KW-NT810HDT

Bluetooth® Wireless Technology/HD Radio™ with TTN + DVD/CD/USB/SD Navigation with 7-inch Touch Panel Monitor

KW-NT510HDT

Bluetooth® Wireless Technology/HD Radio™ with TTN + DVD/CD/USB/SD Navigation with 6.1-inch Touch Panel Monitor

DESIGN & ENGINEERING SHOWCASE HONORS 2013 INNOVATIONS INTERNATIONAL CES

Made for iPod iPhone

Variable Color illumination

Touch Panel

7" WVGA

6.1" WVGA

0.3 mi | Mckee St | TTN | 10:40 AM | 8.4 mi 10:54 AM | 200 ft | 10 | Quick menu | I-10 E / US-90 E | SD | A·V MAP MENU | SRC

150 ft | 101 US-101 N / Central Fwy | TTN | 10:35 AM | 8.0 mi 11:02 AM | 101 Golden Gate Br | SPEED LIMIT 50 | SD | 0.2 mi

MAP MENU A·V AUX

HD Radio®

This HD Radio receiver enables:

- PSD
- HD2/HD3
- Bookmark
- Instant Info
- Active Radio
- Digital Sound
- Digital Traffic
- Channel Guide
- iTunes Tagging
- Artist Experience

| High-Speed LSI | 8GB SSD | Voice Guidance English/Spanish/French | Text-to-Speech | Over 8 Million POI | HD Radio® Traffic & News Service | Music Playback with BlackBerry® |
| Multiple Destination Search POI/Address/Favorites/etc. | Junction View | 3D Viewing 3D Footprint 3D Scroll 3D Landmark | Digital Signal Processor with Time Alignment | Sound Setting 13EQ/Crossover | | |

iHeartRADIO | HD Radio® | SiriusXM READY | Works With PANDORA® | Bluetooth® | SD™ (KW-NT810HDT) | microSD™ (KW-NT510HDT)

Total Traffic CONNECT | Total Traffic + HD NETWORK | NAVTEQ MAPS. | NUANCE | NaviBridge | COMPACT DISC DIGITAL AUDIO TEXT | DVD VIDEO | DOLBY DIGITAL

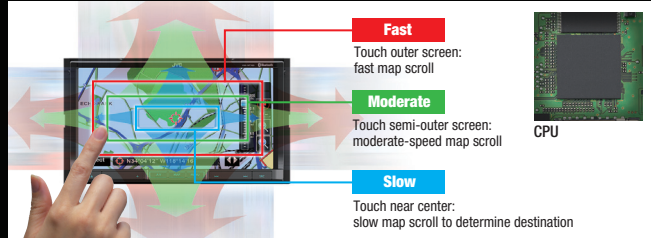| GIGA MP3 MULTI MP3/WMA/WAV | MOS-FET 50W x 4 | iTunes Tagging | Multilingual Display | External Mode for iPod/iPhone | iPod ◄► Headunit 2-Way Control for iPod/iPhone | USB High Speed 1.0A Support | Drive Change Mode | Front AUX AUDIO (KW-NT510HDT) |

Recommended Features

| Built-in Bluetooth® Wireless Technology | Phone Book Access Profile | Audio Streaming & Control | Multiple Phone Pairing (Up to 5 Phones) | Built-in HD Radio Tuner | SiriusXM Ready | Rear-View Camera Ready | Steering Wheel Remote Ready | 3 Pre-Output (Front+Rear+Subwoofer) |

Quick Response and Operation

High Speed CPU, 8GB Solid State Drive (SSD), and JVC-original S3 format data compression all work to create a speedy response for navigation.
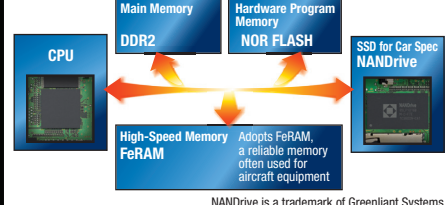
❋ High-Speed Data Processing LSI

New LSI processes data 2 x faster than previous model.

Fast
Touch outer screen: fast map scroll

Moderate
Touch semi-outer screen: moderate-speed map scroll

Slow
Touch near center: slow map scroll to determine destination
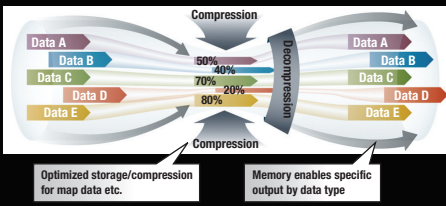
CPU

❋ 8GB Solid State Drive (SSD)

SSD provides instant startup and quick map display, with high-durability for the in-car environment.

