

# Z-E2050



# INFOTAINER USER MANUAL

#### 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

#### 

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.

#### 

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

# 

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.

#### **A**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.

# 

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 render warranty claims null and void.

#### **A**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.

# 

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

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.

#### **M**NOTE

The ZENEC system supports functions like multi-function steering wheel, display of air conditioning settings or optical parking system and multi-function display support. All of them are in dependence to the vehicle and can only be used, when they are provided by the vehicle.

#### TURN ON / OFF

#### Manual On / Off Z-E2050



Press the knob (fig. S/7 0), to turn the ZENEC system on, press and hold the button to switch off the device.

#### Automatic On / Off

The device automatically switches on/off by CAN bus interface ignition signal.

Switching on the ignition will activate the ZENEC system. The boot process can take up to 30sec. This may result in some delay until the system is ready. The ZENEC system is shut down by switching off the ignition, or removing the ignition key.

#### **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 → System Setup → Password

# **I**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. This service is not free!



#### MULTIFUNCTION STEERING WHEEL



Item	lcon	Function			
1	$\bowtie$	Reduce volume	Reduce volume		
2	⊉	Increase volum	ne		
3	☆ -•" ?	Mute			
	4	Radio source	Press to choose the next radio station.		
4		Media source	Press to choose the next track/title. Press and hold to fast forward.		
_	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	~ 1	Accept call			
7	~ 1	Reject / End ca			
8	-•(()	Voice (not supported)			



# **Device Front Panel Control Options**

Item	Icon	Function		
1	HOME	Tap to jump back to main menu Press and hold jump to audio settings		
2		Turn to increase or decrease playback volume Press and hold to turn device ON or OFF Tap to mute/- unmute device		
3	NAV	Tap to jump to navigation Press and hold to open Quick Control Bar inside navigation source		
4	DAB	Tap to open DAB+ radio source		
5	CAR	Tap to jump to CAR Press and hold jump to special CAR Menu		
6	mss E	Slot for the microSD with Media Files (Audio & Video)		
7		Fap, to eject the DVD		
8		Turn for list scrolling		
9	FAV	Tap to select preferred content or execute a function Press and hold to jump to audio settings		
10	SRC	Tap to change the source		
11	вт	Tap to open the Bluetooth hands-free page		
12	MAP	microSD card slot for GPS navigation software behind "MAP" cover		
13	RESET	Hole in the panel for the reset pin		
14	0	Internal microphone		
15	0	IR receiver for remote control		

#### MAIN MENU STRUCTURE



Main menu with 3 Icons



Main menu with 6 Icons

The icon amount shown per main menu page can be adjusted in the setup (see page 51 "Main Menu Style").

Display - touch	sensitive	operation	Bedienung
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Function	Icon	Operation	
Sliden	<<< <b>&gt; &gt;&gt;&gt;</b>	Swipe to navigate in the main menu by sliding to the left or right	
Move		Press, hold and move the 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	lcon	Operation	
Navi	>	Tap to open navigation App	
Bluetooth		Tap to open the Bluetooth hands-free page	
FM Tuner		Tap to open FM radio source	
USB	J.	Tap to enter USB source	
iPod	Ð	Tap to open audio playback source (Apple)	
BT-Music		Tap to open BT-Music source	
DAB+	DAB+	Tap to open DAB+ radio source	
CAR		Tap to open CAR Infos	

#### MEDIA AUDIO SOURCES



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

Function	lcon	Operation
USB		Tap to enter USB source
iPod	Ð	Tap to open audio playback source (Apple)
BT-Music		Tap to open BT-Music source
Smartlink	S	Tap to open Smartlink App
FM Tuner		Tap to open FM radio source
DAB+	DAB+	Tap to open DAB+ radio source (only for Z-N426)
HDMI		Tap to open HDMI source
DVD	DVP	Tap to open DVD source
SD	52	Tap to open SD source

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#### **INPUT SOURCES**



To select and open external sources like HDMI, Camera, AV-IN or Smartlink, they need to be paired or physically connected to the device.

#### Input Sources

Function	lcon	Operation
HDMI		Tap to open HDMI source
Camera		Tap to enter camera source
Smartlink	S	Tap to open Smartlink App
AV-IN	N 6 6	Tap to open AV-IN
CAR		Tap to open CAR Info page

# **I**NOTE

Icons in the main menu remain greyed out for input source items 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	$\ll$	Tap to jump one level up or back		
Clock Time	16:04	Display of time (no interaction possible)		
Traffic Announcement	TA AF	Traffic announcement (if function is set to active)		
Volume	<b>■(</b> ))) 16	Shows the current playback volume		
ALT	ALT	Tap to select / start a previously assigned function Settings $\rightarrow$ Misc $\rightarrow$ ALT software button		

#### SEARCH AND INPUT FUNCTION

≪ 09:46			<b>■(</b> ))) 10	) 🖬 🗐	ALT
	☐ \CD5		/12	$\langle X$	$\mathbb{S}$
A	<ul> <li>1.01 Taylor S</li> <li>2.02 - 30 Sec</li> </ul>	1	2	3	*
С     К	A 3. 02 - 30 Sec	4	5	6	Q
Ů	4. AAA B 5. AAA BBB	7	8	9	_
	) 6. Calvin Harr	$\bigcirc$	0	Ok	

The input keyboard for search and input is a simple standard numeric layout.

