



Company:

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ZE-NC2051D

Car Specific Naviceiver

Compatible with VW T5 Multivan | T5 California



ZENEC E>GO ZE-NC2051D – Perfect Integration Into Your VW T5

In 2008, ZENEC brought the first E>GO onto the market, thereby immediately establishing a completely new category of device: the vehicle-specific naviceiver. Today, ZENEC is the undisputed market leader in the German speaking area for in-car multimedia navigation devices. And with the new product range there are E>GOs to fit into over 40 models of vehicle.

E>GO – clever design, perfect system solution

The E>GO concept, honored with two innovation prizes, is a system solution without equal for realizing in-car multimedia and navigation in an ingeniously simple way: E>GOs are a perfect fit – visually and technically – in the respective target vehicle, without additional bezels, adapters and hours of installation work. Of particular importance is the perfect integration into the existing vehicle electronics. And this is not just the interface with the steering wheel remote control. E>GOs are designed to integrate into the vehicle internal CAN data network in a really uncomplicated way. Instead of a bunch of compromises, you get a specifically designed system solution. Straightforward installation, an immense range of functions and an ingeniously simple concept of operation – that makes E>GO so exceptional and so successful.

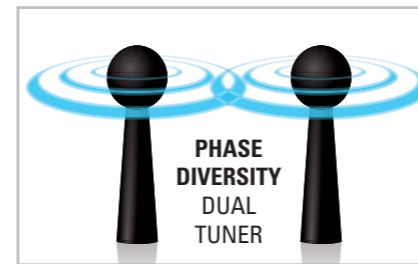
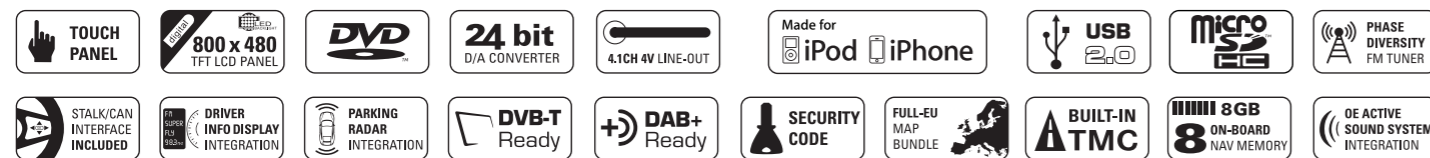
With the knowledge of the peculiarities and specific pitfalls of the individual vehicles in the background, the third E>GO generation now lines up. Perfectly matched to the respective target vehicles, they come with a high-resolution digital touch panel, many innovative features and, key for ZENEC, a simplified ease of use.

E>GO ZE-NC2051D – custom-fit to your VW T5

The ZE-NC2051D is a smart specialist, specifically developed for your VW T5. The specific construction, red button illumination and customized styling of the front panel makes ZENEC's top naviceiver blend in perfectly with the VW models T5 Multivan and T5 California.

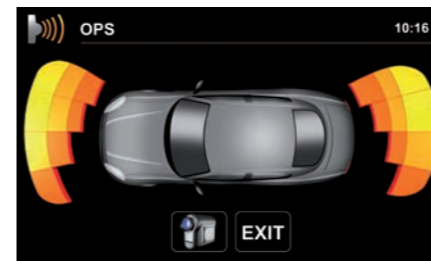
The ZE-NC2051D is also effortlessly integrated into the existing automotive electronics. The E>GO is linked to the steering wheel remote control, the Multifunction Display (MFD+, MFD Premium), Optical Park System (OPS), and the Climatronic control status via the vehicle-specific CAN bus interface. The full functionality of factory in-stalled components remains intact. The ZE-NC2051D is suited for installation into the radio slot of the above named automobiles without further modifications or additional adapters: simply take out the factory radio, put in the E>GO and drive off...

