

KENWOOD

CD / VIDEO-CD / DVD PLAYER

DV-S700

INSTRUCTION MANUAL

KENWOOD CORPORATION



This player product has been designed to reproduce DVD software that has been encoded for a specific region area. When the player is used to reproduce DVD software that has been encoded for other region area than intended, it may be unable to exhibit the expected performance for the player.

This instruction manual for this model also covers the systems in the KENWOOD System "SERIES 21" lineup. Since the features vary depending on the combined systems, the remote control operation illustrations (icons) are shown for two types of remote control unit.

Refer to the instruction manual included with the AV CONTROL CENTER or the receiver for the basic remote control operations.

NOTE:

Do not transport the system with a disc left in it.



Introduction

DV-S/CC (En./K)

Before applying power

Caution : Read this section carefully to ensure safe operation.

Units are designed for operation as follows.

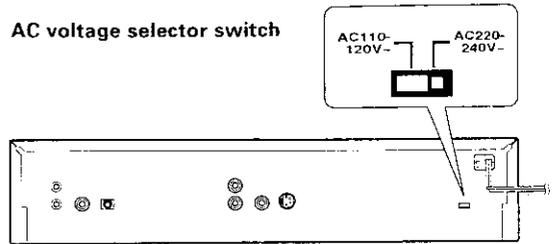
U.S.A. and Canada AC 120 V only
 * Other countries AC 110-120/220-240 V switchable

*AC voltage selection

The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

Note:
 Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

AC voltage selector switch



Move switch lever to match your line voltage with a small screwdriver or other pointed tool.

Preparations

Safety precautions

Caution : Read this section carefully to ensure safe operation.

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

 <div data-bbox="244 1195 440 1266" style="border: 1px solid black; padding: 5px; text-align: center;"> CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN </div> 	<p>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.</p>
	<p>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.</p>
	<p>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.</p>

The marking of products using lasers (Except for some areas)

**CLASS 1
 LASER PRODUCT**

The marking is located on the rear panel and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost. Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Keep this manual handy for future reference.

Accessories

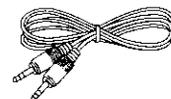
Audio cord (Red,White)..... (2)



Digital cord (Orange)..... (1)



System control cord..... (1)



Remote control unit..... (1)



Batteries (R6/AA)..... (2)



Video cable (Yellow)..... (1)



Contents

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

4

Preparations

Preparations

Introduction	2
 Before applying power	2
 Safety precautions	2
Special features	5
System connection	8
Connection with the AV CONTROL CENTER (optional), ordinary amplifier, etc.	8
Connection to a TV (optional)	10
Connection to an MD recorder (optional)	10
Controls and indicators	12
Main unit	12
Remote control unit	13
Operation of remote control unit	14
Graphical Remote Control Unit (GRC)	15
Basic Operations for the Graphical Remote Control Unit (GRC)	16
Playable discs	19
Video formats	20

Operations

Playing tracks in order from track No.1 (Viewing)	22
Playing the desired section of disc	24
Menu playback of VCD and DVD	26
Searching for tracks by title (TITLE SEARCH)	28
Displays	29
Programming the order of playing tracks (PROG. mode)	30
Repeated playback	32
Storing desired scenes in memory (Memory function)	34
Using versatile functions of DVD	35
To switch the voice language (AUDIO function)	35
To display or switch the subtitle language (SUBTITLE function)	35
To switch the viewing angle (ANGLE function)	36
To switch the titles (TITLE function)	36
Changing the initial setting	37

Other

DVD menu language code list	40
Important items	41
In case of difficulty	42
Terminology	44
Specifications	45

Special features

Higher picture quality than S-VHS video and laser disc



The horizontal resolution is 500 lines, which exceeds the resolution of the S-VHS video (400 lines) and laser disc (430 lines). The difference in picture quality is more obvious when viewed on a large screen.

Higher sound quality than music CD



The ultrahigh sound quality design of the DVD is capable of playing discs with higher sound quality than music CD, from those recorded with 16-bit digital audio at 48 kHz sampling frequency up to those recorded with 24-bit digital audio at 96 kHz sampling frequency. When the 96 kHz sampling frequency is used, the reproduction bandwidth can be extended as high as above 40 kHz.

Versatility that's only available with DVD



Audio function: - [35]

When a DVD disc carrying the  mark is played, the desired voice language can be selected from up to 8 languages. (The number of voice languages is variable depending on discs.)

Subtitle function: - [35]

When a DVD disc carrying the  mark is played, the desired subtitle language can be selected from up to 32 languages. (The number of subtitle languages is variable depending on discs.)

Angle function: - [36]

When a DVD disc carrying the  mark is played, the angle of viewing an object can be selected from up to 9 angles as if switching the image being shot by multiple cameras. (The number of angles is variable depending on discs.)

Memory function: - [34]

Up to 3 scenes can be stored in memory and recalled whenever you want to see them later again.

Viewing restriction function: - [38]

If you have a DVD disc that you do not let children view, you can assign restrictions to certain scenes in the disc so that this unit does not play the restricted scenes. (This function is available only with discs containing the recording of viewing restriction levels.)

5.1-channel down-mixed output (Digital output only) using the built-in Dolby Digital (AC-3) surround decoder



The DOLBY DIGITAL (AC-3) mode lets you enjoy full digital surround from software processed in the Dolby Digital (AC-3) format. Dolby Digital (AC-3) provides up to 5.1 channels of independent digital audio for better sound quality and more powerful presence than conventional Dolby Surround.

Video CD (P.B.C.) correspondence



This unit corresponds to VIDEO CD (with P.B.C.). Menu playback can be enjoyed with the P.B.C. (playback control) function.

Programmed playback



Up to 18 desired chapters (or tracks) can be programmed in the desired sequence and played back later.