Function	lcon	Operation
Search & Input Field	/12	Input screen
Delete		Tap to delete a number
Delete	Press and hold to delete the full string	
Back	$\bigcirc$	Tap to end the search or the input
Enter	ОК	Tap to confirm the input

#### **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.

Function	Icon	Operation		
Station forward		Tap to start the auto FM station search, running up in the frequency band		
Station	87.50 MHz Station Name / Station Frequency			
Station back		Tap to start auto FM station search, running down in the frequency band		
Cover	»swr3	Shows radio station graphics or cover picture of artist (Only with microSD card from Z-EMAP50 bundle)		
Info display area	<<< >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Finger swiping left and right to access stored FM stations previous / next		

#### **Center Section of Display**

#### **Control- and Operating Section**

Function	lcon	Operation		
FM/DAB+ Switch	$\bigcirc$	Tap to switch between FM/DAB+		
Info		Tap to show station information		
Frequency Scale		Tap to open FM station frequency bar		
Preset	Preset	Tap to show the stored FM station list		
Tuner Setup	$\bigcirc$	Tuner settings		
ТА	ТА	Tap to activate or de-activate the auto switching of RDS based traffic announcements		

#### 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	92.90 MHz	Tap to open the direct frequency input mode keyboard	
Station Frequency DOWN		Tap to start manual 100kHz jump, or FM station auto search down	
Bar Graph Scale	.92_	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 input of the station frequency.

Function	lcon	Operation		
Station Frequency UP		Tap to auto seek / manual seek up, depending on setting		
Station Frequency	92.90 MHz	Tap to open and close direct station frequency input via keypad		
Station Frequency DOWN		Tap to auto seek / manual seek down, depending on setting		
Scale	-92	Radio frequency scale display		
Delete		Tap to delete a number Press and hold to delete the full number string		
Keypad	1 2 3 4 5 6 7 <b>8 9</b>	Direct frequency input option		
ок	OK	Touch to confirm frequency		
Hide	$\bigcirc$	Hide Keyboard / Keypad		

#### **FM STATION-PRESET**



Select a previously stored 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	
Stores	87.50	Tap to select a stored station. Press and hold the station to save the actual radio station on any of the station preset buttons	
Store register		Tap to goto another store register (3 register each with 6 stores)	

#### **FM SETUP**



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

Function	lcon	Operation		
AF	AF	Alternative Frequency ON / OFF		
REG	REG	Setting for search function sensitivity of auto scan		
SCAN	SCAN	Setting to choose the automatic or manual station frequency search.		
ТА	ТА	Tap to activate or de-activate the auto switching of RDS traffic announcements		

# **I**NOTE

Select DX to increase the general sensitivity during auto scan to stop at weaker, usually more distant radio stations

Select LOC when you prefer to stop at local stations with a stronger signal level

#### DAB+ RADIO SETUP



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

Function	Icon	Operation
Station up	AB	Tap to jump to next station Press and hold to jump to next Ensemble
Station	1XTRA BBC Live Lounge Sessions	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

#### Control- and Operating Section

Function	Icon	Operation		
UKW / DAB+ Switch	$\bigcirc$	Tap to switch between FM / DAB +		
Info		Tap to show station information - main display		
List		Tap to open the station list (showing all currently receivable radio stations in the environment)		
Preset	Preset	Tap to show the stored DAB station list		
Setup	Õ	Tap to change settings for DAB+ functions		

#### DAB+ ENSEMBLE AND STATION LIST

≪ 12:30			<b>•(</b> )))	illı 💷 🗱	ALT
	DR Deutdschland	5C		B+	
	SMC D03 N-CH	7A		_	i
	SMC_D02	7D			
	SWR BW S	8D			Preset
	SRG SSR D01	12C			Õ

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 (by re-scaning).

Function Icon Operation		Operation
Ensemble list selection	Sv	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



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	TDAB SUN	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
Back		Tap to jump back to Ensemble selection

#### DAB+ SETUP

#### 09:44 • ())) 8 X DAB Settings i OFF DAB-DAB Switching -----ON OFF Antenna Supply ON 1111 Preset DAB Firmware 76017207484

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

Function	lcon	Operation
DAB-DAB Following	DAB-DAB Swite	Tap to turn DAB-DAB station following ON or OFF
DAB antenna socket phantom power	Antenna Supply	Tap to turn the 12V phantom power supply of the DAB antenna socket ON or OFF
DAB Firmware	DAB Firmware	Displays the current DAB+ Firmware version

#### **DAB+ STATIONS-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	
Stored Station	<b>Ι</b> 90elf Fuβball	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	
Store register		Tap to goto another store register (3 registers with 6 stores each)	

