KENWOOD KTC-D500E

DIGITAL TV TUNER

Kenwood Corporation





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Safety precautions

AWARNING

 Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.

ACAUTION

- Make sure to ground the unit to a negative 12V DC power supply.
- Use only the screws provided or specified for installation. If you use wrong screws, you could damage the unit.
- If your vehicle's ignition does not have an ACC position, or if the ignition wire is connected to a power source with constant voltage such as a battery wire, the power will not be linked with the ignition (i.e., it will not turn on and off along with the ignition). If you want to link the unit's power with the ignition, connect the ignition wire to a power source that can be turned on and off with the ignition key.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.

Notes

Monitor units that can be connected to this unit

• 🙆 group

DNX7200 KVT-829DVD KVT-729DVD DDX8029 DDX7029 KOS-V500 KOS-V1000

• B group

DDX6029 KVT-827DVD KVT-727DVD KVT-627DVD DDX8027 DDX6027 KVT-M707

- **G** group LZ-760R
- **O** group Unit with RCA video input

How to reset your unit

• If the unit fails to operate properly, press the Reset button.

This Product is not installed by the manufacturer of a vehicle on the production line, nor by the professional importer of a vehicle into an EU Member State.

Information on Disposal of Old Electrical and Electronic Equipment (applicable for EU countries that have adopted separate waste collection systems)



Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Old electrical and electronic equipment should be recycled at a facility capable of handling these items and their waste byproducts. Contact your local authority

byproducts. Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Getting Started

Lets view some digital broadcasts.

Switching to Digital TV Screen

Press [V.SEL] on the monitor to switch to Digital TV Broadcasting.



• When you first switch to digital TV broadcasting, a Welcome Menu appears and Auto Scan starts.



When Auto Scan ends normally, a Channel List containing channels available at the current location is created and the first channel is displayed.

- Auto Scan may have been performed already at the dealer where the unit was installed.
- The display language can be changed (page 13).

Functions During Digital TV Screen

Basic functions are available even when the TV screen is displayed.

ΑΙΒ



- 1 Picture Source Display Area Displays the TV Status, Display Mode, and AVOUT settings (page 13).
- Channel Down Search Area Searches downward and selects the channel.
- 3 Channel Up Search Area Searches upward and selects the channel.
- Menu Control Area (group only)
 Displays the Menu Control screen (page 11).
- 5 Information Display Control Area Turns ON/OFF the display of information in the Picture Source Display Area 1 and Source Information Display Area 2.
- 6 Audio Source Information Display Area



- There are four ways to select the desired station.
 - By searching for available station
 - By selecting from EPG (Electronic Program Guide) (page 10)
 - By selecting from the Channel List (page 12)
 - By specifying a channel number (page 11)
- You can add the selected channel to the Channel List if it is not already listed.

Functions During Digital TV Screen

Basic functions are available even when the TV screen is displayed.



- (iiii) • When the Control Screen is displayed, touch [OK] or wait
- approximately 10 seconds. The Digital TV Screen will reappear.

Touch Operation

 \mathbf{C}

Menu Control Screen appears by touching the area shown below.





- 1 Shows EPG Screen (page 10).
- 2 Shows DVB Menu Screen (page 11).
- 3 Returns to previous screen.
- 4 Executes selected menu item
- 5 Returns to Digital TV Screen.
- 6 Moves highlight in DVB menu.

[List of abbreviations]

СН

Channel

FPG Electronic Program Guide

OSD

On Screen Display

PIG

Picture in Graphic

RCU

Remote Control Unit

STB

Set Top Box Normally this will be built in to the vehicle and it will not be necessary for the user to access it.

τν

Television

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Basic Operation (When connected with DDX7029 (2)

Various control screens appear in the Digital TV Source mode. (You can only operate Digital TV with the optional accessory Digital TV Tuner connected.)

- (page 7 for the <Functions While Displaying the Control Screen>)
- The Easy Control Panel display is hidden when you touch a central area of the monitor.