CD-TEXT support



The text information (disc title, track titles, names of the artists, songwriters, composers, etc.) recorded on the CDs can be easily called and displayed in alphanumeric. (Some characters may not be displayed.)

Advanced technologies incorporated in pursuit of improved sound quality and stability



D.R.I.V.E. (Dynamic Resolution Intensive Vector Enhancement) IC is built in for drastic reduction of distortion at small signal level.

A new, high-performance D/A converter with 24-bit internal operations is built in.

Region codes of this unit

A DVD player has a region code assigned to it depending on the country or area where it is used. As a result, this unit cannot play DVD discs unless the region codes assigned to the discs match the region code assigned to this unit. See following table for details. (As of October 1997)

Assigned Countries or Areas	Region Code of This unit
1	Canada, United States, American Samoa, Bermuda, Johnston Island, Midway Islands, Puerto Rico, St.Pierre and Miquelon, United States Virgin, Wake Island
2	Albania, Andorra, Austria, Bahrain, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech, Denmark, Egypt, Finland, France, Germany, Greece, Hungary, Iceland, Iran, Iraq, Ireland, Israeru, Italy, Japan, Jordan, Kuwait, Lebanon, Lesotho, Liechtenstein, Luxembourg, Macedonia, Malta, Monaco, Netherlands, Norway, Oman, Poland, Portugal, Qatar, Pomania, San Marino, Saudi Arabia, Slovakia, Slovenia, South Africa, Spain, Swaziland, Sweden, Switzerland, Syrian Arab Republic, Turkey, United Arab Emirates, United Kingdom, Vatican City State, Yemen, Yugoslavia, Channel Islands, Faeroe Islands, Gibraltar, Greenland, Isle of Man, Svalbard and Jan Mayen Islands
3	Brunei Darussalam, Cambodia, Indonesia, Korea, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Viet Nam, East Timor, Hong Kong, Macau, Taiwan
4	Antigua and Barbuda, Argentina, Australia, Bahamas, Barbados, Belize, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Fiji, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Kiribati, Marshall Islands, Mexico, Micronesia, Nauru, New Zealand, Nicaragua, Palau, Panama, Papua New Guinea, Paraguay, Peru, Saint Christopher and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Samoa, Solomon Islands, Suriname, Tonga, Trinidad and Tobago, Tuvalu, Uruguay, Vanuatu, Venezuela, Anguilla, British Virgin Islands, Cayman Islands, Christmas Island, Cocos Islands, Cook Islands, Falkland Island, French Guiana, French Polynesia, Guadeloupe, Guam, Martinique, Montserrat, Netherlands Antilles, New Caledonia, Niue Norfolk Island, Northern Mariana Islands, Pitcairn, Tokelau, Turks and Caicos Islands, Wallis and Futuna-Islands
5	Afganistan, Algeria, Angola, Armenia, Azerbaijan, Bangladesh, Belarus, Benin, Bhutan, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central Africa, Chad, Comoros, Congo, Cote d'Ivoire, Djibouti, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Gabon, Gambia, Georgia, Ghana, Guinea, Guinea-Bissau, India, kazakhstan, Kenya, Kyrgyz Republic, Latvia, Liberia, Libya, Lithuania, Madagascar, Malawi, Maldives, Mali, Mauritania, Mauritius, Moldova, Mongolia, Morocco, Mozambique, Namibia, Nepal, Niger, Nigeria, North Korea, Pakistan, Russia, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, Sri Lanka, Sudan, Tadjhikistan, Tanzania, Togo, Tunisia, Turkmenistan, Uganda, Ukraine, Uzbekistan, Zaire, Zambia, Zimbabwe, British Indian Territory, Jammu and Kashmir, Mayotte, Reunion, St.Helena ex.dep., Western Sahara
6	China

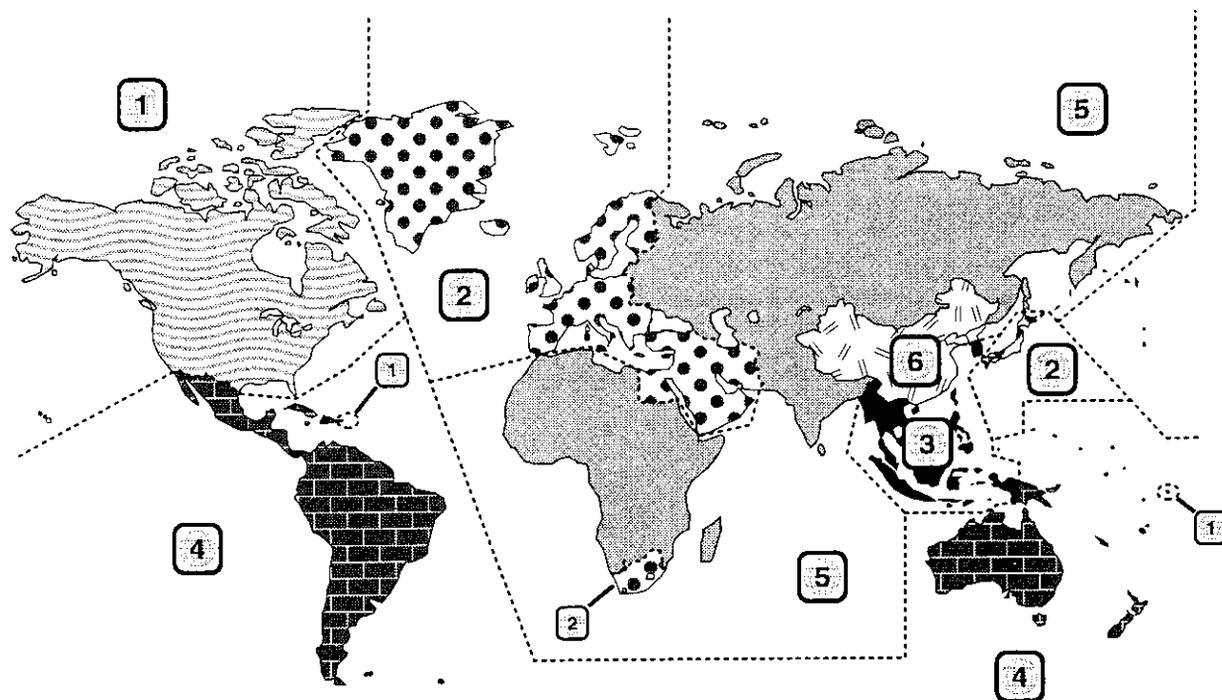
DVD discs that can be played with this unit