#### USB / BT A2DP / iPOD / SD (AUDIO) 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	The second se	If a cover is stored on the music media, it can be displayed. This function is not supported for BT Audio playback.	
Interpret	ST	Information about the artist	
Track	A	Information about the track	
Album	$\bigcirc$	Information about the album	
Genre	i	Information about the genre or any other special infos	
Pack	$\sum$	Tap to skip to the previous track Press and hold to start fast reverse	
Dack	<b>***</b>	Swipe to the left to skip forwards to the next track	
Play	$\triangleright$	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	
Torward	<<< <b>&gt; &gt;&gt;&gt;</b>	Swipe to the right to skip back to the previous track	
Playback Time Line	75 0:38	Tap or slide to skip within a track	

USB / BT A2DP / iPOD / DVD / SD (AUDIO) MEDIA CONTROL AND OPERATION BAR



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

Function	Icon	Operation
Playlist		Tap to display the folder and list This function is not supported in BT Audio playback mode.
Video <-> Audio Source	- K	Tap to switch between audio or video playback. This function is not supported in BT Audio and iPod mode
Shuffle	⊃∕\$	Tap to turn on the random play feature within the folder that is playing
Repeat	₽ F	Tap to automatically repeat a track or a complete music collection
Source	Ŷ	Touch to jump to next available source (Available sources USB, iPod, DVD, BT-Music and SD)

#### BT MUSIC (A2DP)



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.

# **I**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 of is given by the sorting sequence on the mobile Apple device and can not be changed or adapted in any way.

#### PLAYLIST (AUDIO)



The playlist menu offers convenient navigation in your track list. You can a search for an artist or a song by alphabet letter index. Selecting a track for playback is just as simple. Vertically swipe on the audio tracks and tap to select. Or simply slide the bar graph pointer up and down.

Function	lcon	Operation		
Folder (uppermost)	✓ \CD5	Tap to go to the next higher level		
Folder		Touch to show the hard disc root content overview		
Search		Tap to open keypad for search		
Scroll	0 A	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 <-> Audio Source	₩\$	Tap to switch between audio or video playback. This function is not supported for BT Audio iPod, and DVD		
Back		Tap to switch back to audio playback		

#### **VIDEO MEDIA: HARDDISK**



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

Function	lcon	Operation		
Jump inside Title	00:39	Tap to skip directly to the desired position Slide to reach the desired position		
Video<->Audio Source	NS	Tap to switch between audio or video playback. This function is not supported in BT Audio and iPod playback mode		
Back	$\bowtie$	Tap to skip back to the previous section		
Play	$\triangleright$	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 list This function is not supported in BT Audio mode		
Shuffle	>∕\$	Tap to turn on the random play feature within the folder that is playing		
Repeat	(ALL)	Tap to automatically repeat a film or complete video collection		

#### PLAYLIST (VIDEO)



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

Function	Icon	Operation	
Folder		Touch to show the hard disc file overview	
Back	$\bowtie$	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	
Video <-> Audio Source	<i>₩</i>	Tap to switch between audio or video playback. This function is not supported for BT Audio and iPod	
Scroll	BG	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	
Back	$\sum$	Tap to switch back to video playback	

# 

Playing video files while driving is not permitted by the law. For this reason the screen will switched off when the vehicle moves.



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

Function	lcon	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	lcon	Operation	
AV-IN	<b>N 6 6</b>	Tap to open AV-IN source mode	

### CAMERA



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

Function	lcon	Operation
Camera		Tap to open camera source

#### SMARTLINK DIRECT



When a compatible smartphone is connected to the device via USB port, tapping on the Smartlink Direct main icon opens the pairing options of the Android smartphone, or the display mode if the phone has been successfully paired before.

Function	lcon	Operation	
Smartlink Direct		Tap to enter the Smartlink Direct mode	



The Drive Mode control interface offers several options to configure and operate this App on the device, including the control of smartphone functions. See the three icons on the right hand side vertical area, which target operation and control of the (paired + connected) smartphone.

Function	lcon	Operation	
Smartlink Direct Drive Mode Control Panel Button		Tapping on this circular button opens five control icons. Press and hold this Smartlink Direct button allows to move it into any position on the display screen.	

#### SMARTLINK DIRECT CONTROL INTERFACE



Function	lcon	Operation
Drive Mode Panel Back Icon	4-2016 CARBIT	Tap to exit Drive Mode panel
Smartlink Control Bar Icon for menu control bar (to access Version info and display setup)		Tap to display infos and open display setup. See page 34.
Drive Mode Home Icon	仚	Tap to jump back to main menu
Smartlink Setup Icon	ලි	Tap to open the Smartlink Direct setup page
Smartphone disconnect Icon	$\rightarrow$	Tap to disconnect the smartphone and to jump back to smartphone select page
Battery Level and Charge Status icon	œ۶	Shows battery level and charge status
Drive Mode Icon to activate or lock screen rotation	Ъ	Tap to activate screen (auto) rotation, or lock of screen rotation in dependency to smartphone
Smartlink Icon for menu bar	$\odot$	Tap to open menu bar
Display of Time	15:01	Display of Time (no operating function)
Smartphone Control Bar Icons to operate the connected smart- phone (Icons and control logic may vary in accordance with connected smartphone model)		Tap to access/ open further functions of the connected smartphone

#### SMARTLINK DIRECT CONTROL BAR ICONS



Smartlink Direct control bar to access versioninfo and display setup.

