

OPTIONAL NAVIGATION SOFTWARE PACKAGES FOR Z-N965

With the optionally available microSDHC nav cards Z-EMAP66-PC3, Z-EMAP66-MH3 or Z-EMAP66-MH7^{*1}, the Z-N965 device becomes a full-function naviceiver.

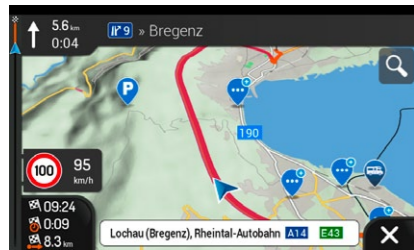
NAVIGATION FOR PASSENGER CARS: Z-EMAP66-PC3

- 3D software with coverage of 47 countries: Western and Eastern Europe, Great Britain, Turkey, Ukraine, Belarus and Russia (on 16 GB microSDHC card)
- European Premium POI package with over 6.5 million special destinations
- Realistic 3D rendering of terrain, landmarks, city centers and highway exits
- Dead Reckoning navigation for precise route guidance without GNSS signal (tunnels, underpasses, parking decks etc.)
- Navi Splitscreen for audio sources showing street names and house numbers and turn-by-turn info with distance to next turn
- Lane assistance, Tunnel mode, 3D auto-zoom for crossings and roundabouts, intelligent alternative route calculation, etc.
- TTS voice guidance
- TPEG traffic service data via DAB + (country-specific coverage, free service only)
- 3 years map update subscription

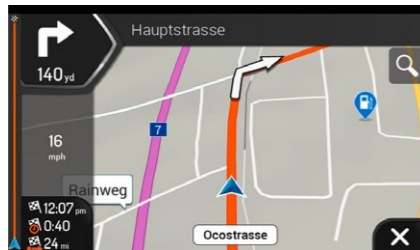
NAVIGATION FOR MOTORHOMES: Z-EMAP66-MH3 & Z-EMAP66-MH7

- 3D motor caravan navigation software with coverage of 47 countries: Western and Eastern Europe, Great Britain, Turkey, Ukraine, Belarus and Russia (on 16 GB microSDHC card)
- Pre-configured motor caravan profiles with additional input of height, width, length, weight and trailer data
- Camping POI package with approx. 20,000 camp site locations and motor-home stop over sites in Europe (multilingual: in DE/EN/NL/IT/FR)
- European Premium POI package with over 6.5 million special destinations
- Realistic 3D rendering of terrain, landmarks, city centers and highway exits
- Dead Reckoning navigation for precise route guidance without GNSS signal (tunnels, underpasses, parking decks etc.)
- Navi Splitscreen for audio sources showing street names and house numbers and turn-by-turn info with distance to next turn
- Lane assistance, Tunnel mode, 3D auto-zoom for crossings and roundabouts, intelligent alternative route calculation, etc.
- TTS voice guidance
- TPEG traffic service data via DAB + (country-specific coverage, free service only)
- 3 years map update subscription (Z-EMAP66-MH3), 7 years map update subscription (Z-EMAP66-MH7)

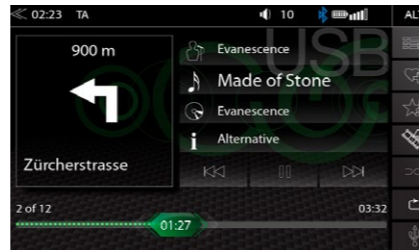
^{*1} The navigation bundles Z-EMAP66-PC3, Z-EMAP66-MH3 and Z-EMAP66-MH7 are not part of the set content of the Z-N965 device.



Detailed 3D maps



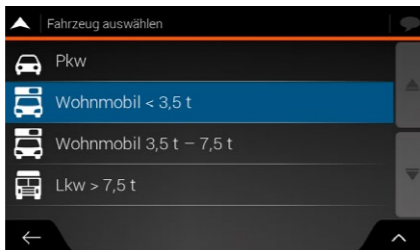
3D zoom function



Navi split screen mode



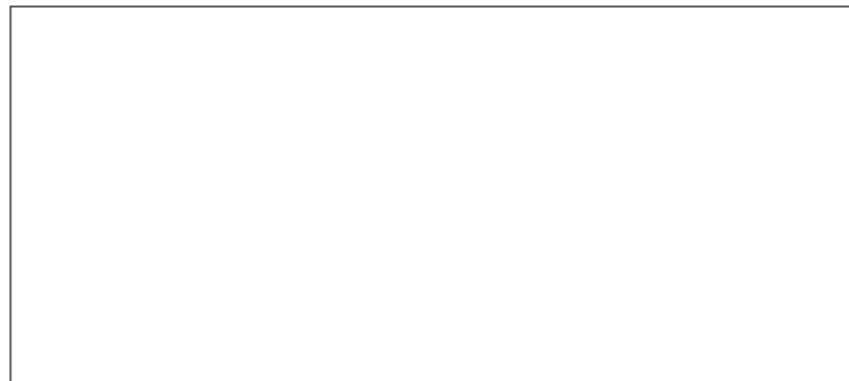
TPEG traffic service data



Preconfigured vehicle profiles (MH versions)



