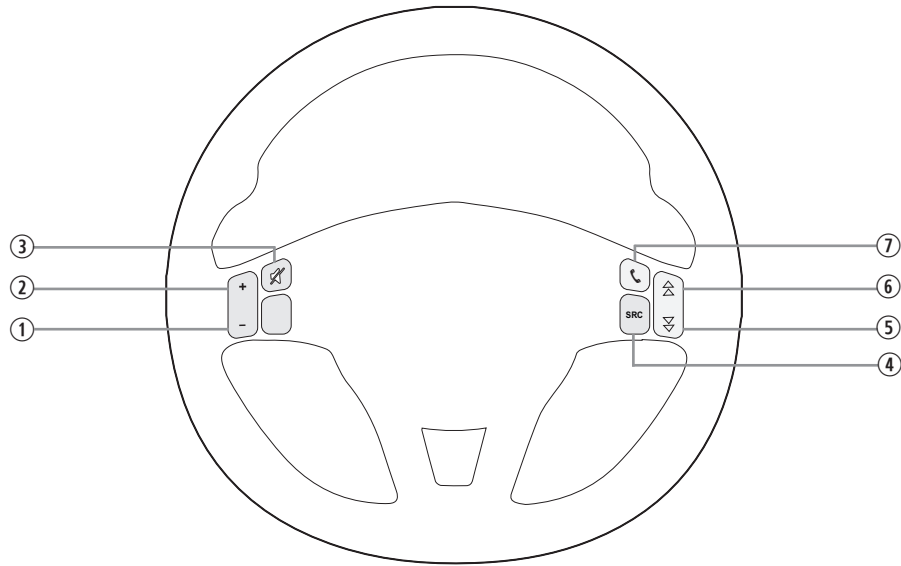
NOTE

Keep your password safe. If the password is lost the ZENEC system must be uninstalled, and sent back in to ZENEC Service to unblock the anti-theft protection. The unblocking service is not free of charge!



See detailed information at page 77

MULTIFUNCTION STEERING WHEEL

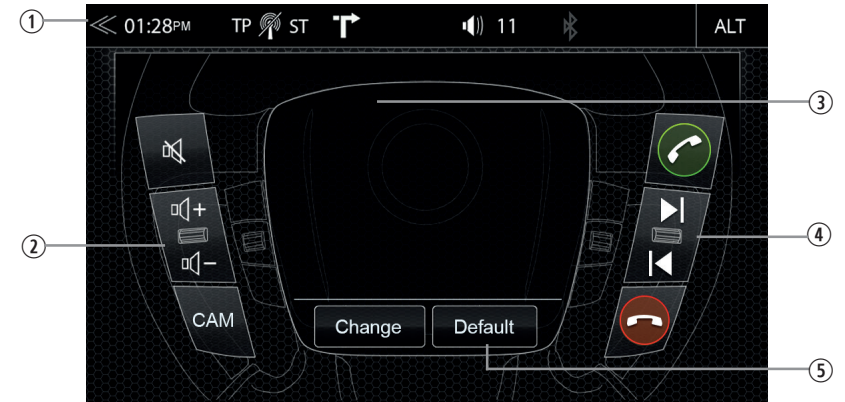


Item	Function	
①	Reduce volume	
②	Increase volume	
③	Mute	
④	Change playback source	
⑤	Radio source	Press to choose the previous radio station
	Media source	Press to choose the previous next track/title Press and hold to fast rewind.
⑥	Radio source	Press to choose the next radio station
	Media source	Press to choose the next track/title Press and hold to fast forward
⑦	Accept/end call	

i NOTE

These functions can only be used when a multifunction steering wheel is present in the vehicle, and the ZENEC system is connected via a car specific CAN/Stalk interface.

STEERING WHEEL CONTROL (learning mode)



The ZENEC device is pre adjusted to your vehicle (see vehicle compatibility) and can directly use the SWC if the device is connected via Key1/Key2 (mini-ISO) to your vehicle. You can adjust the SWC via the device Misc settings, to open up above screen. See page 61 "SWC Assignment" setting.

Item	Icon	Operation
①		Tap to return to the home screen.
②		Shows assigned functions to the left side steering wheel keys of your vehicle.
③		Shows assignable functions. Function keys with a green hook are assigned and can be found on left or right side. Function keys with a slashed red circle are not assigned.
④		Shows assigned functions to the right side steering wheel keys of your vehicle.
⑤		Tap to restore the default values.

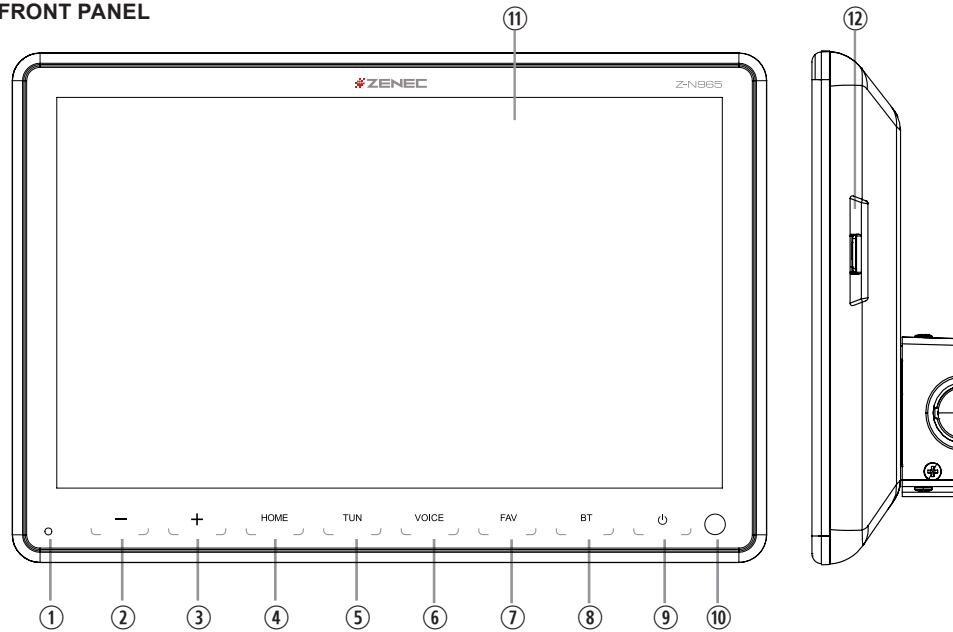
To readjust or re-learn functions press on the "change" button in lower section of (4). After pressing it, it will update the area with the available function keys like shown in picture above. The system will then clear the left (2) and right side (3) and you need to re-assign them.

The free/empty to-assign-key, which the system want to handle next, will be highlighted by the system and you can choose one of the function keys in area (4). On pressing a function key, the key icon will be copied/assigned to the highlighted free button. The function button receives a green hook and the system will move on and show you the next free/empty to-assign-key. This will continue until all free/empty buttons are completely assigned.

i NOTE

This function is only available if the device is connected via Key1/Key2 (miniISO) to your Vehicle and is not available if an IR Stalk Interface is connected via IR in wire.

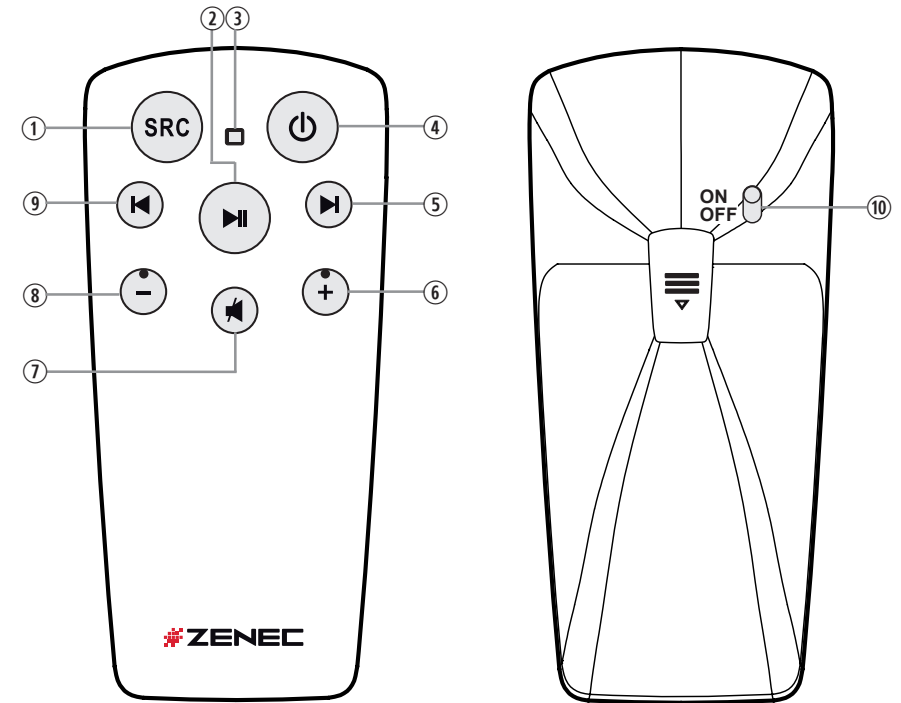
FRONT PANEL



Device Front Panel Control Options

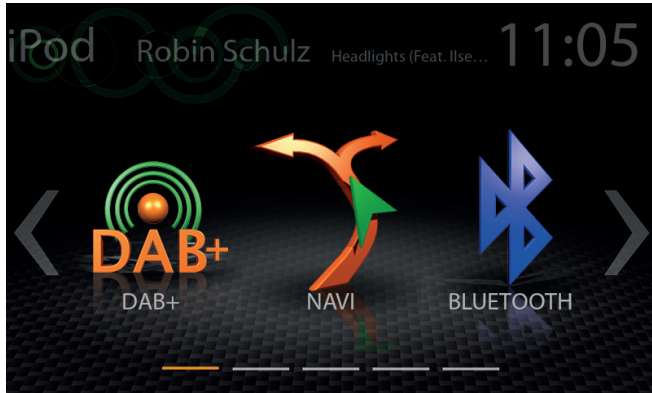
Item	Icon	Function
1	○	IR receiver for remote control
2	—	Tap and / or hold to decrease the volume
3	+	Tap and / or hold to increase the volume
4	HOME	Press to jump back to main menu Press and hold jump to audio settings
5	TUN	Tap to open radio source
6	VOICE	Tap to start the Android or CarPlay voice control. Tap once more to cancel the voice control. Tap and hold to restart the voice input.
7	FAV	Tap to select preferred content or execute a function Tap and hold to jump to audio settings
8	BT	Tap to open the Bluetooth suite
9	⏻	Press and hold to turn device ON or OFF Press to mute/- unmute device
10	○	Internal microphone
11		Touchscreen display
12		microSD card slot for GPS navigation software behind „MAP“ cover

REMOTE CONTROL



Item	Function	
①	Change playback source	
②	Play/Pause	
③	LED	
④	Turn on/off device	
⑤	Radio source	Press to choose the next radio station
	Media source	Press to choose the next track/title Press and hold to fast forward
⑥	Increase volume	
⑦	Mute / unmute	
⑧	Reduce volume	
⑨	Radio source	Press to choose the previous radio station
	Media source	Press to choose the previous next track/title Press and hold to fast rewind
⑩	Turn on/off remote control	

MAIN MENU STRUCTURE



Main menu with 3 Icons



Main menu with 6 Icons

The icon amount show per main menu page can be adjusted in the setup (see page 59 „Main Menu Style“).

Display – touch sensitive operation Bedienung

Function	Icon	Operation
Slide		Swipe to navigate in the main menu by sliding page to the left or right
Move		Press and hold to move an icon into the desired position

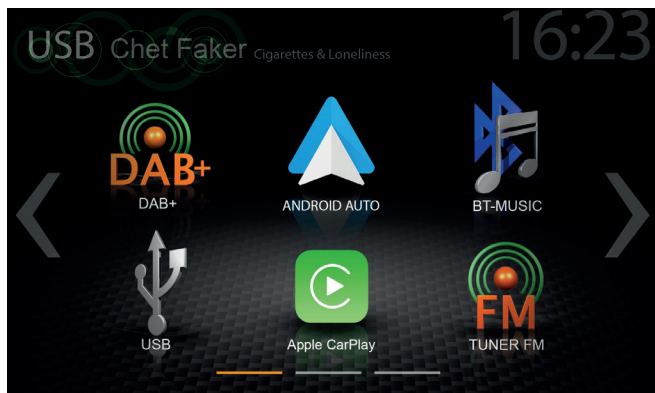
MAIN MENU ICONS







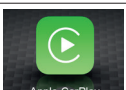



You can navigate through main menu pages by swiping or tapping on the orange page markers in the bottom area of each page.

Function	Icon	Operation
Navi		Tap to open navigation App
Bluetooth		Tap to open the Bluetooth suite
Tuner (FM)		Tap to open FM radio source
USB		Tap to enter USB source
iPod		Tap to open audio playback source (Apple)
BT-Music		Tap to open BT-Music source
DAB+		Tap to open DAB+ radio source

MEDIA AUDIO SOURCES



You can access / enter connected internal or external sources by tapping on the main icon according to the following list.




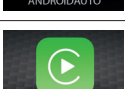

Function	Icon	Operation
USB		Tap to enter USB source
iPod		Tap to open audio playback source (Apple)
BT-Music		Tap to open BT-Music source
Android Auto		Tap to start Android Auto
Apple CarPlay		Tap to start Apple CarPlay
Tuner FM		Tap to open FM radio source
DAB+		Tap to open DAB+ radio source
HDMI		Tap to open HDMI source

INPUT SOURCES



To select and open external sources like HDMI, Camera, AV/IN, Android Auto or CarPlay, they need to be paired or physically connected to the device.

Input Sources

Function	Icon	Operation
HDMI		Tap to open HDMI source
Camera		Tap to enter camera source
Android Auto		Tap to start Android Auto
Apple CarPlay		Tap to start Apple CarPlay
AV/IN		Tap to open AV/IN source

i NOTE

Icons in the main menu remain greyed out for sources not connected to device.

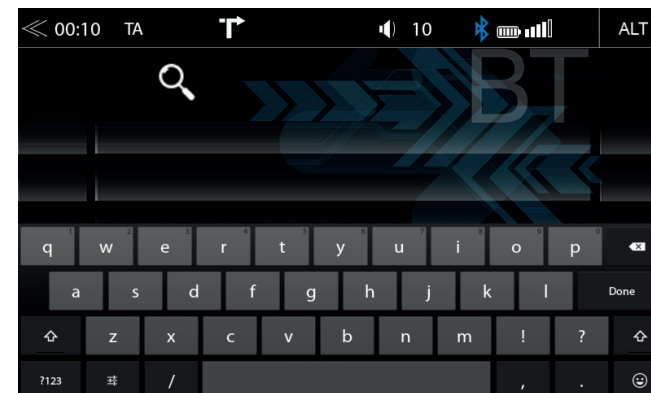
STATUS BAR ("INFO BAR")



The „info bar" in the upper hand screen area shows TA, volume and time but also contains two important controls for device operation: BACK (left side) and ALT (right side).

