

KENWOOD

DVD/VCD/CD PLAYER

DVF-S500

INSTRUCTION MANUAL

KENWOOD CORPORATION



B60-5394-08 00 (CH) (Y)  0304

Before applying power

 **Caution : Read this page carefully to ensure safe operation.**





Units are designed for operation as follows.

U.S.- Military AC 110 – 240 V

Safety precautions

 **Caution : Read this page carefully to ensure safe operation.**

WARNING : TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

 <div style="border: 1px solid black; padding: 2px; text-align: center;"> CAUTION <small>RISK OF ELECTRIC SHOCK DO NOT OPEN</small> </div> 	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

For the U.S.A.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, the following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION
 2967-3, ISHIKAWA-CHO,
 HACHIOJI-SHI,
 TOKYO, JAPAN

**KENWOOD CORP. CERTIFIES THIS EQUIPMENT
 CONFORMS TO DHHS REGULATIONS NO. 21 CFR
 1040.10, CHAPTER 1, SUBCHAPTER J.**

Location: Back Panel

Unpacking

Unpack the unit carefully and make sure that all the accessories are present.

If any accessories are missing, or if the unit is damaged or fails to operate, notify your dealer immediately. If the unit was shipped to you directly, notify your shipper immediately. Kenwood recommends that you retain the original carton and packing materials in case you need to move or ship the unit in the future.

Keep this manual handy for future reference.

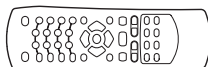
Accessories

Please confirm that the following accessories are present.

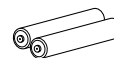
Digital Cable (Optical) ... (1)



Remote control unit (1)



Batteries (R03/"AAA" -size) ... (2)



Video cord (Yellow) (1)



Audio cord (White / Red) ... (1)



For the U.S.A.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.



Please read all of the safety and operating instructions before operating this appliance. Adhere to all warnings on the appliance and in the instruction manual. Follow all the safety and operating instructions. These safety and operating instructions should be retained for future reference.

1. **Power sources** – The appliance should be connected to a power supply only of the type described in the instruction manual or as marked on the appliance. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For appliances intended to operate from battery power, or other sources, refer to the instruction manual.
2. **Power-cord protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
3. **Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The appliance should be situated so that its location or position does not interfere with its proper ventilation.
To maintain good ventilation, do not put records or a table-cloth on the appliance. Place the appliance at least 10 cm away from the walls.
Do not use the appliance on a bed, sofa, rug or similar surface that may block the ventilation openings. This appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
4. **Water and moisture** – The appliance shall not be exposed to dripping and splashing - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc. Do not place an object containing liquid, such as a flower vase, on the appliance.
5. **Temperature** – The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).
6. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat. Do not place a flaming object, such as a candle or lantern, on or near the appliance.
7. **Electric shock** – Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal objects, such as a hair pin or a needle, comes into contact with the inside of this appliance, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this appliance.
8. **Enclosure removal** – Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.
9. **Cleaning** – Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.

10. **Lightning** – For added protection for this appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.
11. **Abnormal smell** – If an abnormal smell or smoke is detected, immediately turn the power OFF and unplug the appliance from the wall outlet. Contact your dealer or nearest service center.
12. **Damage requiring service** – The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water.
 - D. The appliance does not appear to operate normally by following the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation.
 - E. The appliance has been dropped, or the enclosure damaged.
 - F. The appliance exhibits a marked change in performance.
13. **Servicing** – The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.
14. **Power lines** – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
15. **Overloading** – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
16. **Attachment** – Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
17. **Replacement parts** – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
18. **Safety check** – Upon completion of any service or repairs to this appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.

Special features

This document classifies the applications of each feature using the following marks.

- DVD** : Description of a feature that can be used with DVD.
- CD** : Description of a feature that can be used with CD.
- VCD** : Description of a feature that can be used with VCD.

DVD *Higher video quality than S-VHS video and LaserDisc*

DVD *Higher audio quality than music CD*




DVD **CD** **VCD** *On screen Display (OSD)*

MP3 and JPEG files playback

You can play file which is taken by Digital Camera.

Contents

Caution : Read the pages marked  carefully to ensure safe operation.


Preparations	
Introduction	2
 Before applying power	2
 Safety precautions	2
 IMPORTANT SAFEGUARDS	4
Special features and Contents	5
Special features	5
Contents	5
Discs information	6
Types of playable discs	6
Unplayable discs	6
Icons on the DVD VIDEO discs	6
Region Codes	7
Region codes in the world	7
Video formats	8
Important items	9
Maintenance	9
Reference	9
System Connections	10
Connecting to a TV with video (composite) input terminal	10
Connecting to a TV with Component video input terminals	10
Connecting to an Amplifier (KAF-S500) and TV with video (composite) input terminal	11
Connecting to an Amplifier (KAF-S500) and TV with Component video input terminals	11
Controls and indicators	12
Operation of remote control unit	13
Set Up functions	14
Preparation for Set Up	14
Set up menu	14
Select Audio Language	16
Select Subtitle Language	16
Select Disc Menu Language	17
Select OSD Language	17
Select TV Display (ASPECT)	18
Select Picture Mode	18
Select TV Mode	19
Select Audio Output	19
Select Downmix mode	20
Select Audio DRC	20
Change Password	21

Select Rating level	21
Select Screen Saver on or off	22
Select ANGLE mark ON or OFF	22
Put back to the Default Setting	23
DVD menu language code list	24

Operations

Playback of disc	25
Basic play	25
Disc playback features	26
On screen display	27
Various playback functions	28
Select Audio Language	28
Select the Audio channel	28
Select Subtitle Language	28
Select Camera angle	29
Random play	29
Repeat play	30
A-B Repeat play	30
Using Bookmarks	31
Program play	32
Menu playback	33
Hierarchical structure of VCD menus	33
Playback without using the menu playback function (In case of a P.B.C.-compatible VCD) (To P.B.C. On or Off)	33
MP3 /JPEG media playback	34
Guidance of MP3/JPEG	34
Playing back MP3/JPEG files	35
Selects the files to be played back directly	36
Rotating a picture (JPEG files only)	36
Enlarge/Reduce picture size (JPEG files only)	36
MP3/JPEG Random play	37

Knowledge

In case of difficulty	38
 Specifications	40

Types of playable discs

The system using this unit does not only play music from CD but can also play the discs listed below to offer you high-quality entertainment of video of movies and live concerts.

Playable Disc	DVD (DVD VIDEO)		CD (CD-R, CD-RW)		VCD (VCD Ver.2.0, SVCD*)	
Logo mark on disc						
Disc size						
Played sides	One or both	One or both	One side only	One side only	One side only	One side only
Contents	Video + Audio Approx. 41 min. (1 side, 1 layer) Approx. 75 min. (1 side, 2 layers) Approx. 82 min. (2 sides, 1 layer) Approx. 150 min. (2 sides, 2 layers)		Video + Audio Approx. 133 min. (1 side, 1 layer) Approx. 242 min. (1 side, 2 layers) Approx. 266 min. (2 sides, 1 layer) Approx. 484 min. (2 sides, 2 layers)		Video + Audio Max. 20 min. Max. 74 min. (In case of an SVCD, the possible playback time becomes shorter.)	
	Audio		Max. 20 min., digital		Max. 80 min., digital	

MP3 media and JPEG picture CD those can be played back with this equipment (CD-R, CD-RW)

- * This unit can play SVCDs, but some functions will not work.
- This unit may also be incapable of playing certain CD-R/RW discs depending on their properties, recording conditions, etc.

Unplayable discs

This player cannot play back any of the following discs.

<p>DVD-ROM discs DVD-RAM discs DVD-R/DVD+R/DVD-RW/DVD+RW discs SACD discs CD-ROM discs (Except MP3 and JPEG discs [ISO 9660 level 1])</p> <ul style="list-style-type: none"> • A DVD VIDEO disc with a region code which does not match this unit or without a region code. For details, see "Region Codes". • When the video format of a disc differs from that of the TV in use, the disc cannot be played normally. For details, see "Video Formats". 	<p>VSD discs CDV discs (Only the audio part can be reproduced.) CD-G/CD-EG/CD-EXTRA discs (Only the audio can be reproduced.) Photo CD discs (Never attempt to play them.)</p>
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Icons on the DVD VIDEO discs

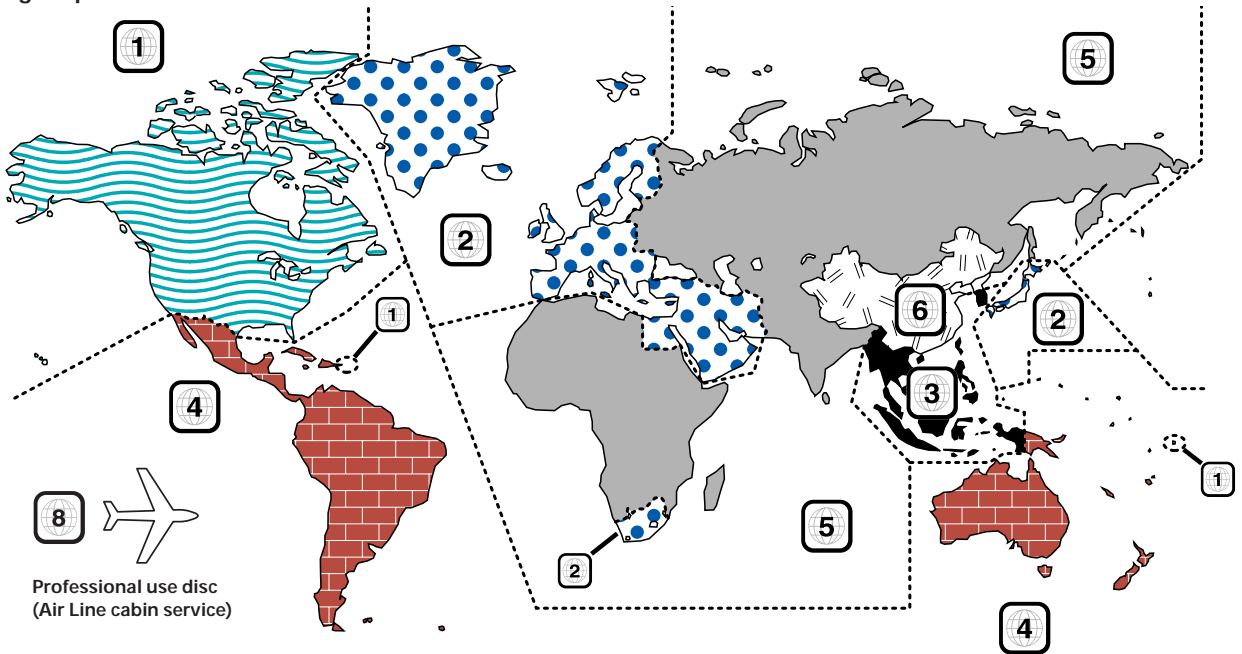
Icon	Description
	Indicates the region code where the disc can be played.
	Number of voice languages recorded with the audio function. The number in the icon indicates the number of voice languages. (Max. 8 languages)
	Number of subtitle languages recorded with the subtitle function. The number in the icon indicates the number of subtitle languages. (Max. 32 languages)
	Number of angles provided by the angle function. The number in the icon indicates the number of angles. (Max. 9 angles)
	Aspect ratios that can be selected. "NORMAL/LB" stands for Letter Box and "NORMAL/PS" for Pan/Scan. In the example on the left, the 16:9 video can be converted into letter box video.

Every player of this model has a certain region code assigned to it based on the country where the player is used. When the player is used to play back DVD VIDEO discs, it can only play the DVD VIDEO discs carrying the region codes matching the region code of the player.

The region code for this player is described on the rear panel of the player.

Region codes in the world

The DVD players are given a region code according to the country or area it is marketed, as shown in the following map.



Region codes of the DVD VIDEO discs that can be played with this player

This player can play back a DVD VIDEO disc which carries the corresponding code to the region code of the player shown in the table above, a marking containing the region code of the player or the "ALL" marking shown below. Even when a DVD VIDEO disc does not carry any indication of the region code, it may sometimes be unable to be played on this player due to certain restrictions.



Restrictions due to difference between discs

Some DVD and VCD discs can be played only in certain playback modes according to the intentions of the software producers. As this player plays discs according to their intentions, some functions may not work as intended by you. Please be sure to read the instructions provided with each disc. When an inhibition icon is displayed on the TV screen connected to the player, it indicates that the disc being played is under the restriction as described above.

Inhibition icon



The TV picture display and disc signal systems can be divided roughly into two TV formats (NTSC and PAL).

They are variable depending on countries and areas.

TV formats of major countries

TV Format	Major Countries & Areas
NTSC	Japan, Taiwan, Korea, USA, Canada, Mexico, Philippines, Chile, etc.
PAL	China, U.K., Germany, Australia, New Zealand, Kuwait, Singapore, etc.

(For Europe and Australia)

This unit has a function for changing the video format according to the TV type. (→ ) The initial setting of this unit for "TV Type" is PAL. Please confirm the type of your TV.

(For other countries)

This unit has a function for changing the video format according to the TV type. (→ ) The initial setting of this unit for "TV Type" is NTSC. Please confirm the type of your TV.

Checking the Video Format ("Select TV Type" →)

Check the video format of the TV to be used

When the video formats are different :

Try playing the disc. If the video formats of the disc and TV do not match, the played video may be black and white or become as shown below.



Top and bottom edges are not displayed.



Top and bottom areas are dark.



Picture turbulence due to sync unmatching.

Maintenance

Maintenance of the unit

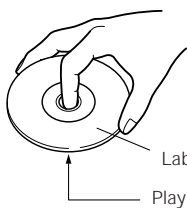
When the front panel or case becomes dirty, wipe with a soft, dry cloth. Do not use thinner, benzine, alcohol, etc. for these agents may cause discoloration.

In regard to contact cleaner

Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

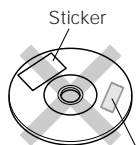
Reference

Disc handling precautions

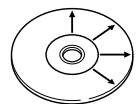


Handling

Hold the disc so that you do not touch the playing surface.



Do not attach paper or tape to either the playing side or the label side of the disc.



Cleaning

If there are fingerprint marks or foreign matter found on the disc, lightly wipe the disc with a soft cotton cloth (or similar) from the center of the disc outwards in a radial manner.

Storage

When a disc is not to be played for a long period of time, remove it from the player and store it in its case.