Features



Phase Diversity FM Dual Tuner

The dual tuner of the E>GO is working with an FM phase diversity circuit that processes the signals of the two antennas built into the vehicle. A DSP algorithm generates the desired noise and distortion free FM signal by merging both captured radio signals into a new audio stream – you always enjoy optimum radio reception, even under difficult conditions.



Parking sensors

Perfect integration into each target vehicle – data present in the CAN net for factory installed parking radar sensors is read, processed and displayed via the ZENEC OPS (Optical Parking System) on the touchscreen of the E>GO.



All-round information

Thanks to the infobar function, you will be notified of incoming calls and/or audio features without leaving the navigation mode. In other playback modes there is also a navigation infobar to keep you updated when to take the next turn or exit.



24-bit D/A converter

Whether you enjoy playing your songs from CDs or as MP3 tracks via an iPod, the ZENEC E>GO has a 24-bit digital/analog converter for high signal-to-noise ratios and finest possible resolution of digital audio formats.



Steering wheel remote control integration

The ZE-NC2051D is connected via the vehicle-specific CAN bus interface to the factory installed steering wheel remote control. Audio and Bluetooth functions are operated in identical fashion as with the OE radio before. The multimedia functions of the steering wheel remote control remain intact.



A/C control status info integration

The status data of the Climatronic, if installed in the respective vehicle and present in the CAN net, are displayed as a Pop-Up info on your E>GO's touchscreen display during adjustment of any A/C related function.



Simple connection of iPod/iPhone

Connect your iPod or iPhone to the E>GO device via the USB port of the Media link box. The display of Apple Album Art is integrated in the iPod/iPhone menu. This menu also gives you the facility to search for a title or an artist alphabetically.



Easy parking and maneuvering

You can also easily connect a rear-view camera to the E>GO and conveniently control it via the touchscreen. The extensive ZENEC range of accessories offers you a large selection of different models like vehicle-specific cameras for your car.



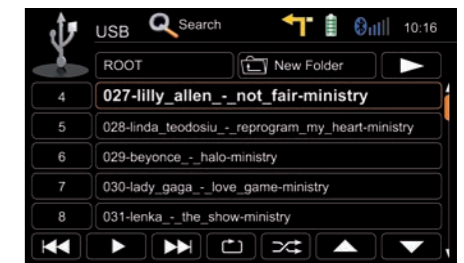
Multifunction Display

E>GO is a perfect fit: The ZE-NC2051D also supports the Multifunction Display (MFD+ and MFD Premium), that is connected to the CAN bus. Displayed are turn key arrows, as well as radio station and track infos from all audio sources.



Optimized ease of use

The clearly designed menus are self-explanatory and intuitive to operate. Large control fields and a logically structured navigation ensure that the E>GO can also be controlled in safety when you are driving.



Easy folder management

The folder structures of your iPod/iPhone and also that of the files stored on your USB stick are completely adopted by the E>GO. Thus you have access to your files at all times without excessive search actions.



Individual entertainment

You want to listen to the radio while the backseat passengers enjoy a video on the head rest monitor with head phones? The E>GO is designed for M-Zone operation. This allows the front and rear channels to be split for the transmission of two different program sources.



Your Perfect Navigator

ZENEC's new E>GO has the latest maps of 43 European countries pre-loaded (with Premium POIs), which appear highly realistic, thanks to the 3D high-definition rendering of terrain and 3D objects. With 8 GB of flash memory, more than enough memory remains free for continuous expansion and unlimited updates of map packages with 3D buildings and landscape features.

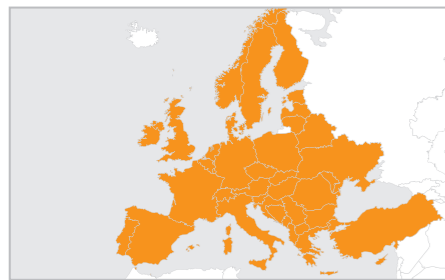
ZENEC's innovative navigation software makes the destination and route selection even easier and more intuitive. The quick menu provides straight access to all sat nav functions. The "Smart" and "Eco" route calculation modes for shorter and/or more economical driving are hard to beat.