Functions While Displaying the Control Screen

Switches to control screen to use various playback functions.



2 Channel Number Display

Basic Operation (When connected with DDX6029 3)

Various control screens appear in the Digital TV/ Video Source mode. (You can only operate Digital TV with the optional accessory Digital TV Tuner connected.)



Basic Operation (When connected with LZ-760R)

Various control screens appear in the Digital TV Source mode. (You can only operate Digital TV with the optional accessory Digital TV Tuner connected.)

Functions While Displaying the Control Screen

You can tune in a TV station using various functions.



- Closes Control Screen and shows Digital TV screen.
- Buttons other than mentioned above are disabled in DVB mode.

(;;;;)

Displaying EPG

Receiving and displaying EPG (Electronic Program Guide) sent together with a program.



Channel Search and Channel List

The available stations (TV/Radio) are saved in the Channel List.



Manual search is for advanced users and offers the ability to search for specific channels. Regular users are recommended to use "Auto Scan" (page 11).



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Setting this unit's behavior and clock.

System Setup

Setup

Set the behavior of this unit such as the display language and aspect ratio.

The following items can be set:

OSD Language	User could select the desired language.
TV Aspect Ratio	This function provides 4:3 and 16:9 two ratio for user to select. If your display supports 16:9 screen format and selected channel provides 16:9 format program, select 16:9.
TV Screen Format	There are four screen format could be selected, Full, Pan&Scan, Letter Box, and Combined.
Auto Switching Interval	User could set the auto switching interval time from OFF to 30 Seconds when the box cannot receive the video signal. User also could use the [A] to [Z] key on the RCU to switch the signal immediately.
TV Type	Select the TV signal type (PAL or NTSC) according to the display.
0/5 Volt	Set "0/5 Volt" ON when connecting an antenna with booster amplifier to this unit.
Power On Option	This function provide user to select the unit at a power on mode or a stand by mode. If the user select the unit at power on mode, when user turn on the car, then the unit will be turned on at the same time.
Volume Rate Control	If user connect to an amplifier, user could use the volume rate to control the volume. There are 18 levels could be selected.

- Depending on the country where you buy your receiver, some functions might not be available in this menu.
- If you changed the "0/5 Volt" setting, perform Auto Scan.

1 Show DVB Menu by pressing [MENU] key

2 Touch [▲] or [▼], select [Setup]



3 Touch [►]

- **4** Touch [▲] or [▼], select [System Setting]
- 5 Touch [Enter] (📧)

System Setup Menu appears.

- **6** Touch [▲] or [▼] to select the item to set
- **7** Touch [◄] or [►] to select the value to set

System Setting	01/01 SAT	
OSD Language	English	4
TV Aspect Ratio	4:3	•
TV Screen Format	Full	•
Auto Switching Interval	4 Sec	-0
TV Type	PAL	•
0/5 Volt	OFF	4
PowerOn Option	ON	•
Volume Rate Control	10	49

8 Touch [Return] (페) when you are finished



Updating the Software

Download the new software from the network and update the software installed in this unit.

1 Show DVB Menu by pressing [MENU] key

2 Touch [▲] or [▼], select [Setup]

KENWO(DD
B CH Manager	1 System Setting
Channel Search	2 Clock Setting
≫Setup	3 Software Upgrade
@ Info & Conax.	4 Factory Default

4 Touch [▲] or [▼], select [Software

5 Touch [Enter] (C)

If there is a new software, it is downloaded and this unit's software is updated.

- This function is only available when the network supports this feature.
- When new software is loaded, this might have different functions than the software you are using now. This manual might not be accurate anymore for the new



Information and Conax

Displaying information and setting Conax.



- This function is not available unless a card is inserted.
- You can change the [Card Level] by touching [◄] or [►]. However, you must enter a password when [Enter CA PIN:] appears to change the Card Level setting.
- To change the password, enter the current password for [Enter CA PIN:] and new password for [Enter New CA PIN:] and [Confirm new CA PIN:].