Never play a cracked or warped disc

During playback, the disc rotates at high speed in the player. Therefore, to avoid danger, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent. Please do not use discs which are not round because they may cause malfunction.

Disc accessories

The disc accessories (stabilizer, protection sheet, protection ring, etc.) which are marketed for improving the sound quality or protecting discs as well as the disc cleaner should not be used with this system because they may cause malfunction.

Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

1. Set the **⏻ (POWER)** key to the **ON** without loading a disc.
2. Wait a few seconds and verify that the display shown appears.

NO DISC

3. Set the **⏻ (POWER)** key to **OFF**.

Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside. This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours and restart the operation after the condensation has dried up.

Be specially cautious against condensation in the following circumstances:

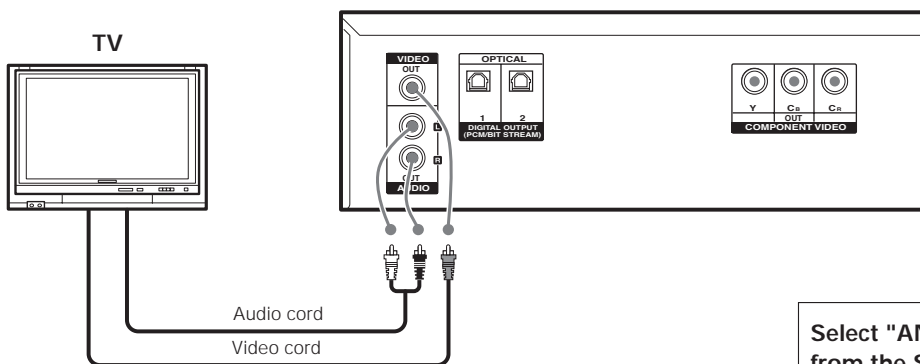
When this unit is carried from one place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Make connections as shown below.
When connecting the related system components, refer also to the instruction manuals of the related components.

Caution:
Do not plug in the power lead until all connections are completed.

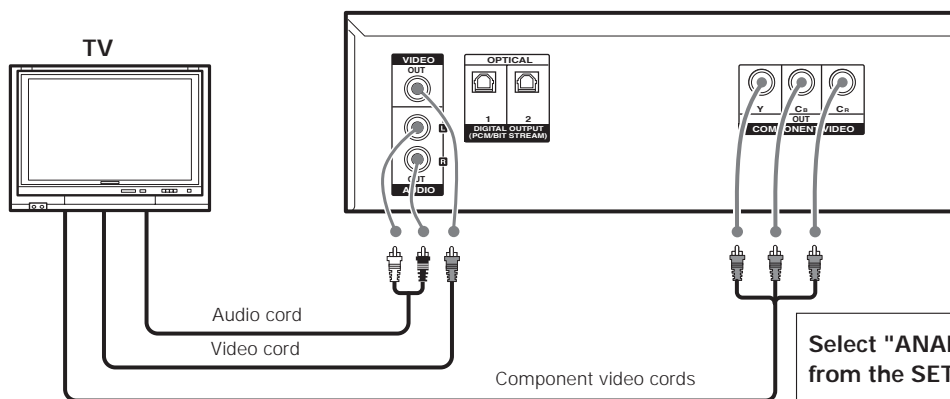
Malfunction of microcomputer
If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty". → 38

Connecting to a TV with video (composite) input terminal



Select "ANALOG" for "AUDIO OUT" from the SETUP menu. → 15 → 19

Connecting to a TV with Component video input terminals



Select "ANALOG" for "AUDIO OUT" from the SETUP menu. → 15 → 19

Connection with TV

Connect to video input terminal of TV directly. If you connect to TV through VIDEO (VCR) as well as connect to video input terminal of TV with VIDEO (VCR), picture will be distorted when playback. It is because of copy-protect function.

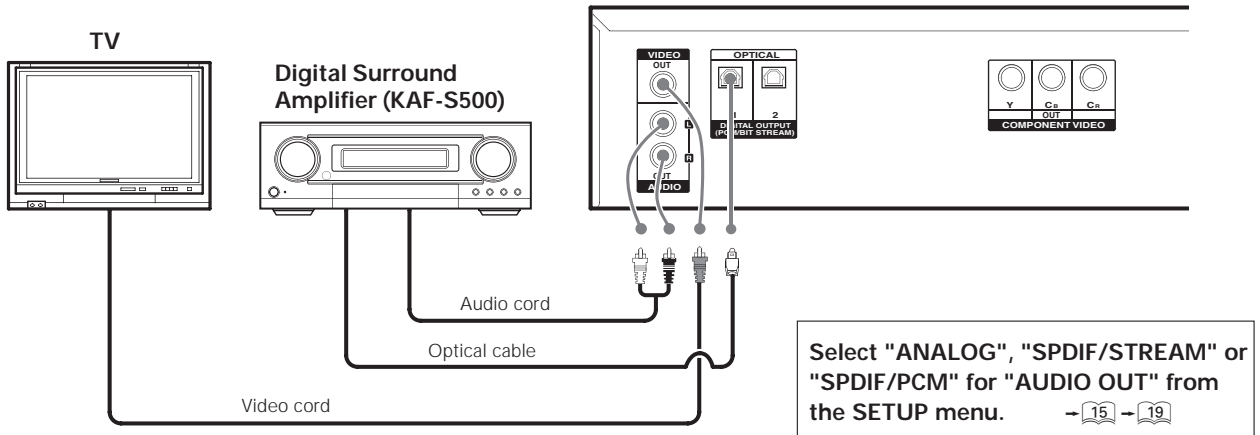
DTS disclaimer clause

When playing DTS-encoded (CDs, DVDs), excessive noise will be exhibited from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the DVD player is connected to an amplification system.

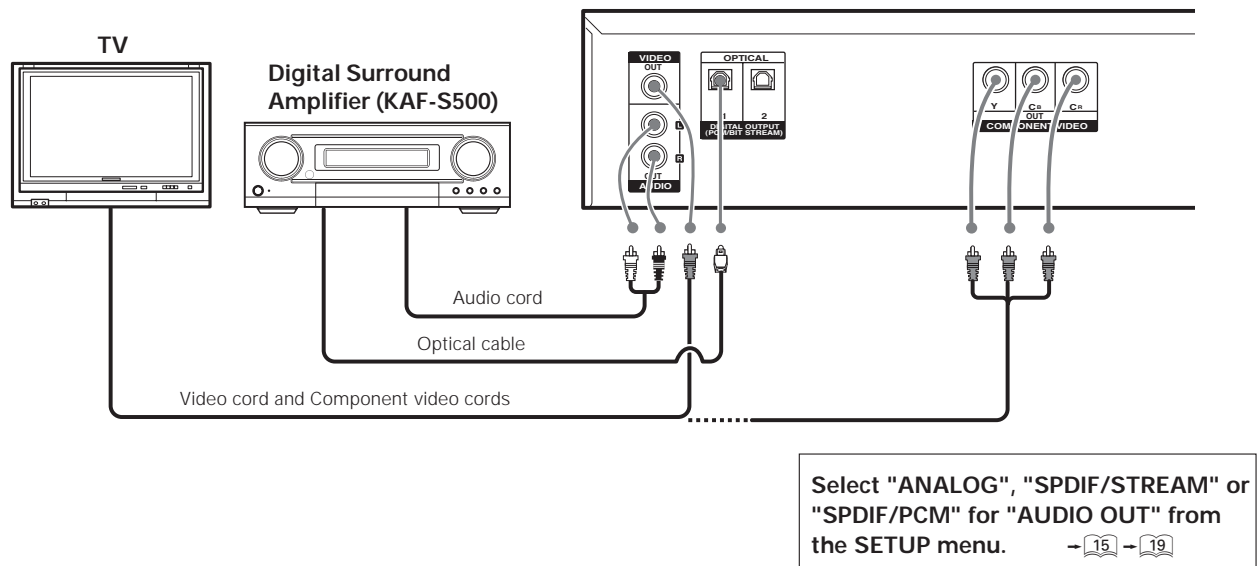
To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output (S/P DIF, AES/EBU, or TosLink) of the DVD player.

Connecting to an Amplifier (KAF-S500) and TV with video (composite) input terminal

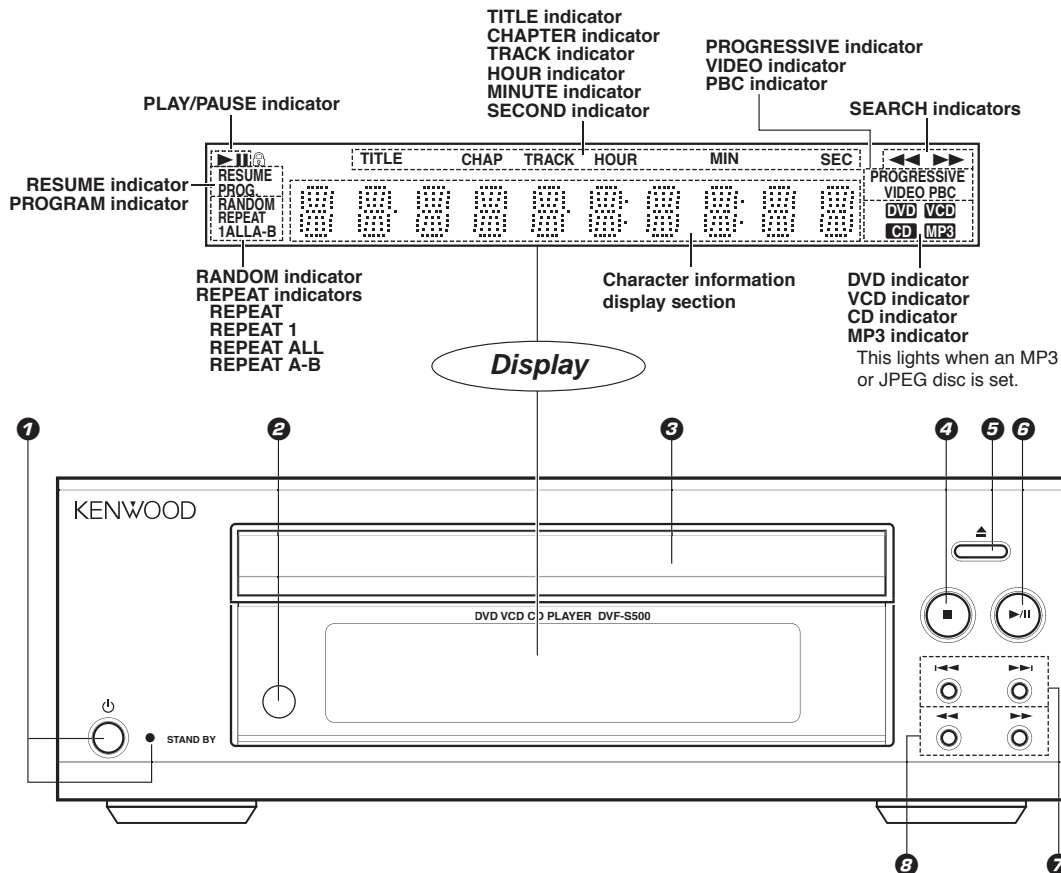
For playback of DTS audio, please connect an Digital Surround Amplifier(KAF-S500) or an AV receiver which can decode DTS by digital connection.



Connecting to an Amplifier (KAF-S500) and TV with Component video input terminals.



1. In case an associated system component is connected, also read the instruction manual of the component.
2. Insert the optical-fiber cable straight into the connector until it clicks.
3. Never bend or bundle the optical-fiber cable.



- | | | |
|---|---------------------------------------|---|
| <p>1 (POWER) key
STAND BY indicator</p> <p>2 Remote sensor</p> <p>3 Disc tray</p> <p>4 (Stop) key</p> | <p> - </p> <p></p> <p></p> <p> - </p> | <p>5 (Open/Close) key - </p> <p>6 (Play/Pause) key - </p> <p>7 (PREV.), (NEXT) (Skip) keys - - </p> <p>8 (Search) keys - - </p> |
|---|---------------------------------------|---|

DIMMER function

The display brightness of the main unit can be changed.

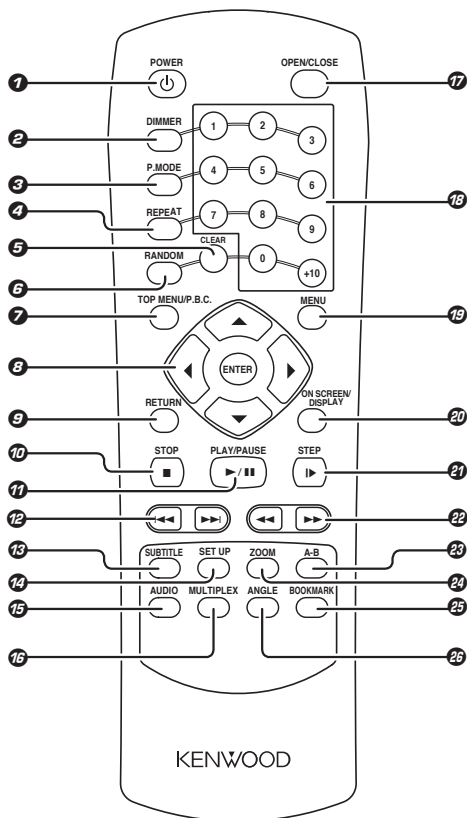


Switching as shown below is done each time the DIMMER key on the remote control is pressed.

- ① Bright
- ② Dimmer

Standby mode

While the standby indicator is lit, a small amount of power is supplied to the system to back up the memory. This is called standby mode. Under the condition, the system can be turned ON by the remote control unit.

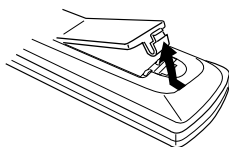


- 1 POWER (⏻) key → 14 → 23
- 2 DIMMER key → 12
- 3 P.MODE key → 32
- 4 REPEAT key → 29 → 30
- 5 CLEAR key → 32
- 6 RANDOM key → 37
- 7 TOP MENU/P.B.C key → 25 → 33
- 8 Cursor Up (▲), Down (▼), Left (◀) and Right (▶) keys → 16 → 23
- 9 RETURN key → 14
- 10 STOP (■) key → 25
- 11 PLAY/PAUSE (▶/⏸) key → 25
- 12 ◀◀/▶▶ keys → 26
- 13 SUBTITLE key → 28
- 14 SET UP key → 16 → 23
- 15 AUDIO key → 28
- 16 MULTIPLEX key → 28
- 17 OPEN/CLOSE key → 28
- 18 Numeric keys → 27
- 19 MENU key → 25
- 20 ON SCREEN/DISPLAY key → 27
- 21 STEP (⏪) key → 26
- 22 ◀◀/▶▶ keys → 26
- 23 A-B key → 30
- 24 ZOOM key → 36
- 25 BOOKMARK key → 31
- 26 ANGLE key → 29

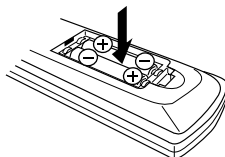
If the name of a function is different on the receiver and on the remote control, the name of the remote control key in this manual is indicated in parentheses.