Function	lcon	Operation
Drive Mode ON/OFF Icon	beenden	Tap to close Drive Mode panel
Drive Mode Setup Icon	کرک einstellen	Tap to access Drive Mode setup
Version-Info (Software) Icon	(j) Über	Tap to show current software version info of the Smartlink Direct application installed on this device.

#### SMARTPHONE APP LINKING



In the Drive Mode panel, you can link Apps on your smartphone to become a Smartlink Direct embedded function on the ZENEC device. Tap on the respective function field in the Drive Mode panel, where you want to assign a specific function. With the linked smartphone app, you can operate the app control functions directly via Zenec device (Android OS).

# **I**NOTE

When a main system software update is installed on the device, the Smartlink Direct license will get overwritten (erased). The Smartlink Direct App will attempt to reload the UUID based license after a software update automatically. Make sure to connect a Smartphone right after the update has completed. Contact the ZENEC Support in case of Smartlink Direct function mishaps, after such an update.

#### **BLUETOOTH (HANDS-FREE SYSTEM)**

#### **ABOUT THIS CHAPTER**

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

#### SAFETY INSTRUCTIONS

#### 

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

#### **A**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.
### 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 and Bluetooth settings.

Function	lcon	Operation
Device manager		Tap to access the device manager view
Phonebook	<u>L</u>	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

### **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	lcon	Operation
Device manager		Tap to pair, disconnect, or manage mobile devices

Function	Icon	Operation
Pair	C<₽	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)	Scan	Tap on the SCAN icon initiates 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.
Code		Standard Code*: 0000 (PAIRING Code can be changed in Bluetooth Settings – Set Pin, see Page 40)

### **I**NOTE

\*For mobile devices that do not support the SSP standard

#### Via the mobile device

Function	lcon	Operation
Search	D	Make sure that the ZENEC system is in Device Manager view otherwise the ZENEC system will not be visible to others. 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 brief disconnecting 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	lcon	Operation
Bluetooth Settings		Tap to change settings related to BT operation
Auto Connection	•••• ON ••••	ON / OFF
Auto Answer	() ON ()	ON = Automatic call acceptance ON / OFF (after 3 ring tones) activated OFF = Automatic call acceptance deactivated
Contact Order	First Name	1. by first name 2. by surname
Set Pin	0000	Tap to change Bluetooth code (Pairing PIN) Standard code: 0000
Microphone Gain	7	Fine adjustment of microphone gain

### **BLUETOOTH STATUS BAR**

lcon	Function
*	Mobile phone currently connected
	Battery capacity of the connected mobile phone
ııIl	Signal strength of the mobile network

### ACCEPTING/ENDING INCOMING CALLS (VIA DEVICE)



Function	lcon	Operation
Accept	C	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

numeric pad.

Key in the desired phone number in full using the numeric pad. To set up the connection, touch ightarrow. 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 contact and dial the number by touching  $\checkmark$ . After touching a contact you will be directed to the contact details view.

# **I**NOTE

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

### **BLUETOOTH MENU**

Function	lcon	Operation
Discrete		Touch to pass the call from the hands-free system to the mobile phone or vice versa
Mute conversation	₽	Voice output muted/- unmuted
Numeric pad		Tap to show the numeric pad Necessary in case the call asks to enter a number call center, service selection, etc.)
Back	$\ll$	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 to the mobile phone.

#### PHONEBOOK

### Contacts



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

Function	Icon	Operation
Scroll	<b>G</b>	Scroll in the list: Touch and hold to move the slider up or down, showing letters by the alphabet.
Phonebook Contacts	(P	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.
Favorites		Tap to to show phone numbers of the respective contact entry
Call / Accept	C	Tap the green handset to accept or start the call
Add Favorite	$\overset{\wedge}{\bowtie}$	Tap to add a new Favorite Tap againto remove a Favorite
Resync. Contacts	S	Tap to resync. phone book contacts
Search	Q	Tap to open the contact search keypad

### 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	lcon	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 dialled (outgoing) calls only
Call / Accept	C	Tap the green handset to accept or start the call

Function	lcon	Operation		
Missed	Ē	Entries with this icon refer to calls that you missed		
Incoming	R	Entries with this icon refer to accepted incoming calls		
Contacted	R	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; exceptions are e-mails and addresses.

# **I**NOTE

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

Function	lcon	Operation
Stored Favorite	New 4916271	Tap to set up/- start a connection with a stored Favorite
Delete	×	Tap to remove a stored Favorite
Call / Accept	c	Tap the green handset to accept or start the call

# **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 exisiting Favorite and re-assigning the same Favorite with new number.

#### NAVIGATION



For the ZENEC device Z-E2050 a navigation package is available separately. This bundle comes with multilanguage Quickstart manual and navigation software on 16GB microSDHC card. The images shown on this double page, as well as instructions, are taken from this solution.

