

# DNX520VBT

7.0" wide VGA 2-DIN navigation system for Volkswagen

# KENWOOD

Listen to the Future



<b>RAC WMA MP3 WAV</b>	<b>TMC Inside</b>	<b>FRONT USB AV in</b>	<b>Steering wheel remote option</b>
<b>DVD_VR/±R/RW</b>	<b>Skin Change</b>	<b>1AV in (R-CAM) 1AV out</b>	<b>Front USB terminal</b>
<b>NAVI Inside</b>	<b>MPEG 1/2 JPEG</b>	<b>50W X4 MOSFET</b>	<b>Front AV input</b>
<b>TOUCH PANEL</b>	<b>Multi -Language Text &amp; Tag</b>	<b>2V 3 PREOUTS</b>	<b>IR Remote Sensor</b>



## Highlights

- ⇒ Especially designed for Volkswagen
- ⇒ Built-in Garmin navigation system with TMC tuner
- ⇒ Built-in bluetooth (Handsfree & SMS)
- ⇒ Front AV input & USB terminal
- ⇒ iPod direct control with optional cable KCA-iP240V

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## Features

### General features:

- 7.0 inch Wide VGA Colour TFT Active Matrix Display
- Number of Pixel: 1.152.000 pixels
- Back lighting: LED
- Rotary Encoder for smooth volume control
- GUI Color Coordinate with Variable Key illumination
- Multi language text & Tag (EN,FR,GE,IT,SP,PO,DU,GR,TU,RUS, ARAB,CHIN,HEBR,PERS & Thai)
- DVD Disc Menu Direct Touch Operation (Highlight Control Mode)
- Background Customize
- TV Ready with Optional TV Tuner Unit (KTC-V301E, KTC-D500E)
- Remote Sensor for Optional Remote Control Unit (KNA-RCDV330)
- OEM Wired Remote Interface

### Audio /Video Features:

- Maximum Output Power : 50W x 4 (MOSFET Power IC)
- 3 Preouts (Front, Rear, Sub)
- Front AV mini-jack Input
- 1 RCA AV Output
- 1 RCA Video Input for AV input or Rear View Camera
- Video Input Signal Automatic Detection Mode (Normal/ AUTO)
- System E's+ (Built-in HPF/LPF)
- System Q-Ex
- Dual Zone Source & Volume Control
- Attenuator(-20dB) with Smooth Volume Return
- Installer & Backup Memory (Store & Backup Audio & Video Settings)

### Navigation Feature:

- Built in Garmin Navigation Board with V.12 Map
- High Sensitivity GPS Receiver
- TMC (Traffic Message Channel) Built-in
- Navigation update by SD-card
- External GPS antenna
- Eco Route Function
- Lane & junction view

### USB Features:

- Front USB Interface
- WAV, AAC, WMA, MP3 Decoder with ID-3 Tag Display
- MPEG 1/2 Video File & JPEG File & DivX Playback
- iPod direct control with optional cable KCA-iP301V

### Tuner Features:

- 24 Presets: 18 FM, 3LW/3MW
- RDS Tuner with radio text
- High-performance clean-reception K3I tuner
- Auto Memory Entry (AME)

### CD/DVD Features:

- DVD Video/±R/RW Playback
- MPEG 1/2 Video File & JPEG File & DivX Playback
- VCD Compatible
- 24-Bit D/A Converter
- WAV, AAC, WMA, MP3 Decoder with ID-3 Tag Display
- CD Text Ready
- CD-R/CD-RW Playback

### Bluetooth features

- HFP: Hands-free profile
- SSP: Serial port profile
- HSP: Headset profile
- OPP: Object push profile
- PBAP: Phonebook access profile
- SYNC: Synchronization profile
- SMS (receive & send)
- Supplied with rear wired microphone