Total system structure consisting of SSD, CPU, and various memories enable speedy processing.

CPU

Main Memory DDR2 | **Hardware Program Memory** NOR FLASH | **SSD for Car Spec** NANDrive

High-Speed Memory FeRAM — Adopts FeRAM, a reliable memory often used for aircraft equipment

NANDrive is a trademark of Greenliant Systems

❋ S3 Format Data Compression System

JVC-original efficient compression provides speedy response for a large database.

Compression | Decompression

Data A Data B Data C Data D Data E | 50% 40% 70% 20% 80% | Data A Data B Data C Data D Data E

Compression

Optimized storage/compression for map data etc. | Memory enables specific output by data type

JVC MOBILE ENTERTAINMENT

<Navigation>

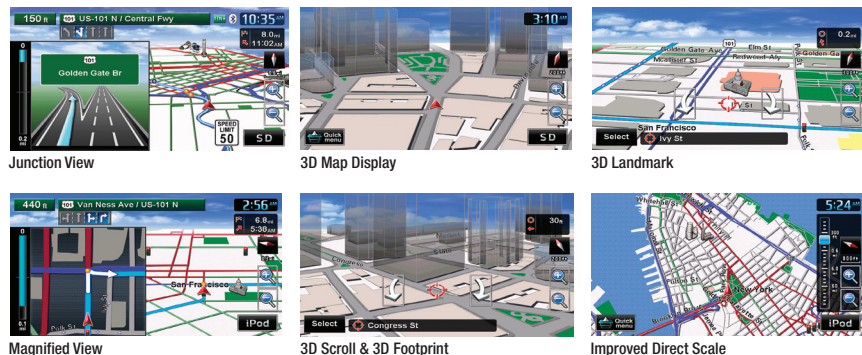# Clear and Dynamic Map Display Features

✳ Multiple Map Display

Map display options such as Junction View and 3D View are also available.

Junction View

3D Map Display

3D Landmark

Magnified View

3D Scroll & 3D Footprint

Improved Direct Scale
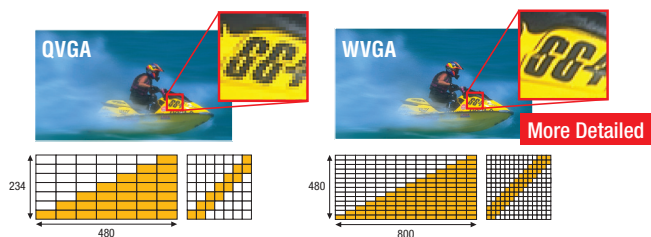
✳ Clear Map Display

The display is optimized for WVGA, with clear map images and easy-to-read map text.

Clear Map Text

✳ WVGA Monitor

The 6.1-inch/7-inch WVGA LCD panel features 4 times more pixels than the QVGA, offering comfortable viewing with clear and bright display for images, GUI, and especially maps.

WVGA

QVGA

WVGA

More Detailed

234
480

480
800

✳ 2-Way Tilt (KW-NT810HDT)

The screen can be tilted forward or backward for best view.

Reverse Tilt

Setting Screen

✳ Off-Axis Viewing (KW-NT510HDT)

This function provides higher contrast for better viewing when the unit is installed at an angle.

Setting Screen

Viewing Angle

Multiple Search Function

✳ POI Search

Over 8 million POI data from NAVTEQ are available for POI Search.

✳ HD Radio (Navigation)

Lifetime Subscription Included

- **Traffic & Travel Information**
  Obtain real-time traffic, local weather information etc. over HD Radio.

- **Total Traffic Connect**
  The same information is available via 3G network, even outside HD Radio coverage area.

- **Active Radio**
  Automatically interrupts normal programming when an emergency alert is received.

Total Traffic+
HD NETWORK

TotalTraffic
CONNECT

Active Radio

✳ Multiple Destination Search Functions:

Various options are available for destination search.

- Search by POI (Name/Vicinity/Phone Number)
- Search by Address
- Search by Coordinates
- Search by Previous
- Search by Favorites
- Search Home

✳ Destination Memory:

The unit can memorize destinations and via points.

- 300 Favorite Destinations
- Last 50 Destinations

✳ Multiple Route Options:

Search the route according to your preference.