Function	lcon	Operation	
Navigation	7	Tap to start navigation and show map view (Only if microSDHD card from the Z-EMAP50 package in the device)	

### NAVIGATION UPDATE

Activation of the free 12-month map software update period begins once the ZENEC system is turned on and license was activated by driving >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 be able 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.
- 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.

#### MAP VIEWS



Fast and simple route calculation



High resolution 3D maps



Advanced route guidance

### SETUP OPERATIONS



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

system.

Function	lcon	Operation	
Setup		Tap to access the setup mode	

### **I**NOTE

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



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

Function	lcon	Operation
Disp		Tap to dim or brighten up TFT screen ( $G$ 100% → 50% → 0% "standby" )

### SETUP OF SOURCES



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

Function	lcon	Operation	
Misc	Misc	Tap to access diverse device settings	
Audio	Audio	Tap to access audio settings	
TFT	TFT	Tap to access display settings	
Car	Car	Tap to access car settings (Park Assist etc.)	
System	System	Tap to access system settings	

≪ 02:03			<b>↓(</b> ))5	<b>*</b> *	ALT
	Main Menu Mode	-31con		6 Icon	Misc
	FAV Button		HDMI		Audio
	ALT Software Button		Setup		TFT
	Веер	On		Off	Car
	OSD Language		English		System
	Wallpapers			]	
V	Button Color		Red		

In the Misc menu page, you can configure settings for the display mode with 3 or 6 icons, ON/OFF of the beep sound, as well as the LED color of the lighting of the buttons on the device front.

Function	lcon	Operation	
Misc	Misc	Tap to access basic settings view	
Main Menu Mode	3 Icon	Tap to switch to 3 Icon or 6 Icon main page display layout	
ALT Software Button	ALT	Tap to select source function for ALT button (CAM/Mute/NAVI/Tuner/EQ/Setup/BT-Music/BT/DISP/iPod/SD/ USB/HDMI/Smartlink/DVD)	
FAV Button	FAV	Tap to select source function for FAV button (CAM/Mute/NAVI/Tuner/EQ/Setup/BT-Music/BT/DISP/iPod/SD/ USB/HDMI/Smartlink/DVD)	
Button sounds	Веер	ON / OFF	
OSD Language	OSD Langu	Tap to change the menu language	
Button Color	Red	WHITE / RED Tap to change the color	
Wallpapers	Wallpaper	Tap to change the background image	
Volume Pop-Up	ON OFF	ON / OFF Off = visual volume pop-up disabled On = visual volume pop-up enabled	
Nav Media Control Bar	ON OFF	ON / OFF Off = Nav Media Control Bar disabled for navigation On = Nav Media Control Bar enabled for navigation	
Rev. CAM IN Brightness	0	-4 ~ 4	
Rev. CAM IN Contrast	0	-10 ~ 10	
Rev. CAM IN Saturation		-5 ~ 5	
Rev. CAM IN Hue	0	-5~5	

#### AUDIO SETUP



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

Function	lcon	Operation	
Audio	Audio	Tap to access and configure audio settings	
Presets	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	Expert Mode	Tap to enable or disable expert mode. Tap to make advanced sound configurations.	
Volume	Volume 💵 )))	Tap to set initial and source volume levels	
Audio Control	Quick Audio Control	Tap to access quick audio settings (Loudness / Subwoofer etc.) This can also open by long pressing of the Home button.	

### VOLUME SETUP

≪ 09:56			■())) 8	*	ALT
	Volume			JP	Misc
	Media Volume	DEX	38		Audio
	DT Malure a		39		TFT
$\equiv$	BI volume	ALL S	40		
$\equiv$	Navi Volume	Set	0	Last	Car
	EM Tupor Caip		1.	and a	System
	Thirt difer Gain		2		
	DAB+ Tuner Gain		3		
	USB Gain		4		

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

Function	Icon	Operation
Media Volume	Media Volume	Main volume change requires upper setting position set to "Select" Setting = manually adjusted volume Last = last volume set before switching off
Navi Volume	NAV Volume	NAV volume change requires upper setting position set to "Select" Setting = manually adjusted volume Last = last volume set before switching off Only works with Z-EMAP50 bundle
BT Call Volume	BT Call Volume	BT Call volume change requires upper setting position set to "Select". Setting = manually adjusted volume Last = last volume set before switching off

Fine adjustment of the volume of all "Gain" sources

FM Tuner Gain	FM Tuner Gain	Fine adjustment of FM volume
DAB Tuner Gain	DAB+ Tuner Ga	Fine adjustment of DAB volume
USB Gain	USB Gain	Fine adjustment of USB volume

# QUICK AUDIO SETUP (BAL / FAD / SUBWOOFER / LOUDNESS )



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

Function	lcon	Operation
Left/ Right	🖌 L 💿 R 📏	20L > 0 < 20R
Front/ Rear	R F	20F > 0 < 20R
Loudness	Loudness	OFF / 50% / 100 %
Subwoofer	Subwoofer	-10 < 0 > 10