Function	Icon	Operation
Back		Tap to jump one level up or back
Clock Time		Display of time (no interaction possible)
Traffic Announcement		Traffic announcement of FM radio (if function is set to active)
Volume		Shows the current playback volume
ALT		Tap to select / start a previously assigned function Settings → Misc → ALT Softkey button
No DAB Signal		This icon indicates that no DAB signal, or no DAB antenna is connected to device.

SEARCH AND INPUT FUNCTION



The keyboard for search and input is based on the Android OS system layout. The system language selection will automatically assign QUERTY or QWERTZ layout.

Function	Icon	Operation
Search		Cursor and text input field
Delete		Tap to delete a number, letter or sign
		Press and hold to delete the full string
Back		Tap to end the search or the input
Large / Small		Tap to select small / capital letters for entries
		Tap twice to write all letters or numbers in capital style
List view		Tap to show all search results/- full list
Open keyboard		Tap to open the keyboard

FM RADIO



The FM RDS source menu offers a control-/operating section on the right hand side, for fast and convenient adjustments during the FM radio playback.

Center Section of Display

Function	Icon	Operation
Station freq search up		Tap to start the auto FM station search, running up in the frequency band
Station		Station Name / Station Frequency
Station freq search down		Tap to start auto FM station search, running down in the frequency band
Cover		Shows radio station graphics or cover picture of artist
Info display area		Finger swiping left and right to access stored FM stations previous / next

Control- and Operating Section

Function	Icon	Operation
Info		Tap to show station information
Frequency Scale		Tap to open FM station frequency bar
Preset		Tap to show the stored FM station list
Tuner Setup		Tuner settings
TA		Tap to activate or de-activate the auto switching of RDS traffic announcements
FM / DAB Switch		Tap to switch to DAB

FM BAR GRAPH MODE



The FM setup mode (press gear icon) allows to assign two different operation modes to both station frequency arrows: manual steps in 100kHz, or auto scan (stopping at next station). See page 18.

Function	Icon	Operation
Station Frequency UP		Tap to start manual 100kHz jump, or FM station auto search up
Station Frequency Input		Tap to open the frequency direct input mode keyboard
Station Frequency DOWN		Tap to start manual 100kHz jump, or FM station auto search down
Bar Graph Scale		Press and hold to slide the frequency pointer of the bar graph into any position. Tap to set a desired frequency value on the scale

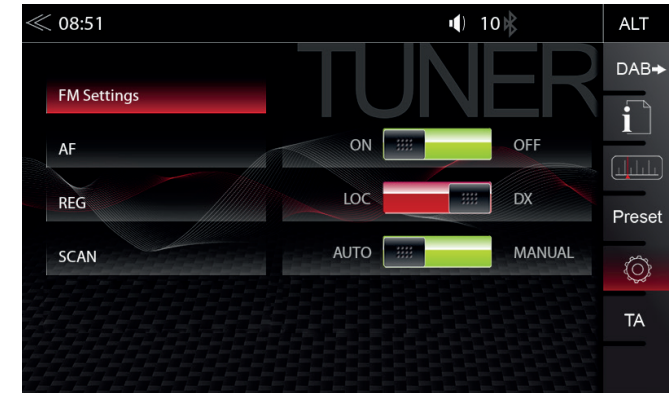
MANUAL FM STATION SEARCH



When you tap to the frequency display area, the numeric input keyboard opens for a direct station frequency input.

Function	Icon	Operation
Station Frequency UP		Tap to auto seek / manual seek up, depending on setting
Station Frequency		Tap to open and close station direct frequency input via keypad
Station Frequency DOWN		Tap to auto seek / manual seek down, depending on setting
Scale		Radio frequency scale display
Delete		Tap to delete a number Press and hold to delete the full text string
Keypad		Direct frequency input option
OK		Touch to confirm frequency

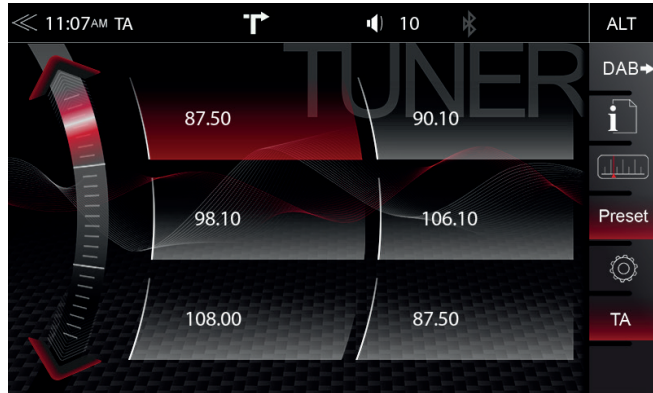
FM SETUP



Here you can set important FM RDS based settings such as AF and REG.

Function	Icon	Operation
AF		Alternative Frequency ON / OFF
REG		Setting to keep AF in the regional (local) station tuning mode.
SCAN		Setting to choose the automatic or manual station frequency search.
TA		Tap to activate or de-activate the auto switching of RDS traffic announcements

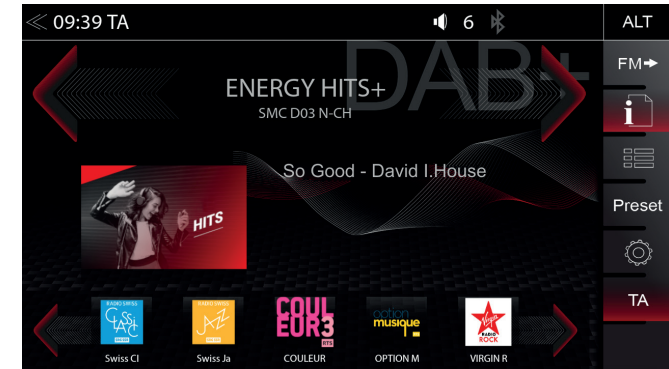
FM STATIONS-PRESETS



Select a previously stored FM radio station by tapping on the station preset button.

Function	Icon	Operation
Previous page		Tap to switch to previous preset page
Next page		Tap to switch to next preset page
Select station / Store a station		Tap to select a previously stored radio station. Press and hold the station to save an actual radio station on any of the station preset buttons

DAB+ RADIO



The DAB+ source menu offers a control- + operating section on the right side of the display, allowing for simple and convenient direct adjustments of DAB+ functions in the playback menu.

Function	Icon	Operation
Station up		Tap to jump to next station Press and hold to jump to next Ensemble
Station info		Station Name / Ensemble name
Station down		Tap to jump to previous station Press and hold to jump to previous Ensemble
Slideshow		Radio station artwork / artist display ("MOT Slideshow")
Info Display Area		Finger swiping left and right to switch between Preset stations Pre-Slideshow (Station list pre-show) area: Finger swiping left and right to scroll the Station list
Station list back (List scrolling)		Press / hold to move the station list back
Pre-Slideshow (Station list pre-show)		DAB+ Station list artwork / artist pre-display, if available
Station list forward (List scrolling)		Press / hold to move the station list forward

Control- and Operating Section

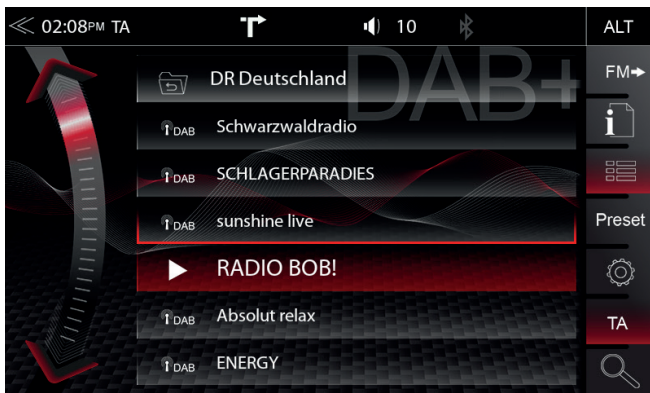
Function	Icon	Operation
FM / DAB+ Switch		Tap to switch to FM tuner source
Info		Tap to show station information - main display
List		Tap to open the station list (showing all currently receivable radio stations in the area)
Preset		Tap to show the stored DAB station list
Setup		Tap to change settings for DAB+ functions

DAB+ ENSEMBLE AND STATION LIST



Once the first DAB+ band scan has completed, device will show all DAB+ Ensembles and radio stations of sufficient signal strength. The Ensemble list and its content is auto updated periodically.

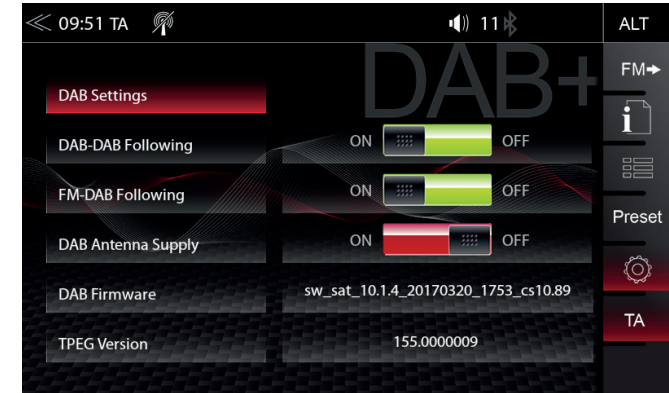
Function	Icon	Operation
Ensemble list selection		Tap to open an Ensemble, showing the assigned DAB+ radio station list
List scrolling		Press and hold to move the slider of the Ensemble list up and down
Back		Tap to jump one level back or up



A tap on each Ensemble opens the related DAB+ station list of the respective Ensemble. The station list content follows exactly the original Ensemble display format and list sequence.

Function	Icon	Operation
Radio station selection		Tap to select one particular radio station out of the list
List scrolling		Press and hold to move the slider of the station list up and down

DAB+ SETUP



The setup page for the DAB+ tuner allows to define important functions such as DAB->DAB and FM->DAB station following. And also to activate the phantom power supply voltage of the DAB antenna socket.

Function	Icon	Operation
DAB-DAB Following		Tap to turn DAB-DAB station following ON or OFF
FM-DAB Following		Tap to turn FM-DAB station following ON or OFF
DAB antenna socket phantom power		Tap to turn the 12V phantom power supply of the DAB antenna socket on the device backside ON or OFF
DAB Firmware		Displays the current DAB+ Firmware version
TPEG Version		Displays the current TPEG version

i NOTE

The FM-DAB Following function works with a static function algorithm. This may or may not deliver good switching results, depending on the broadcast region.

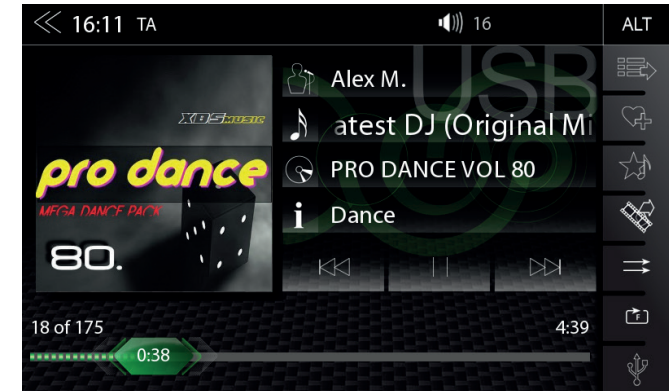
DAB+ STATION-PRESETS



Select a previously stored DAB+ radio station by tapping on the station preset button.

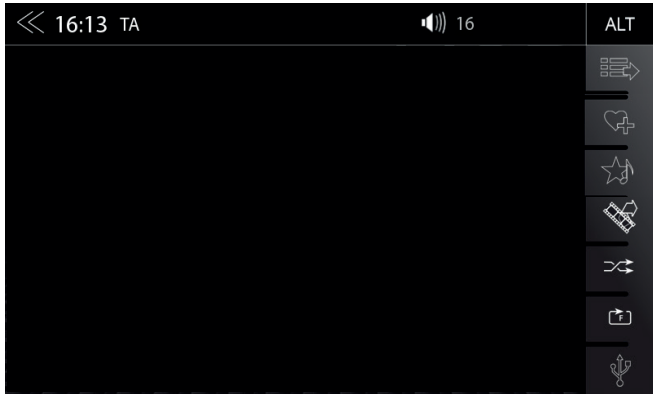
Function	Icon	Operation
Previous page		Tap to switch to previous preset page
Next page		Tap to switch to next preset page
Select station / Store a station		Tap to select a stored DAB+ station. Press and hold the station to save the actual radio station on any of the station preset buttons

USB / BT A2DP / IPOD / MEDIA



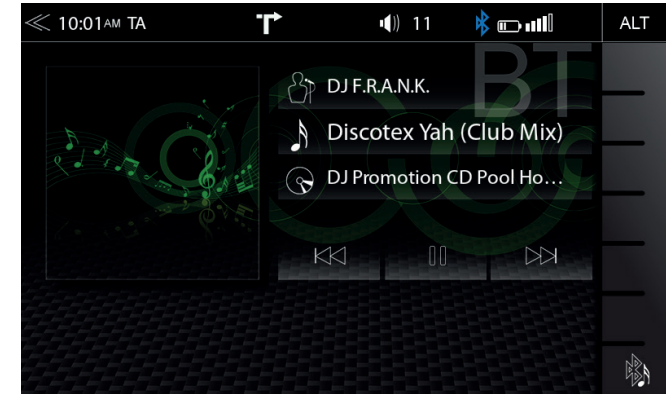
Various types of information shown in the source menu of the audio playback by (USB, BT A2DP, IPOD, etc.).

Function	Icon	Operation
Album Art / Cover		If a cover is stored on the music media, it will be displayed. This function is not supported for BT Audio playback.
Artist		Information about the artist
Track		Information about the track
Album		Information about the album
Genre		Information about the genre or any other special infos
Back		Tap to skip to the previous track Press and hold to start fast reverse
		Swipe to the left to skip to the previous track
Play		Tap to play a track
Pause		Tap to pause at a track
Forward		Tap to skip to the next track Press and hold to start fast forward
		Swipe to the right to skip to the next track
Playback Time Line		Tap or slide to skip within a track



The control and operation bar on the right side of the audio playback media menu continues to play lists, favorites, and external USB memory.