Loading batteries

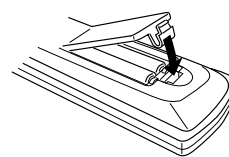
1 Remove the cover.



2 Insert batteries.



3 Close the cover.

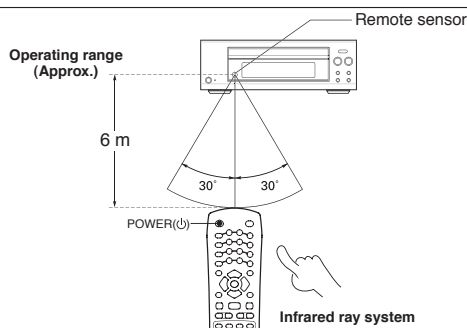


- Insert two R03 ("AAA" -size) batteries following the polarity indications.

Operation

Insert the power plug into a AC wall outlet, press the ⏻ (POWER) key of the main unit to ON, then press the desired key.

- When pressing more than one remote control keys successively, press the keys securely by leaving an interval of 1 second or more between pressing of keys.




1. The provided batteries are intended for use in operation checking, and their service life may be short.
2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
3. If direct sunlight or the light of a high-frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, malfunction may occur. In such a case, change the installation position to avoid malfunction.

Preparation for Set Up

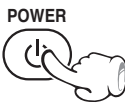
❶ Press the POWER key.

MAIN UNIT




REMOTE

POWER




❷ Set TV Format according to the connected TV type.
(Initial Settings – 8)



MAIN UNIT





REMOTE



+

While no disc is inserted, hold the  (Stop) key on the main unit depressed and keep pressing the  (Skip) key on the remote control. Each time these keys are being held down, the setting changes as follows.

- ① MULTI (NTSC/PAL switchable)
- ② NTSC
- ③ PAL


Set up menu

The SETUP functions are the following diverse functions. Please change them according to your use environment.

LANGUAGE SETUP

- AUDIO
 - Choose the language for the **AUDIO** output. (**ENGLISH** *)
 - ENGLISH
 - FRENCH
 - SPANISH
 - JAPANESE
 - OTHERS
- SUBTITLE
 - Choose the language for **SUB TITLE**. (**ENGLISH** *)
 - ENGLISH
 - FRENCH
 - SPANISH
 - JAPANESE
 - OTHERS
 - OFF
- DISC MENU
 - Choose the language for the menu recorded on the DISC. (**ENGLISH** *)
 - ENGLISH
 - FRENCH
 - SPANISH
 - JAPANESE
 - OTHERS
- OSD LANG
 - This switches the language for the on-screen display. (**ENGLISH**)
 - ENGLISH
 - JAPANESE

VIDEO SETUP

- TV ASPECT
 - This sets the screen size (4:3 or 16:9 aspect ratio) according to the connected TV.
 - **4:3 LETTER BOX**
 - Choose this setting if you would prefer to see movies in their original aspect ratio. You will see the entire frame of the movie, but it will occupy a smaller portion of the screen. This setting may result in the movie appearing with black bars at the top and bottom of the screen.
 - **4:3 PAN-SCAN**
 - Choose this setting if you want the movie to fill the entire screen of your TV. You won't see part of the picture (particularly the right and left edge).
 - Some disc produced in a wide screen format can't be cropped in this fashion, which means the black bars would appear at the top and the bottom of the screen.
 - **16:9 WIDE**
 - Choose this setting if your DVD player is connected to a widescreen TV.
 - PIC MODE
 - This adjusts the screen quality according to the material being played back.
 - **AUTO**
 - The picture quality is adjusted automatically.
 - **HI-RES**
 - Maximize the resolution of picture.
 - **N-FLICKER**
 - Choose this setting to reduce flicker noise of picture.
 - TV MODE
 - Choose this setting according to the TV mode.
 - If the  (STOP) key is pressed during 10 seconds, INTERLACE mode will be selected.
 - **INTERLACE**
 - Choose this setting if your TV is INTERLACE type.
 - **PROGRESSIVE**
 - Choose this setting if your TV is PROGRESSIVE type.
- The items in are the initial set values.

How to use the RETURN key 

When the RETURN key is pressed, the display returns to the MAIN PAGE.

AUDIO SETUP

AUDIO OUT

This selects the format of the audio output from the OUTPUT terminal.

- If you select "ANALOG" from the SETUP menu, Audio signal will be output from "AUDIO OUT" jacks on rear panel.

If you select "SPDIF/STREAM" or "SPDIF/PCM" from the SETUP menu, Audio signal will be output from "DIGITAL OUTPUT" jack on rear panel.(cannot output both signals simultaneously)

ANALOG

Choose this when connecting AUDIO OUT terminals to an amplifier.

 SPDIF/STREAM

Choose this when connecting to an amplifier with built-in Dolby digital or DTS decoder.

When a DVD recorded with Dolby digital or DTS is played back, a bitstream signal will be put out. When a disc recorded with linear PCM is played back, a linear PCM signal will be put out.

 SPDIF/PCM

Choose this for PCM output.

When a DVD recorded with Dolby digital is played back, output will be made converted to 2-channel PCM. In case of a DVD recorded with DTS, output will be made as bitstream.

DOWNMIX

 LT/RT

In case of a DVD recorded by multi channel signal.
L and R signal will be mode as Down-Mix signal.

 LO/RO

Stereo signal will be put out.

AUDIO DRC

For DVD discs which is recorded in Dolby Digital format, dynamic range of audio signal can be compressed when you choose ON. It is effective when you hear small sound clearly.

 ON OFF

RATINGS SETUP

PASSWORD

The password for RATING setting, change, cancellation, etc. is set.

 OLD PASSWORD NEW PASSWORD CONFIRM PASSWORD

RATING

This can restrict playback of adult-oriented DVD discs that you do not want to be seen by children. However, even when a DVD disc is marked "Adult-oriented" or so on the label, its viewing cannot be restricted unless the restriction level is recorded in the disc itself. (8)

RATING level:

Level 8: All DVDs can be played back. (Factory preset)

Level 7 to 2: DVDs for general audiences/children can be played back. (DVDs for adults are prohibited.)

Level 1: DVDs for children can be played back. (DVDs for adults/general audiences are prohibited.)

 1 2 3 4 5 6 7 8

OTHERS SETUP


SCR SAVER

This switches the screen saver ON or OFF. (ON)

When **SCR SAVER** is **ON**, the screen saver function will operate after approx. 3 minutes have passed with a still picture (display of KENWOOD).

 ON OFF

ANGLE

When this is set to **ON**, the **ANGLE** mark () will be displayed when a multiangle scene is reached during playback of a DVD. (ON)

 ON OFF

DEFAULT

This resets all settings, except for **PASSWORD** and **RATING**, to the factory defaults.

 RESET

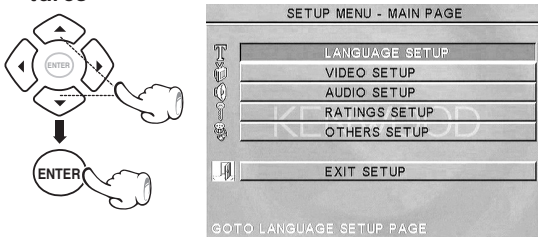
When the language marked with an asterisk (*) is specified by the disc, that specification has priority.

DVD Select Audio Language - 14

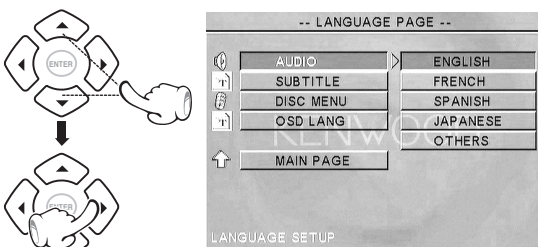
- ① During stop mode, press SET UP key on the remote.



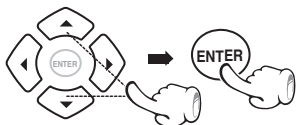
- ② Press Cursor up/down (▲/▼) keys on the remote to select the LANGUAGE SETUP, then press the ENTER key to access the sub features



- ③ Press Cursor up/down (▲/▼) keys on the remote to select AUDIO, then press the Cursor right (▶) key to access the sub features



- ④ Press Cursor up/down (▲/▼) keys on the remote to select specific language, then press the ENTER key.



To select other language

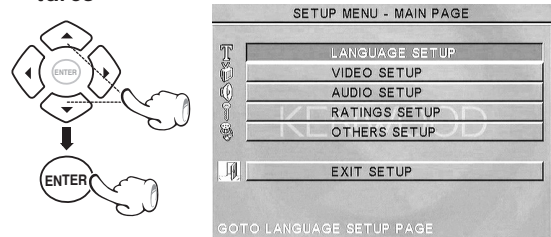
- Select "OTHER" and press the ENTER key.
 - Input 4 digit code by press numeric keys on the remote.
 - Press the ENTER key.
(DVD menu language code list → 24)
- ⑤ Press Cursor left (◀) key on the remote to return to previous menu.
- ⑥ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.
-
- ⑦ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

DVD Select Subtitle Language - 14

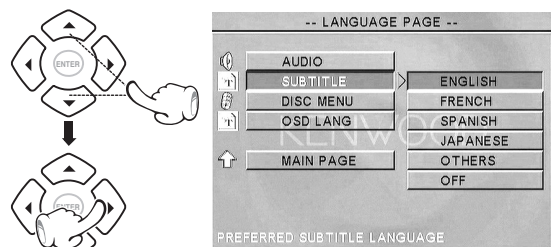
- ① During stop mode, press SET UP key on the remote.



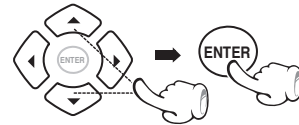
- ② Press Cursor up/down (▲/▼) keys on the remote to select the LANGUAGE SETUP, then press the ENTER key to access the sub features



- ③ Press Cursor up/down (▲/▼) keys on the remote to select SUBTITLE, then press the Cursor right (▶) key to access the sub features



- ④ Press Cursor up/down (▲/▼) keys on the remote to select specific language, then press the ENTER key.



To select other language

- Select "OTHER" and press the ENTER key.
 - Input 4 digit code by press numeric keys on the remote.
 - Press the ENTER key.
(DVD menu language code list → 24)
- ⑤ Press Cursor left (◀) key on the remote to return to previous menu.
- ⑥ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.
-
- ⑦ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

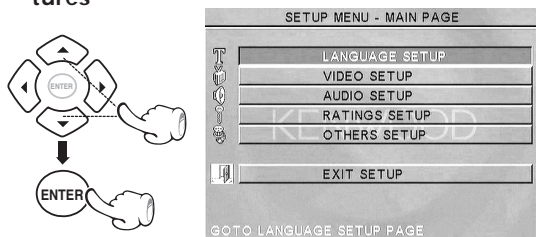
DVD Select Disc Menu Language- 14

DVD VCD CD Select OSD Language- 14

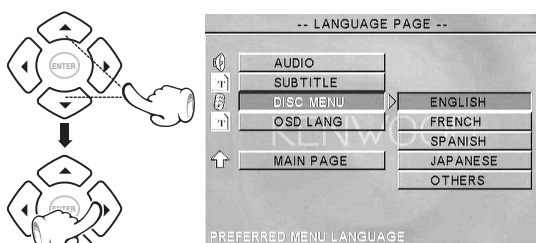
- 1 During stop mode, press SET UP key on the remote.



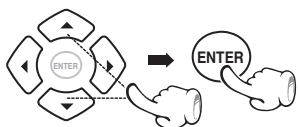
- 2 Press Cursor up/down (▲/▼) keys on the remote to select the LANGUAGE SETUP, then press the ENTER key to access the sub features



- 3 Press Cursor up/down (▲/▼) keys on the remote to select DISC MENU, then press the Cursor right (▶) key to access the sub features



- 4 Press Cursor up/down (▲/▼) keys on the remote to select specific language, then press the ENTER key.

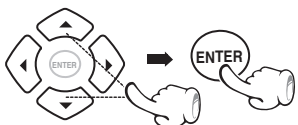


To select other language

- 1 Select "OTHER" and press the ENTER key.
- 2 Input 4 digit code by press numeric keys on the remote.
- 3 Press the ENTER key.
(DVD menu language code list → 24)

- 5 Press Cursor left (◀) key on the remote to return to previous menu.

- 6 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.

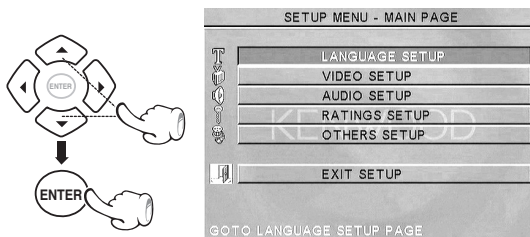


- 7 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

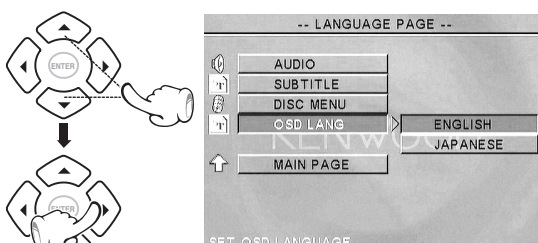
- 1 During stop mode, press SET UP key on the remote.