This unit can play a DVD disc only when the disc carries the same code as the region code of this unit shown in the above table, when it carries an indication including the region code of this unit or when it carries the ALL indication shown below. Even when a disc does not have any region code indication, it may not always be playable with this unit due to a certain limitation.



Region codes in the world

The region codes of DVD players are assigned according to the areas where they are marketed, as shown in the following map. (As of October 1997)



Limitation depending on discs

Some DVD and VCD discs have the playback condition assigned for them by the intention of the software producers. As this unit plays discs according to the intention of the software producers, some functions may not occur according to your control. Be sure to read the instructions provided with the discs played with this unit. When the "!" marking is shown on the TV screen connected to this unit during playback, the playback is under the limitation described above.

System connection

DV-S7/CO (E/F/Z/K)

Connection with the AV CONTROL CENTER (optional), ordinary amplifier, etc.

8

Caution:

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

Make connections as shown below.

When connecting the related system components, refer also to the instruction manuals of the related components.

This unit incorporates a Dolby Digital (AC-3) decoder so that it can play DVD discs recorded in Dolby Digital (AC-3) Surround without the need of purchasing a Dolby Digital (AC-3) decoder.

It is also possible to connect an external Dolby Digital (AC-3) decoder to a digital output (COAXIAL or OPTICAL) of this unit.

Malfunction of microcomputer

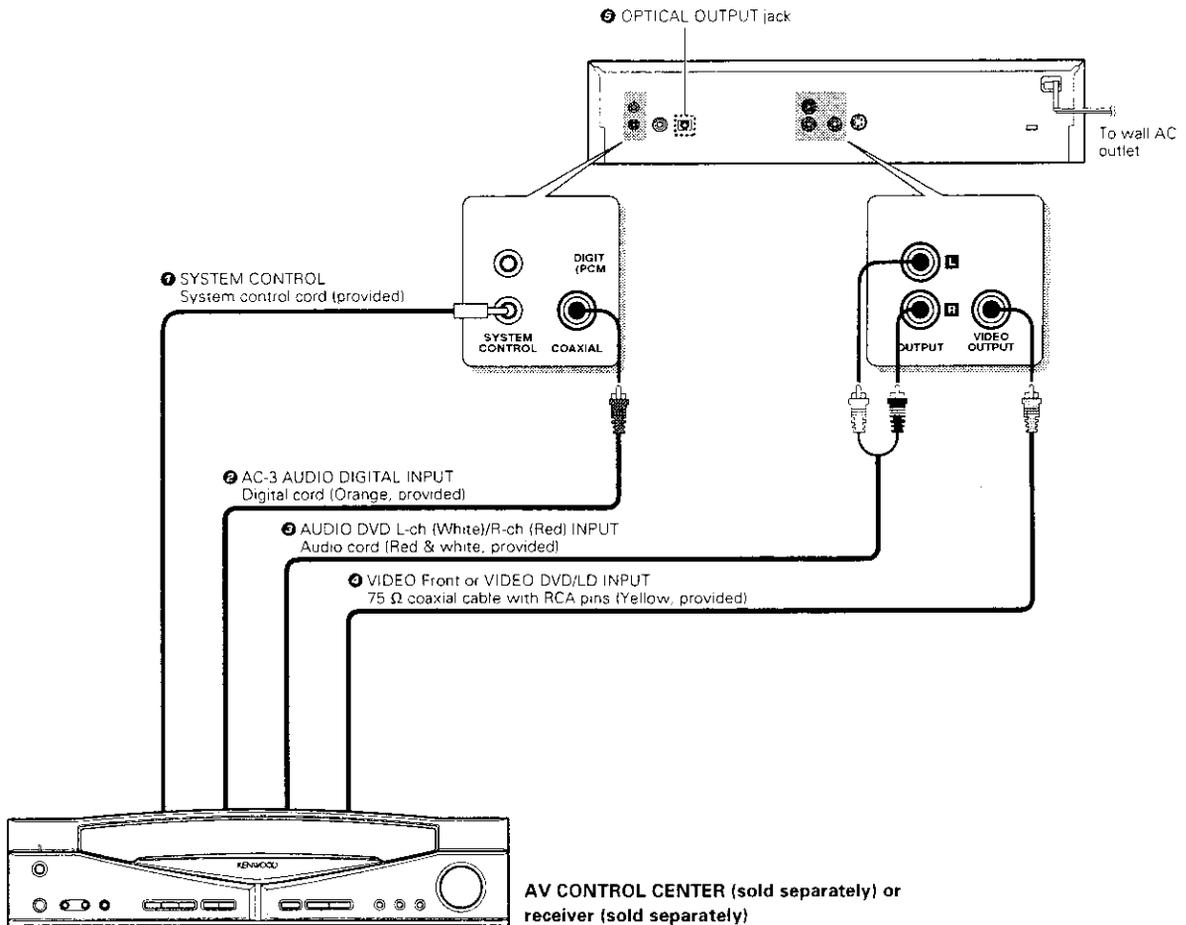
If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty".