Features like the new Real Junction View function, the Lane Assistant or

the Auto Zoom at crossings and junctions facilitate orientation in more complex traffic situations. Part of the extensive feature set is the display of traffic information/guidelines when entering an EU country and the visual and audible warning to indicate speed limits on major roads.

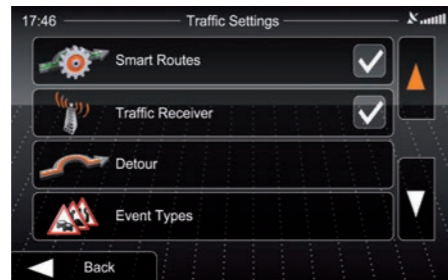
The TMC/TMC Pro function keeps you up to date regarding potential traffic jams on the chosen route, while automatic re-calculation of a suitable detour is a function covered as well.

You can update the E>GO's content package, expand the navi-section with additional maps, or download the newest 3D city maps using the www.zenec.naviextras.com portal: anytime, even in the middle of the night or abroad during a journey.



Navigate through Europe the clever way

Detailed maps of 43 countries in Western and Eastern Europe give you perfect orientation throughout Europe. For menu and voice navigation there are 28 different languages to choose from.



TMC/TMC Pro

The TMC or TMC Pro function gives you timely information about traffic jams on your route and possible detours. Simply choose the appropriate menu to select and show all the relevant data on the map display.



Latest Map Guarantee

ZENEC's 30-day Latest Map Guarantee: If updated maps are available within 30 days of your first use of the device, you can download them from www.zenec.naviextras.com for free and install them on your ZENEC device.



High-resolution 3D maps

The high-resolution WVGA display of the E>GO ensures that all maps appear pin-sharp. 3D orientation points and very realistic 3D city maps make navigation in big cities even more comfortable for you.



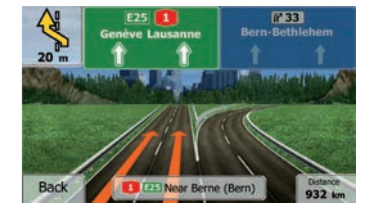
Topographic maps

Realistic 3D landscape views lead you through complex terrains. Choose between different designs for day and night. Thanks to GPS time acquisition, the E>GO can also automatically switch between day and night modes.



Text-to-Speech

The E>GO also displays the names of crossroads. And if you wish, it will read out the street names to you, thanks to the integrated Text-to-Speech function – in this way you can concentrate fully on the traffic while driving.



Real Junction View

Features like the new photo-realistic Real Junction View of exit points on free-ways, the Lane Assist and the Smart-zoom function at junctions and exit points facilitate orientation, particularly in complex traffic situations.

Navigation Features

- Integrated 3D High Definition navigation, pre-installed map data for 43 eastern and western European countries
- 8 GB internal flash memory for navigation software – the SD/SDHC card slot stays available for A/V use
- Integrated TMC and TMC Pro receiver, TMC service is functional and free, the TMC Pro function requires a license (lifetime) to be separately purchased through Naviextras (available for Germany, UK and France only)
- Graphical user interface and voice guidance in 28 different languages
- Premium POI database
- 2D or 3D map view with auto-zoom and realistic display of 3D terrains and 3D landmarks
- Text to Speech function (TTS)
- Eco and Smart Route Planning

- Smart-zoom function at intersections and crossings
- Tunnel mode
- Real Junction View and highway mode with Real Signpost rendering
- Outlook address import
- "Where-Am-I" function
- Trip computer: configurable display of three additional pieces of information, with the choice of arrival time, journey time, speed, direction, height above sea level, etc.
- display of traffic information/guidelines when entering an EU country
- visual and audible warning to indicate speed limits on major roads
- 30 days Latest Map Guarantee
- Map updates via the online-portal: www.zenec.naviextras.com
- external GPS antenna included in the delivery



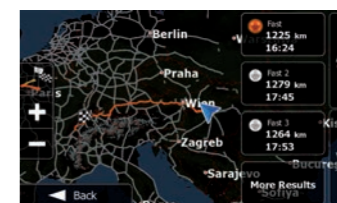
Reach Points Of Interests fast

The E>GO has a Premium POI database with more than six million entries. Using the well designed search menu makes it easy to select special destinations.