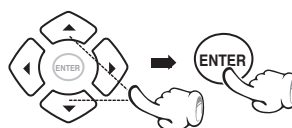
- 2 Press Cursor up/down (▲/▼) keys on the remote to select the LANGUAGE SETUP, then press the ENTER key to access the sub features



- 3 Press Cursor up/down (▲/▼) keys on the remote to select OSD LANG, then press the Cursor right (▶) key to access the sub features

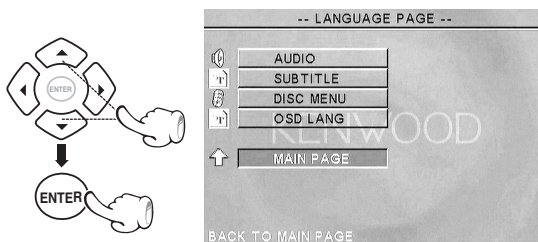


- 4 Press Cursor up/down (▲/▼) keys on the remote to select specific language, then press the ENTER key.



- 5 Press Cursor left (◀) key on the remote to return to previous menu.

- 6 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



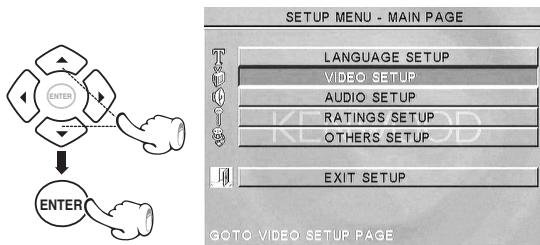
- 7 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

DVD VCD Select TV Display (ASPECT) - 14

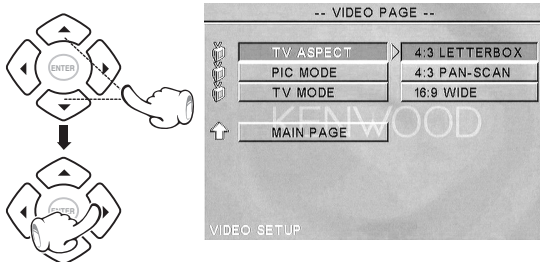
- 1 During stop mode, press SET UP key on the remote.



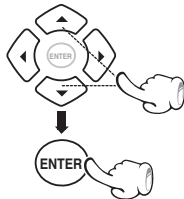
- 2 Press Cursor up/down (▲/▼) keys on the remote to select the VIDEO SETUP, then press the ENTER key to access the sub features



- 3 Press Cursor up/down (▲/▼) keys on the remote to select TV ASPECT, then press the Cursor right (▶) key to access the sub features

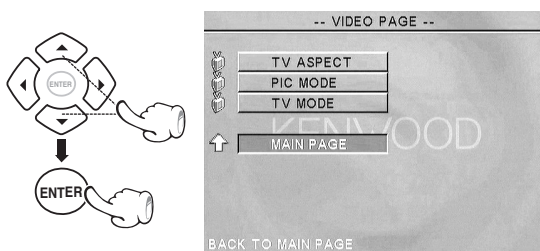


- 4 Press Cursor up/down (▲/▼) keys on the remote to select TV Display type, then press the ENTER key.



- 5 Press Cursor left (◀) key on the remote to return to previous menu.

- 6 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



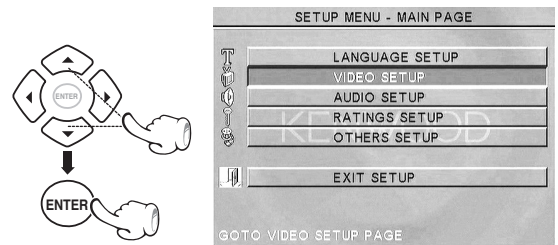
- 7 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

DVD VCD Select Picture Mode - 14

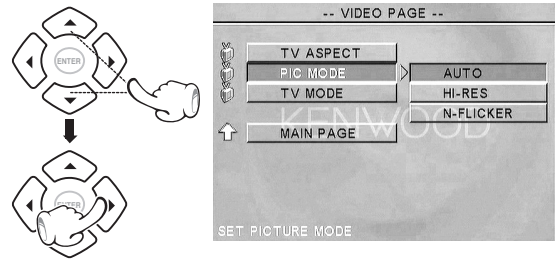
- 1 During stop mode, press SET UP key on the remote.



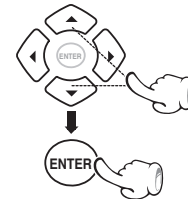
- 2 Press Cursor up/down (▲/▼) keys on the remote to select the VIDEO SETUP, then press the ENTER key to access the sub features



- 3 Press Cursor up/down (▲/▼) keys on the remote to select PIC MODE, then press the Cursor right (▶) key to access the sub features

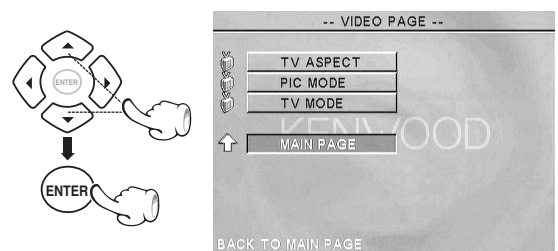


- 4 Press Cursor up/down (▲/▼) keys on the remote to select specific mode, then press the ENTER key.



- 5 Press Cursor left (◀) key on the remote to return to previous menu.

- 6 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



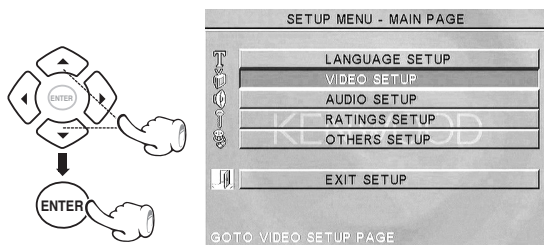
- 7 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

DVD VCD Select TV Mode - 14

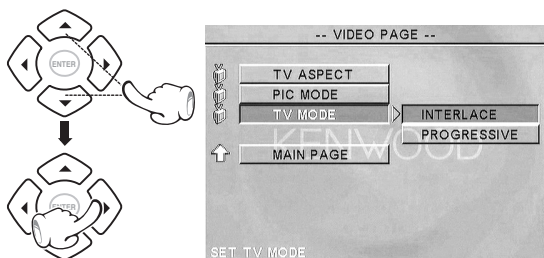
1 During stop mode, press SET UP key on the remote.



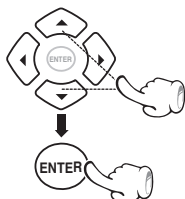
2 Press Cursor up/down (▲/▼) keys on the remote to select the VIDEO SETUP, then press the ENTER key to access the sub features



3 Press Cursor up/down (▲/▼) keys on the remote to select TV MODE, then press the Cursor right (▶) key to access the sub features

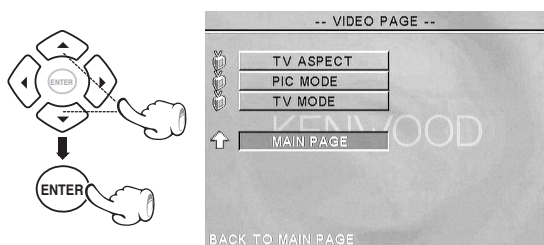


4 Press Cursor up/down (▲/▼) keys on the remote to select specific mode, then press the ENTER key.



5 Press Cursor left (◀) key on the remote to return to previous menu.

6 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



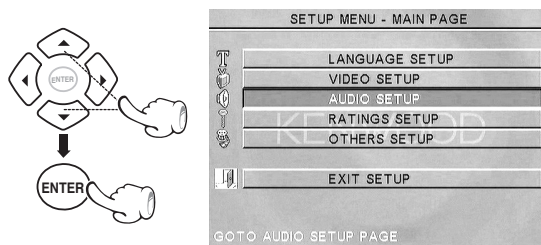
7 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

DVD Select Audio Output - 15

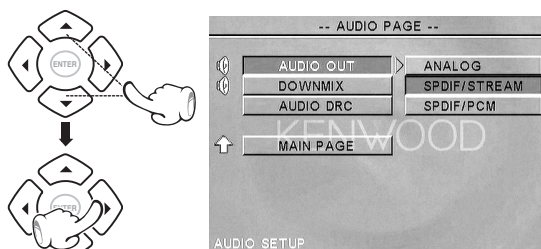
1 During stop mode, press SET UP key on the remote.



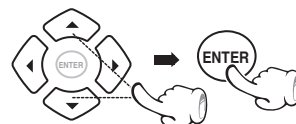
2 Press Cursor up/down (▲/▼) keys on the remote to select the AUDIO SETUP, then press the ENTER key to access the sub features



3 Press Cursor up/down (▲/▼) keys on the remote to select AUDIO OUT, then press the Cursor right (▶) key to access the sub features

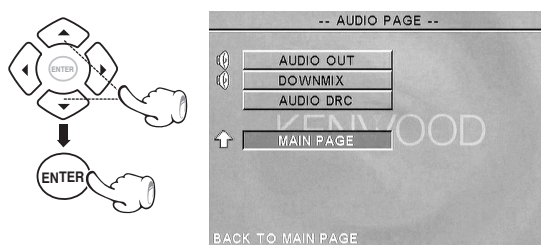


4 Press Cursor up/down (▲/▼) keys on the remote to select specific output mode, then press the ENTER key.



5 Press Cursor left (◀) key on the remote to return to previous menu.

6 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



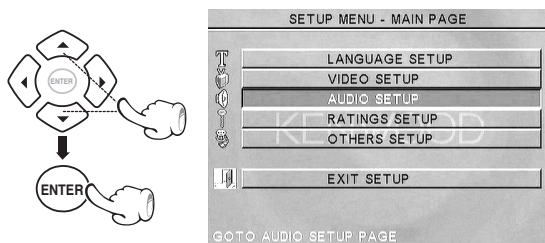
7 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

DVD Select Downmix mode 15

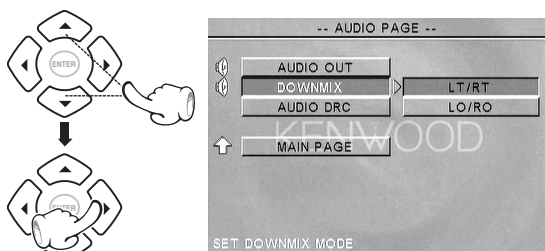
- 1 During stop mode, press SET UP key on the remote.



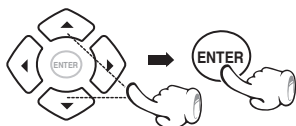
- 2 Press Cursor up/down (▲/▼) keys on the remote to select the AUDIO SETUP, then press the ENTER key to access the sub features



- 3 Press Cursor up/down (▲/▼) keys on the remote to select DOWNMIX, then press the Cursor right (▶) key to access the sub features

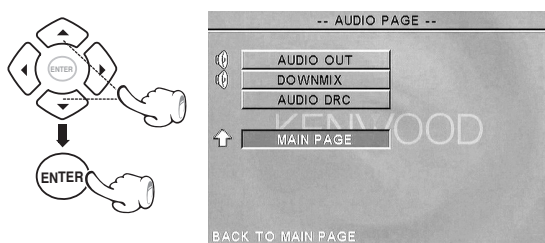


- 4 Press Cursor up/down (▲/▼) keys on the remote to select specific output mode, then press the ENTER key.



- 5 Press Cursor left (◀) key on the remote to return to previous menu.

- 6 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



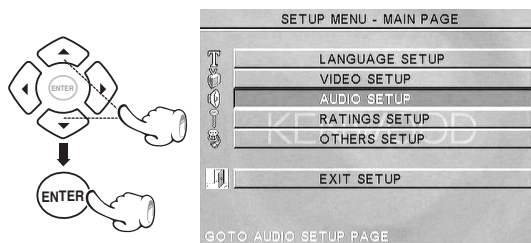
- 7 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

DVD Select Audio DRC 15

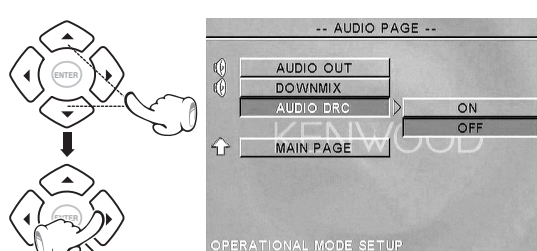
- 1 During stop mode, press SET UP key on the remote.



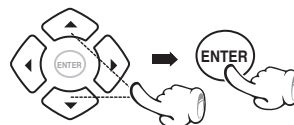
- 2 Press Cursor up/down (▲/▼) keys on the remote to select the AUDIO SETUP, then press the ENTER key to access the sub features



- 3 Press Cursor up/down (▲/▼) keys on the remote to select AUDIO DRC, then press the Cursor right (▶) key to access the sub features

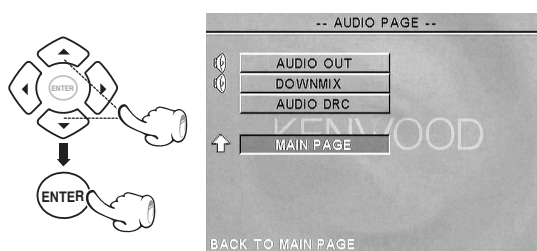


- 4 Press Cursor up/down (▲/▼) keys on the remote to select ON or OFF, then press the ENTER key.



- 5 Press Cursor left (◀) key on the remote to return to previous menu.

- 6 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



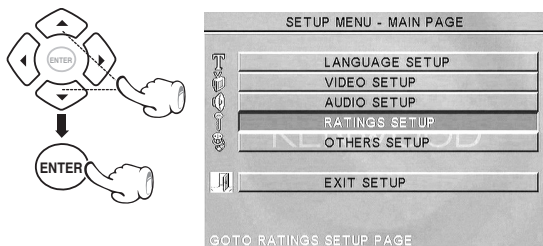
- 7 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

DVD Change Password - 15

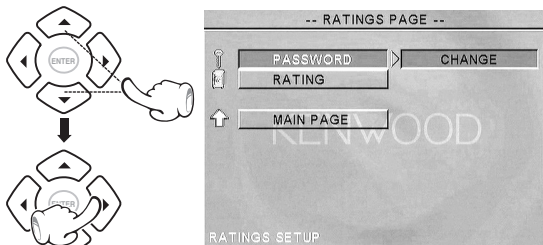
- 1 During stop mode, press SET UP key on the remote.