Caution regarding placement

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.

Left and right panels: 10 cm, Rear panel: 10 cm, Top panel: 10 cm

Preparations



* The above illustration is simply an example.

The actual connected equipment may vary depending on the sales region.



1. Connect all cords firmly. If connections are loose there could be loss of sound or noise produced.
2. When plugging and unplugging connection cords, be sure to first remove the power cord from the AC outlet. Plugging/unplugging connection cords without removal of the power cord can cause malfunctions or damage to the unit.

Connection with amplifying components

The connection method to the amplifier is variable depending on the amplifier type as described below.

Connection to the AV CONTROL CENTER (optional) or receiver (optional) of the KENWOOD Series 21 system

Be sure to connect the **SYSTEM CONTROL** jack ❶ with the **SYSTEM CONTROL** jack of the amplifier using the provided system control cord.

Connection to an AV amplifier incorporating a Dolby Digital (AC-3) decoder (such as the KENWOOD AV CONTROL CENTER)

Connect the **COAXIAL** output ❷ or **OPTICAL** output ❸ to the **AC-3 AUDIO DVD DIGITAL** input of the amplifier using the provided digital cord or an optional optical digital cable. Refer to the operating instructions supplied with the amplifier for the surround setup.

Connection to an amplifier having a digital input but not incorporating a Dolby Digital (AC-3) decoder

Connect the **COAXIAL** output ❷ or **OPTICAL** output ❸ to the digital audio input of the amplifier using the provided digital cord or an optional optical fiber cable.

In this case, do not play a DVD. If it is played, the large reproduction volume may damage your ears or the speakers.

Connection to an amplifier having a video input

Connect the **VIDEO OUTPUT** ❹ to the video input jack of the amplifier using the provided video cable.

In this case, do not connect the video output of the amplifier to a TV through a VCR. Otherwise the image may be disturbed due to the copy protection function.

Connection to an ordinary amplifier having 2-channel inputs

Connect the **OUTPUT** ❺ to the audio input jacks of the amplifier using a provided audio cord.

Copy protection function

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

Manufactured under license from Dolby Licensing Corporation. "Dolby", "AC-3" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Copyright 1992 Dolby Laboratories, Inc. All rights reserved.

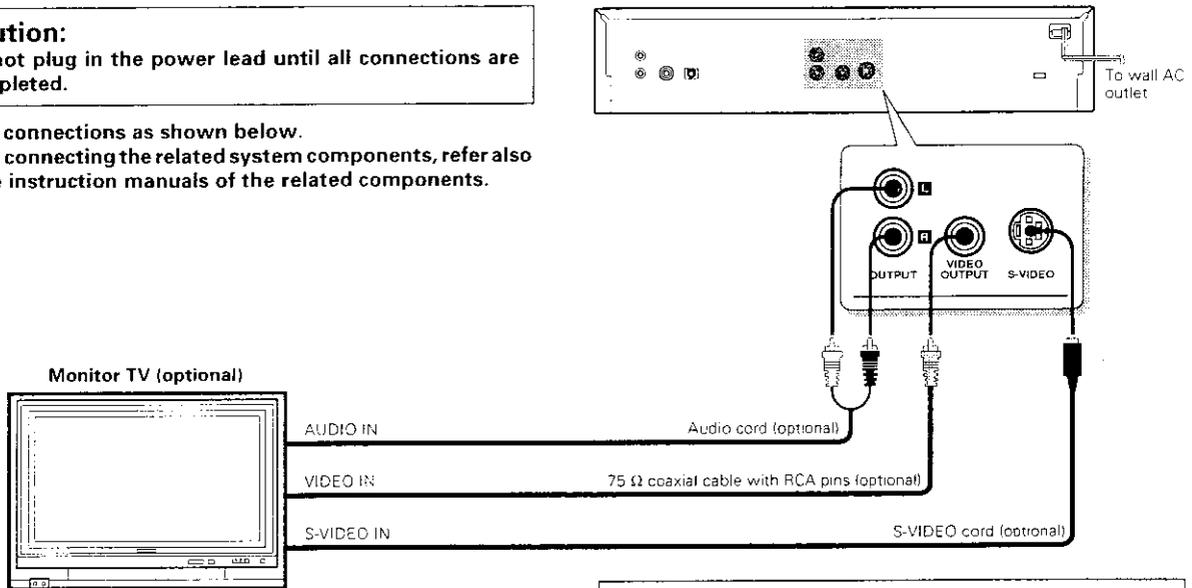
Connection to a TV (optional)

Caution:

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

Make connections as shown below.

When connecting the related system components, refer also to the instruction manuals of the related components.



In this connection, do not connect the video output of this unit to the TV through a VCR. Otherwise the image may be disturbed due to the copy protection function.