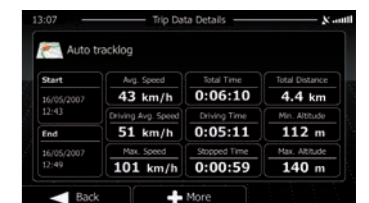
Intelligent destination input

To enter a destination, you need to enter only a few letters – the E>GO completes your input and automatically proposes appropriate destinations.



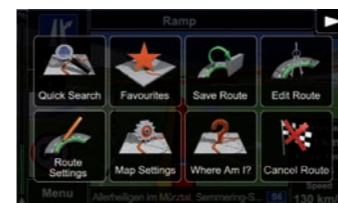
Intelligent route planning

So that you can optimize the route exactly as you want, you have a choice between various route calculation methods: short, fast, Eco and easy.



Practical trip computer

The trip computer gives you a summary of the most important trip data, such as your average speed, arrival time or real travel time to destination.



Where Am I? function

Included in the function package is the display of advisories when crossing EU borders, together with various warning messages: information on speed limits, legal alcohol limits, duty to wear a warning waistcoat etc.



Informed in timely manner

Have you saved important contacts on your computer in MS Outlook? You can easily import these contacts directly into the navigation software of the E>GO by using the Naviextras Toolbox.



Importing your Outlook contacts

Via the online portal www.zenec.naviextras.com, you can update the pre-installed map packages at any time or upgrade it as you wish. Naviextras offers a large selection of maps for more than 75 countries.



Flexible map updates

Via the online portal www.zenec.naviextras.com, you can update the pre-installed map packages at any time or upgrade it as you wish. Naviextras offers a large selection of maps for more than 75 countries.



Wireless communication via Bluetooth

ZENEC's naviceiver enables comprehensive connectivity and the convenience of operating a Bluetooth-capable mobile phone. The E>GO is equipped with a high-tech Bluetooth module from Parrot, the specialist for mobile communications – a hands-free unit, that guarantees you a wide range of functions and maximum compatibility with many mobile phone models.

Make calls without noise interference

With ZENEC you can make phone calls in excellent quality – either using the integrated microphone or the multi-directional, freely positionable, external microphone supplied with your E>GO. Thanks to the innovative audio DSP, unwanted ambient sounds are filtered out more efficiently, to offer improved intelligibility.

Easy to operate

Parrot makes for very easy operation when driving. The caller's number, phone book entries and other information are clearly shown on the naviceiver's display. The address book of the naviceiver is automatically synchronized with the mobile phone as well. You can easily search

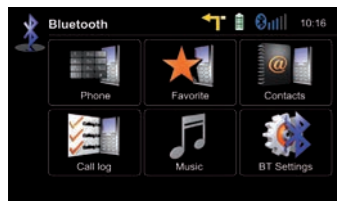
for phone book entries – simply tap in the initial letters of the contact you want to dial. This search function is really an enormous benefit for professional use. Even special characters are no problem thanks to the multilingual keypad.

Bluetooth always up to date

The firmware of the Bluetooth component can be conveniently updated using a USB stick, for example if you would like to use a brand new mobile phone model. Thus, the palette of compatible mobile telephones can be expanded, keeping the device future proof.