Camping P.O.I. package (MH versions)



Z-N965

1-DIN Infotainer with 9" / 22.9 cm Display



I-DIN INFOTAINER WITH 9" / 22.9 CM DISPLAY



The ZENEC Z-N965 is a top-class **DAB+ infotainer** for vehicles with 1-DIN mounting slot provision. The display panel features tilt angle and relative height adjustment for best position alignment in the vehicle cockpit. The **capacitive, touch-sensitive 9"/22.9 cm TFT** display with glass surface provides high-definition (1024 x 600 p) for finely resolved, crisp images.

The Z-N965 provides for an easy and totally safe smartphone use in the car. The USB(1) port on the device lets you dock your phone directly to the infotainer – the Z-N965 is **Apple CarPlay** and **Google Android Auto™** certified. Making phone calls, use Google or Apple maps to find a destination, play music and send or receive messages is true mobile convenience where the choice is yours: control and operate apps either via device touchscreen or with Apple Siri or Google's voice assistants.

The Z-N965 includes a **DAB+ twin-tuner system** giving you the full range of the digital broadcasting standard, including various comfort functionalities such as MOT slideshow, DLS-text, DAB<->FM/DAB<->DAB Service-Following and dynamic station list.

The up-to-date **4.2 Bluetooth module** features comfortable hands-free functions with optimized operation and high quality.

The Z-N965 allows the connection of **three rear-view cameras** and also convinces with its sophisticated audio features. A **DSP IC with 5-channel time alignment** allows optimization of sound travel times for each speaker, providing for best center stage imaging on either the driver or passenger seat. The respective delay can be set as distance in centimeters or as time in milliseconds. With the **graphical 10-band equalizer** you can manually optimize the sound to correct for particularities of your vehicle or simply to suit personal preferences. An **active crossover** with high and low pass filters completes the impressive audio feature list.

The Z-N965 supports the playback of the latest audio and video formats of USB memory devices connected via **USB 2.0 port**. The USB(1) port does charge Apple and Android smartphone batteries with up to 1,000 mA charging current.

The Z-N965 supports **A2DP BT-music streaming** via smartphone, for fast and easy enjoyment of private music collections.

GPS navigation function for the Z-N965: Three navigation software packages are available to extend the infotainer purposefully. With the Z-EMAP66-PC3 package (3 years map care subscription) the Z-N965 becomes fit for passenger cars. Z-EMAP66-MH3 (3 years map care subscription) and Z-EMAP66-MH7 (7 years map care subscription) are nav-packages conceived for motorhome vehicles – featuring a wealth of dedicated functions to ease driving in such large vehicles.

VEHICLE COMPATIBILITY

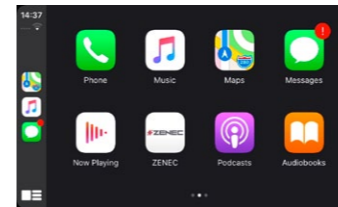
The Z-N965 does fit in vehicles featuring a dash-board with 1-DIN device mounting provision or a vehicle specific 1-DIN mounting kit.

A detailed list of device features and further compatibility information as well as pictures of Z-N965 mounted in vehicles are displayed on www.zenec.com under 'Technical Specifications' / 'Device Compatibility' / 'Product Images'.



Universal infotainer

The ZENEC Z-N965 is designed for vehicles with 1-DIN mounting slot provision and is optimally suited for deployment in most vehicles by the programmable SWC interface input or the IR-in, to connect an external CAN/SWC interface.



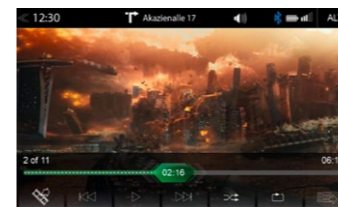
Apple CarPlay

Apple CarPlay is a smarter, safer and more entertaining way to use an iPhone in the car. With CarPlay, you can make phone calls, navigate, listen to music, and access messages with Siri voice control.