Function	Icon	Operation
Playlist		Tap to display the folder and track list This function is not supported for BT Audio playback.
Smart Playlist		Tap to add a track to own playlist This function is not supported for BT Audio and iPod
Favorites		Tap to add a track to FAV playlist This function is not supported for BT Audio and iPod
Video <-> Audio Source		Tap to switch between audio or video playback. This function is not supported for BT Audio and iPod
Shuffle		Tap to turn on the random play feature within the folder that is playing
Repeat		Tap to automatically repeat a track or a complete music collection
Source		Touch to jump to next available source (Available sources USB, iPod and BT-Music)

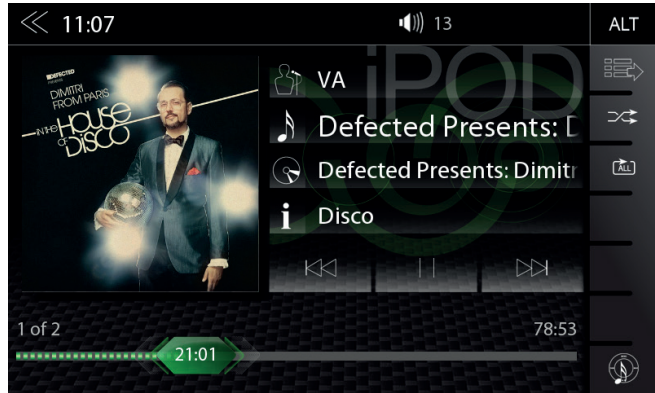


The A2DP RVC interface offers Play, Pause and Skip control of previously paired smartphones in audio playback mode. The iD3-Tag meta data display is possible only when tag data is contained in the streamed music track.

NOTE

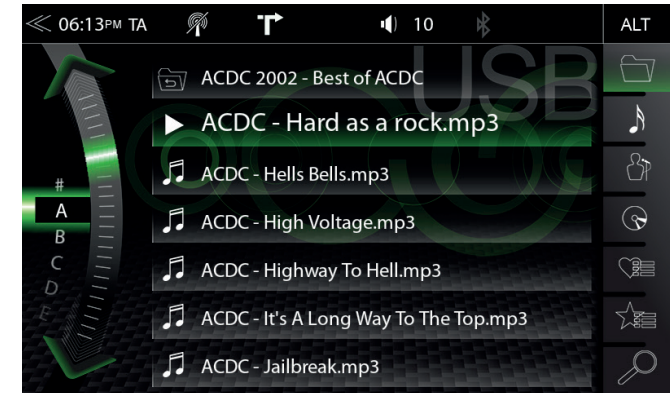
The listed functions depend on the paired mobile phone, installed software versions and the degree of compatibility.

iPOD (AUDIO)



The order of the Artist display is given by the sorting sequence on the mobile Apple device and can not be changed or adapted in any way.

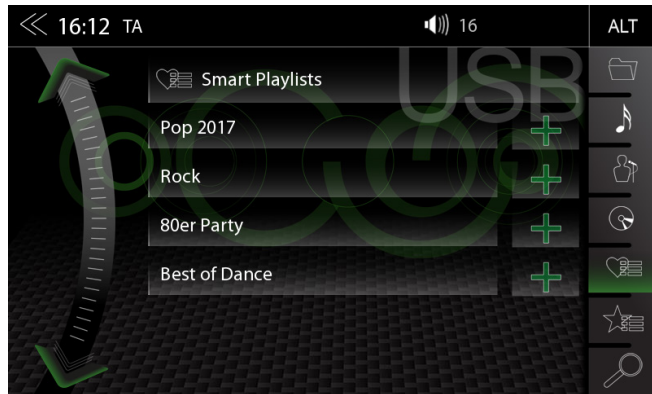
PLAYLIST (AUDIO)









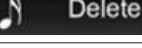


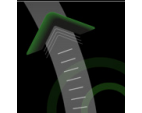
There are different playlists. We generally differentiate between the standard and special playlists (Smart Playlist and Favorites Playlist).

Function	Icon	Operation
Folder (uppermost)		Tap to go to the next higher level
Folder		Touch to go to the highest folder level Hold to go to the hard disk overview (root)
Song		Listing by song
Artist		Listing by artist
Album		Listing by album
Smart Playlist		Tap to access the Smart Playlist (Shows created Playlists)
FAV List		Tap to access the FAV playlist
Search		Tap to open search keypad
Scroll		Scroll in the list: Touch and hold to move the slider up or down Tap and hold your finger on the list to move the list up or down

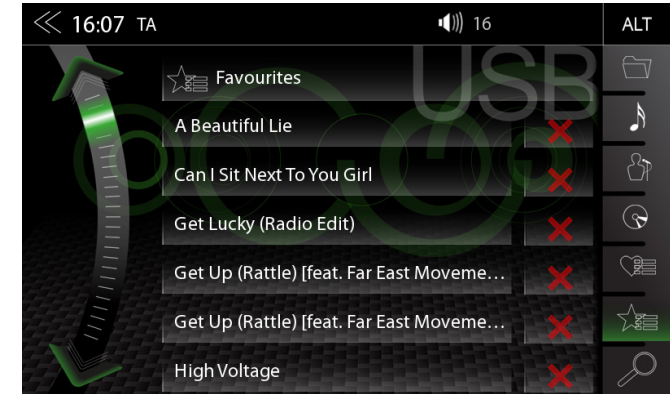
SMART PLAYLIST (AUDIO)



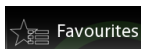

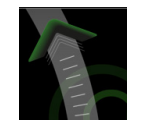
This function allows you to manage the playlists which created by the Smart Playlist function. The playlists can be renamed.

Function	Icon	Operation
Playlist name field		Tap to go to the next higher level
Playlist editing mode		Tap to edit a playlist (editing mode)
		Tap to delete a playlist
		Tap to rename a playlist
		Tap to cancel playlist edit mode
Song editing mode		Tap to edit a song within a playlist (editing mode)
		Tap to delete a playlist song
		Tap to move a song of the playlist (Add a song to another playlist)
		Tap to cancel edit mode
Scroll		Scroll in the list: Touch and hold to move the slider up or down Tap and hold your finger on the list to move the list up or down.

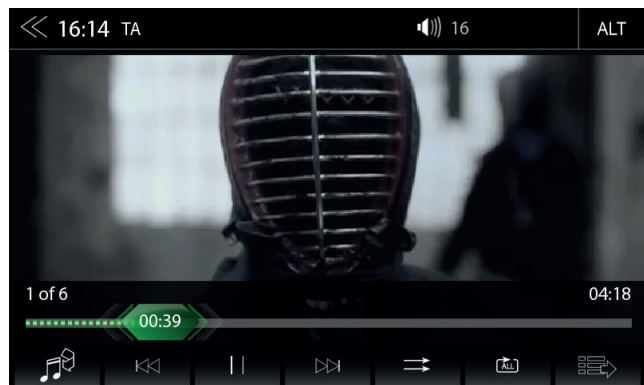
FAV PLAYLIST (AUDIO)



This playlist feature allows you to add a song easily and quickly to a fixed favorite playlist.

Function	Icon	Operation
Playlist name field		No function, text field only. Note: The name of the FAV playlist can not be changed.
Delete		Tap to delete a FAV playlist song
Scroll		Scroll in the list: Touch and hold to move the slider up or down Tap and hold your finger on the list to move the list up or down.

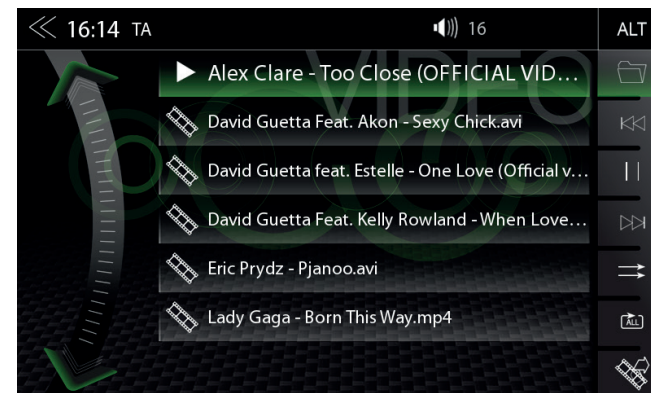
VIDEO MEDIA: HARDDISK



For video playback via USB parking cable must be connected during the device installation. Without this connection, the screen remains black.

Function	Icon	Operation
Jump inside Title		Tap to skip directly to the desired position Slide to reach the desired position
Video<->Audio Source		Tap to switch between audio or video playback. This function is not supported for BT Audio and iPod
Back		Tap to skip back to the previous section
Play		Tap to play a film
Pause		Tap to pause a film
Forward		Tap to skip forward to the next section
Playlist		Tap to display the folder and track list This function is not supported for BT Audio
Shuffle		Tap to turn on the random play feature within the folder that is playing
Repeat		Tap to automatically repeat a film or complete video collection

PLAYLIST (VIDEO)



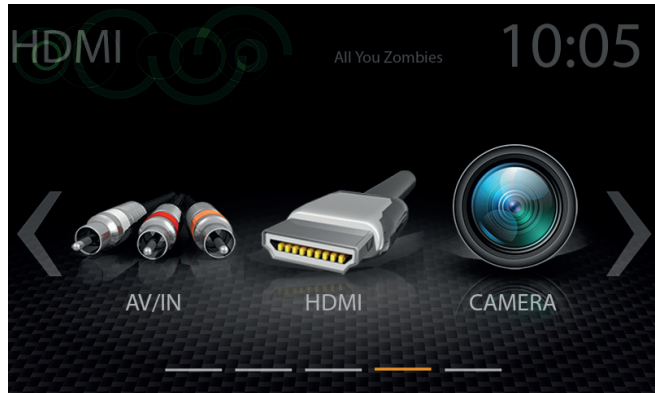
Playlist (Video) displays the video files on the USB data carrier with their file name. In this list sliding up or down is easily possible.

Function	Icon	Operation
Folder		Touch to go to the highest folder level Hold to go to the hard disk overview (root)
Back		Tap to skip back to the previous section
Play / Pause		Tap to play a film or a video Tap to pause a film or a video
Forward		Tap to skip forward to the next section
Shuffle		Tap to turn on the random play feature within the folder that is playing
Repeat		Tap to automatically repeat a film or complete video collection
Video <-> Audio Source		Tap to switch between audio or video playback. This function is not supported for BT Audio and iPod
Scroll		Scroll in the list: Touch and hold to move the slider up or down Tap and hold your finger on the list to move the list up or down


CAUTION

Playing video files while driving is not permitted by the law. For this reason the screen will be switched off when the vehicle is in motion, with the playback of sound only.


HDMI / AV/IN



Tap on the HDMI icon to open the HDMI source, if a compatible HDMI source is connected, for example a videogame, smartphone, tablet, notebook.

Function	Icon	Operation
HDMI		Tap to open HDMI source mode



Tap to the AV/IN icon to open the AV/IN source, if a compatible AV/IN source is connected, for example a videogame, smartphone, tablet, notebook.

Function	Icon	Operation
AV/IN		Tap to open AV/IN source mode

CAMERA



Tapping the camera icon starts the manual camera mode, when a CVBS type camera is connected to the camera input of the unit.

Function	Icon	Operation
Camera		Tap to open camera source
Camera switching		Tap to switch sequentially through all three cameras (CAM-1 > CAM-2 > CAM-3) Same control operation also possible by SmartDial short press

CAMERA GRID-LINES



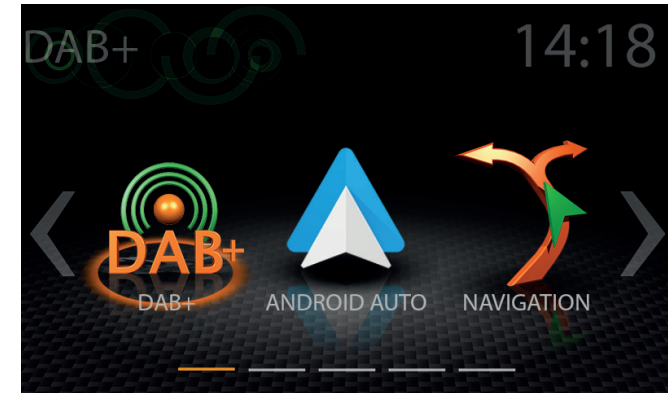
Comfortable parking assist with three adjustable camera grid lines for their own individual attitude.

Function	Icon	Operation
Settings		Touch to adjust the lines
Presentation	Marker <input checked="" type="checkbox"/>	Touch to show or hide the lines
Line fields	Linie 1	Display the line fields (1 – 3) with the arrows to change levels.
Back		Touch to exit the settings menu
Together		Touch to narrow the current field
Apart		Touch to widen the current field
Up		Touch to bring the current field nearer
Down		Touch to push the current field away
Basic setting		Touch to set the lines to the basic setting

NOTE

To carry out calibration of the assist lines, reverse parallel to the parking space stripes and centrally to the start of the parking space.

USING ANDROID AUTO



With Google Android Auto, you are able to access compatible apps and online services of your Android smartphone in your motor home and operate them intuitively with the display of your ZENEC device or the voice assistant from Google.

USING ANDROID AUTO

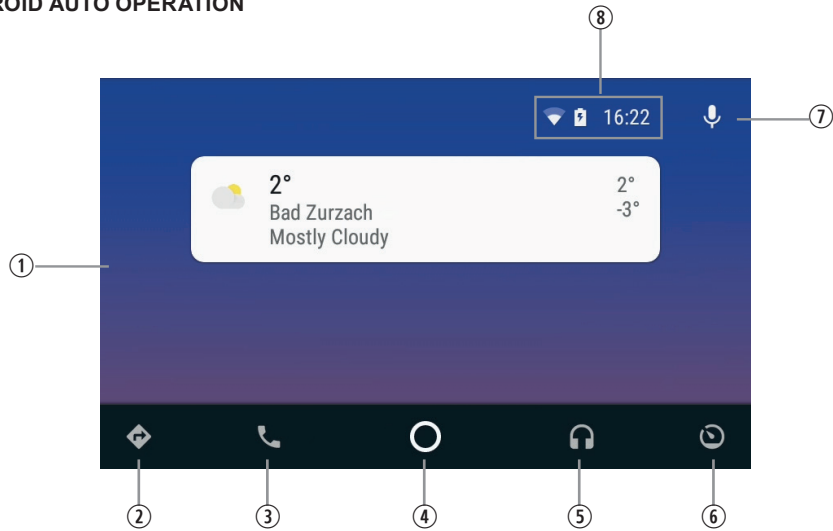
PREPARATION:

- Download the Android Auto app from the Google Play Store.
- Connect the Android smartphone with the USB connector of the ZENEC device.
- To use the hands-free function of Android Auto, connect the Android smartphone with the ZENEC device via Bluetooth. Please pay attention to chapter „Bluetooth (Hands-free System) → Pairing“.