- 2 Press Cursor up/down (▲/▼) keys on the remote to select the RATINGS SETUP, then press the ENTER key to access the sub features

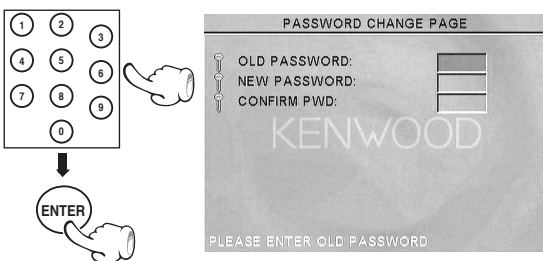


- 3 Press Cursor up/down (▲/▼) keys on the remote to select PASSWORD, then press the Cursor right (▶) key to access the sub features



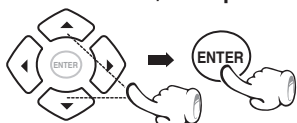
- 4 press the ENTER key to select CHANGE.

- 5 Enter old password, new password and enter new password again to confirm, then press the ENTER key. (The password set at the time of shipping from the factory is "0000".)



- 6 Press Cursor left (◀) key on the remote to return to previous menu.

- 7 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



- 8 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

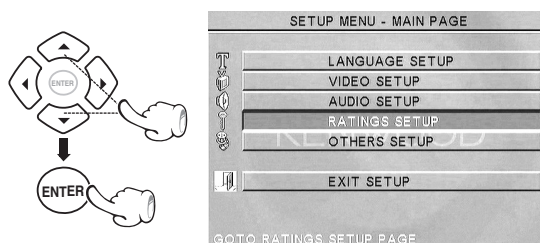
DVD Select RATING level - 15

This part of DVD rating lets you determine how your player will react discs that contain movies that are rated (in the U.S.A. the Motion Pictures Association of America rates movies as G, PG, PG-13, etc.).

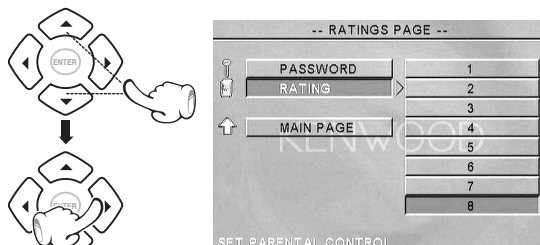
- 1 During stop mode, press SET UP key on the remote.



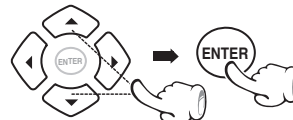
- 2 Press Cursor up/down (▲/▼) keys on the remote to select the RATINGS SETUP, then press the ENTER key to access the sub features



- 3 Press Cursor up/down (▲/▼) keys on the remote to select RATING, then press the Cursor right (▶) key to access the sub features



- 4 Press Cursor up/down (▲/▼) keys on the remote to select specific level, then press the ENTER key.



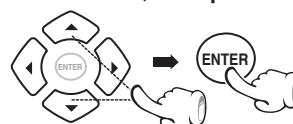
- 5 Enter the password, then press the ENTER key.

The password set at the time of shipping from the factory is "0000".

Refer to the item "Change Password" when the password is to be changed.

- 6 Press Cursor left (◀) key on the remote to return to previous menu.

- 7 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



- 8 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

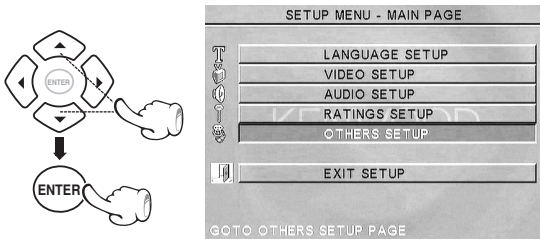
DVD VCD CD Select Screen Saver on or off - 15

DVD Select ANGLE mark ON or OFF - 15

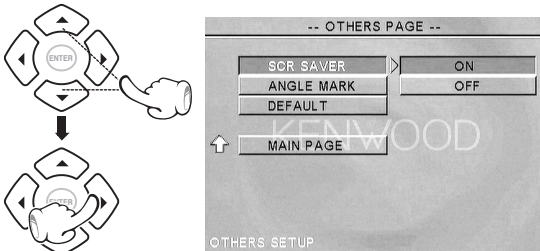
- 1 During stop mode, press SET UP key on the remote.



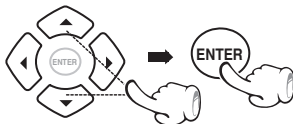
- 2 Press Cursor up/down (▲/▼) keys on the remote to select the OTHERS SETUP, then press the ENTER key to access the sub features



- 3 Press Cursor up/down (▲/▼) keys on the remote to select SCR SAVER, then press the Cursor right (▶) key to access the sub features

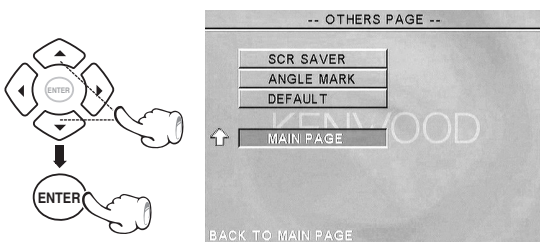


- 4 Press Cursor up/down (▲/▼) keys on the remote to select ON or OFF, then press the ENTER key.



- 5 Press Cursor left (◀) key on the remote to return to previous menu.

- 6 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.

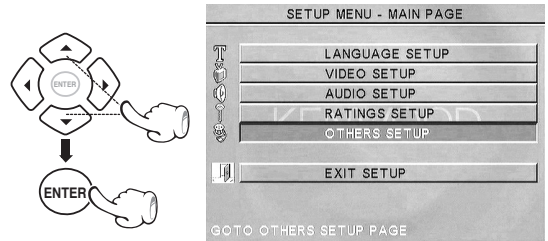


- 7 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

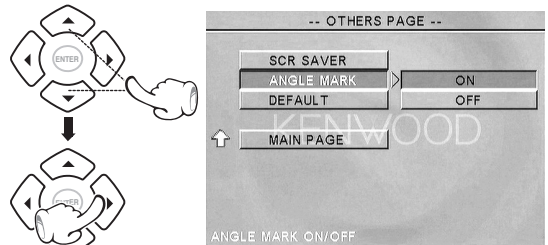
- 1 During stop mode, press SET UP key on the remote.



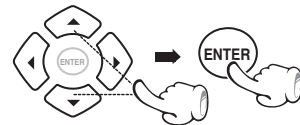
- 2 Press Cursor up/down (▲/▼) keys on the remote to select the OTHERS SETUP, then press the ENTER key to access the sub features



- 3 Press Cursor up/down (▲/▼) keys on the remote to select ANGLE MARK, then press the Cursor right (▶) key to access the sub features

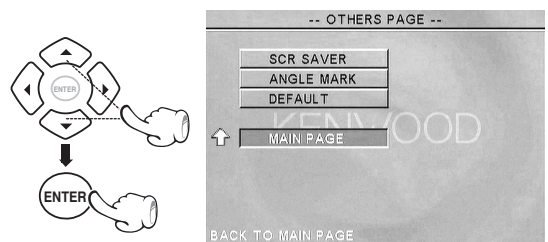


- 4 Press Cursor up/down (▲/▼) keys on the remote to select ON or OFF, then press the ENTER key.



- 5 Press Cursor left (◀) key on the remote to return to previous menu.

- 6 Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



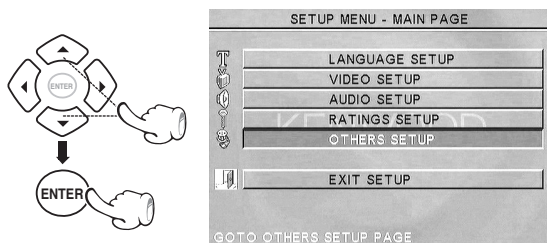
- 7 Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

DVD VCD CD Put back to the Default Setting

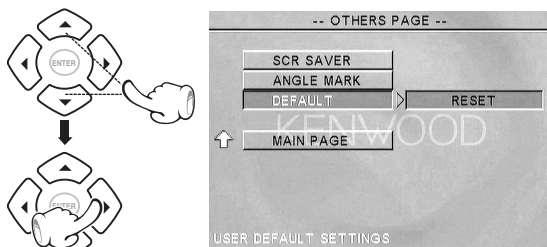
- ① During stop mode, press SET UP key on the remote.



- ② Press Cursor up/down (▲/▼) keys on the remote to select the OTHERS SETUP, then press the ENTER key to access the sub features



- ③ Press Cursor up/down (▲/▼) keys on the remote to select DEFAULT, then press the Cursor right (▶) key to access the sub features

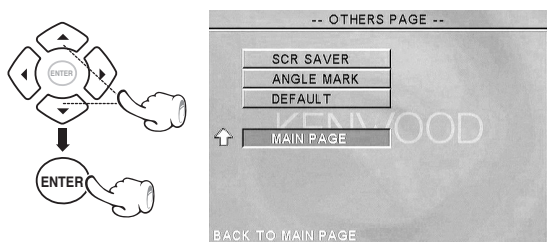


- ④ press the ENTER key to select RESET.



- ⑤ Press Cursor left (◀) key on the remote to return to previous menu.

- ⑥ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



- ⑦ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

DVD menu language code list

Code No.	Language
1027	Afar
1028	Abkhazian
1032	Afrikaans
1039	Amharic
1044	Arabic
1045	Assamese
1051	Aymara
1052	Azerbaijani
1053	Bashkir
1057	Byelorussian
1059	Bulgarian
1060	Bihari
1061	Bislama
1066	Bengali; Bangla
1067	Tibetan
1070	Breton
1079	Catalan
1093	Corsican
1097	Czech
1103	Welsh
1105	Danish
1109	German
1130	Bhutani
1142	Greek
1144	English
1145	Esperanto
1149	Spanish
1150	Estonian
1151	Basque
1157	Persian
1165	Finnish
1166	Fiji
1171	Faeroese
1174	French
1181	Frisian
1183	Irish
1186	Scots Gaelic
1194	Galician
1196	Guarani
1203	Gujarati
1209	Hausa
1217	Hindi
1226	Croatian
1229	Hungarian
1233	Armenian
1235	Interlingua

Code No.	Language
1239	Interlingue
1245	Inupiak
1248	Indonesian
1253	Icelandic
1254	Italian
1257	Hebrew
1261	Japanese
1269	Yiddish
1283	Javanese
1287	Georgian
1297	Kazakh
1298	Greenlandic
1299	Cambodian
1300	Kannada
1301	Korean
1305	Kashmiri
1307	Kurdish
1311	Kirghiz
1313	Latin
1326	Lingala
1327	Laothian
1332	Lithuanian
1334	Latvian; Lettish
1345	Malagasy
1347	Maori
1349	Macedonian
1350	Malayalam
1352	Mongolian
1353	Moldavian
1356	Marathi
1357	Malayalam
1358	Maltese
1363	Burmese
1365	Nauru
1369	Nepali
1376	Dutch
1379	Norwegian
1393	Occitan
1403	(Afan) Oromo
1408	Oriya
1417	Punjabi
1428	Polish
1435	Pashto; Pushto
1436	Portuguese
1463	Quechua
1481	Rhaeto-Romance

Code No.	Language
1482	Kirundi
1483	Romanian
1489	Russian
1491	Kinyarwanda
1495	Sanskrit
1498	Sindhi
1501	Sangro
1502	Serbo-Croatian
1503	Shinghalese
1505	Slovak
1506	Slovenian
1507	Samoan
1508	Shona
1509	Somali
1511	Albanian
1512	Serbian
1513	Siswati
1514	Sesotho
1515	Sundanese
1516	Swedish
1517	Swahili
1521	Tamil
1525	Tegulu
1527	Tajik
1528	Thai
1530	Tigrinya
1531	Turkmen
1532	Tagalog
1534	Setswana
1535	Tonga
1538	Turkish
1539	Tsonga
1540	Tatar
1543	Twi
1557	Ukrainian
1564	Urdu
1572	Uzbek
1581	Vietnamese
1587	Volapuk
1613	Wolof
1632	Xhosa
1665	Yoruba
1684	Chinese
1697	Zulu

Basic play

Preparation

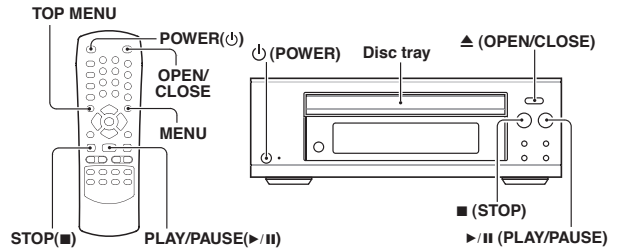
MAIN UNIT



REMOTE



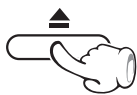
- Press the **⏻** (POWER) key to turn on the power.
- After the power is switched ON the STAND BY indicator will go off.



1 Load a disc.

1 Open the tray.

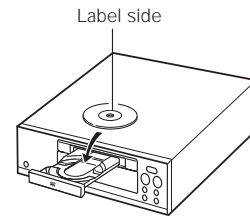
MAIN UNIT



REMOTE

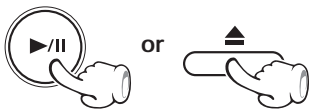


2 Place a disc.

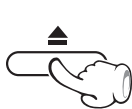


2 Start playback.

MAIN UNIT



or



REMOTE

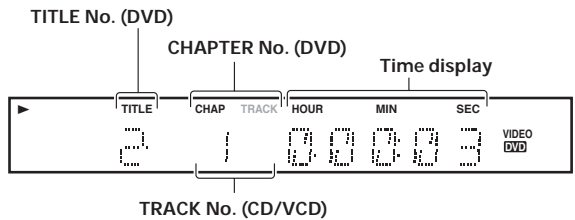


- When the **▶/⏸** (PLAY/PAUSE) key or **▲** (OPEN/CLOSE) key is pressed while a tray is open, the tray closes automatically, and then playback begins.



When a Disc Menu appears on the screen

In case of interactive DVDs, a Disc Menu appears on the screen. Then press **ENTER** key to select specific menu you want to play by using Cursor keys.



- Each press pauses and plays the disc alternately.

When a menu screen is recorded on the DVD disc, the menu screen will be displayed when the TOP MENU/P.B.C. key or MENU key is pressed. At the menu screen, the menu can be selected by pressing the Cursor keys.