#### AUDIO SETUP: EXPERT MODE

09:00		<b>◄</b> ))) 15	🗚 🕞 🕬 🕅 ALT
	Volume	Expert Mode	Misc
	Balance Fader		Audio
	Equalizer		TFT
	Time Alignment		Car
	Subwoofer		System
	Navi-Mixer		
	Audio Control		

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

Function	lcon	Operation
Expert Mode	Mode 📰	Tap to enable or disable expert mode
Volume	Volume	Tap to set start and source volume
Balance/Fader	Balance Fader	Tap to set fader or balance
Equalizer	Equalizer	Tap to set the 10-band equalizer
Time Alignment	Time Alginme	Tap to make settings for the time alignment
Subwoofer	Subwoofer	Tap to set subwoofer settings
Navi-Mixer	Navi-Mixer	Tap to set navi voice output configuration
Audio Control	Audio Control	Touch to make general quick audio settings (Loudness / Suboofer etc.) Can be accessed by long press of the Home button.

#### AUDIO VOLUME - BASE LEVEL SETUP



In the audio menu, you can adjust the basic volume values of the various audio sources.

Function	lcon	Operation
Media Volume	Media Volume	Tap to set the media playback volume
Navi Volume	Navi Volume	Tap to set the volume of the Navi voice
BT Call Volume	BT Call Volume	Tap to set the volume of the Bluetooth handsfree volume

#### Fine adjustment of the volume of all "Gain" sources

FM Tuner Gain	FM Tuner Gain	Fine adjustment of FM volume
DAB Tuner Gain	DAB+ Tuner Ga	Fine adjustment of DAB volume
USB Gain	USB Gain	Fine adjustment of USB volume

### **BALANCE / FADER SETUP**



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	lcon	Operation
Left/ Right	L 🛛 R	20L < 0 > 20R
Front/ Rear	F R	20F < 0 > 20R
Crosshair		Press and hold to move green dot into desired position

#### EQUALIZER SETUP



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	lcon	Operation
		Tap to set the desired Band
Band		Touch and hold to change the setting of the selected band

#### TIME ALIGNMENT



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

Function	Icon	Operation
Unit	$\triangleleft \triangleright$	Selection of desired unit ms = time cm = distance
Preset	$\triangleleft \triangleright$	Touch to select the desired speaker (OFF / FL / FR / Front / All)
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 installed speakers. 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 to move the speakers to same distance from selected position. Enter these distance. You can fine tune values "by ear".



#### SUBWOOFER SETUP



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

Function	Icon	Operation
LPF	LPF	Tap to set the low pass filter frequency to 250Hz/160 Hz/125 Hz/100 Hz/80 Hz/65 Hz/50Hz
Gain	Gain (	Touch to set the GAIN -10 < > 10

#### 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. Only works with ZENEC nav package Z-EMAP50.

Function	lcon	Operation
Mute Media Sources for Navi Voice Announcement	ON	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 16GB microSDHD card of the ZENEC navigation software bundle Z-EMAP50.

Function	lcon	Operation
TFT configuration	TFT	Tap to adjust display configuration
TFT Control	Navi	Tap to select the brightness control: Navi = Day/Night brightness is controlled by the navigation system. Car = Day/Night brightness is controlled by vehicle illu voltage wire.
TS-Brightness Day	18	Day adj range 0 ~ 18
TS-Brightness Night	3	Night adj range 0 ~ 18
TS-Auto Standby	OFF	Tap to enable or disable TFT Auto Standby function and Auto Screen shutdown. TFT goes into standby after selected time.

# **I**NOTE

Using the DISP icon in the main menu you can set the display brightness to three levels (G  $100\% \rightarrow 50\% \rightarrow 0\%$  )).

### 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 of the vehicle.

Function	lcon	Operation
Car (vehicle)	Car	Tap to access vehicle configurations
Park Assist	CAM,	<ul> <li>Touch to set the parking aid display source.</li> <li>OFF / CAM / OPS / OPS &amp; CAM:</li> <li>OFF = The function is turned off permanently.</li> <li>CAM = If a rear view camera is connected, the camera picture will be displayed automatically.</li> <li>OPS = Indicates the optical parking system depending on the vehicle configuration.</li> <li>OPS &amp; CAM = Indicates a combined picture of the rear view camera and the optical parking system.</li> </ul>
Reverse Audio Assist	f Mute	OFF / MUTE / Reduced
OE Sound System	On	ON / OFF
Dynamic Camera lines	On	ON / OFF
Front radar	On iiii	ON / OFF Indicates the optical front parking system depending on the vehicle configuration.
AC Info (Pop-up)	On	ON / OFF Off = Air conditioning pop-up window does not appear during adjusting On = Air conditioning pop-up window does appear during adjusting
Car Info (Pop-up)	On	ON / OFF (Fig. S/68)
Driver position	Eeft-Hand	Left-hand, Right-hand

# AIR CONDITIONING (AC INFO)



If AC Info is enabled, changes induced by manual operations the air conditioning will be displayed by the ZENEC system.