INITIAL OPERATION:

1. For the initial operation, the vehicle must not be in motion and the hand brake must be put on.
2. Tap to the Android Auto icon in the main menu of the ZENEC device to choose the Android Auto source.
3. Follow the dialogue on the display of the ZENEC device to install Android Auto and to configure the start behaviour. It is possible to change the selected start behaviour in the setup operations anytime later. Please pay attention to chapter „Setup Operation → Misc → Launch Android Auto“.
4. After the initial operation has been completed successfully, the Android Auto user interface appears on the screen of the ZENEC device.

ANDROID AUTO OPERATION

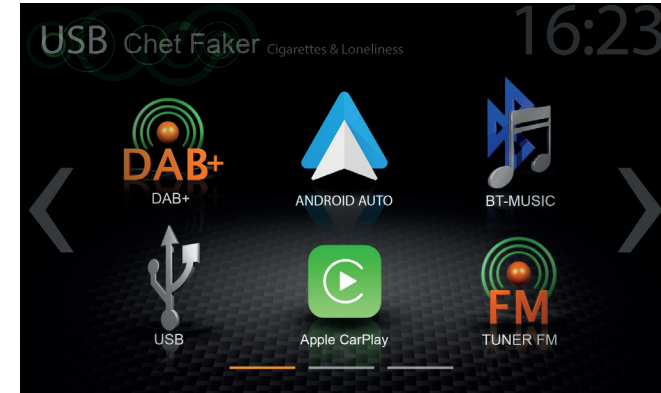


Item	Icon	Operation
1		Android Auto user interface
2		Navigation
3		Telephony
4		Open Android Auto user interface
5		Media playback
6		Open ZENEC main menu
7		Activate Android Auto voice control
8		Smartphone status information (can vary depending on the model)

i NOTE

- Android Auto may not be available on all devices and is not available in all countries and regions.
- To use Android Auto with your Android Smartphone, at least Android 5.0 (Lollipop) or a higher version of the Android operation system must be installed on your smartphone.
- To use Android Auto on your ZENEC device, you have to adjust time and date on your ZENEC device correctly. Please pay attention to chapter „Setup Operations → System → Clock & Date Setup“.
- For more detailed information about Android Auto, please visit <https://www.android.com/auto/> and <https://support.google.com/androidauto#topic=6348027>

APPLE CARPLAY



With Apple CarPlay, you are able to access compatible apps and online services of your iPhone in your car and operate them intuitively with the display of your ZENEC device or the voice assistant from Apple Siri.

USING APPLE CARPLAY

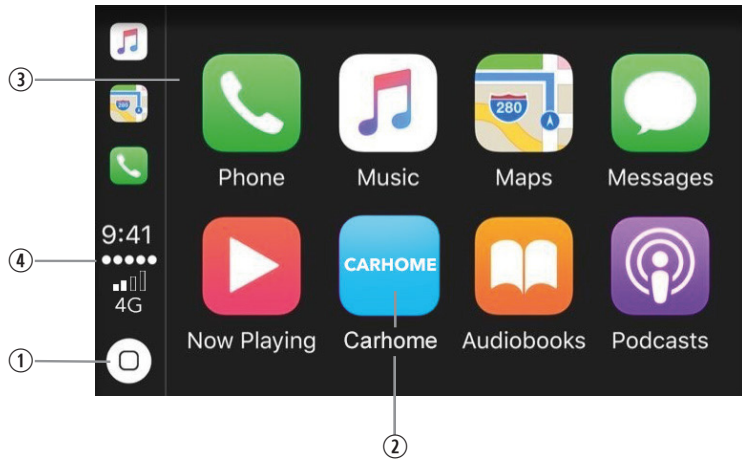
PREPARATION:

- Connect the compatible iPhone with the BACKSIDE USB-1 connector of the ZENEC device.
- Bluetooth will be automatically establish on BACKSIDE USB first time connection.
- Unlock your iPhone.

INITIAL OPERATION:

1. For the initial operation, the vehicle must not be in motion and the hand brake must be put on.
2. Tap to the CarPlay icon in the main menu of the ZENEC device to choose the CarPlay source.
3. After the initial operation has been completed successfully, the CarPlay user interface appears on the screen of the ZENEC device.

APPLE CARPLAY OPERATION



Item	Icon	Operation
1		Tap to display the home screen of CarPlay
2		Tap to open the ZENEC main menu
3		Tap any of the APP icon to start the application
4		iPhone status information

i NOTE

- CarPlay isn't available on older iPhones..
- To use CarPlay with your iPhone, at least iOS 7.1.x or a higher version of the Apple operation system must be installed on your phone.
- For more detailed information about Apple CarPlay, please visit <https://www.apple.com/de/ios/carplay/>

BLUETOOTH (HANDS-FREE SYSTEM)

ABOUT THIS CHAPTER

This chapter describes how to operate and use the hands-free system. In addition, the BT setup and functions of the ZENEC BT system are described.

SAFETY INSTRUCTIONS

⚠ CAUTION

Operating the mobile phone with the hand while driving is not permitted. Only enter data or make changes via the ZENEC system when vehicle is parked, or traffic situation allows such actions.

⚠ CAUTION

Network coverage depends on a number of factors – such as the network provider, or the geographical position of the vehicle. Tunnels, underpasses, parking garages, or street canyons in cities may lead to interruption of the connection. Thermal glazing or metallic stickers on the windows of the vehicle may also disrupt the connection of the smartphone to the GSM network.

CONTROL AND OPERATION BAR (RIGHT)



The vertical control and operation bar on the right area of the Bluetooth page serves to invoke device manager, or access phone book, favorites, call logs, numeric keypad, Bluetooth settings and Scan (BT device search).

Function	Icon	Operation
Device manager		Tap to access the device manager page
Phonebook		Tap to access the phonebook of the currently paired mobile phone
Favorites		Tap to access the stored favorites
Call logs		Tap to access the call logs
Numeric pad		Tap to open the numeric keypad
Bluetooth setup		Tap to change the most important settings for BT operation
Scan (Search)	Scan	Tap to search for a new Bluetooth device

DEVICE MANAGER



The BT function on the device must be activated to invoke connection process. Please pay attention to the smartphone manufacturer's instructions regarding device pairing.

Function	Icon	Operation
Device manager		Tap to pair, disconnect, or manage mobile devices

Function	Icon	Operation
Pair		Tap to reconnect a paired Bluetooth device
Disconnect		Tap to disconnect a paired Bluetooth device
Delete		Tap to delete a Bluetooth device from the list (requires the device to be disconnected)

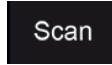
Icon	Meaning
	This icon indicates that the paired Bluetooth device supports HSP/HFP, and can be used via the hands-free system.

PAIRING




To connect a smartphone to the Zenec device via Bluetooth, first step is to successfully complete the pairing process.

Via ZENEC system

Function	Icon	Operation
Scan (Search)		Tap to the SCAN icon to initiate a search for BT devices. From the list select the desired mobile device that you want to synchronize with the ZENEC system. Once device is selected, follow the instructions.

Via the mobile device

Function	Icon	Operation
Search		Make sure that the ZENEC system is in Device Manager view otherwise the ZENEC system will not be visible to other devices. Follow the instructions of the device manufacturer on pairing.

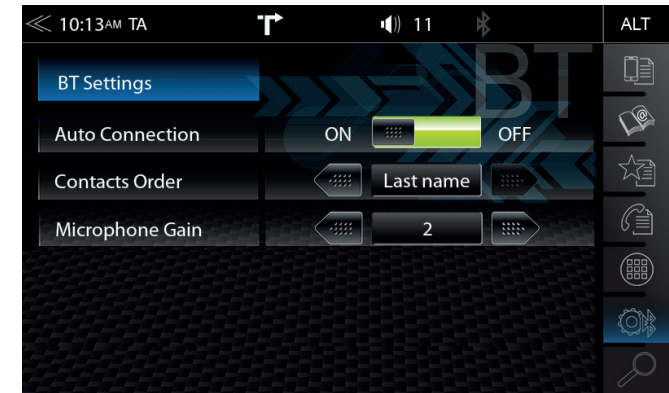
Auto Connect

Once a mobile device has been connected with the ZENEC system, it will be automatically paired when the ZENEC system is started. On being briefly disconnected the ZENEC system will attempt to establish a new connection.



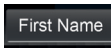

i NOTE

On pairing for the first time, be sure to permanently enable the connection confirmation on your mobile device, otherwise malfunctions may occur during the Auto Connect process.




BLUETOOTH SETUP



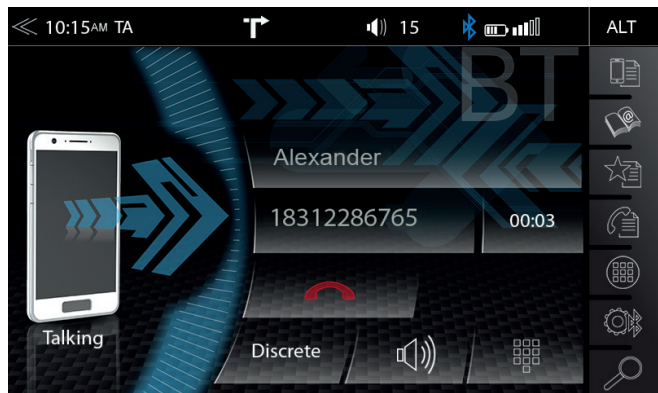
On the Bluetooth setup page you can adjust settings for Bluetooth operation. Press the appropriate button / field to change any of the listed settings.




Function	Icon	Operation
Bluetooth Settings		Tap to change settings for BT operation
Auto Connection		ON / OFF
Contacts Order		1. by first name of contact 2. by surname of contact
Microphone Gain		Touch to set the Mic. gain from 1 to 3

BLUETOOTH STATUS BAR


Icon	Function
	Mobile phone currently connected
	Battery capacity of the mobile phone currently connected
	Signal strength of the current mobile network


ACCEPTING/ENDING INCOMING CALLS (VIA DEVICE)



Function	Icon	Operation
Accept		Tap the green handset to accept the call
Reject		Tap the red handset to reject the incoming call
End		Tap the red handset to end the call


DIAL A CALL USING NUMERIC PAD

In the control-/operation panel touch the  to open the numeric pad.

Key in the desired phone number in full using the numeric pad. To establish the connection, touch . The display now changes to the call connection view.

DIAL A CALL USING PHONEBOOK

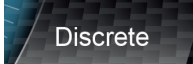



In the control-/operation panel touch the  to open the phonebook.

From the phonebook list select a call partner and set up a connection by touching . After touching a contact you will be directed to the contact details view.

i NOTE

Depending on the existing numbers of mobile phone and phonebook entries, the first synchronization can take several minutes.

BLUETOOTH MENU

Function	Icon	Operation
Discrete		Touch to pass the call from the hands-free system to the mobile phone or vice versa
Mute conversation		Mute / un-mute the microphone input
Numeric key pad		Tap to show the numeric key pad Necessary in case asked to enter a further number during the call (telephone call center etc.)
Back		Tap to jump back to the previous level

i NOTE

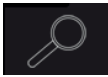
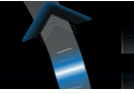




To be able to use the phonebook or call lists without any problems, make sure that during the pairing process you confirm data access enable on the smartphone.

PHONEBOOK

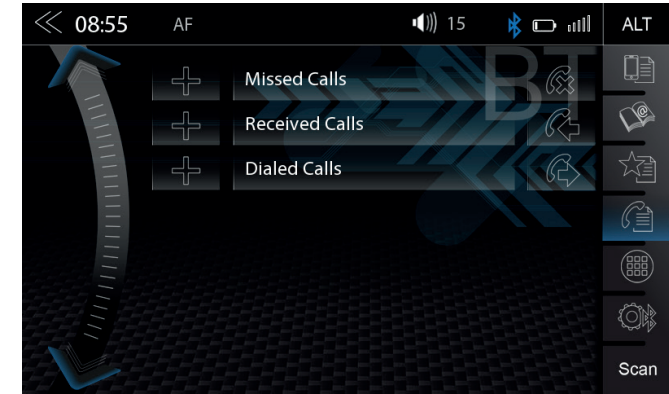
Contacts







After successful pairing of the smartphone with subsequent phone book synchronization, the device will show you the full contact list. You can directly add contact Favorites.




Function	Icon	Operation
Search		Tap to open the contact search keypad
Scroll		Scroll in the list: Touch and hold to move the slider up or down, showing letters by the alphabet.
Phonebook Contacts		Tap to jump to the contact list. Up to 1000 contacts per paired mobile phone can be synchronized; it makes no difference whether the contacts are stored in the phonebook or on the SIM card.
Contact List		Tap to to show phone numbers of the respective contact entry
Call / Accept		Tap the green handset to set up/- start the call
Add Favorite		Tap to add a new Favorite Tap once more to remove a Favorite

CALL LISTS



If a compatible mobile phone is connected, call lists from the mobile phone will be synchronized with the BT hands-free system (process can take some minutes, depending on the number of contacts). Once sync process has completed you will be able to access the following logs:

Function	Icon	Operation
Call logs		Tap to see all call logs
Missed Calls		Tap to see the missed calls only
Received Calls		Tap to see the received calls only
Dialed Calls		Tap to see the dialed (outgoing) calls only

Function	Icon	Operation
Missed		Entries with this icon refer to calls that you missed
Incoming		Entries with this icon refer to accepted incoming calls
Contacted		Entries with this icon refer to outgoing calls

FAVORITES



On this page you can link eight or more phone numbers to become favorites. You can select any of the phone numbers in the phonebook and save them as Favorites; the only exceptions are e-mails and addresses.

i NOTE

All Favorites are visible to every user of the device as they are saved in the device memory.

Function	Icon	Operation
Stored Favorite		Tap to set up/- start a connection with a stored Favorite
Assign New Favorite		① Tap to add a new favorite contact
		② Select desired number from phonebook and confirm with this ☆ icon
Delete		Tap to remove a stored Favorite

i NOTE

A change of data on the mobile phone will not sync automatically with the stored Favorites. Should you want to change phone numbers this change must be manually transferred to Favorites by deleting the existing Favorite and re-assigning the new number.