TOP MENU/P.B.C.



or

MENU



To stop playback

MAIN UNIT



REMOTE



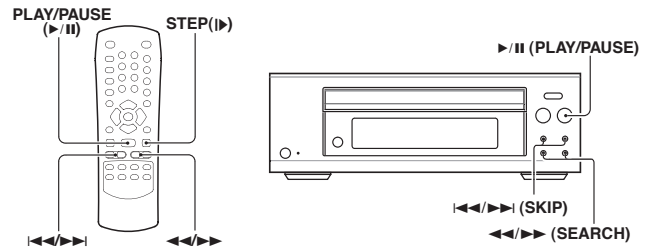
RESUME playback (only DVD)

When the **■** (STOP) key has been pressed once during playback to stop the playback, and then playback is started again, play will start from the point where the playback had been stopped. This is called the RESUME function. When the **■** (STOP) key is pressed again during stop, the RESUME function is cancelled.

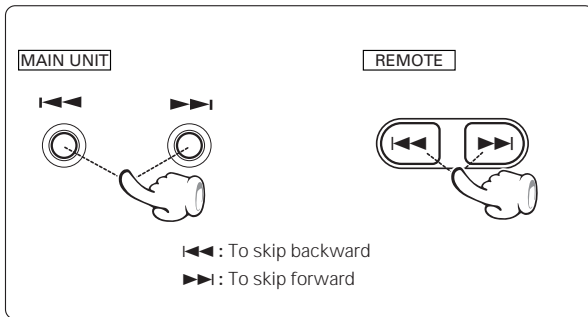
Disc playback features



- You won't hear the sound (audio) on the DVD and VCD when you're using the Skip, Search, Step or Slow motion features.
- Playback features are not available during the opening credits of a movie.



CD DVD VCD Skipping chapters or tracks

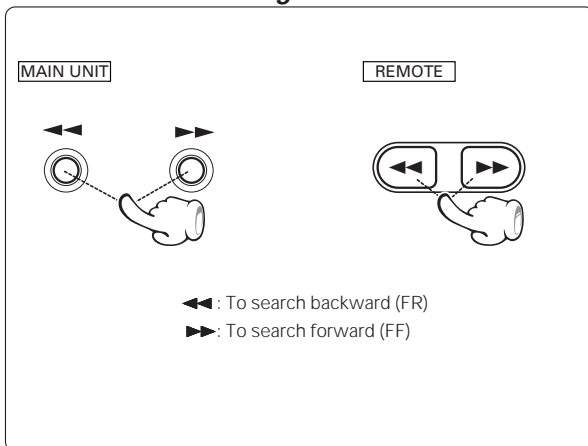


- The chapter (or track) in the direction of the key pressed is skipped, and the selected chapter (or track) will be played from the beginning.
- When the ◀◀ key is pressed once during playback, the chapter (or track) being played will be played from the beginning.



- The Chapter feature won't work if the disc isn't formatted with separate chapters.

CD DVD VCD Searching



- During playback, press the ▶▶ or ◀◀ key.
- Each press switches the searching speed.

(At the time of DVD playback)

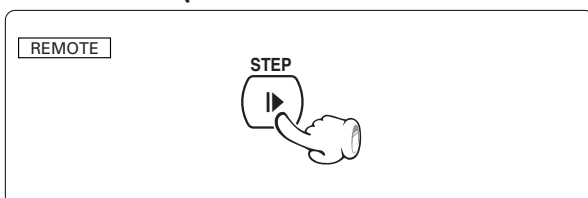
- FF 2 X (▶▶ key) or FR 2 X (◀◀ key)
- FF 4 X (▶▶ key) or FR 4 X (◀◀ key)
- FF 8 X (▶▶ key) or FR 8 X (◀◀ key)
- FF 16X (▶▶ key) or FR 16X (◀◀ key)
- FF 32X (▶▶ key) or FR 32X (◀◀ key)
- FF 64X (▶▶ key) or FR 64X (◀◀ key)

(At the time of CD and VCD playback)

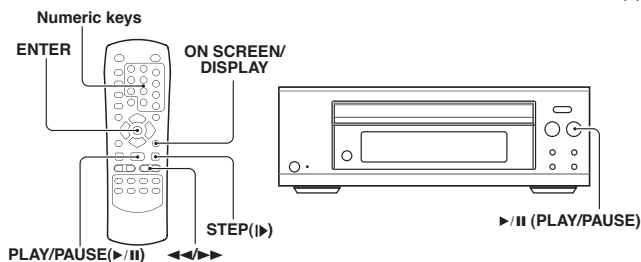
- FF 2 X (▶▶ key) or FR 2 X (◀◀ key)
- FF 4 X (▶▶ key) or FR 4 X (◀◀ key)
- FF 6 X (▶▶ key) or FR 6 X (◀◀ key)

- Press the ▶/|| (PLAY/PAUSE) key at any time to resume normal playback.
- When playing DTS-CD, the searching mode does not work.

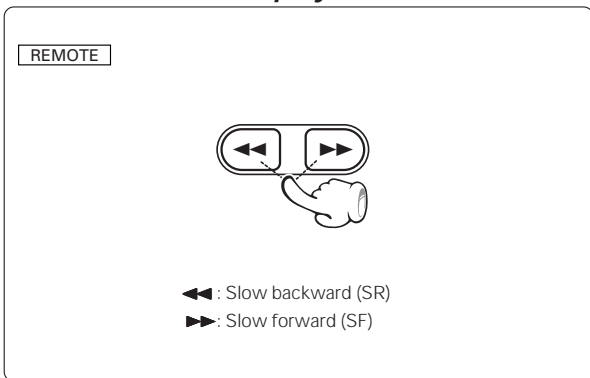
DVD VCD STEP (freeze frame and frame advance)



- During playback, press the STEP (I▶)key.
- Each time you press the keys, the picture advances one frame.
- Press the ▶/|| (PLAY/PAUSE) key to resume normal playback.



DVD VCD Slow motion playback



- During play, press the **STEP (II)** key and press the ▶▶ or ◀◀ keys.
- Each press switches the motion speed.

(At the time of DVD playback)

- ① SF 1/2 (▶▶ key) or SR 1/2 (◀◀ key)
- ② SF 1/4 (▶▶ key) or SR 1/4 (◀◀ key)
- ③ SF 1/8 (▶▶ key) or SR 1/8 (◀◀ key)
- ④ PLAY

(At the time of VCD playback)

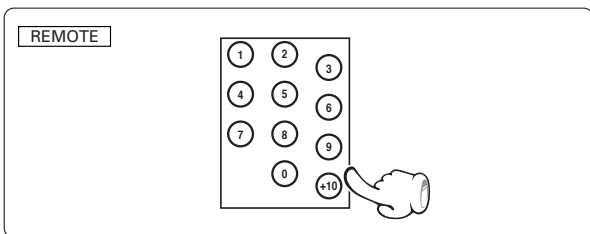
(Slow Reverse is not possible)

- ① SF 1/2 (▶▶ key)
- ② SF 1/4 (▶▶ key)
- ③ SF 1/6 (▶▶ key)
- ④ PLAY

- Press the ▶/II (**PLAY/PAUSE**) key to resume normal playback.

CD OVD VCD Playback from desired track or title

Because DVD VIDEO discs use digital technology, a title can be divided into individual chapters (similar to tracks on a CD).



- Select the desired track No. (CD, VCD) or title No. (DVD)
Press the numeric keys as shown below

(Example) To select track No. 23 : **+10 +10 3**



- P.B.C. on mode of VCD, the Selecting a Track function may not work. → 33

DVD CD VCD On screen display

The elapsed time or the remaining time for the chapter or the track can be displayed on the monitor (TV) screen.

Press the **ON SCREEN/DISPLAY** key on the remote.

Each press the key switches the display.

At the time of DVD playback.

- ① Title number and chapter number display.
(Example) TITLE 01/06 CHAPTER 001/035
- ② Playback from desired time.
Input the desired time you want to play and press **ENTER** key.
(Example) TITLE 01/06 TIME 01:12:36
- ③ **"TITLE PLAYING"**
Elapsed time of the title being played.
- ④ **"TITLE REMAIN"**
Remaining time of the title being played.
- ⑤ **"CHAPTER PLAYING"**
Elapsed time of the chapter being played.
- ⑥ **"CHAPTER REMAIN"**
Remaining time of the chapter being played.
- ⑦ **"OFF"**

ON SCREEN/DISPLAY



At the time of CD/VCD playback.

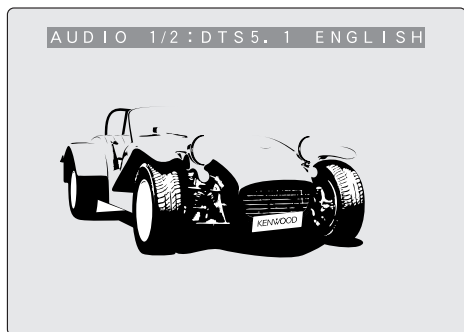
- ① **"GO TO"**
Input the desired time you want play. (___min. ___sec.)
(Example) GO TO 02:45
- ② **"TRACK TIME"**
Elapsed time of the track being played.
- ③ **"TRACK REMAIN"**
Elapsed time of the track being played.
- ④ **"TOTAL REMAIN"***
Remaining time of the disc being played.
- ⑤ **"OFF"**

Items marked by * are not displayed in P.B.C. on mode of VCD.

DVD Select Audio Language

If the disc was created with different language tracks, you can use the **AUDIO KEY** on the remote to temporarily change the DVD player's Audio setting.

During playback, press the **AUDIO** key on the remote.



The language is switched each time the **AUDIO** key is pressed.

- The display is switched off when no operation is performed for about 2 seconds.

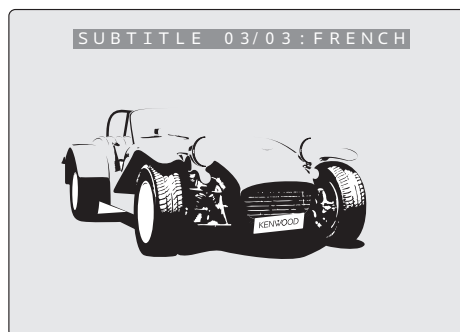


1. The language feature only works if the disc was created with multiple audio tracks.
2. When you chose an audio language by the **AUDIO** key, you only override the audio language setting in the DVD Player's main menu (in the Language Preferences menu within Setup menu) temporarily.

DVD Select Subtitle Language

You can change the Subtitle language while you're watching a disc (but only if the disc was created with subtitles).

During playback, press the **SUBTITLE** key on the remote.



The language is switched each time the **SUBTITLE** key is pressed.

- The display is switched off when no operation is performed for about 2 seconds.



1. The subtitle feature only works if the disc was created with multiple subtitle tracks.
2. The subtitle menu of the disc appears in some discs.

VCD Select the Audio channel

You can choose to play back only the right or the left channel of audio recorded on the disc, or you can select stereo playback.

During VCD playback, press **MULTIPLEX** key on the remote.



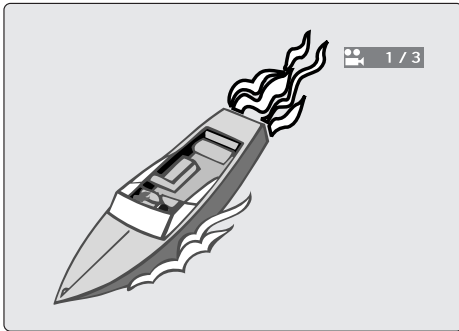
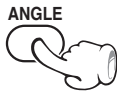
Each press the key switches the mode.

- ① L
- ② R
- ③ STEREO

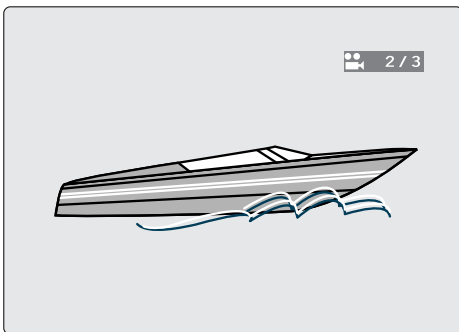
DVD Select Camera angle

Some disc contains multiple angles particular scene or sequence. If the disc only has one angle, this feature won't work.

- 1 During playback, press the ANGLE key on the remote.



- 2 Select the Camera angle with press the ANGLE key.



- The display is switched off when no operation is performed for about 2 seconds.

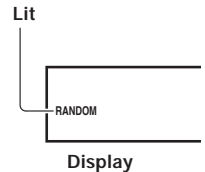
CD VCD Random play

The tracks of the disc are played in random order.

- 1 During stop mode, press the RANDOM key on the remote.



The Random Play display appears



Each time you press RANDOM key on the remote, random play would be on and off.

- 2 Press the ►/|| (PLAY/PAUSE) key to start random playback.

- The menu is switched off when no operation is performed for about 2 seconds.

"MP3/JPEG Random play" → 37

To cancel random play

- 1 Press the ■ (STOP) key to stop playback.
- 2 Press the RANDOM key to cancel random playback.

To repeat random play

During random playback, press the REPEAT key on the remote.



Each press the key switches the mode.

- 1 REP-ONE
- 2 REP-ALL
- 3 REPEAT OFF



- After all tracks of a disc have been played in random order, playback will stop.
- When playing a DVD, the Random mode does not work.
- When switching to **RANDOM** mode with a VCD in **P.B.C. ON** mode, the **P.B.C.** mode will become **OFF**.

DVD CD VCD Repeat play

Desired title, chapter, track or disc can be played back repeatedly.

At the time of DVD playback.

- "CHAPTER REPEAT" : Repeat the chapter that is playing.
- "TITLE REPEAT" : Repeat the title that is playing.

At the time of CD/VCD playback.

- "REPEAT ONE" : Repeat the track that is playing.
- "REPEAT ALL" : Repeat the disc that is playing.

During playback, press the REPEAT key on the remote.



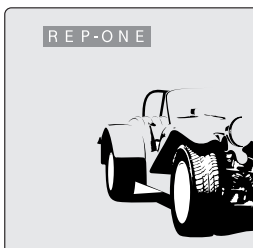
Each press the key switches the REPEAT mode

At the time of DVD playback.

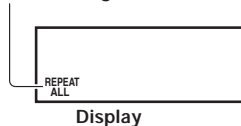
- ① "CHAPTER REPEAT ON" : Display lit "REPEAT 1"
- ② "TITLE REPEAT ON" : Display lit "REPEAT 1ALL"
- ③ "REPEAT OFF"

At the time of CD/VCD playback.