Function	lcon	Operation
Ventilation	ON	On = Switch for ventilation is minimum adjusted to level 1 Off = Switch for ventilation is adjusted to level 0
Rear window heating	( <b>†††</b>	Rear window heating switched on or off
Windshield heating	¥#	Defrost function switched on or off
Air conditioning	A/C	Air conditioning switched on or off
Recirculating air operation	(j	Recirculating air operation switched on or off
Dual	DUAL	Synchronous the temperature settings for driver and passenger side
Auto	AUTO	Automatic adjustment of temperature

### DYNAMIC INDICATION OF SEAT HEAT

Function	lcon	Operation
Temperature arrows	>	Indication of actual air flow: Frontwindow – Center – Leg room
Temperature		Blue         ca. LOW – 20.0 C           Yellow         ca. 20.0 – 24.0 C           Red         ca. 24.0 – HIGH
Ventilator setting	Ţ	The digit shows the fan level.

Seat heater	3	Indication of current seat heating level. In addition to the digit, the seat heating level will be indicated in three different colour gradations.
Setting	555	The seat heating level will be displayed in combination with a digit.

# **I**NOTE

All functions related to the air conditioning are only status indications. It's not possible to operate the air conditioning with the ZENEC system.

The effective range of functions is depending on the vehicle manufacturer, vehicle type and vehicle configuration. The ZENEC system supports all listed functions above. Differences from this information, features or functions cannot be used for claims.

### SYSTEM SETUP

« 09:49			∎ <b>(</b> ))) 8 3	•	ALT
	SW Version Info		ZENEC V1.1	D	Misc
	Load Factory				Audio
	Software Update				TFT
	Set Time		EL	1/4	Car
	Clock Format		24 Hour		System
E E	GPS Clock Time	ON		OFF	
V	Time Zone		+01:00		

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	lcon	Operation
System	System	Tap to access various system settings
SW Version Info	SW Version	Tap to access detailed software version information
Load Factory	$\checkmark$	Tap and confirm to reset the ZENEC system to factory default values
Software Update	$\sim$	Tap and confirm to initiate a software update. www.zenec.com $\rightarrow$ Support $\rightarrow$ Softwareupdates
Password Function	ON	OFF = password protection disabled ON = password protection enabled
Password	Password	Tap and confirm to enter a password
Daylight/ Saving Time	ON	Tap to change between summer and winter time
Navigation Program	Navigation Program	Tap to choose Navi.exe from Navi-SD-card
Set Time	Set Time	Tap to change clock time
GPS Clock Time	ON III OFF	ON / OFF ON = use GPS time OFF = use the internal system clock time
Clock Format	24 Hour	Tap to select 12 H / 24 H
Time Zone	+01:00	Tap, to change the time zone

## CAR INFORMATION (VEHICLE STATUS) - PAGE I



The CAR information (vehicle status)page shows several special values, operations and informations of the vehicle, by the ZENEC system.

Function	lcon	Operation
CAR Information		Tap to open the CAR Info page
Vehicle door status		Tap to show the vehicle door status (Visual status display of all doors, lights, car-trunk and the en- gine bonnet) - OPEN / CLOSED - ON / OFF
Vehicle status		Tap to show the current CAR Information
Digital speed meter	km/h	Show the current driving speed (km/h)
Battery power (Status)	16V F	Information about the current battery power level (Volts)
Outside temperature		Shows current outside temperature
Seat belt info	* *	Safety information about the seat belt status. - Red = seat belt open - Grey = seat belt closed
Parking brake status		Information about the parking brake status "applied/ open" - Red = parking brake ON - Grey = parking brake OFF
Tank level indicator	3 Ltr	Information about the current petrol level (Litres)
Petrol indication		Petrol warning indicator, if the petrol level drops below 9 litres - Red = petrol level 0 ~ 9 litres - White = petrol level 9 litres >
Current mileage status	106561 km	Show the current vehicle mileage status
Engine speed	RPM	Information about the current engine speed (RPM)

### CAR INFORMATION (VEHICLE STATUS) - PAGE II



The vehicle door status page visually shows several special operations and information of the doors, lights, car-trunk and engine bonnet, by the ZENEC system.

Function	lcon	Operation
Vehicle status		Tap to show the current CAR Information
Vehicle door status		Show the vehicle door status (Visual status display of all doors, vehicle lights, car-trunk and the engine bonnet) - OPEN / CLOSED - ON / OFF

### SOFTWARE VERSION

« 09:49		• <b>(</b> ))) 8 🗱	ALT
	SW Version Info	ZENEC V1.1	Misc
	APP: M1421-2201-170623PA		Audio
	T8_2201_170417_01		TFT
	MCU: ST32_01_20170616_01		Car
	DVP: 01140312 Servo: 9b180060		System
∃E	BT: M70B44B47A36A35H23		
	UUID: MM0000000038502		

In the system setup menu, software versions loaded by the Z-E2050 are shown for MCU, OS App and BT as well as a short version.