## Specifications

### Monitor section

- Picture size: 7.0 inch (diagonal) (156,6 x 81,6mm (WxH))
- Display system: transparent TN LCD panel
- Drive system: TFT active matrix system
- Number of pixels: 1.152.000 (800H x 480V x RGB)
- Effective pixels: 99,99%
- Pixel arrangement: RGB striped arrangement
- Back lighting: LED

### Tuner section

- FM Frequency range (50 kHz space) : 87.5 MHz ~ 108.0 MHz
- FM Usable sensitivity (S/N = 26dB) : 0.7  $\mu$ V/75  $\Omega$
- FM Quieting sensitivity (S/N = 46dB) : 1.6  $\mu$ V/75  $\Omega$
- FM Frequency response ( $\pm$ 3.0 dB) : 30 Hz ~ 15 kHz
- FM Signal to noise ratio (MONO) : 65 dB
- FM Selectivity (DIN) ( $\pm$ 400 kHz) : 80 dB
- FM Stereo separation (1 kHz) : 35 dB
- MW Frequency range (9 kHz space) : 531 kHz ~ 1611 kHz
- MW Usable sensitivity (S/N = 20dB) : 25  $\mu$ V
- LW Frequency range : 153 kHz ~ 281 kHz
- LW Usable sensitivity (S/N = 20dB) : 45  $\mu$ V

### DVD player section

- D/A Converter : 24 Bit
- Audio decoder: Linear PCM,Dolby digital,dts,MP3, WMA,AAC,WAV
- Video decoder: MPEG1/MPEG2/DivX
- Wow & Flutter : Below measurable limit
- Frequency response: - Sample frequency: 96kHz: 20 Hz ~ 44 kHz  
- Sample frequency: 48kHz: 20 Hz ~ 22 kHz  
- Sample frequency: 44,1kHz: 20 Hz ~ 20 kHz
- Total harmonic distortion (1 kHz) : 0.01 %
- Signal to noise ratio: 98 dB (DVD-Video 96kHz)
- Dynamic range: 98 dB (DVD-Video 96kHz)
- Disc format: DVD-video, Video-CD, CD-DA
- Sample frequency: 44,1 / 48 / 96kHz
- Quantifying bit number: 16 / 20 / 24 bit

### USB section

- USB standard: USB 2.0 full speed
- File system: FAT 16 / 32
- Maximum power supply current: 500mA
- D/A converter: 24 bit
- Audio decoder: MP3, WMA, AAC, WAV
- Video decoder: MPEG1, MPEG2, DivX

### Video section

- Color system of external video input: NTSC / PAL
- External video input level (mini jack): 1 Vpp / 75  $\Omega$
- External audio max input level (mini jack): 2 Vpp / 25k $\Omega$
- Video output level (RCA jacks): 1 Vpp / 75  $\Omega$
- Audio output level (RCA jacks): 1,2 Vpp / 10k $\Omega$

### Audio section

- Maximum output power : 50 W x 4
- Output power (DIN 45324, +B=14.4V) : 30 W x 4
- Preout level / load (during disc play) : 2000 mV/10 k $\Omega$
- Preout impedance : under 600  $\Omega$
- Speaker impedance : 4 ~ 8  $\Omega$
- Tone control: - Bass : 100 Hz  $\pm$ 8 dB  
- Middle : 1 kHz  $\pm$ 8 dB  
- Treble : 10 kHz  $\pm$ 8 dB

### Navigation section

- Reception frequency: 1575,42 MHz (C/A code)
- Acquisition times: cold: <38 seconds  
Factory reset: <45 seconds
- Accuracy: position: <10 meters typical  
Velocity: 0,05 m/sec RMS

### Bluetooth section

- Bluetooth Ver 2.0 certified
- Frequency 2.402 ~ 2.480 GHz
- Output power: +4dBm(max), 0dBm(AVE), power class 2

### General

- Operating voltage (10,5 ~ 16V allowable) : 14.4 V
- Maximum current consumption : 15 A
- Installation size (W x H x D) : 182 x 100 x 150 mm
- Weight : 2,1 kg