- Fastest/Shortest/Freeway Route
- Avoid Freeway/Ferry
- 4 via Points

✳ NaviBridge (iPhone®/Android™ App)

When you connect your smartphone with the "NaviBridge" application installed to the system, you can manipulate the map, search and set destinations on the system using the smartphone screen.

NaviBridge

- **Smartphone as Navigation's Remote Control**
  The app lets you control the unit's navigation screen from your smartphone.

iPhone® (via USB)

Android™ (via Bluetooth®)

- **Cooperative applications for more fun and convenience!**
  Destinations found using various cooperative operations can be transferred to NaviBridge with a single touch. Easily set it as the destination for your JVC car navigation.

Affiliated apps

AroundMe

Localscope

SF 1911

World Heritage Map

<Audio>

Internet Radio / HD Radio

✴ iHeart Link for JVC
Listen to iHeartRadio via the smartphone app.
Control and album artwork are available on the headunit, via USB connection for iPhone®, and via Bluetooth® for Android™ devices.

iPhone® (via USB)   Android™ (via Bluetooth®)

✴ Pandora Control for Smartphone
Enjoy Pandora Radio from your smartphone with smooth control on the headunit, via USB connection for iPhone®, and via Bluetooth® for Android™ devices.

Works With **PANDORA®**

iPhone® (via USB)   Android™ (via Bluetooth®)

✴ Built-in HD Radio – iTunes Tagging, Artist Experience, Bookmark, Channel Guide, and Instant Info.
Enjoy a multitude of HD Radio programs in premium digital sound, without external tuners. FM radio sounds equivalent to CD quality, and AM as good as normal FM. Artist Experience displays song/album title and artwork if available from the radio station. Additionally, iTunes Tagging lets you "tag" songs you hear on HD Radio for easy purchase at the iTunes Music Store. The new Bookmark feature with QR code displays song information without iPod/iPhone connection. To switch stations, just press the "List" key for the Channel Guide showing a list of live radio programs with frequency and station name.

How It Works: Bookmark

1 Press "Bookmark Song" key on headunit.
"Bookmark Song" key

2 Displays Bookmark Info screen with QR code.

3 Capture QR code with QR code reader app.
* Requires app download

4 Read QR code onto smartphone.

5 Song info available on smartphone.

> The receivers feature dual HD Radio tuners, letting you access navigation data such as traffic updates and weather conditions, while you enjoy HD Radio at the same time.

Clear and Realistic Sound (DSP)

✴ Customize the Sound for Your Car Environment
JVC-original high-performance Digital Signal Processor (DSP) is designed to create optimal sound onboard. Fine-tune the sound with Time Alignment, crossover setting, 13-Band EQ, and other features to best fit your car.

Time Alignment: User Customization

Position: Preset
Optimize the sound field for position

Position: Customize
Fine-tune the preset for your position

Custom setting available for users with particular taste

1 Set vehicle type
2 Set listening position
3 Can be customized

Preset EQ
6 presets + 4 user settings

13-Band EQ
Fine-tune the preset to your taste

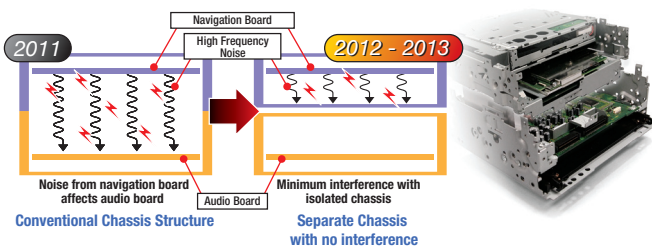**Sound Source Level Adjust**
Set volume by source

Crossover
High-pass for front/rear, and low-pass for subwoofer can be controlled separately

Audio Effect
Space Enhancer: Set listening space size
Sound Stage Elevation: Elevate sound image of lower speakers without the tweeter
Road Noise Compensation: Adjust sound according to car speed

Audio Contrast/ Digital Track Expander
Audio Contrast: Adjust sound sharpness for more clarity
Digital Track Expander: Compensate high-frequency for clear sound

✴ Separate Structure for Amplifier and DVD/Navi
The amplifier and DVD/navigation are housed in separate chassis to prevent interference, offering clear, rich sound with minimum noise.

2011
Navigation Board
High Frequency Noise
2012 - 2013

Noise from navigation board affects audio board
Audio Board
Minimum interference with isolated chassis

Conventional Chassis Structure   **Separate Chassis with no interference**

✴ High-Grade Parts Used for Quality Sound
Select parts support clear sound and high power for quality audio performance.