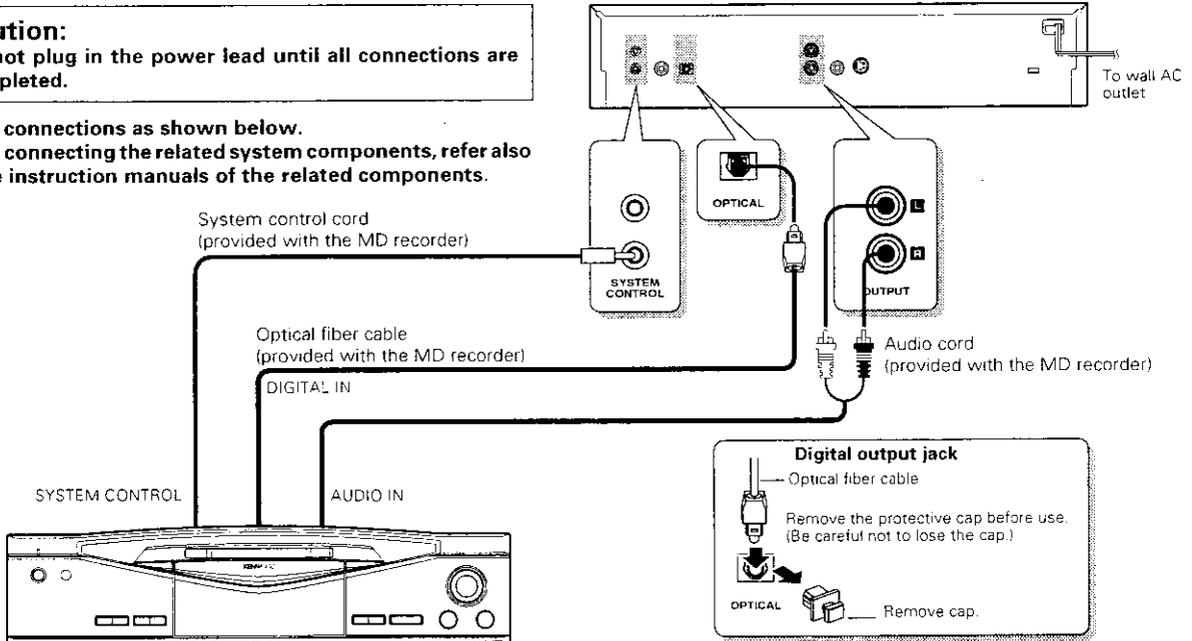
Connection to an MD recorder (optional)

Caution:

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

Make connections as shown below.

When connecting the related system components, refer also to the instruction manuals of the related components.



Digital output jack

Optical fiber cable

Remove the protective cap before use. (Be careful not to lose the cap.)

OPTICAL

Remove cap.

MD recorder (sold separately) or DAT recorder (sold separately), etc.

* The above illustration is simply an example.

The actual connected equipment may vary depending on the sales region.

In this connection, do not play a DVD. If it is played, the large reproduction volume may damage your ears or the speakers.



1. Connect all cords firmly. If connections are loose there could be loss of sound or noise produced.
2. When plugging and unplugging connection cords, be sure to first remove the power cord from the AC outlet. Plugging/unplugging connection cords without removal of the power cord can cause malfunctions or damage to the unit.

NOTE ON DIGITAL OUTPUTS

The digital output jacks (COAXIAL, OPTICAL) of this unit output either the Dolby Digital (AC-3) or linear PCM signal depending on the disc being played.

DVD discs	Audio recording format: Dolby Digital (AC-3)	Digital output signal: Dolby Digital (AC-3) bit stream
	Audio recording format: Linear PCM	Digital output signal: Linear PCM (48 kHz sampling signal only)
CD discs	Audio recording format: Linear PCM	Digital output signal: Linear PCM (44.1 kHz sampling signal)
VCD discs	Audio recording format: MPEG	Digital output signal: Linear PCM (44.1 kHz sampling signal)

The digital output jacks (COAXIAL, OPTICAL) do not output the audio of the 96 kHz sampling signal in DVD discs.

Do not play a DVD on this unit unless one of its digital outputs is connected to a Dolby Digital (AC-3) decoder. If a DVD is played, the large reproduction volume may damage your ears or the speakers. Also note that, when one of the digital output jacks of this unit is connected to a MD recorder or DAT recorder, the audio reproduced from DVD discs may not be recorded properly.

Connection to digital amplifier or MD

- When using an optical fiber cable to connect this unit to a digital amplifier, insert the plug straight into the jack until a snap sound is heard.
- Be careful not to bend, coil, or bundle the optical fiber cable.
- Optical fiber cables available on the market may not always be able to be used with this player. If your cord cannot be used with this unit, consult the store from which you purchased the cord or your nearest dealer.

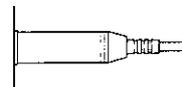
SYSTEM CONTROL CONNECTIONS

After hooking this unit up with the KENWOOD System "SERIES 21," connect the system control cords for convenient system control operations between the connected devices.

When hooking this unit up with the System "SERIES 21," read the instruction manuals supplied with the AV CONTROL CENTER (sold separately) or the receiver (sold separately).



1. Do not connect system control cords to any components other than those specified by KENWOOD. It may cause a malfunction and damage your equipment.
2. Be sure the system control plugs are inserted all the way in to the system control terminals.



SYSTEM CONTROL OPERATIONS

Remote Control

Lets you operate this unit with the system remote control unit supplied with the AV CONTROL CENTER or receiver.

Automatic Operation

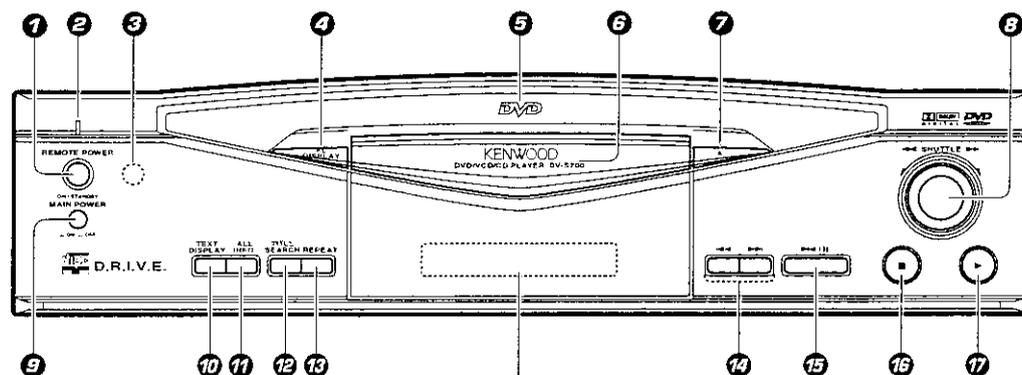
Automatically switches the input selector on the AV CONTROL CENTER or receiver when you start playback from this unit.