FM RDS tuner

The radio receiver of the Z-N965 has an FM RDS tuner with integrated DSP that ensures a better, clearer sound quality when FM station signals are rather weak, thanks to interference noise masking. The radio stations can be stored in 18 station presets.



State of the art media compatibility

The Z-N965 supports playback from all the media files widely used today: MP3, M4A, FLAC, AAC (MP4A), WAV, AVI, MP4, H.264, MKV 1080p, MPEG1/2/3, MPEG2/TS, MPG, WMV, XVID.



Subwoofer audio setup menu

Passive subwoofers driven by a power amp or active subwoofers can be integrated into a system concept, using the Subwoofer setup menu. A low pass filter with 12 dB/oct. acts on the subwoofer RCA line-out (OFF, 65 Hz, 80 Hz, 100 Hz, 125 Hz, 160 Hz), adjustable gain from -6 dB to +6dB and switchable phase (0°/180°) round-out the adjustment options.



Adjustable Display

The Z-N965 features an display adjustment mechanism, which provides adjustability of the display tilt angle (+5° to -20°) and display height (+40 mm to -20 mm) after device mounting is completed. Which ensures an optimum display position in every vehicle cockpit.



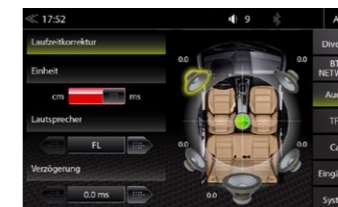
Capacitive 22.9 cm/9" screen

The capacitive 22.9 cm/9" LCD TFT touchscreen with glass panel gives you accurate control with just a light touch. The TFT LCD screen is convincing for its high brightness level and excellent contrast range for brilliant video playback.



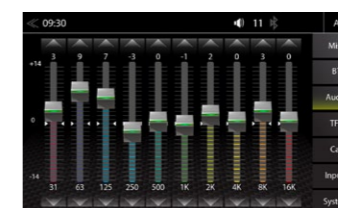
Bluetooth hands-free module

Hands-free calling with phonebook synchronization and search function for entries by first name and surname. The easy to edit favorites menu with speed calling is optimized for driving comfort, and offers echo canceling and other DSP filters for best speech intelligibility.



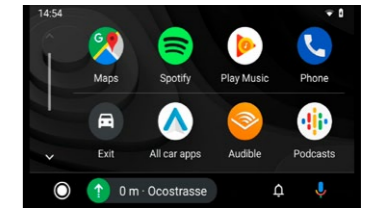
Time alignment by DSP

The Z-N965 has a 4.2 channel time alignment function with individually adjustable channels, to optimize the spatial image on the driver's seat. The distance to the loudspeaker can be set as a distance in cm or as sound travel time in milliseconds.



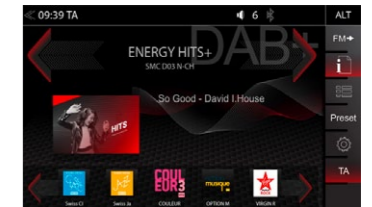
10-band graphic equalizer

With the 10-band graphic equalizer you can manually tune the sound exactly to the characteristics of your vehicle, or to your personal preferences. You can also select a pre-defined EQ profile from a list of available options.



Google Android Auto™

The Z-N965 is Google Android Auto certified. With GAA you are able to access compatible apps and online services of your Android smartphone in your vehicle and operate them intuitively with the display of the ZENEC device or the voice assistant from Google.



High-sensitivity DAB+ tuner

The integrated, highly-sensitive DAB+ twin tuner features various comfort functions like MOT Slideshow, DLS text, DAB<->FM / DAB<->DAB Service-Following and dynamic station list. Aside of the easy tuner operation, a stable and totally clear digital radio reception is guaranteed.



Connection of three cameras

The Z-N965 allows the connection of three camera systems incl. switched power supply for each of them and reverse gear triggered audio input for the cam microphone. The cams can be manually controlled via touchscreen or the cam hard key button. You have the option of displaying configurable grid lines for better estimation of the distance.



Active crossover for front + rear speakers

For the connection of external power amplifiers via RCA line-outs, and for the front and rear speakers driven by the device internal amp: An active high pass filter with 12 dB/oct. (OFF / 50 Hz / 65 Hz / 80 Hz / 100 Hz / 125 Hz / 160 Hz) provides for a clean transition to the subwoofer or removes bass frequencies from the main speakers.



Smartphone app for audio functions

Using the smartphone ZENEC SP-REM app for Android and iOS smartphones, you can conveniently control the audio playback functions of the Z-N965 directly from your smartphone. The app remote displays audio meta-data such as track info, station names and VOL level.