- ① "REP ONE" : Display lit "REPEAT 1"
- ② "REP ALL" : Display lit "REPEAT ALL"
- ③ "REPEAT OFF"



At the time of REPEAT mode "REPEAT" is light.



- To cancel repeat playback, press the **REPEAT** key and select "REPEAT OFF".
- The menu is switched off when no operation is performed for about 2 seconds.

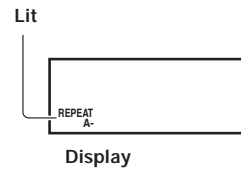
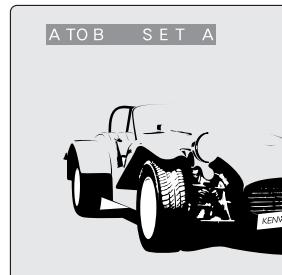
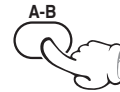


P.B.C. on mode of VCD, the Repeat play function does not work. 33

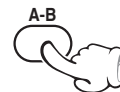
DVD CD VCD A-B Repeat play

The A-B repeat function lets you mark a segment to repeat between the beginning "A" and the end "B" of the segment you want to replay.

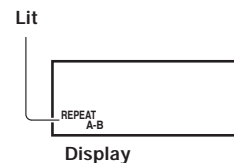
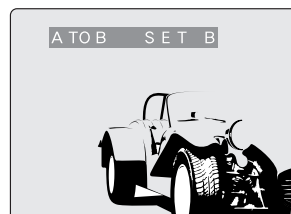
- ① Press the A-B key on the remote when you want to choose a scene (sound) as the beginning point.



- ② Press the A-B key again to choose a scene (sound) as the end point.



The Repeat B (Repeat A-B) display appears



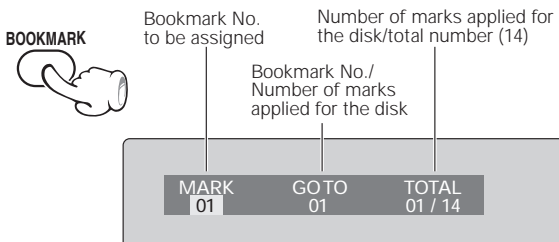
- To cancel A-B Repeat playback, press the **A-B** key.
- The menu is switched off when no operation is performed for about 2 seconds.

DVD CD VCD *Using Bookmarks*

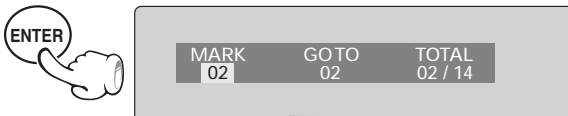
The bookmark feature lets you mark a point on the disc that you can go to quickly. You can store up to 14 bookmarks.

Create the bookmark

- 1 During playback, press the **BOOKMARK** key on the remote.



- 2 Press Cursor up/down (▲/▼) keys on the remote to select desired bookmark number.
- 3 When you reach the scene you want to mark, press **ENTER** key.



- Up to 14 bookmarks can be applied in the same way for one disc.
- When the **ENTER** key is pressed at a previously marked bookmark, that mark will be changed to the new point.

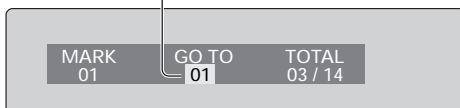
Recalling a bookmarked scene

- 1 During playback, press the **BOOKMARK** key on the remote.



- 2 Press the Cursor right (▶) key on the remote to recalling a bookmark number.

Set the cursor to this position.



- 3 Press the Cursor up/down (▲/▼) key on the remote to select the bookmark number you want to activate, then press **ENTER** key.



- If all 14 bookmarks are in use, you can still mark new scenes, but the previous bookmarks will be erased.
- Depending on the disc, the Bookmark function may not work.
- P.B.C. on mode of VCD, the Bookmark function does not work.

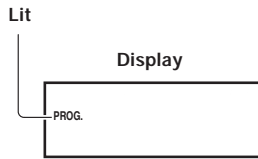
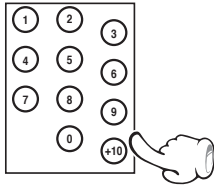
You can listen to the desired tracks of the current CD or VCD in any desired order.

Program Edit

- 1 During stop mode, press the P.MODE key on the remote.



- 2 Select specific track by Press Numeric keys and +10 key.



- MP3/JPEG discs can not be programmed with this program mode.

- 3 You can select maximum 30 values by repeating step 2.

- To delete last track you selected, press CLEAR key.

- 4 Press ►/|| (PLAY/PAUSE) key to start program play.

- After start programplay, new track can't be added.
- The unit stops when the P.MODE key or the ■ (STOP) key is pressed. To restart program play, press the P.MODE key.

To repeat program play

During program playback, press the REPEAT key on the remote.



Each press the key switches the mode.

- 1 "REP-ONE"
- 2 "REP-ALL"
- 3 "REPEAT OFF"

To release program play

During stop mode, press the P.MODE key on the remote.



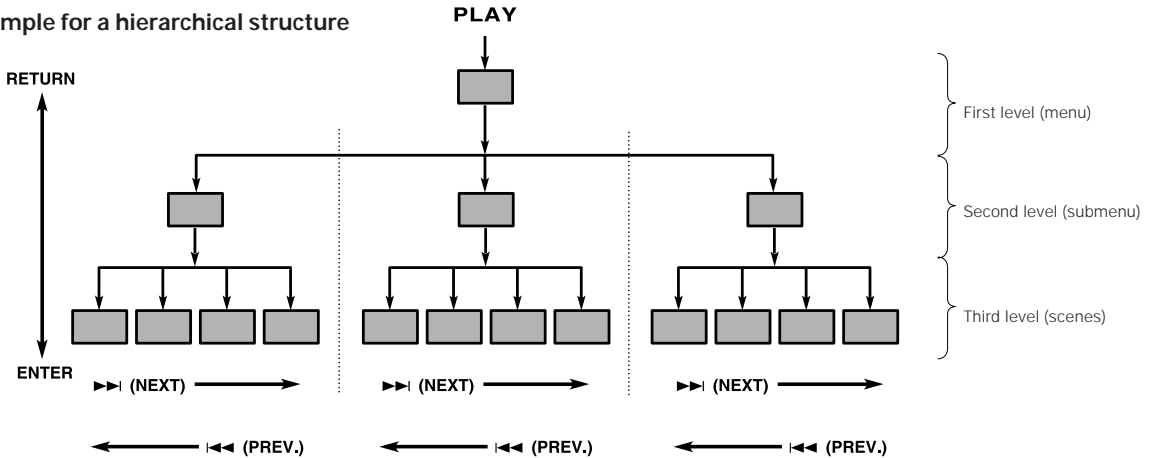
In following case, Program play would be released.

1. When you open and close tray.
2. When you turn power off and on.

VCD Hierarchical structure of VCD menus

When an item is selected on the menu screen during playback of a P.B.C.-compatible VCD, another menu with more details items may be displayed. When a number of menus are connected in multiple layers in this way, it is said that the menus have a hierarchical structure. In this structure, the desired scene can be reached by repeating item selections on the menu screens.

Example for a hierarchical structure



Advancing

When an item is selected on the menu screen with the numeric keys, advance is made to the next lower menu level. When the advance destination is the "scene" to be played, the contents will be played.

Returning

Each time the RETURN key is pressed, return is made to the next higher menu.

Examples of operation keys and indications used during VCD playback

Soft jacket indication					
KENWOOD operation key		RETURN			ENTER

- Depending on the software, the jacket indication may differ from the above.

VCD Playback without using the menu playback function (In case of a P.B.C.-compatible VCD) (To P.B.C. On or Off)

During VCD playback or stop mode, press the TOP MENU/P.B.C. key on the remote control unit.



- For the track numbers, refer to the disc jacket or other material.
- P.B.C. off mode : Without using menu playback function.



To return to menu playback

Press the TOP MENU/P.B.C. key again. Lit



Playback will stop when P.B.C. is switched on or off during playback.

Guidance of MP3/JPEG

MP3/JPEG media that can be played back with this equipment

Usable media : CD-ROM, CD-R, CD-RW

Usable formats : ISO9660 level 1 (excluding expanded formats)

Files that can be played back : MP3 files and JPEG files (including Progressive JPEG)

Creating media for playing back on this equipment

Compressing MP3

Please set up the transfer bit rate setting for the compression software when compressing MP3 files as follow.

MP3 Files : 128kbps recommended (32kbps-320kbps)

- This unit is compatible with 32 kHz, 44.1 kHz(recommended) and 48 kHz sampling frequencies.
- This unit is compatible with ID3-TAG Ver. 1.
- DIGITAL output of MP3 data is done not as MP3 data, but as PCM data.

Naming folders and files

Single-byte characters between A and Z, single-byte numerals between 0 and 9, and the single-byte underscore(_) can be displayed. Ensure that the "mp3" (MP3 files) or "jpg" (JPEG files) extension log is attached to all file names

- Never add the "mp3" extension log to any files other than MP3 files. If the "mp3" extension log is added to any files other than MP3 files, the equipment will assume that they can be played back, and this will produce loud noises in the speakers, resulting in damage of adverse effects.
- Never add the "jpg" extension log to any files other than JPEG files. If the "jpg" extension log is added to any files other than JPEG, the unit will not operate normally.

Confirming media and files

Check to ascertain that MP3 files can be played back correctly on the personal computer in use prior to saving them onto the media. Check to ensure that the saved file can be played back normally.

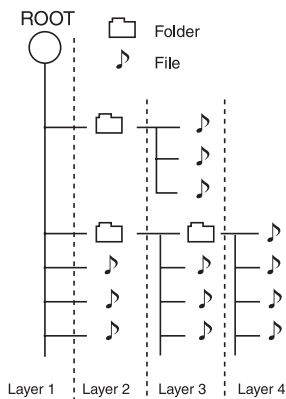
- It is not possible to confirm that files can be played back correctly while they are being saved onto the media.

When saving files onto media

Ensure that the session is closed or finalized when data has been written on media. There are cases where media on which the session has not be closed or finalized will not be played back correctly with this equipment.

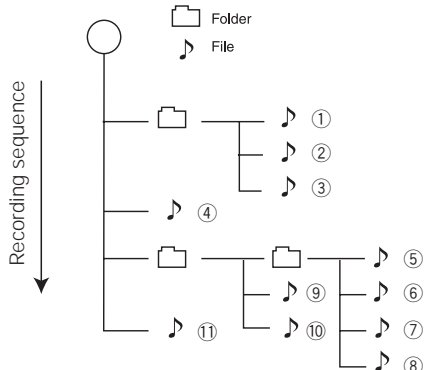
- There are cases where the folder names and file names will not be displayed correctly depending on the software used to save them.
- Do not store files or folders other than MP3 or JPEG on media to be played back with this equipment.
- It is recommended that ten or less sessions are stored when recording MP3 files onto a media.
- In case of a multisession disc, some time may be required until playback begins.
- There are cases where playback is not possible when MP3/JPEG files (CD-ROM) and music CD information (CD-DA) are saved on the same media.

Example for a hierarchical structure



Example for the playback sequence

Playback is made in the order of ① to ⑪ in the following example.



Folder names and file names are displayed up to 11 characters. When folder names and file names are recorded with more than 11 characters, the names will be displayed in abbreviated form.

Playing back MP3/JPEG files

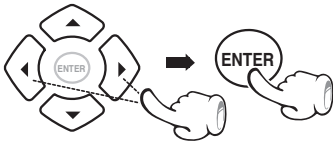
- It is not possible to play back folders and files that exceed the maximum limitations of the media.
- A certain amount of time is required for the player to confirm the media on which MP3/JPEG files have been recorded before playback will commence.

Playback

- During stop mode, press REPEAT key on the remote to select play mode.



- Press Cursor left/right (◀/▶) keys on the remote to select desired folder and file, then press the ENTER key to start playback.



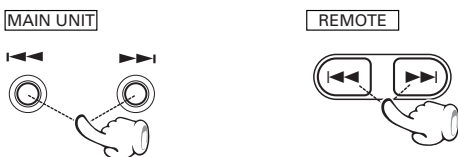
- When JPEG files are displayed, the display is switched automatically from one file to the next. The switching speed differs according to the file size.

To stop playback press the ■ (STOP) key.



Skipping files

During playback, press the ◀◀ or ▶▶ key.



◀◀: To skip backward
▶▶: To skip forward

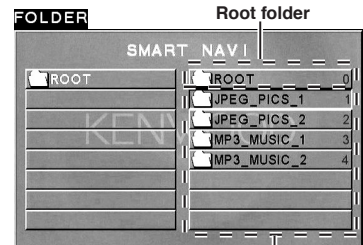
Note When the play mode is "FOLDER", "FOLDER REPEAT" or "REPEAT ONE", skipping to outside the folder being played is not possible.



- The SMART NAVI screen will be displayed when an MP3 or JPEG disc is set.

Each press switches the play mode.

- DISC REP : Repeat all files on the disc. (The REPEAT ALL indicator light up.)
- DISC SCAN : Playback all files on the disc each 10 seconds. (The 1ALL indicator light up.)
- SINGLE : Playback the file that is selected. (The 1 indicator light up.)
- FOLDER : Playback the folder that is selected. (The REPEAT 1 indicator light up.)
- REP-ONE : Repeat the file that is selected. (The REPEAT 1 indicator light up.)
- FOLDER REP: Repeat the folder that is selected. (The REPEAT indicator light up.)
- DISC : Playback the disc. (The ALL indicator light up.)



Folders and files in the root folder

- If you want to show Time display, press ON SCREEN DISPLAY on the remote.
- Maximum 11 characters are displayed. **Time display**

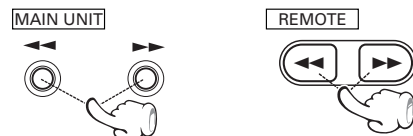


Selected file

- Maximum 11 characters are displayed.

Searching (only for MP3 files)

During playback, press the ◀◀ or ▶▶ key.



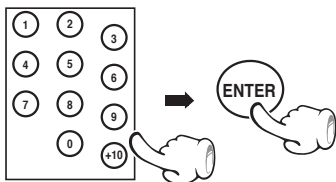
- Each press switches the searching speed.