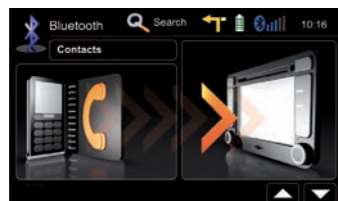
Bluetooth Features:

- Connection of up to 5 mobile phones
- synchronization of up to 1,000 contacts with max. 5 telephone numbers per contact
- alphabetical search function for contacts
- multilingual input keypad, including special characters and special letters
- Quick Dial menu for up to 5 favorite contacts
- memory for dialed and received calls
- redialing
- switch between hands-free and mobile phone
- internal and external microphone
- future-proof upgradable Bluetooth firmware



Making calls in the car in comfort

Use the clear Bluetooth menu to comfortably control all telephone functions – a touch is all it takes to transform your car into a telecommunications center.



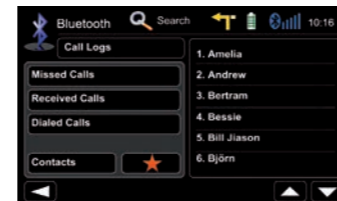
Easy connections

You can connect up to 5 mobile phones to the E>GO, each having 1,000 contacts. The address book of your mobile synchronizes with the E>GO automatically.



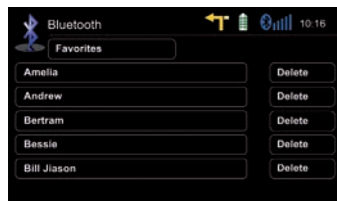
Fast contact entry search

The alphabetic search function makes the finding a contact easier: simply tap in the initial letters. You can search using up to 15 initial letters.



Comfortable contact management

You can search for a contact in the phonebook or in the favorites list. But you can also display the list of outgoing/incoming or missed calls.



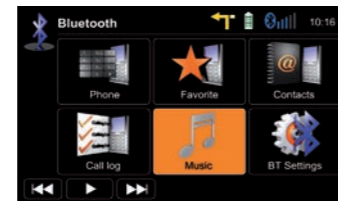
Quick-Dial menu

Phone numbers that you use frequently can simply be saved as favorites – so you have fast access to your most important contacts at all times.



No missed calls

The E>GO Bluetooth system allows broker calls so that you can conveniently switch back and forth between two active telephone calls.



Music over your mobile phone

Music stored in your mobile phone can be played back over the E>GO thanks to A2DP and AVRCP. The playback is comfortably controlled via the touchscreen.



Clear management

With the E>GO you never lose track: at a glance you can see all the connected mobile phones and manage these conveniently via the touchscreen.



Navigation navigate by touchscreen fast and comfortably in 43 European countries (including eastern Europe)	DVD player plays CD, CD-R/RW, MP3, WMA, DVD, DVD±R/RW, DVD-MP3, AVI, Xvid and JPEG	RDS tuner with automatic station search, 30 station memory (18 FM/12 AM) and best station memory	USB USB direct connection via Media link box (included in the delivery), operation via touchscreen	Camera rear view camera input, manually or automatically activated by putting the car in reverse	iPod/iPhone iPod/iPhone direct connection via optional cable, operation via touchscreen (also for iPod/iPhone video)
microSD/SDHC card reader integrated microSD/SDHC card reader to play video files, music, etc., SDHC compatible up to 32 GB	Bluetooth/A2DP integrated Parrot Bluetooth module for hands-free operation and audio streaming, upgradable firmware	A/V input A/V port (RCA) for the connection of other external A/V devices like gaming consoles, etc.	M-Zone separate A/V playback zones divided into front and rear seat entertainment	Xvid Xvid is the container format of choice. Over 90% of present-day AVI files are encoded with Xvid.	Security code intelligent anti-theft protection based on software monitoring of the power supply

Connection Options: Limitless Connectivity

Due to the integrated USB port and the various A/V in and outputs, there is almost nothing that cannot be connected to the E>GO naviceiver. The ZENEC program has a wide palette of multimedia-based additional components that are optimally suited to the E>GO naviceiver. All equipment – external monitors, DVB-T and DAB+ receivers or rear view cameras – can be connected directly to the naviceiver and operated via touchscreen.