NAVIGATION



For the ZENEC devices Z-N965 a navigation package is available separately. This bundle comes with multilanguage Quickstart manual and navigation software on microSDHC card. The images shown on this and the following page, as well as instructions, are taken from this solution.

Function	Icon	Operation
Navigation		Tap to start navigation and show map view (only if navi microSD card is insert in the device)

NAVIGATION UPDATE

Activation of the free 36-month map software update period begins once the ZENEC system has been switched on and vehicle was driving over a distance of >10 km.

Requirements

1. PC or notebook with a Windows 7 operating system or higher, an SD card reader, together with broadband Internet access. Apple OS not supported.
2. An activated navigation map microSD card (set content)
3. Latest Naviextras Toolbox software, installed on your computer.
Download-Link: <https://zenec.naviextras.com/shop/portal/downloads>

To update your ZENEC device with new maps, proceed as follows:

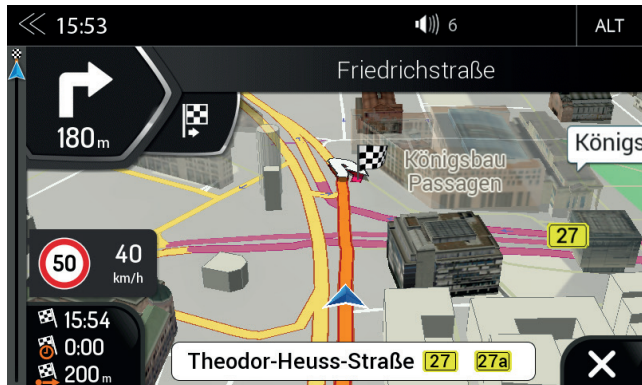
1. Go to <https://zenec.naviextras.com/shop/portal> and set up a user account with a password and the personal data for your navigation device.
2. Download the Toolbox Software: Naviextras Toolbox Download. Read through the application instructions before taking any further steps. The Toolbox is periodically updated. Therefore, should you want to make a map update at a later time, always download the latest Toolbox version. This will guarantee optimal compatibility of all data transfer functions.

i NOTE

Map updates can be carried out by visiting <https://zenec.naviextras.com/shop/portal>. Safety instructions: see page 4.



Fast and simple route calculation



High resolution 3D maps



Advanced route guidance

NAVIGATION START UP INSTRUCTIONS

NAVIGATION SOFTWARE INSTALLATION

Before you can use the Z-N965 navigation software supplied on microSD card, the Android device (Z-N965) must be prepared by installing a software.

- a. Insert the provided microSD card with navigation software into the respective slot of the device. Turn on the device.
- b. Tap on the “navigation source icon” in the main menu to start the standard installation process (illustration 1).

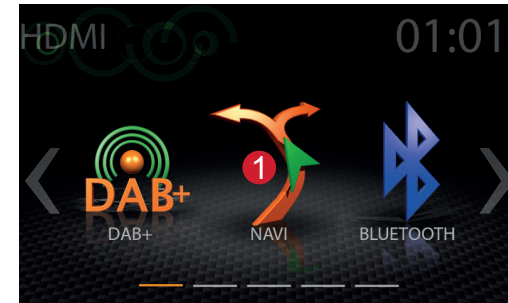


Illustration 1

- c. The software installation will run in a step-by-step mode. A visual animated software installation status bar allows you to track progress (illustration 2). The complete update process takes approx. 30 ~ 60 seconds.

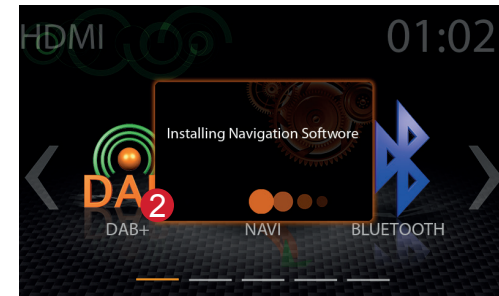


Illustration 2

- d. Finally, the navigation will be start automatically if the installation was successful. Device should show navigation loading mode (illustration 3). Now close the navigation software, turn off the device and read the info given under “Sat-Fix” below.



Illustration 3

NAVIGATION START UP INSTRUCTIONS

FIRST NAVI START-UP (SAT FIX PROCESS)

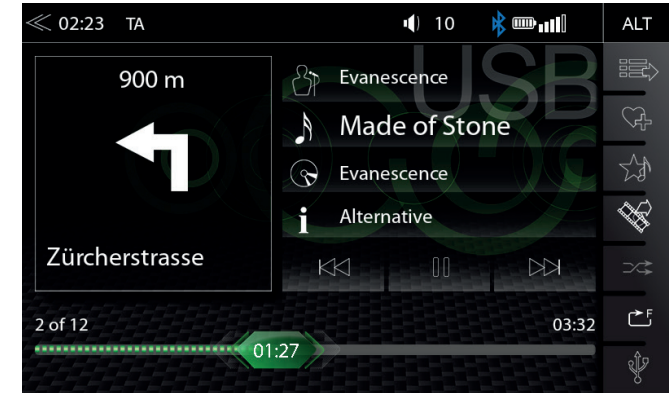
- › After the device install is completed make sure, the vehicle is located outdoors under free sky. There should be no objects above vehicle affecting GPS reception (trees, tall buildings etc.).
- › Tap on the navigation icon in the main menu to start the navigation mode. Tap on “Show Map” to initiate the “search GPS” process.
- › Allow 3 to 5 minutes of time to for the creation of the so called Sat-Fix. During this period, the vehicle must not move nor drive!

Online Updates (Map Content + Bugfixes)







Naviextras Toolbox is a Windows utility, able to establish the server access to the Naviextras portal.

- Before you update the navigation content of your microSD card, always download, install and use the latest Toolbox software.
- Before you can download content and updates you are asked for setting up a user account on the Naviextras portal. Once the Toolbox software has installed a login window pops open to indicate readiness for user account setup.
- With the user account ready make sure the first step is backing up the microSD card content prior to any content update. Data backup is offered automatically with Toolbox recognizing a valid nav license on the microSD card.
- Do not start update before you have not created a backup. The backup allows you to restore original map data of the package, which is a welcome help to cope with update or installation problems, which would otherwise become costly software restore processes.
- Important: When a free or pay type content update was installed on the microSD card, the following two steps must be completed to reactivate the license:
 - 1) Insert the microSD card into your naviceiver and start the navigation.
Shut down device, remove the microSD card.
 - 2) Start Toolbox and connect the microSD card to your PC or notebook and follow the instructions of the software (activation of license).

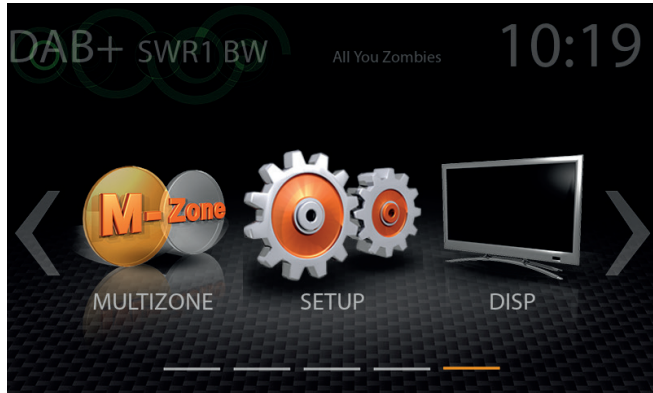
NAVIGATION SPLIT SCREEN




When you tap on the Placeholder, the Album Cover Art or MOT Slideshow area will activate/deactivate the ZENEC Navigation-Split-Screen, which shows the current active route navigation turn info's.

Function	Icon	Operation
MediaPlayer Album Art / Cover	ZENEC Placeholder:  Cover Art Example: 	Tap to activate the ZENEC Navigation-Split-Screen in MediaPlayer (USB, iPod, BT-Music)
DAB Radio	ZENEC Placeholder:  MOT Slideshow Example: 	Tap to activate the ZENEC Navigation-Split-Screen in DAB Tuner source
FM Radio	ZENEC Placeholder: 	Tap to activate the ZENEC Navigation-Split-Screen FM Tuner source
Navigation- Split-Screen (NAVI Turn Info's)		Show the current active route navigation turn info's Tap to deactivate (disable) the ZENEC Navigation-Split-Screen

SETUP OPERATIONS



This chapter describes all the parameter and setting functions of the ZENEC system. Please note that settings or changed parameters can have a direct influence on the everyday use of the ZENEC system.

Function	Icon	Operation
Setup		Tap to access the setup mode


i NOTE

Software updates applicable to this device, except navigation engine and map updates are free of charge. Download here: www.zenec.com/support/software-updates/

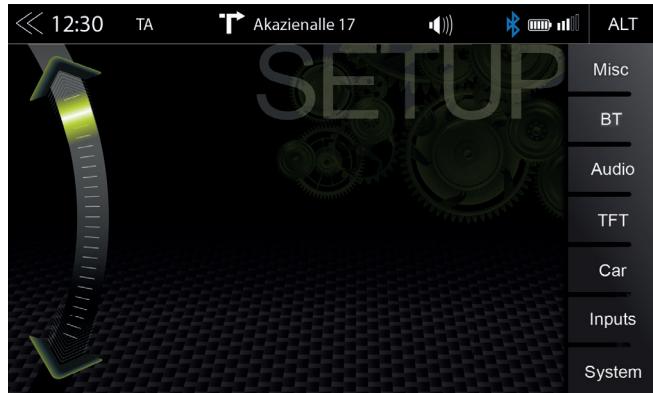
DISPLAY ICON



With the display icon, the LCD TFT screen picture brightness can be dimmed or switched off (standby) in two steps. This is done by tapping the icon.

Function	Icon	Operation
Disp		Tap to dim or brighten up TFT screen (↵ 100% → 50% → 0% "standby" ⇨)

SETUP OF SOURCES



When you tap the setup icon, you will enter this setup source page, which offers six different sources you can adjust for personal preferences.

Function	Icon	Operation
Misc		Tap to access diverse device settings
BT		Touch to access hands-free system settings
Audio		Tap to access sound settings
TFT		Tap to access display settings
Car		Tap to access car settings (Park Assist etc.)
Inputs		Tap to access Video inputs settings (camera inputs)
System		Tap to access system settings

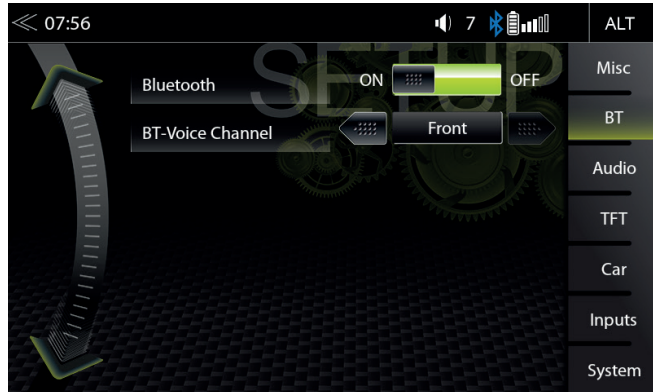
MISC SETUP






In the Misc menu page, you can configure various settings. The display mode with 3 or 6 icons, ON/OFF of the beep sound, LED color (amber / white) of the button illumination on the device front.

Function	Icon	Operation
Misc		Tap to access basic settings view
Main Menu Mode		Tap to switch to 3 Icon or 6 Icon main page display layout
FAV Button		Touch to link source or function to the ALT button: (CAM/NAVI/ Tuner/EQ/Setup/BT-Music/BT/ DISP/iPod/USB/HDMI/GAA/ AV-IN, CarPlay)
ALT Software Button		Touch to link source or function to ALT (HMI) button (CAM/NAVI/EQ/Setup/BT-Music/BT/DISP/iPod/USB/HDMI/ GAA/AV-IN/FM/DAB)
Button sounds		ON / OFF Off = acoustic acknowledgment disabled On = acoustic acknowledgment enabled
OSD Language		Tap to change the menu language
Button Color		Tap to adjust hard key or sensor field illumination
Wallpapers		Tap to change the background wallpaper
Volume Pop-Up		ON / OFF Off = visual volume pop-up disabled On = visual volume pop-up enabled
Navi Media-ControlBar		ON / OFF Off = MediaControlBar not shown inside NAVI Source On = MediaControlBar shown inside NAVI Source
SWC Assignment (learning mode)		Tap to open the SWC Assignment page (learning mode)
Microphone		Internal = inside device External = only if installed

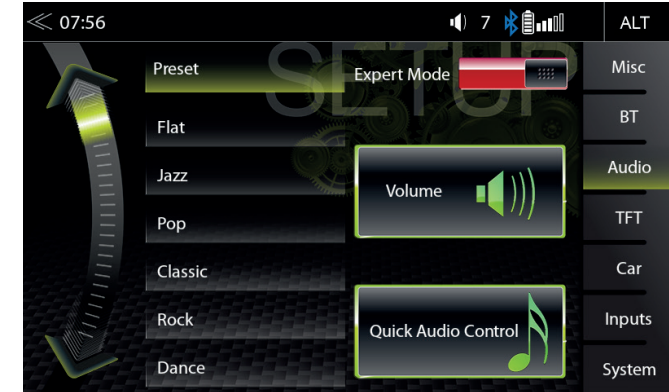
BT SETUP





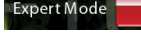


In BT Setup, you can make important changes for best Bluetooth operation. Tap on the ON / OFF button of desired field to effect a change.

Function	Icon	Operation
BT		Tap to access settings for BT operation
Bluetooth		ON / OFF ON = Bluetooth module activated OFF = Bluetooth module deactivated
BT-Voice Channel		1: Driver: Sound output of call is exclusively on the driver side. 2: Front: Sound output of call is on both sides (in the entire front area).

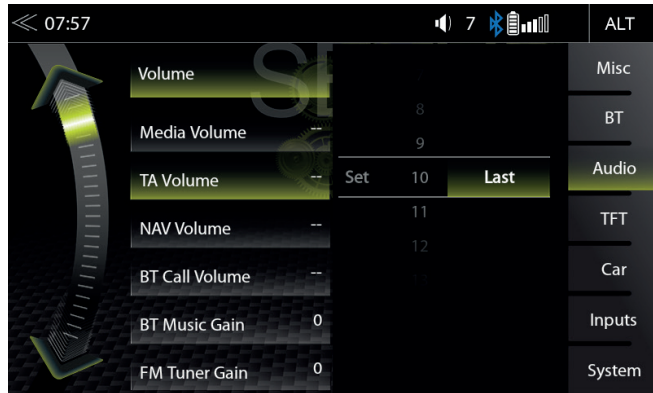
AUDIO SETUP



In the Audio menu page, you can adjust changes around the sound, e.g. Volume of the sources, loudness, bass and treble, etc.. The "Expert Mode" view extends these setting options by additional points.