JVC-original back-up capacitor

50W x 4 MOS-FET amp for increased power

Original audio capacitor for bass booster

New DVD mechanism with reduced noise
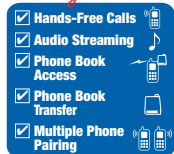
New low impedance amplifier

KW-NT810HDT *Bluetooth® Wireless Technology/HD Radio™ with TTN + DVD/CD/USB/SD Navigation with 7-inch Touch Panel Monitor*

KW-NT510HDT *Bluetooth® Wireless Technology/HD Radio™ with TTN + DVD/CD/USB/SD Navigation with 6.1-inch Touch Panel Monitor*

✺ Bluetooth® Compatible Functions

- **Phone Book Access Profile (PBAP 1.0)**
  No need to transfer your phone book. Simply call by direct access to the phone book on your iPhone or mobile phone.
  * Only available on Phone Book Access Profile compatible mobile phones.
- **Phone Book Transfer**
  You can transfer 500 numbers to the headunit.
- **Alphabetical Search for Phone Book**
  Easy alphabetical search on a large phonebook.
- **Audio Streaming & Control (A2DP1.2, AVRCP1.3)**
  Enjoy streamed music plus control from the headunit.
- **Internet Radio via Smartphone (A2DP1.2, AVRCP1.3)**
  Listen to internet radio programs via your smartphone app, with control available from the headunit.
- **Hands-Free Calls**
  Receive/reject calls or voice dial while keeping your hands on the wheel.
- **Multiple Phone Pairing**
  You can pair and easily switch between up to 5 phones.

So Many Features!
- ☑ Hands-Free Calls
- ☑ Audio Streaming
- ☑ Phone Book Access
- ☑ Phone Book Transfer
- ☑ Multiple Phone Pairing

Wired MIC included

✺ External Mode for iPod/iPhone

You can listen to the sound of iPod/iPhone apps, such as games, web radio, and YouTube, with high current power supply.

Speed Trap Area!

✺ USB Connection (iPod/iPhone)

Enjoy digital audio/video from your iPod, iPhone, or USB devices with high-speed 1A USB port providing playback and charging.

1A Support

*1 USB playback not supported for NTFS formatted devices. When partitions are created, only the first partition can be read.
*2 For iPod/iPhone video playback, KS-U49 cables are required. Please visit www3.jvckenwood.com/english/car/ for iPod/iPhone compatibility details.

✺ SDHC (KW-NT810HDT) / microSDHC (KW-NT510HDT) Compatible

The units are compatible with SDHC/microSDHC cards for audio and video playback.

✺ USB Hub Compatible

The units are compatible with USB hub for expanded connection.

Key Specifications

	KW-NT810HDT/NT510HDT
Maximum Power Output	50 + 50W (14.4V 4Ω)
AV Input	✔
Video Input (Camera)	✔
Line Pre-Output Terminals	3 (Front + Rear + Subwoofer)
Center Channel Output	-
Subwoofer Output with Level/Frequency Control	✔
Subwoofer Output Level	2.5V
Subwoofer Gain Control	-50 − +10dB
Composite Video Output	✔
Digital Output	-
Load Impedance	4Ω (4 - 8Ω)
Pre-Output Level/Impedance	2.5V/20kΩ Load (full scale)
Video Output	1.0Vp-p/75Ω
2nd Audio Output	-
Video Input	1.0Vp-p/75Ω
Audio Input	1.5Vrms/20kΩ

Monitor	
Screen Size	7" WVGA (KW-NT810HDT)/ 6.1" WVGA (KW-NT510HDT)
Number of Pixels	1,152,000
Color System	NTSC/PAL

Dimensions (W x H x D)

Installation Size	7 3/16" × 3 15/16" × 6 15/16"	182 × 111 × 175 mm
Panel Size	7 7/16" × 4 5/8" × 5/16"	188 × 117 × 7 mm