Synchronized Recording

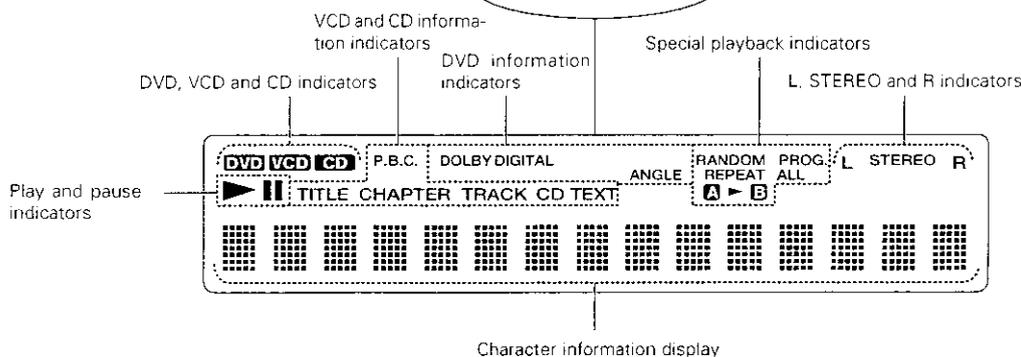
Lets you synchronize the start of recording with the start of playback when recording audio from a CD, VCD or DVD. Refer to the operating instructions supplied with your cassette deck for details.

Main unit

Main unit keys with the same names as the keys on the remote control unit have the same functions as them.



Display

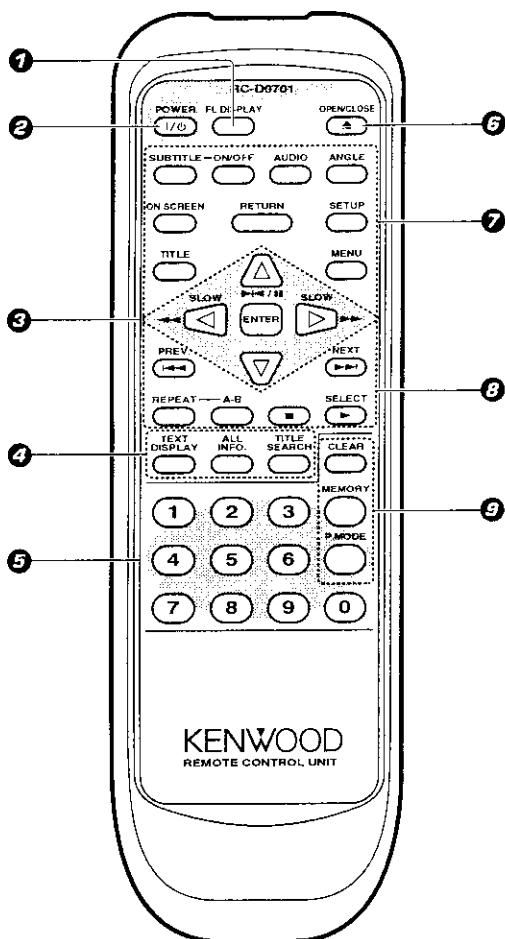


- 1 REMOTE POWER key** - [22]
 Press to turn power of the unit from on to standby or vice versa.
- 2 Standby indicator**
 Lights in power standby mode and goes off in power on mode.
- 3 Remote sensor** - [14]
- 4 FL DISPLAY key** - [23]
 Press to switch the displayed information contents.
- 5 DVD indicator**
 Lights when a DVD disc is played.
- 6 Disc tray** - [22]
 Place the disc to be played on the tray.
- 7 Open/close (▲) key** - [22]
 Press to open or close the disc tray.
 (When the unit is connected to another component through a system cord and is in standby mode, pressing this key automatically turns the unit on and opens the disc tray.)
- 8 SHUTTLE (◀▶) control** - [25]
 Press to fast forward or reverse a track or chapter.
- 9 MAIN POWER switch** - [22]
 Press to turn the power of the unit between the standby and off modes.
- 10 TEXT DISPLAY key** - [29]
 During playback of a CD-TEXT disc, press to switch the character information display.
- 11 ALL INFO. key** - [29]
 During playback of a CD-TEXT disc, press to display all character information available.
- 12 TITLE SEARCH key** - [29]
 During playback of a CD-TEXT disc, press to switch title search on and off.
- 13 REPEAT key** - [32]
 Press for repeated playback.
- 14 Skip (◀▶) keys** - [25]
 DVD or VCD: Press either key to skip chapters or locate the beginning of a chapter
 CD: Press to skip tracks or locate the beginning of a track.
- 15 Still/pause (▶▶/||) key** - [23]
 DVD or VCD: Press during playback to freeze the video or press during pause to advance the video frame by frame.
 CD: Press to let playback pause temporarily.
- 16 Stop (■) key** - [23]
- 17 Play (▶) key** - [22]
 Press to play audio and video.
 (When the unit is connected to another component through a system cord and is in standby mode, pressing this key automatically turns the unit on and starts playback.)

About the 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 the standby mode. Under that condition, the system can be turned ON by the remote control unit.

Remote control unit



The remote control keys with the same names as the keys on the main unit have the same functions as them.