Remote Control Unit



INFO

Current channel info (toggle between pages in menu using A/V/ < >).

EPG

Opens the Electronic Program Guide.

POWER

Powers the (STB) unit on and off.

MUTE

Mutes the sound. Volume mute only works in TV/Radio mode (i.e. not when a menu is opened).

MENU

Press once to enter Main Menu.

- The Main Menu consists of 4 sub-menus.
- CH Manager
- Channel Search
- Setup
- Info & Conax.

▲/▼

a. Changes channels (channel up, channel down).

b. Toggles between menu items (up/down).

</►

Toggles between menu items (left/right).

OK

Verifies input.

EXIT

- a. Return to the previous menu in menu screen or escape from menu.
- b. Return to normal TV mode from a menu. Repeated pressing will take you through all opened menus until normal TV mode is reached.

SUBTITLE

Switches to Subtitle Mode.

Page up

$\mathbf{\nabla}$

a. TV/radio mode b. Page down

LANG

Switches language.

TIMER

Sleep timer. Press to set different times.

AUDIO

Audio modes.

Switches to teletext.

0 – 9

- a. Selects a channel to watch. Press two numbers one after the other to go beyond 9 (e.g. press 2 and then 3 to go to channel 23).
- b. Selects a sub-menu item.

►II

Pauses/resumes TV streaming images.

0

Returns to the channel you were watching previously.

PREVIEW

Previews image display.

A-Z

Changes to alternative frequency.

AUTOSCAN

Searches the network for available channels.

SIGNAL%

Signal power/quality bar

Loading battery

Use one lithium battery (CR2025).

Insert the batteries with the + and – poles aligned properly, following the illustration inside the case.



AWARNING

 Store unused batteries out of the reach of children. Contact a doctor immediately if the battery is accidentally swallowed.

A

• Do not set the remote control in hot places such as on the dashboard.





Installing the Digital TV Tuner

The Digital TV Tuner (main unit) can be installed by securing it to the pile carpet with Velcro or by screwing it on to a commercially available audio board.

Installing the Main Unit

- There are various terminals on the main unit. Leave some space to connect cables on the terminal side of the main unit.
- Do not place anything on top of the main unit. This can cause product failure.
- Do not install the main unit stacked with other units.
- Install the main unit at least 1.5m away from radio antenna.

Installing with Screw

1 Use a tapping screw to secure the bracket to the vehicle's audio board (commercial product).



 When drilling holes in the vehicle, be sure there is nothing on the other side.
 Damage to cables or pipes can cause accident or malfunction.



Installing and Connecting the Remote Control Receiver

Paste the remote control receiver to the dashboard.

- 1 Remove the paper from double-stick tape and paste it on the back of the remote control receiver.
- 2 Wipe the dirt and oil off from the installation area and paste the remote control receiver 6 to the dashboard.



3 Connect the connectors of the remote control receiver to the main unit.

- · Wipe oil and dirt off from the installation surface.
- Avoid area where there is direct sunlight or close to TV monitor because the remote control signals may be affected.



Inserting Pay Card

Insert the Pay Card into the card slot, and attach the card slot cover.



Connection

Battery 🕀

e

Connect the monitor and power as follows.



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Specifications

TV tuner

Input Frequency

VHF : 174 – 230 MHz UHF : 470 – 862 MHz

Demodulation Type : QPSK/ 64QAM/ 16QAM

Channel Bandwidth : 6/ 7/ 8 MHz

FFT Size : 2K and 8K

Guard Interval : 1/4, 1/8, 1/16, 1/32

Puncture Rate : 1/2, 2/3, 3/4, 5/6, 7/8

Antenna input : 2-ch Diversity

Connector Type : F Type × 2

General

Operating Voltage (11 – 16V) : 14.4 V Current Consumption : 860 mA Dimensions (W × H × D) (Main unit) : 215 × 37 × 172.4 mm Operational temperature range : -10°C ~ +60 °C Storage temperature range : -30°C ~ +85 °C Weight

: 1.2 kg

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