Function	Icon	Operation
Audio		Tap to access and configure audio settings
Presets		Tap on one of the presets to change profile (Pop / Classic / Rock etc.) All changes made in the Expert Mode at the Equalizer will be stored under the preset "User".
Expert Mode		Tap to enable or disable expert mode, accessing the advanced sound configuration options.
Volume		Tap to set initial and source volume levels
Quick Audio Control		Tap to access quick audio settings (Loudness / Bass Boost etc.) This can also be accessed by long pressing of the Home HOME button.

VOLUME SETUP



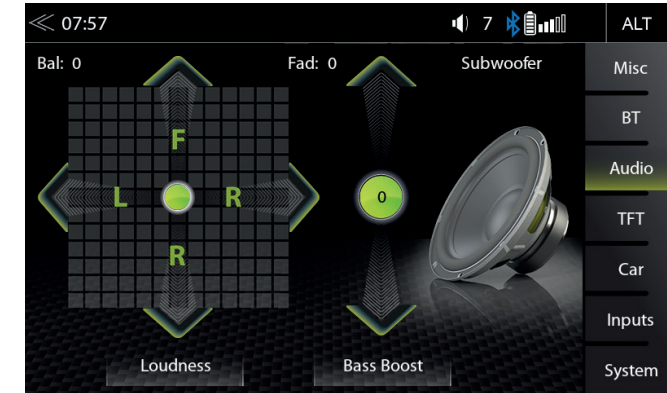
In the Audio menu -> Media Volume, you can customize the basic settings of each source individually.

Function	Icon	Operation
Media Volume		Media volume configuration Set = Start with manually adjusted volume Last = Start with last volume set before switching off
TA Volume		TA volume configuration Set = Start with manually adjusted volume Last = Start with last volume set before switching off
Navi Volume		NAV volume configuration Set = Start with manually adjusted volume Last = Start with last volume set before switching off
BT Call Volume		BT Call volume configuration Set = Start with manually adjusted volume Last = Start with last volume set before switching off

Fine adjustment of the volume of all "Gain" sources

Function	Icon	Operation
BT Music Gain		Fine adjustment of BT Music volume
FM Tuner Gain		Fine adjustment of FM tuner volume
DAB Tuner Gain		Fine adjustment of DAB tuner volume
USB Gain		Fine adjustment of USB volume
iPod Gain		Fine adjustment of iPod volume
A/V IN Gain		Fine adjustment of A/V IN volume
HDMI Gain		Fine adjustment of HDMI volume
Android Auto Gain		Fine adjustment of Android Auto volume
Camera Gain		Fine adjustment of CAM audio volume
CarPlay Gain		Fine adjustment of CarPlay volume

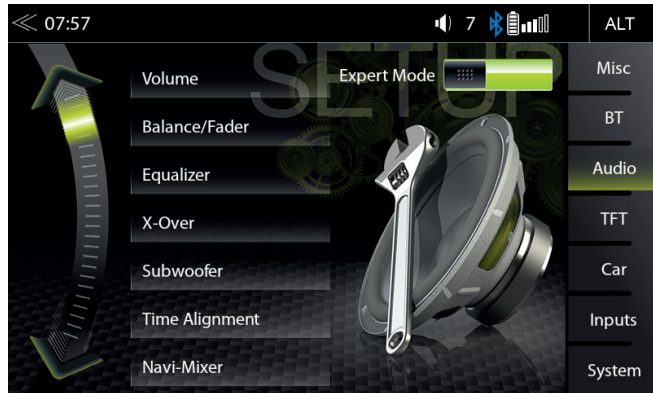
QUICK AUDIO SETUP (BAL / FAD / SUBWOOFER / LOUDNESS / BASS BOOST)



In this menu, you can adjust the Balance / Fader, Loudness, Bass Boost and Subwoofer level of the speakers in the vehicle.

Function	Icon	Operation
Balance Left/ Right		$7L > 0 < 7R$
Fader Front/ Rear		$7F > 0 < 7R$
Loudness		ON / OFF
Bass Boost		ON / OFF
Subwoofer Gain		$-6 < 0 > +6$

AUDIO SETUP: EXPERT MODE

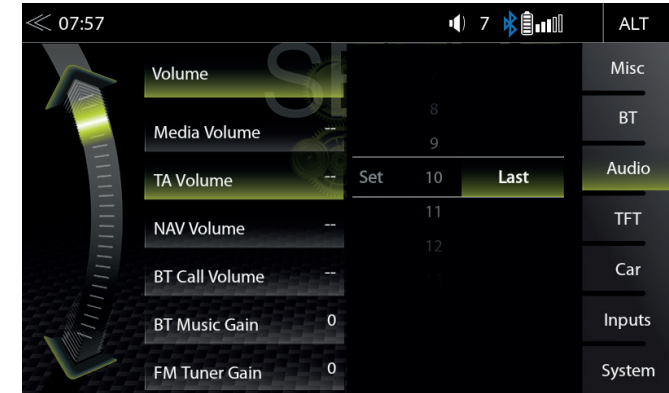


In the Audio Setup menu page with the Expert Mode set to “ON”, you can change audio relevant settings. Such as Equalizer, Crossover, Navi-Mixer, etc. Please refer to the listings on the following pages.

Function	Icon	Operation
Expert Mode		Tap to enable or disable expert mode
Volume		Tap to set start and source volume
Balance/Fader		Tap to set fader or balance
Equalizer		Tap to set the 10-Band equalizer
X-Over		Tap to access crossover settings
Subwoofer		Tap to set subwoofer settings
Navi-Mixer		Tap to set navi voice output configuration
Quick Audio Control		Touch to make general quick audio settings (Loudness / Bass Boost etc..) Can be accessed by long press of the Home button.
Time Alignment		Tap to adjust the time alignment

Volume Setup: see page 63

AUDIO VOLUME – BASE LEVEL SETUP



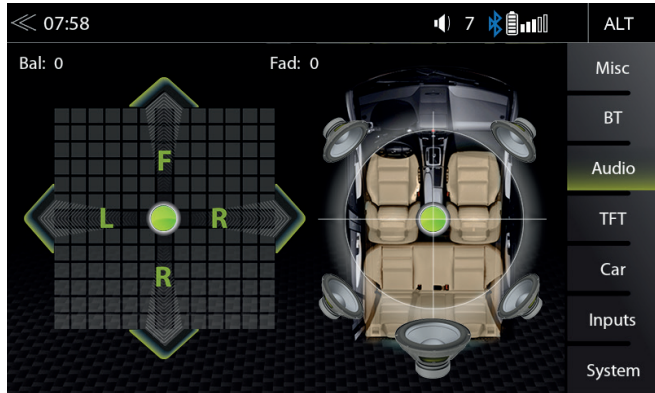
In the Audio menu -> Media Volume, you can customize the basic settings of each source individually.

Function	Icon	Operation
Media Volume		Media volume configuration Set = Start with manually adjusted volume Last = Start with last volume set before switching off
TA Volume		TA volume configuration Set = Start with manually adjusted volume Last = Start with last volume set before switching off
Navi Volume		NAV volume configuration Set = Start with manually adjusted volume Last = Start with last volume set before switching off
BT Call Volume		BT Call volume configuration Set = Start with manually adjusted volume Last = Start with last volume set before switching off




Fine adjustment of the volume of all "Gain" sources

Function	Icon	Operation
BT Music Gain		Fine adjustment of BT Music volume
FM Tuner Gain		Fine adjustment of FM volume
DAB Tuner Gain		Fine adjustment of DAB volume
USB Gain		Fine adjustment of USB volume
iPod Gain		Fine adjustment of iPod volume
A/V IN Gain		Fine adjustment of A/V IN volume
HDMI Gain		Fine adjustment of HDMI volume
Android Auto Gain		Fine adjustment of Android Auto volume
Camera Gain		Fine adjustment of CAM audio volume
CarPlay Gain		Fine adjustment of CarPlay volume

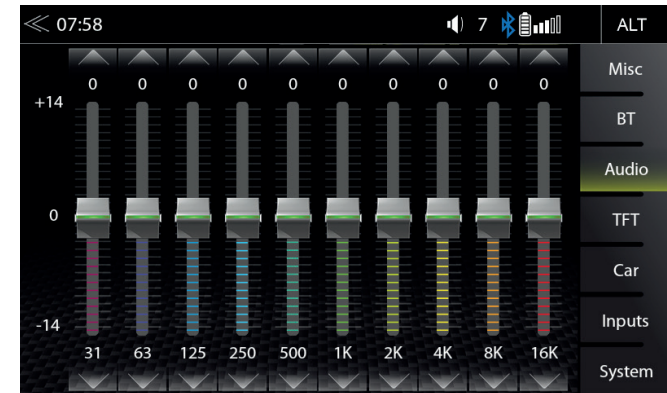
BALANCE / FADER





In this Expert Mode menu page, you can adjust the balance and fader. Press and hold the green dot of the crosshair to move sound center position into any desired position.

Function	Icon	Operation
Balance Left/ Right		7L < 0 > 7R
Fader Front/ Rear		7F < 0 > 7R
Crosshair		Press and hold to move green dot into desired position

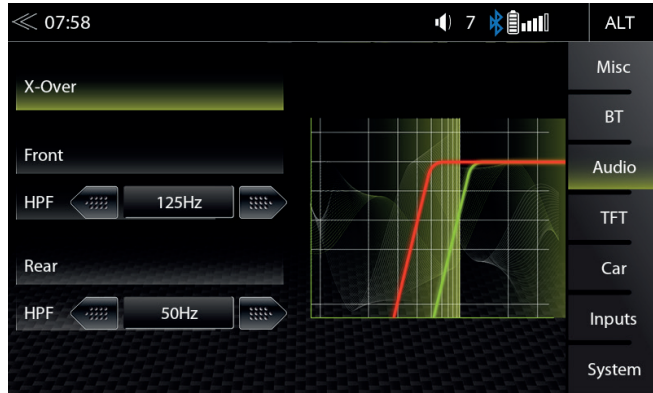
EQUALIZER



In this Expert Mode menu page, you can set the 10-Band graphical equalizer. Press and hold the individual band level sliders to move it up or down for a level change.

Function	Icon	Operation
Band		Tap to adjust the desired Band
		Touch and hold to change the setting of the selected band

X-OVER SETUP



In this Expert Mode menu, you can adjust the High-pass transition frequencies of the front and rear speakers. The factory default is OFF for front and rear speakers.

Function	Icon	Operation
HPF (Front)		Tap to set the high pass filter at front channels OFF (FLAT) 50 Hz/65 Hz/80 Hz/100 Hz/125 Hz/160 Hz
HPF (Rear)		Tap to set the high pass filter at rear channels OFF (FLAT) 50 Hz/65 Hz/80 Hz/100 Hz/125 Hz/160 Hz

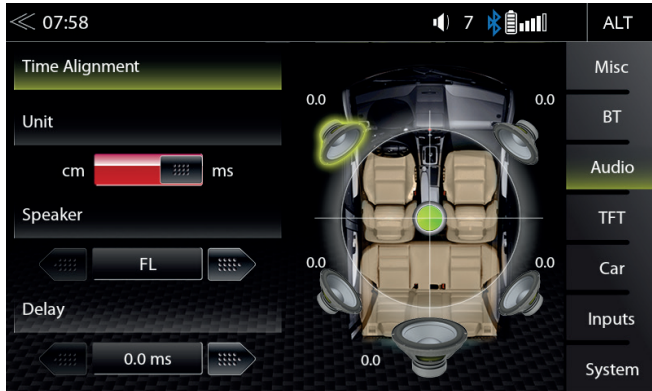
SUBWOOFER SETUP



In this Expert Mode menu, you can adjust Phase, Gain, and Low-pass transition frequencies of the subwoofer. The default settings are Phase 0°, Power ON, LPF 100 Hz.

Function	Icon	Operation
Power		Subwoofer -RCA line-outs (affects the subwoofer line-out only) ON = Volume according to setting. OFF = Mute
LPF		Tap to set the low pass filter OFF 160 Hz/125 Hz/100 Hz/80 Hz/65 Hz
Phase		Subwoofer ONLY 0/180° phase adjustment
Gain		Touch to set the GAIN level (same as in Quick Audio Control) -6 < > +6

TIME ALIGNMENT

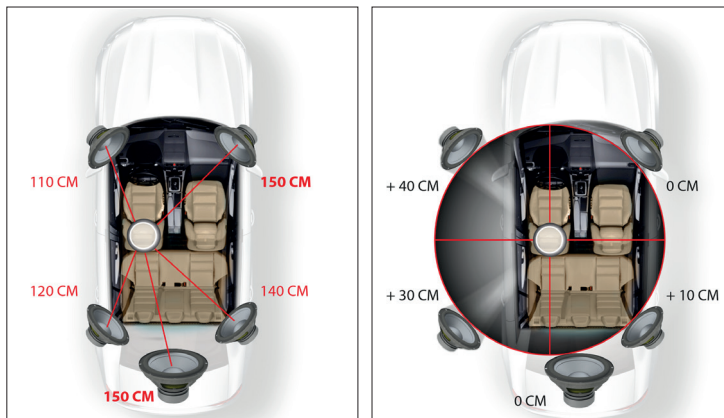


In this menu you can set the time delay correction for the loudspeakers in your vehicle.

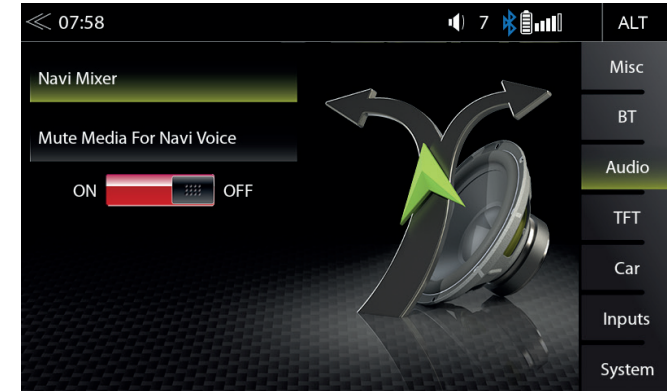
Function	Icon	Operation
Unit	◀ ▶	Selection of desired unit ms = time cm = distance
Speaker	◀ ▶	Touch to select the desired speaker (FL / FR / RL / RR / SW)
Delay	◀ 0.0 ▶	ms = 0.0 < > 10 in approx. 0.1 ms steps cm = 0 < > 340 in approx. 3 cm steps

The distance between the ears and the speaker system installed in the vehicle varies considerably due to the given arrangement of the factory mounting location. This menu gives you the option to delay the audio signal at each of the speakers so that you have a "center stage" effect.