- ❶ **FL DISPLAY key** - [23]
- ❷ **POWER (I/O) key** - [22]
- ❸ **CD, VCD and DVD operation keys**
- Still/pause (▶◀/||) and up (▲) key**
Press to move the cursor upward or let playback pause temporarily. During VCD or DVD playback, this key is also used to freeze the video and advance it frame by frame.
- ENTER key**
Press to input the item selected with the cursor. This key is also used to start playback of the track, chapter or title selected with the numeric keys.
- Fast forward (▶▶), fast reverse (◀◀), SLOW and left/right (◀, ▶) keys**
Press either key to move the cursor to the left or right or to play a disc at a high speed in the forward or reverse direction. During VCD or DVD playback, these keys are also used in slow playback.
- Down (▼) key**
Press to move the cursor downward.

❹ CD-TEXT operation keys

TEXT DISPLAY key (CD) - [29]
When a CD-TEXT disc is used, press to switch the character information display.

ALL INFO key (CD) - [29]
When a CD-TEXT disc is used, press to display all character information.

TITLE SEARCH key (CD) - [29]
When a CD-TEXT disc is used, press to switch the title search mode on and off.

❺ Numeric (0 to 9) keys

Press for direct input of track and chapter numbers. When a CD or VCD disc is used, press to input the track number to be searched by track search. When a DVD disc is used, press to input the figures for title search, chapter search or time search.

❻ OPEN/CLOSE (▲) key - [22]

❼ TV monitor operation keys

SUBTITLE key (DVD) - [35]
During playback of a DVD disc, press to display the subtitle language code on the TV screen.

SUBTITLE ON/OFF key (DVD) - [35]
During playback of a DVD disc, press to switch the subtitle on and off.

AUDIO key (VCD, DVD) - [35]
During playback of a VCD disc, press to display the voice language code on the TV screen. During playback of a DVD disc, press to switch the audio between STEREO, L and R.

ANGLE key (DVD) - [36]
During playback of a DVD disc, press to display the angle number on the TV screen.

ON SCREEN key (CD, VCD, DVD) - [24]
Press to switch the search picture display on the TV screen on and off.

RETURN key (VCD, DVD) - [26]
Press to return to the previous menu.

SETUP key (DVD) - [27]
Press to display the initial setting screen.

TITLE key (DVD) - [36]
Press to display the title menu recorded in the DVD disc.

MENU key (DVD) - [26]
Press to display the DVD menu recorded in the DVD disc.

❽ CD, VCD and DVD operation keys

PREV. (◀◀) and NEXT (▶▶) keys - [25]
Press to skip tracks or locate the beginning of a track. When a VCD or DVD disc is used, press to select the P.B.C., skip chapters or locate the beginning of a chapter.

REPEAT key - [32]
Press to switch repeated playback on and off.

REPEAT A-B key - [33]
Used in A-B repeated playback.

Stop (■) key - [23]

SELECT/play (▶) key - [22]
Press to start playback. When a VCD disc is used, press to select a menu in the PBC mode.

❾ Program operation keys

CLEAR key (CD, VCD, DVD) - [31]
Press in the program mode to clear the last track or chapter in the program. In the memory mode, press to clear the selected memory number. During numeric input, press to clear the input figures.

MEMORY key (DVD) - [34]
Press to store in memory a scene that you want to see later again.

P.MODE key (CD, VCD) - [30]
Press when programming tracks in the desired order.

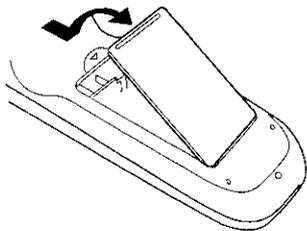
Operation of remote control unit

DV-S700 (E)/K1

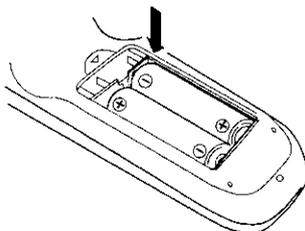
14

Loading batteries

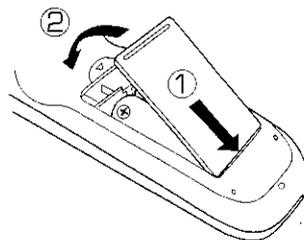
① Remove the cover.



② Insert batteries.



③ Close the cover.

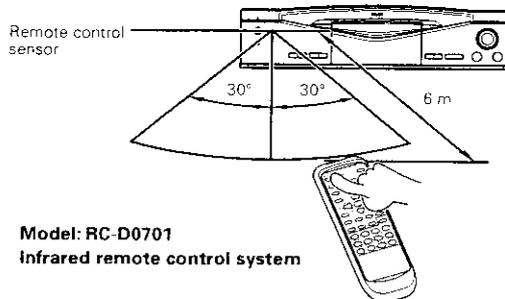


- Insert two AA-size (R6 / SUM-3) batteries as indicated by the polarity marking.

Operation

When the **STANDBY** indicator is lit, the power turns **ON** when you press the **POWER** (I / ⏻) key on the remote control unit. When the power comes **ON**, press the key you want to operate.

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



Model: RC-D0701
Infrared remote control system

Operating range (approx.)