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

#### PASSWORD





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

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

#### **A**CAUTION

If you protect you ZENEC system with a Passwort 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 free of charge.

#### INSTALLATION NOTES

# 

- 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-E2050 is equipped with an integrated DAB+ receiver. To make use of this you
  will need a suitable DAB antenna (not included in this 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).
- If you have questions or problems relating to the ZENEC system, please contact the dealer from whom you purchased it.

### **REMOVAL WORK AND PREPARATION**

### **I** NOTE

- 1. Remove the ignition key and keep it outside the car until the installation is finished.
- 2. 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.
- 3. Start with the deinstallation of the original device.
- Please switch on the ignition only, when all work 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.

# GENERAL

# ABBREVIATIONS

Abbreviation	Description
A2DP	Manufacturer-independent Bluetooth® technology allowing audio signals to be transmitted (Advanced Audio Distribution Profile)
AF	Alternative frequency
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 (FM)
GPS	Global navigation satellite system for position fixing (Global Positioning System)
GSM	Global mobile cellphone network standard for digital mobile networks (Global System for Mobile Communications)
ID3-Tag	ID3 tags means meta data, which is contained in audio tracks of the MP3 format.
microSD	Compact flash memory
REG	Regional station
SSP	Secure Simple Pairing (for Bluetooth devices)
ТА	Traffic Announcement (RDS service) of dedicated RDS radio stations
USB	A USB connection is a serial bus system for connecting a device to other devices (Universal Serial Bus).
SWC	Steering wheel control
## **OVERVIEW OF INCLUDED ACCESSORIES**



No.	Article	Qty
1	Main power Main harness Quadlock II for VW	1
2	CAN BUS connection cable for ZENEC interface	1
3	24 PIN cable for RCA line-out / A/V / rear view cam	1
4	FM antenna interface, single to twin Fakra converter cable for VW	1
5	DAB SMB to Fakra A converter cable	1
6	USB extension cable 1m	1
7	GPS antenna with cable and Fakra connector	1
8	Main device operating instructions booklet	1
9	ZENEC CAN BUS Interface	1

# COMMISSIONING

Make sure that the vehicle is located outside, and that the GPS reception is not adversely affected by any shadowing (trees, high buildings etc.). Now insert the navigation software microSD card supplied with the set into the microSD card slot of the ZENEC system, and start it in order to establish a sat fix. Make sure that the vehicle is not moved until the sat fix is established. Now press the NAV button to start the navigation mode, and choose map view. Once your present location can be seen in the map view the sat fix has been established. This can take 3 to 5 minutes. You can now use the ZENEC system.

Finally carry out a general functional test and perform the basic and car specific settings (AC, OPS etc.). Also ensure that no fault warnings appear on the vehicle side.

#### **CONNECTION DIAGRAM Z-E2050**





В



B1	Speaker Rear Right (+)
B2	Speaker Front Right (+)
B3	Speaker Front Left (+)
B4	Speaker Rear Left (+)
B5	Speaker Rear Right (-)
B6	Speaker Front Right (-)
B7	Speaker Front Left (-)
B8	Speaker Rear Left (-)

B9	CAN High
B10	CAN Low
B12	GND
B15	B+
B17	AUX-L
B18	AUX-GND
B29	AUX-R

С

24 PIN CONNECTOR



C1	Rear Monitor Out
C2	N.A.
C3	Camera IN
C4	Video IN
C5	AUX IN L
C6	AUX IN R
C7	Line Out Rear L
C8	Line Out Rear R
C9	Line Out Front L
C10	Line Out Front R
C11	Line Out Sub Woofer
C12	Line Out Sub Woofer

C13	MIC
C14	N.A.
C15	IR/IN
C16	GND
C17	N.A.
C18	Camera +12V (max 300mA)
C19	N.A.
C20	N.A.
C21	N.A.
C22	N.A.
C23	N.A.
C24	N.A.



## STATUTORY RIGHTS AND WARRANTY

Dear customer,

Please read the warranty specifications below carefully.

Should your ZENEC product require warranty service, please return it to the retailer from whom it was purchased or the distributor of your country. Do not send any product to ZENEC directly.

This ZENEC product is protected against defective materials and/or improper workmanship by a factory warranty, for the period of two years from date of purchase at retail, to the original buyer.

For warranty work to be carried out, an RMA number must be generated, which requires a valid product serial number and the original sales slip.

#### This manufacturer warranty does not cover any damage due to:

- 1. Unauthorized or unapproved installation, incorrect audio or mains connection(s).
- 2. Defects caused by exposure of product to humidity, water and organic fluids, prolonged exposure to sun rays or excessive dirt or dust.
- 3. Mechanical defects caused by accidents, fall or impact.
- 4. Unauthorized repair attempts and modifications of product not explicitly authorized by the manufacturer.

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. The warranty does not cover any transport costs or damages caused by transport or shipment of the product. Any additional or further claims and requirements for compensation of auxiliary components that have been damaged in sequence, directly or indirectly, are strictly excluded.

Hereby, ACR Brändli + Vögeli AG declares that the type of radio equipment Z-E2050 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).

**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



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