Set your central listening position. Measure the distance from this position to each speaker. Now you need to add the corresponding delay - depending on the speaker with highest distance - to move the speakers to same distance from selected position. Enter these distance to let all speakers have the same distance. You can fine tune values by "ear" after the distances from listening position to each speaker have been entered, simply by adjusting the left front speaker delay until center stage position is reached.



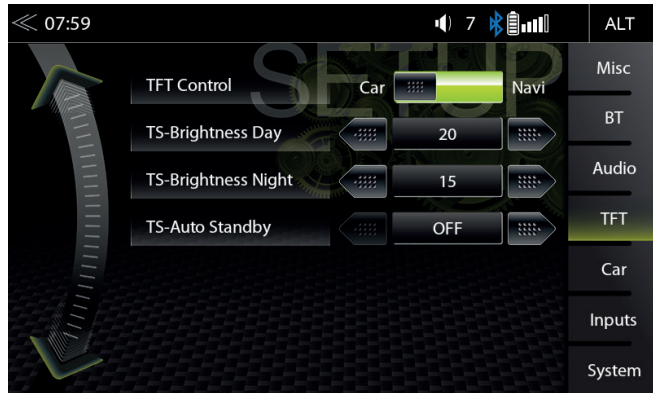
NAVI-MIXER SETUP



In this Expert Mode menu page, you can adjust audio ducking or mute of audio and video source playback by nav route guidance voice. Works only for ZENEC navigation software.

Function	Icon	Operation
Mute Media Sources for Navi Voice Announcement	ON [Slider] OFF	ON / OFF OFF = Ducking of media playback during route guidance voice announcements ON = Media playback is fully muted during route guidance announcements

TFT DISPLAY CONFIGURATION



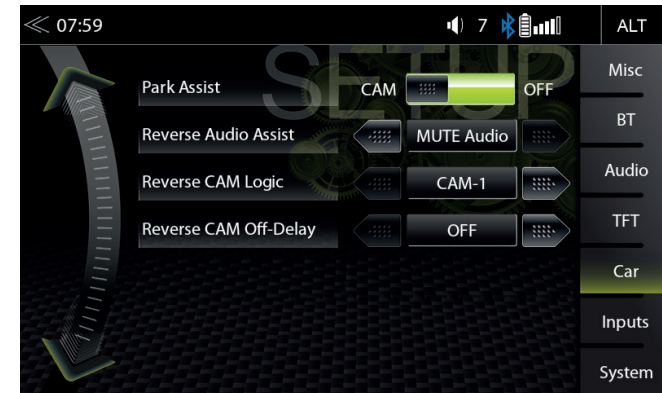
In the TFT Setup menu you can make screen settings that control the day/night brightness of the TFT LCD display screen. This will only work with microSD card from the ZENEC navigation software bundle (Z-N965-SDFEU).

Function	Icon	Operation
TFT configuration		Tap to adjust TFT display configuration
TFT Control		Tap to select the brightness control mode: Navi = Day/Night brightness is controlled by the navigation system. Car = Day/Night brightness is controlled by vehicle illu voltage
TS-Brightness Day		Day adjust range 0 ~ 30
TS-Brightness Night		Night adjust range 0 ~ 30
TS-Auto Standby		Tap to enable or disable TFT Auto Standby function and Auto Screen shutdown. TFT goes into standby after selected time.

NOTE

Using the DISP button you can set the display brightness to three levels (← 100% → 50% → 0% →).

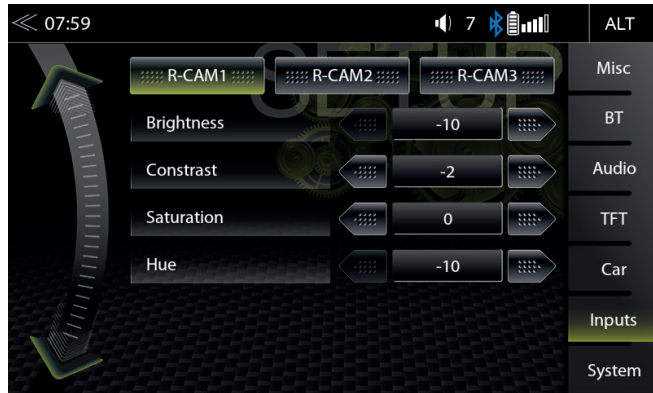
CAR (VEHICLE) SETUP



In the Car Setup menu, you can set how the ZENEC device interacts with optional components such as cameras and parking assist inside the vehicle.

Function	Icon	Operation
Car (vehicle)		Tap to access vehicle configurations
Park Assist		Tap to set the parking aid display source. CAM / OFF CAM = Camera On OFF = Camera Off
Reverse Audio Assist		Touch to set the muting function when parking aid is active. OFF / reduced Volume / CAM Audio / MUTE Audio
Reverse CAM Logic		Tap to set camera switching logic. CAM-1 • Direct camera 1 CAM-2 • Direct camera 2 CAM-3 • Direct camera 3 Mode-1 • Auto-switching function between CAM-1 and CAM-3 Mode-2 • Auto-switching function between CAM-1 and CAM-2
Reverse CAM Off Delay		Tap to set the Camera off delay time

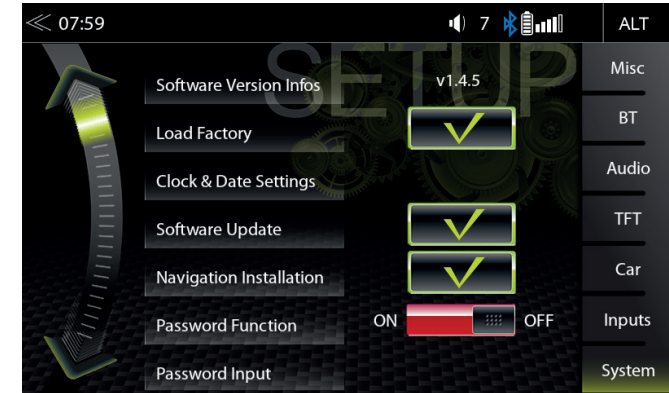
INPUT SETUP



In the Input Setup menu, you can adjust the image settings of each connected camera channel, such as reverse cameras. Contrast, brightness, color saturation and hue can be adjusted.

Function	Icon	Operation
Inputs		Tap to adjust image setup configuration of connected external video sources (e.g. rear view camera., etc.)
Brightness		-10 to +10
Contrast		-10 to +10
Saturation		-10 to +10
Hue		-10 to +10

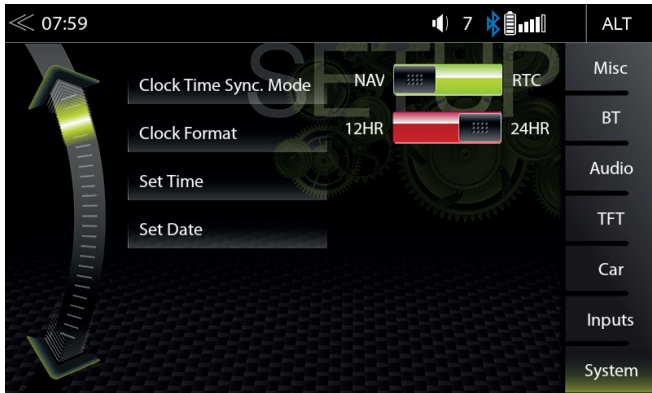
SYSTEM SETUP






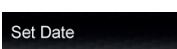
In the System Setup menu page, you can make various system settings, such as: Adjust the Clock Time, Load Factory settings, initiate Software Updates or set a Password.

Function	Icon	Operation
System		Tap to access various system settings
SW Versions Info		Tap to access detailed software version information
Load Factory		Tap and confirm to reset the ZENEC system to factory default
Clock & Date Settings		Tap to adjust clock time and date
Software Update		Tap and confirm to initiate a software update. www.zenec.com → Support → Softwareupdates
Navigation Installation		Tap and confirm to new or re-/install the navigation software or a new installation of the navigation software.
Password Function		OFF = password protection disabled ON = password protection enabled
Password		Tap and confirm to store a password
Export to USB		Tap and confirm to save your full profile settings to external data media (USB). (FAT32 formatting)
Load from USB		Tap and confirm to load your saved device profile settings from external media carrier (USB) back into the ZENEC system

CLOCK & DATE SETUP



In the System Setup menu page under Clock & Date, you can set the format, change the displayed time and select the time sync source (system time or GPS) for the time display.

Function	Icon	Operation
Clock Time Sync. Mode		Tap to change the clock time sync. mode - NAV Sync. = automatic synchronisation by navigation (Manual adjustments such as clock time and time zone not possible) - RTC Sync. = automatic synchronisation by system RTC (Manual adjustments possible)
Clock Format		Tap to change the clock format
Set Time		Tap to change time if sync is "RTC Sync."
Set Date		Tap to change the date (Year: Month: Day)



NOTE

"RTC" means "Real Time Clock", a internal Quartz generated time signal.

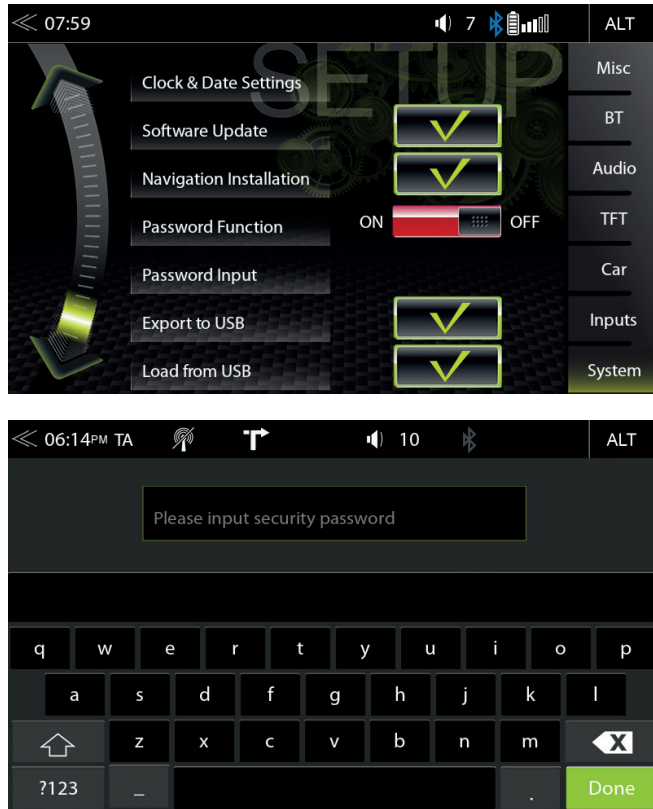
SOFTWARE VERSION



In the System Setup menu page under SW version, you will see the currently installed software versions with detailed version info for MCU, OS and APP etc., including a simple Short Software Version.

Function	Icon	Operation
System		Tap to access this view
SW Version		Displays the current software version information

PASSWORD



In the System Setup menu page under Password function, you can activate and deactivate the password protection for the device.

Function	Icon	Operation
Password Function		OFF = password protection disabled ON = password protection enabled
Password		Tap and confirm to store a password* Standard password "12345"
Input Keypad		Enter the desired password

⚠ CAUTION

* If you protect your ZENEC system with a Password make sure, you have access to this password anytime.
Lost or forgotten Passwords require the device to be uninstalled and sent in to ZENEC Service Centre. Device unlocking is not a service which is free of charge.

INSTALLATION NOTES

⚠ CAUTION

- The installation of the ZENEC 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 ZENEC system.
- Correct functioning can only be guaranteed when you use the ZENEC original accessories included in the kit or those optionally available. The ZENEC 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 ZENEC system.

i NOTE

- The ZENEC Z-N965 is equipped with an integrated DAB+ receiver. To make use of this you will need a suitable DAB antenna mounted to the vehicle (not included in kit) that must be connected to the ZENEC system.
- If the target vehicle is already equipped with an original DAB antenna, it is still possible to use it in combination with the ZENEC system.
- Software updates to the ZENEC system are installed with a USB memory device. Therefore when fitting the system make sure that the USB connection of the ZENEC system will still be accessible later (installation of USB extension cable or USB hub).
- If you have questions or problems relating to the ZENEC system, please contact the dealer from whom it was purchased.

REMOVAL WORK AND PREPARATION

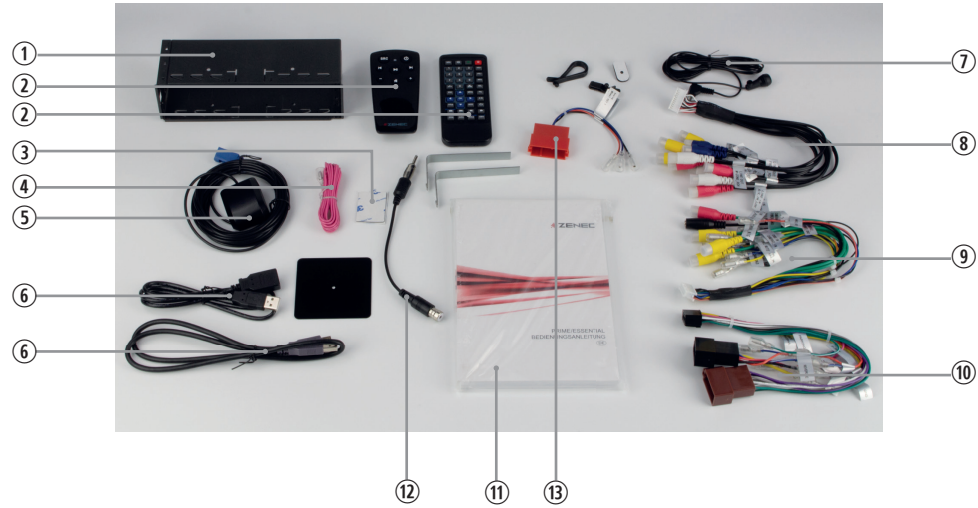
i NOTE

- Remove the ignition key and keep it outside the car until the installation is finished.
- Please wait for approx. 10 minutes until the CAN bus system is completely shut down, before you start with the uninstallation of the original device.
- Start with the uninstallation of the original device.
- Please switch on the ignition only, when all installation steps are done and the ZENEC system is completely mounted.

i NOTE

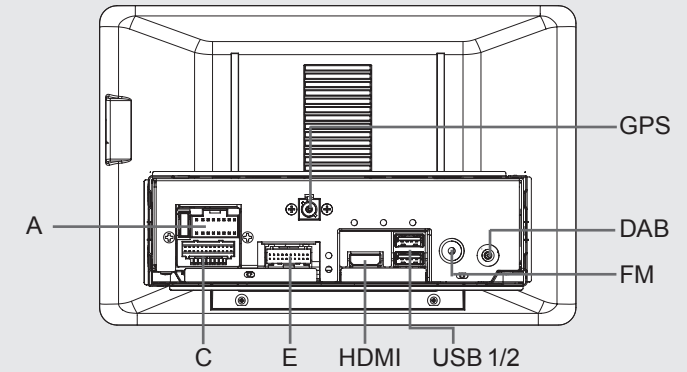
- Make sure that all connectors at the rear of the ZENEC system have sufficient room and are not bent.
- Connectors without a retaining mechanism must be additionally secured with insulating tape.