- FF 2 X (▶▶ key) or FR 2 X (◀◀ key)
- FF 4 X (▶▶ key) or FR 4 X (◀◀ key)
- FF 6 X (▶▶ key) or FR 6 X (◀◀ key)
- FF 8 X (▶▶ key) or FR 8 X (◀◀ key)

Note Searching mode is not available when DISC SCAN mode has been chosen.

Selects the files to be played back directly

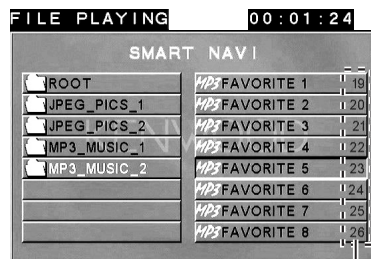
Press the numeric keys on the remote to enter the desired file number or folder number.



(Example)

To select track No. 23 : **+10** **+10** **3**

- When a folder is selected, the contents of the selected folder will be displayed.
- When a file is selected, playback of the selected file will start.



File numbers and folder numbers



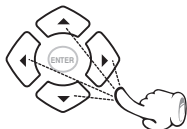
For selection of a number, refer to the file numbers on the SMART NAVI screen.

The file numbers shown on the display of the main unit differ from the file numbers entered directly with the numeric keys, as the numbers for each folder are displayed.

Rotating a picture (JPEG files only)

It is possible to rotating a picture.

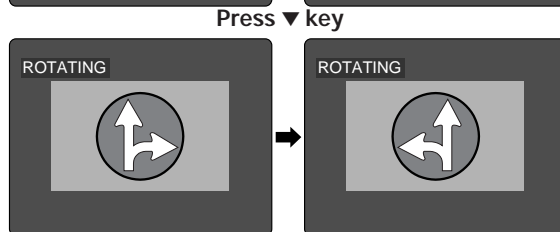
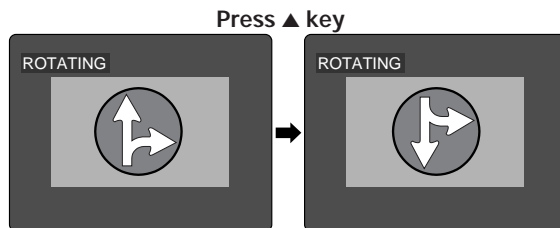
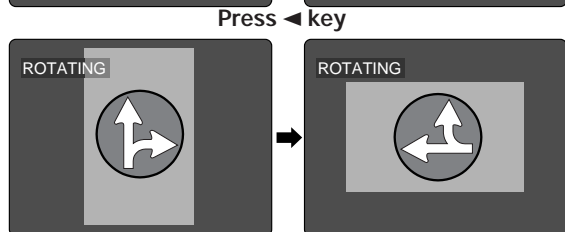
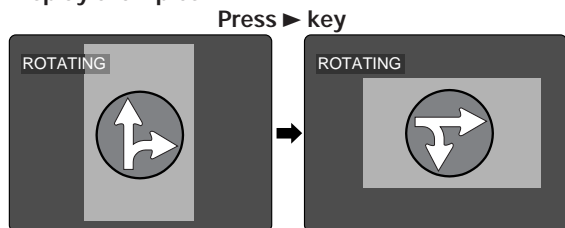
During JPEG file playback, press the Cursor (◀/▶/▲/▼) keys on the remote.



Switching as shown below is done when the cursor keys are pressed.

- ▶ key : 90° rotation in clockwise direction
- ◀ key : 90° rotation in counterclockwise direction
- ▲ key : Vertical mirror image
- ▼ key : Horizontal mirror image

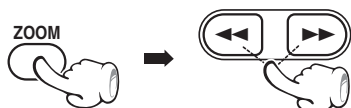
Display examples



Enlarge / Reduce picture size (JPEG files only)

It is possible to enlarge or reduce picture size.

During JPEG file playback, press the ZOOM key on the remote. And then press the ◀/▶ keys.



Switching as shown below is done when the ◀/▶ keys are pressed.

- ▶▶ key : Enlarge picture size
- ◀◀ key : Reduce picture size

- During this ZOOM mode, zoom ratio of picture appears.
- When the ZOOM key is pressed again, the ZOOM mode is cancelled.

MP3/JPEG Random play

The files of a folder are played in random order.

- "RANDOM ON" : The files of a folder being played will be selected in random order for playback.

- 1 During stop mode, press the **RANDOM** key on the remote.

RANDOM



At the time of RANDOM mode
"RANDOM" is light.

RANDOM

Display

Each time you press **RANDOM** key on the remote, random play would be on and off.

- 2 Select a file in the folder to be played, press the **▶/||** (**PLAY/PAUSE**) key, and start random playback.

RANDOM

SMART NAVI

ROOT	FAVORITE 1	19
JPEG_PICS_1	FAVORITE 2	20
JPEG_PICS_2	FAVORITE 3	21
MP3_MUSIC_1	FAVORITE 4	22
MP3_MUSIC_2	FAVORITE 5	23
	FAVORITE 6	24
	FAVORITE 7	25
	FAVORITE 8	26

- In case of **RANDOM ON** mode, playback will stop after all files in the folder have been played back once.

To cancel random play

- 1 Press the **■** (**STOP**) key to stop playback.



- 2 Press the **RANDOM** key to cancel random playback.



To random repeat play

During stop mode, press the **RANDOM** key, then press the **REPEAT** key on the remote.

- In case of **RANDOM REP** mode, all files in the folder will be played back repeatedly. It is also possible that the same file will be played back twice in a row.

To cancel random repeat play

Press the **■** (**STOP**) key to stop random repeat playback, then press the **REPEAT** or **RANDOM** key.

What appears to be a malfunction may not always be serious. If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Operation to reset

The microprocessor may fall into malfunction (impossibility to operate erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor.

In this case, switch off the power, wait for several seconds, and then switch the power on again. Return to the factory defaults by resetting the microprocessor is done as shown as follows.



Unplug the power cord after turn the ⏻ (POWER) key OFF. Then, while holding down the ⏻ (POWER) key, plug the power cord.

• Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

DVD player unit

Symptom	Cause	Remedy
Playback does not start when the ►/II key is pressed.	<ul style="list-style-type: none"> There is no disc in the player. There are no signals recorded on the side of the disc being played. For CD-R/RW disc, session is not closed. 	<ul style="list-style-type: none"> Load a disc and press the ►/II (PLAY/PAUSE) key. Turn the disc over and properly place it on the disc tray. Close session.
Playback starts but no image/sound is seen heard.	<ul style="list-style-type: none"> The TV is not turned on. The connection cords are not properly connected. Progressive mode is set on INTERLACE TV. 	<ul style="list-style-type: none"> Turn on the TV. Properly reconnect the connection cords. → 10 → 11 Change setting to INTERLACE mode. → 14
The picture is disrupted when the image is fast forwarded or fast reversed.	<ul style="list-style-type: none"> The picture is slightly disrupted during fast forward and fast reverse operations. 	<ul style="list-style-type: none"> This is not a malfunction.
No sound is heard.	<ul style="list-style-type: none"> The audio output cords are not properly connected. The volume control of the TV or amplifier is not adjusted properly. The player is in a special playback mode. The setting of Audio output is not correct. 	<ul style="list-style-type: none"> Properly connect the audio cords. → 10 → 11 Set the sound volume to an appropriate level. Press the ►/II (PLAY/PAUSE) key to resume normal playback mode. Properly select the setup menu. → 15 → 19
The picture does not look good or the picture/sound quality is poor.	<ul style="list-style-type: none"> A nearby device is generating noise. The disc is dirty. The disc is damaged. There is condensation on the optical lens. 	<ul style="list-style-type: none"> Separate this unit as far as possible from the device you think is generating the noise. Refer to the "Disc handling precautions" section and wipe dirt from the disc. → 9 Use a new disc. Refer to the "Caution on condensation" section and evaporate the condensation. → 9
It takes a while for the disc to start playing.	<ul style="list-style-type: none"> Time is required for the unit to detect the disc type and size and for the rotation of the motor to stabilize. This is not a malfunction. 	<ul style="list-style-type: none"> Approximately 10 to 20 seconds are required for a disc to start playing, although the time differs depending on the disc.
The tray opens automatically.	<ul style="list-style-type: none"> The disc is not placed horizontally. 	<ul style="list-style-type: none"> Properly place the disc on the tray.
The top and bottom of the screen cannot be seen, or the screen becomes black-and-white.	<ul style="list-style-type: none"> The video format of the disc being played does not match that of the connected TV monitor. 	<ul style="list-style-type: none"> Refer to the "Video formats" section and use a disc with the appropriate video format for your TV or a TV with the appropriate video format for the disc. → 8
The subtitle is not displayed.	<ul style="list-style-type: none"> The DVD disc being played does not contain the recording of subtitles. The subtitle mode is set to off. 	<ul style="list-style-type: none"> The subtitle cannot be displayed when the DVD disc being played does not contain the recording of subtitles. Press the SUBTITLE key to switch on the subtitle mode. → 30
The voice (or subtitle) language cannot be changed.	<ul style="list-style-type: none"> The DVD disc being played does not contain the recording of more than one audio (or subtitle) language. 	<ul style="list-style-type: none"> The voice (or subtitle) language cannot be changed when the DVD disc being played does not contain the recording of more than one voice (or subtitle) language.
The viewing angle cannot be changed.	<ul style="list-style-type: none"> The DVD disc being played does not contain the recording of more than one angle. You are attempting to switch the angle in a DVD section where more than one angle is not recorded. 	<ul style="list-style-type: none"> The viewing angle cannot be changed when the DVD disc being played does not contain the recording of more than one angle. More than one viewing angle may be recorded only in limited sections in a disc.


DVD player unit

Symptom	Cause	Remedy
Playback will not start even after a title is selected.	<ul style="list-style-type: none"> A viewing restriction (RATING) has been set for the disc. 	<ul style="list-style-type: none"> Check the viewing restriction level (RATING) setting. 
The Rating level cannot be changed.	<ul style="list-style-type: none"> You have forgotten the password. 	<ul style="list-style-type: none"> Set the initial setup to the factory setup with the following procedure. <ol style="list-style-type: none"> Press the ▲ (OPEN/CLOSE) key to open tray. Press the SET UP key on the remote to enter SETUP MENU. Enter [8], [8], [0], [0], with the numeric keys on the remote. Press the SET UP key on the remote. Press the SUBTITLE on the remote Press the ⏻ (POWER) key to turn off the power. Press the ⏻ (POWER) key to turn on the power. The password set at the time of shipping from the factory is "0000".
The voice or subtitle language selected in the initial setting is not played.	<ul style="list-style-type: none"> The DVD disc being played does not contain the recording of the selected voice or subtitle language. The initial playback language is specified by the DVD disc. The DVD specifications provide for selection at the menu screen. 	<ul style="list-style-type: none"> Use a DVD disc containing the recording of the selected voice or subtitle language. Press SUBTITLE or the AUDIO key on the remote and select the language. Select at the menu screen of the disc.
Menu screen messages are not shown in the desired language.	<ul style="list-style-type: none"> The menu language function (MENU) is not set to desired language. 	<ul style="list-style-type: none"> Select disc menu language. 
A VCD cannot be played using menus.	<ul style="list-style-type: none"> The VCD disc being played is not compatible with P.B.C. 	<ul style="list-style-type: none"> Menu playback is available only with VCD discs recorded with P.B.C.
Disk tray opening/closing operation will not be accepted.	<ul style="list-style-type: none"> Operation is prohibited. 	<ul style="list-style-type: none"> Press the MENU key of the remote control for several seconds while holding the ■ (STOP) key on the main unit pressed. "LOCK OFF" will be displayed and operation will become possible.

Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.	<ul style="list-style-type: none"> Batteries are exhausted. The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between. 	<ul style="list-style-type: none"> Replace with new batteries. Operate the unit inside the remote controllable range.

Inhibition icon

Symptom	Cause	Remedy
 The inhibition icon is displayed and remote control is not possible.	<ul style="list-style-type: none"> Playback is restricted intentionally by the software producer. 	<ul style="list-style-type: none"> The operation is inhibited. Please try another operation.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.


"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.



This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE "STANDARD DEFINITION" OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

[Type]		[Video Section]	
System	DVD video player	D/A Converter	
Signal read system	Semiconductor laser	D/A conversion	10 Bit
Wave length	For DVD ; 640 to 660 nm	Oversampling .. 4 fs (Sampling frequency; 13.5 MHz)	
	For CD ; 775 to 805 nm	Video output format	NTSC/PAL
Laser power class	Class 1 (IEC)	Composite video output level	
		1 Vp-p (75 Ω load, sync. negative)
[Digital / Audio section]		S-video output level	
D/A Converter		(Y-signal)	1 Vp-p (75 Ω load, sync. negative)
D/A conversion	24 Bit	(C-signal)	
Oversampling	4 fs (Sampling frequency; 48 kHz)	NTSC	0.286 Vp-p (75 Ω)
Frequency response		PAL	0.300 Vp-p (75 Ω)
Sampling frequency ; 44.1 kHz	8 Hz ~ 20 kHz	Component Video output level	
Sampling frequency ; 48 kHz	8 Hz ~ 22 kHz	(Y-signal)	1 Vp-p (75 Ω)
Sampling frequency ; 96 kHz	8 Hz ~ 44 kHz	(Cb-signal)	0.7 Vp-p (75 Ω)
Signal to noise ratio	More than 105 dB	(Cr-signal)	0.7 Vp-p (75 Ω)
Dynamic range	More than 94 dB (16 bit)	Horizontal resolution	500 lines (Composite output)
Total harmonic distortion ..	Less than 0.007 % (at 1 kHz)	Video signal to noise ratio	
Channel separation	More than 85 dB (at 1 kHz)	More than 62 dB (Composite output)
Wow and flutter	Below measurable limit		
Analog output level/impedance	2 V / 1.2 kΩ		
Digital output level/impedance		[General]	
COAXIAL	0.5 Vp-p / 75 Ω	Power consumption	15 W (at 240V)
OPTICAL	-21 dBm ~ -15 dBm (Wave length 660 nm)	Standby power consumption	1.2 W (at 240V)
		Dimensions	W : 220 mm (8-11/16")
			H : 77 mm (3-1/16")
			D : 308 mm (12-1/8")
		Weight (net)	2.8 kg (5.5 lb)

 **KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.**

- Sufficient performance may not be exhibited at extremely cold locations (Where water freezes).

KENWOOD

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model _____ Serial Number _____

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