Media Link box

Especially practical: The delivery scope of the E>GO contains the compact Media link box with a high-speed USB 2.0 port and an A/V input (3.5 mm plug). With this compact box (with 1.5 m cable extension) to be stowed away in a convenient place like the centre console or the glove box, you can quickly connect or disconnect additional components like a USB stick, an iPod/iPhone or external MP3 player.



Connection of iPod/iPhone

iPod and iPhone can be connected to the Media link box with the adapter cable ZE-NC-IPS (available separately). This connection, using the USB high speed bus, not only allows for quick access to all files, but also the control of audio tracks, videos or Podcasts via the naviceiver's touchscreen. Naturally the iPod and iPhone are being charged during playback.



Rear-view cameras

The ZENEC product range includes many diverse additional components perfectly matched to each other. For example, the E>GO rear-view cameras. These replace the original license plate illumination unit of the vehicle and add a high-resolution camera. The E>GO cameras are easy to install and are triggered automatically when reverse gear is engaged.

Main Features ZE-NC2051D

GPS NAVIGATION SYSTEM

- 3D High-Definition navigation system
- TMC and TMC Pro receiver
- External GPS antenna
- 8 GB internal flash memory with map data for 43 Eastern and Western European countries and Premium POI database
- Graphical user interface and voice guidance in 28 different languages
- 2D or 3D map view with auto-zoom and display of 3D terrains and 3D landmarks
- Eco and Smart Route Planning, Outlook address import, Real Junction View and Real Signpost rendering etc.
- Text to Speech function

PARROT BLUETOOTH HANDS-FREE MODULE

- Synchronization of up to 1,000 contacts with max. 5 telephone numbers per contact
- Alphabetical search function for contacts
- Internal and external microphone
- Future-proof upgradable Bluetooth firmware

MULTIMEDIA PLAYER

- DVD loader
- USB 2.0 port (via Media Link box)
- microSD/SDHC card reader (up to 32 GB)
- Made for iPod/Made for iPhone
- Playback DVD loader: CD, CD-R/RW, MP3, WMA, DVD,

- DVD±R/RW, DVD-MP3, AVI, Xvid and JPEG
- Playback SD/USB: MP3, WMA, AVI, Xvid, H.264 and JPEG

GENERAL FEATURES

- Intuitive, user friendly HMI in 20 different languages
- 6.5"/16.5 cm 16:9 HD TFT-LCD display with 800 x 480 pixels resolution and touchscreen control
- RDS tuner with 30 preset stations (18 FM/12 AM)
- Multi zone function
- 4 x 50 watts class-D amplifier
- 2 x IR-remote control

A/V-CONNECTIONS

- 4.1-CH preamp line outputs
- 2-CH preamp line outputs without volume adjustment
- 2 x composite video outputs (NTSC)
- 1 x A/V-input
- 1 x video input for rear view camera with switching function
- Connectivity for compatible external DVB-T or DAB+ receivers

BRAND/VEHICLE SPECIFIC FEATURES

- Steering wheel remote control integration via CAN
- Multifunctional display (MFD+, MFD Premium) integration via CAN*
- Optical Park System (OPS) integration via CAN*
- Climatronic control status, integration via CAN*
- DYNAUDIO Soundsystem integration
- Red key illumination

*Functionality only provided if feature specific CAN Data present.

Vehicle Compatibility List

Model	Type	Model Year
VW T5 Multivan	Comfortline; PanAmerica, Match, Highline, BlueMotion*, Edition25, Special, Business	as of 2010
VW T5 California	Comfortline, Europe	as of 2010

The physical dimensions of the OE radio have to be identical with the dimensions of the ZENEC device, to allow installation. The vehicle must be fitted with a phase diversity antenna system. *Depending on the vehicle configuration, the dash board shape may vary. In such cases, the general physical requirements for device fitting apply.