OVERVIEW INCLUDED ACCESSORIES



No.	Article	Qty
1	Mounting frame	1
2	Remote control	2
3	Phillips screws	4
4	Parking brake cable	1
5	GPS antenna with metal mounting plate and double sided adhesive pad	1
6	USB extension cable	2
7	Bluetooth microphone with mounting accessories	1
8	24-pin connection cable (4.2, M-Zone, AV-IN)	1
9	20-pin connection cable (Mic, Cam, IR-IN, eCall Mute)	1
10	ISO-DIN main harness	1
11	Main device user manual	2
12	FM antenna adapter ISO/DIN	1
13	Analog SWC connector cable (optional)	1

CONNECTION DIAGRAM Z-N965



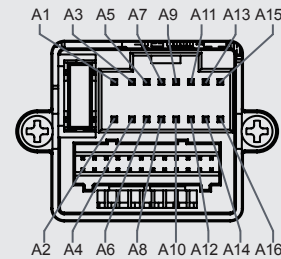
USB1:

- Apple CarPlay, Apple MFI and Google Android Auto
- USB Media Playback, Software Updates
- Power charging ~1000mA

USB2:

- Apple MFI
- USB Media Playback, Software Updates
- Power charging ~1000mA

16 PIN CONNECTOR (DEVICE BACKSIDE)

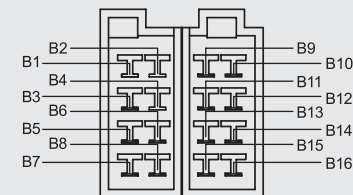


A1	KL 31 / Power GND
A2	KL 30 / Constant +12V PWR
A3	KL 15 / Switched +12V PWR
A4	Illumination
A5	Switched +12V amplifier PWR*
A6	Parking
A7	Switched +12V antenna PWR
A8	Reverse

A9	Speaker Rear Right (+)
A10	Speaker Front Right (+)
A11	Speaker Rear Right (-)
A12	Speaker Front Right (-)
A13	Speaker Rear Left (+)
A14	Speaker Front Left (+)
A15	Speaker Rear Left (-)
A16	Speaker Front Left (-)

*300mA max current

ISO CONNECTORS (HARNESS)



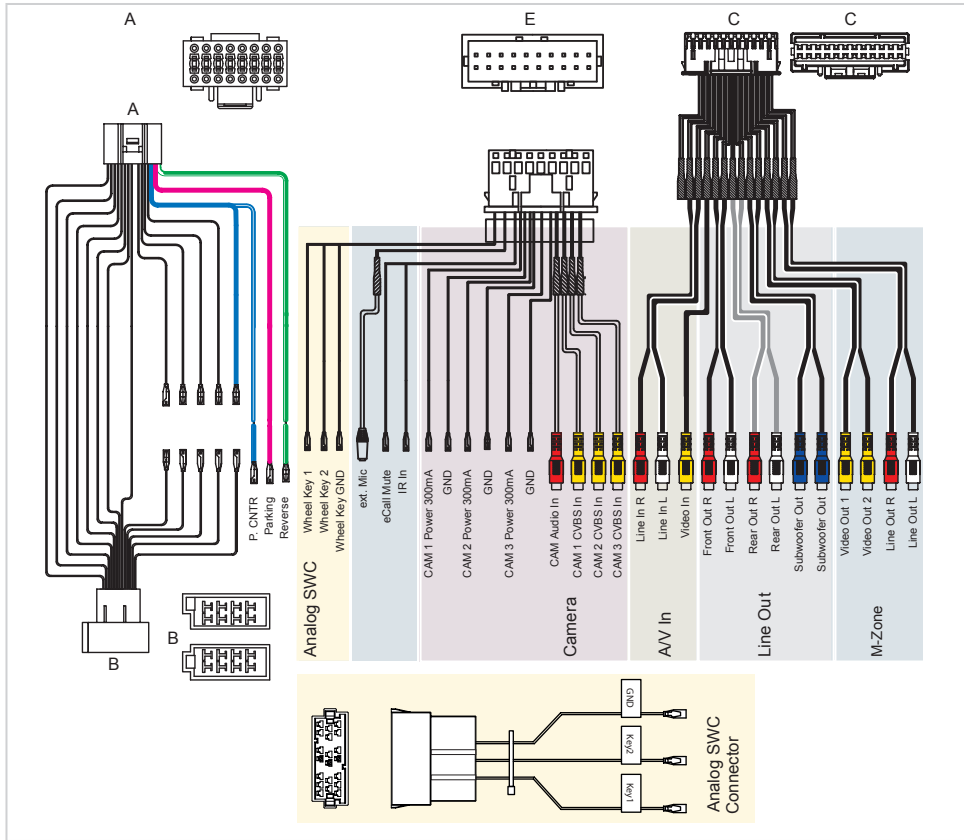
B1	N.A.
B2	N.A.
B3	KL 30 / Constant +12V PWR
B4	N.A.
B5	Illumination
B6	Switched +12V antenna PWR
B7	KL 31 / Power GND
B8	KL 15 / Switched +12V PWR

B9	Speaker Rear Right (-)
B10	Speaker Rear Right (+)
B11	Speaker Front Right (-)
B12	Speaker Front Right (+)
B13	Speaker Front Left (-)
B14	Speaker Front Left (+)
B15	Speaker Rear Left (-)
B16	Speaker Rear Left (+)

DAB ANTENNA IN:
 SWITCHED 12V SUPPLY

12V DC / 15 A
 NEGATIVE

CONNECTION DIAGRAM Z-N965



GENERAL

ABBREVIATIONS

Abbreviation	Description
A2DP	Manufacturer-independent Bluetooth® technology allowing audio signals to be transmitted (Advanced Audio Distribution Profile)
AF	Alternative frequency
CAN-Bus	The CAN bus (Controller Area Network) is a serial bus system for the communication of control units in a vehicle
CP	Apple CarPlay
DAB / DAB+	Transmission standard for terrestrial reception of digital radio (Digital Audio Broadcasting)
DSP	The digital signal processor is used for the processing of digital signals (e.g. audio or video signals)
EQ	Equalizer
FAT32	Formatting format for digital media (File allocation table 32-bit)
UKW/FM	Transmission standard for terrestrial reception of very high frequency analog radio (UKW)
GAA	Google Android Auto
GPS	Global navigation satellite system for position fixing (Global Positioning System)
GSM	Global mobile radio network standard for fully digital mobile radio networks (Global System for Mobile Communications)
ID3-Tag	ID3 is a metadata container most often used in conjunction with the MP3 audio file format. It allows information such as the title, artist, album, track number, and other information about the file to be stored in the file itself.
microSD	Compact flash memory
REG	Regional station
SSP	Secure Simple Pairing (for Bluetooth devices)
TA	Traffic Announcement (RDS service)
USB	A USB connection is a serial bus system for connecting a device to other devices (Universal Serial Bus).

STATUTORY RIGHTS AND WARRANTY

What products are covered by ZENEC's limited Warranty?

The limited Warranty (the "Warranty") applies to ZENEC products purchased from an authorized dealer by end customers in the European Economic Area or Switzerland ("Territorial Scope").

What is the validity period of ZENEC's Warranty?

Under this Warranty, ZENEC warrants, for a period of 2 years, that the product is free from defects in material and/or workmanship at the time of the original purchase. This 2-year period commences on the date of the original purchase as per the original invoice or until receipt. If you have purchased the product as a consumer, and the defect is identified within the first six months after the original purchase (see above), we will assume that the defect already existed at the time of purchase.

Who can claim under the Warranty?

ZENEC grants the limited Warranty to natural persons only, who purchased the relevant product primarily for personal use.

What is covered by the Warranty?

ZENEC warrants that the product is free from defects in material and/or workmanship at the time of the original purchase. ZENEC does not, however, provide a warranty covering every defect and damage that may occur. It only covers the hardware components of the device, and in no event the software used with the device, regardless if this was provided by ZENEC or the third-party vendor. The Warranty therefore does not cover the following cases, in particular:

- normal wear and tear (such as to surfaces and protective coverings);
- superficial damage, such as scratches, dents, and damaged plastic, worn or mechanically defective connections;
- misuse, including any treatment resulting in physical or superficial damage, such as a cosmetic defect, to the product;
- damage caused by connecting or using the product for a purpose other than those specified, or a failure to observe the operating and/or installation instructions for the particular model;
- installation or use of the product contrary to the applicable technical standards, or the safety regulations in the country in which the product is installed or used;
- damage caused through an unauthorized attempted repair, or an attempted repair by someone other than a ZENEC authorized service partner;
- damage caused by modifications to the product not expressly authorized by the manufacturer;
- damage caused by malicious code ("Software Viruses") or by using software not supplied with the product or which was incorrectly installed;
- use of third party vendor software programs for editing, modifying, adapting, or extending ZENEC's authorized software components as are run on the product;
- use of third-party vendor firmware/operating system software
- damage caused by liquids or chemicals of whatever type, and/or excessive temperatures, moisture, or damp;
- accidents, drops or other such effects of extreme accelerating forces;
- damage caused by lightning strikes, electrostatic charge, incorrect operating voltage, water, fire, force majeure, inadequate ventilation for other reasons for which ZENEC is not responsible;
- damage caused by using the device outside of the defined specifications;
- damage caused by using the product with other systems or devices, which are not designed to be used with this product;
- adjustments or modifications without ZENEC's prior written approval, including product upgrades extending beyond the specifications or characteristics described in the operating manual;
- modifications of the product for the purpose of adapting it to national or local technical norms or safety standards of countries for which the product was not expressly designed or manufactured;
- using service or spare parts not produced or distributed by ZENEC;
- using the product in connection with accessories not approved for use with this product;

ZENEC, moreover, does not warrant (expressly, implicitly, statutorily, or otherwise) the quality, performance, reliability or suitability of the product for a particular purpose except as described, nor the software/firmware installed on the device ex works.

No warranty service will be provided, moreover, if the model number/serial number/UUID/product number on the product is changed, erased, made illegible or removed. The same applies if the receipt or invoice is incomplete and/or illegible when presented.

Is ZENEC liable for other defects or damage?

ZENEC will repair or replace products, only if they are covered by the terms of this Warranty. ZENEC is not liable for any material or intangible loss or damage such as the price paid for the product, loss of profits, revenue, data, or relating to the enjoyment of the product or components associated with it, arising directly or indirectly under this Warranty or otherwise in relation to products or services. This likewise applies to loss or damage relating to the impairment or operational failure of the product, or devices associated with it, caused by defects or the non-availability of the product during the time it is with ZENEC or ZENEC's service partner, as well as to periods of downtime and business interruptions. In addition, ZENEC does not accept any liability for shipment-related risks - such as the loss or destruction of the product - in connection with the fulfilment of the Warranty.

This disclaimer applies to losses of damage irrespective of the legal basis, especially on the grounds of negligence, other wrongful conduct (torts), breach of contract, express or implied guarantees, and strict liability (even if ZENEC or its service partner has been advised of the possibility of such damage occurring).

If these disclaimers are prohibited or limited under the applicable law, ZENEC will limit its Warranty and liability to the extent permissible under the applicable regulations. For example, some national laws prohibit the exclusion or limiting of damages payable in connection with negligence, gross negligence, willful wrongdoing, deceitful conduct, and other such acts. For the duration of this Warranty, all liability that cannot be excluded completely will be limited to the extent permissible under the applicable law. Liability under this Warranty is limited to the price paid for the product. If the applicable law only permits higher limits on any liability, this higher limitation will apply.

How do I exercise my Warranty rights?

If you want to exercise your entitlements under this Warranty, please contact the authorized dealer where the product was purchased, and present it with the original copy of the till receipt or invoice. Do not return any products to ZENEC directly, otherwise our Warranty obligations cannot be fulfilled. You will find the name of the relevant dealer or reseller on your proof of purchase.

Defective devices sent by the authorized dealer to the service center, must also be accompanied by any accessories with a logical connection to the observed fault. This means, for example, the navigation package on an SD or microSD card supplied or purchased with the device, if problems or functional errors were observed in connection with the navigation function.

How will ZENEC fulfil its Warranty?

ZENEC or its service partner will choose to either repair or replace the product or its defective parts covered by the Warranty, and assume the costs of material and labor in doing so.

Repairs under the Warranty must be carried out by ZENEC or its authorized service partner. Products that are repaired or replaced may contain new and/or refurbished components and devices. Components that are swapped out will become the property of ZENEC.

Will I incur any costs in connection with the Warranty service?

ZENEC assumes the costs of material and labor in connection with its Warranty service. The Warranty holder is responsible for the costs of shipment and bears the risks connected with the shipment (see above). If the product is found to be operating faultlessly, or there is no warranty entitlement because the warrant period has expired or for any other reason, ZENEC or its authorized service partner will be entitled to charge a flat-rate investigation fee of €30.00.


Do this Warranty affect my statutory or contractual rights?

This Warranty is made voluntarily by ZENEC, and it will, in any case, extend your statutory rights. As a consumer, you remain fully entitled to your statutory rights, such as the statutory guarantee. This Warranty also has no effect whatsoever on your contractual rights against the reseller. You may continue to exercise these rights in full.

EU Legal Representative: ACR S & V GmbH · Industriestraße 35 · D-79787 Lauchringen · Germany
ZENEC by ACR AG · Bohrturmweg 1 · CH-5330 Bad Zurzach · Switzerland

www.zenec.com

Hereby, ACR Brändli + Vögeli AG declares that the type of radio equipment ZENEC Z-N965 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.zenec.com> (see link "Product Conformity Documents" in the footer area of the page).

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**UK
CA**

CE

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English

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