Navigation Feature Highlights

- On-Board SSD Navigation System (Whole map coverage preinstalled)
- High-Sensitivity WAAS Capable GPS • Coverage: United States, Alaska, Hawaii, Canada, and Puerto Rico
- Voice Guidance (English / Spanish / French) • Text-to-Speech (English / Spanish / French)
- NaviBridge (iPhone® / Android™ App) • POI (over 8 million: NAVTEQ) • HD Total Traffic Network+
- Multiple Destination Search Functions:
  Search by POI (Category / Name / Vicinity / Phone Number) / Search by Address / Search by Coordinates / Search by Previous / Search by Favorites / Search Home
- Destination Memory:
  300 Favorite Destinations / Last 50 Destinations / 4 via Points
- Multiple Route Options:
  Fastest / Shortest / Freeway Route, Avoid Freeway / Ferry
- Map Display:
  3D Landmark / 3D Scroll / 3D Footprint / Junction View / Magnified View / Lane Guide / Speed Limit Display
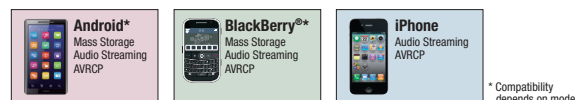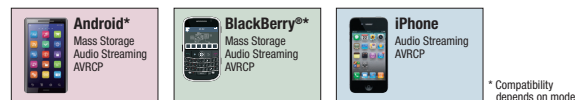- Quick Menu • Speed Alert • Adaptive Volume Control

Audio & Visual Feature Highlights

- MOS-FET 50W × 4
- Built-in 7-inch WVGA Monitor (KW-NT810HDT) / Built-in 6.1-inch WVGA Monitor (KW-NT510HDT)
- Touch Panel • Built-in Bluetooth® Wireless Technology*1 (Easy Connect [SSP], Phone Book Access Profile, Phone Book Transfer, Hands-Free Call, Audio Streaming, AVRCP, Alphabetical Search for Phone Book)
- USB Audio and Video for iPod/iPhone etc.*2 • 2-Way Control for iPod/iPhone*3 (Headunit/iPod or iPhone)
- External Mode for iPod/iPhone*2 • iTunes Tagging • Pandora Control for iPhone® / Android™
- iHeart Link for JVC • Rear USB Port (MP3/WMA/WAV/AAC*4/FLAC/WMV/H.264/AVC/MPEG-4/iPod & iPhone Audio) • USB 2.0 High Speed • USB 1A Power Supply
- Front SDHC/SD (KW-NT810HDT) / microSDHC/microSD (KW-NT510HDT) Slot*5 (MP3/WMA/WAV/AAC*4/FLAC/WMV/H.264/AVC/MPEG-4)
- MP3/WMA/WAV/AAC*4 Compatible (DVD/CD) • Built-in HD Radio (with HD TTN+) • SiriusXM Ready*6
- DiAS II Tuner • Dolby Digital
- Sound Settings:
  Time Alignment (DSP) / 13-Band iEQ / Preset EQ / Source Link EQ / Crossover Setting / Audio Effect (Road Noise Compensation etc.) / Digital Track Expander 2.0 (DSP)
- High-Pass Filter / Low-Pass Filter (30 - 250Hz, Slope -6/-12/-18/-24dB/Octave)
- 2.5V Line and Subwoofer Pre-Output Level • 3 Pre-Output Terminals (Front + Rear + Subwoofer)
- Subwoofer Control • Line Output (Video) • Line Input Terminals (AV + Video for iPod)
- Multilingual Display (English / Spanish / French) • Variable-Color Illumination • Steering Wheel Remote Ready
- Rear-View Camera Ready (Dedicated Terminal)

*1 Available functions depend on cell phone.
*2 KS-U49 cable required for iPod/iPhone video playback and External Mode. Compatibility depends on iPod/iPhone.
*3 Compatibility with 2-way control for iPod/iPhone differs by model.
*4 Not compatible wth DRM-protected music purchased from iTunes Store.
*5 Compatible with up to 32GB SDHC/microSDHC and up to 2GB SD/microSD.
*6 SXV200 required

KV-CM20K
Rear-View Camera (Optional)

Connections

Android* — Mass Storage / Audio Streaming / AVRCP
BlackBerry®* — Mass Storage / Audio Streaming / AVRCP
iPhone — Audio Streaming / AVRCP

* Compatibility depends on model

SiriusXM READY
KW-NT810HDT
Bluetooth®
SXV200
SD Slot
SDHC Card
Rear / USB
USB Cable
USB Memory
for Video Playback (KS-U49)
for iPod/iPhone
Rear Panel

Android* — Mass Storage / Audio Streaming / AVRCP
BlackBerry®* — Mass Storage / Audio Streaming / AVRCP
iPhone — Audio Streaming / AVRCP

* Compatibility depends on model

KW-NT510HDT
Bluetooth®
SiriusXM READY
Front
AUX-IN
SXV200
SD Slot
microSDHC Card
iPod Portable Audio Players
Rear / USB
USB Cable
USB Memory
for Video Playback (KS-U49)
for iPod/iPhone
Rear Panel