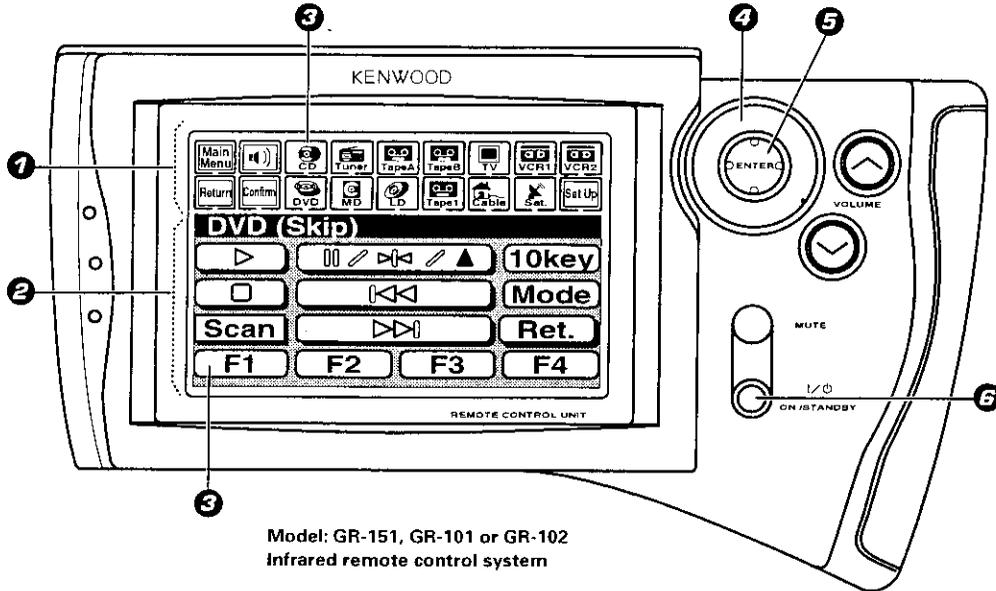


1. The supplied batteries are intended for use in operation check. Therefore, their lives may be shorter than ordinary batteries.
2. When the remote-controllable distance gets shorter than before, replace all batteries with new ones.
3. Malfunction may occur if direct sunlight or the light of a high-frequency lighting fluorescent lamp enters the remote sensor. In such a case, change the system installation position to prevent the malfunction.

Graphical Remote Control Unit (GRC)

Graphical remote control is sold separately.

To enable remote control operation, simply connect this unit, cassette deck (sold separately), and other accessories to the AV CONTROL CENTER or the receiver with the system control cords.



Model: GR-151, GR-101 or GR-102
Infrared remote control system

1 Segment screen

This screen is used for selecting the icons for the main equipment.

2 Menu screen

This screen is used for selecting the icons for the operating modes.

Play (▶) icon — [22]

Starts playback.

Stop (■) icon — [23]

Skip (Search) icon

Switches the menu screen contents between skip screen and search screen.

Pause (II), still (▶◀) and up (▲) icon

Moves the cursor upward or lets playback pause temporarily. When a VCD or DVD disc is used, select to freeze the video or advance it frame by frame.

Skip (◀◀, ▶▶) icons — [25]

Skips tracks or chapters, or locates the beginning of a track or chapter.

10 key icon

Displays the numeric icon menu screen.

Mode icon

Selects the play mode.

Ret. icon

Returns to the previous menu screen (in the hierarchy).

F1 to F4 icons

Switch to the menu screens corresponding to the F1 to F4 icons.

3 Icons

Icons for the equipment used and operating mode are displayed.

4 Joystick

The joystick is used when selecting the icons. (Lightly press the edge of 5.)

5 ENTER key

Press this button to input the selected icon (operation mode, and so on).

6 I/O (ON/STANDBY) key

This key turns ON/STANDBY this unit or the equipment connected with the system control cords.

If your GRC unit is the GRC-100 or GRC-150

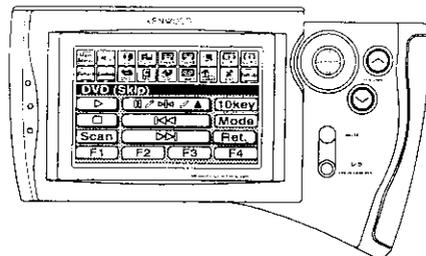
In case the GRC unit provided with your AV CONTROL CENTER (optional) or receiver (optional) is the GRC-100 or GRC-150, this unit should be remote controlled using the remote control unit provided with this unit.

Preparation

- Turn the system devices ON.

Once the settings have been made in Steps 1 to 3, you do not need to repeat these steps until you replace the batteries.

The **GRC** beginning on page 22 are written assuming that the basic operations below have been completed.



Basic Operations for the Graphical Remote Control Unit (GRC)

1 At the initial screen, select the Model Type to be used. (You may skip if the settings for the AV CONTROL CENTER have already been made.)

① Use the joystick to select the model type.
Example:

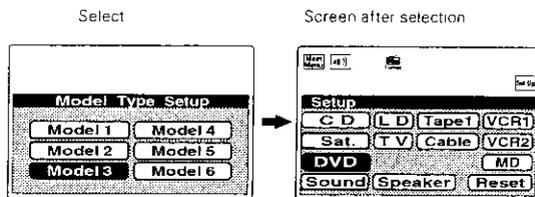
Model 3

② Press the ENTER key to set the entry.

The arrow (↑) shows the direction that the cursor moves when selecting icons.

To record the audio of this unit ... - 17

For more information about the Model Type settings, please refer to the instructions accompanying the AV CONTROL CENTER (sold separately) or the receiver (sold separately).



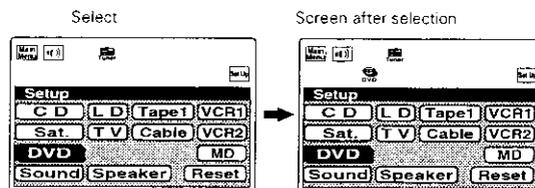
• The selected icon is highlighted.

2 Select DVD at the Segment screen.

① Use the joystick to select the DVD icon.

DVD

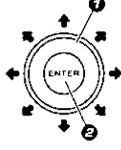
② Press the ENTER key to set the entry.



To record the audio of this unit (Operation available when this unit is connected to the optional AV CONTROL CENTER through a system control cord)

1 After completing step **1** of the procedure in "Basic operation for the GRC unit", select the Main Menu icon. — 16

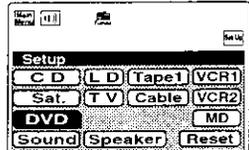
1 Select the Main Menu icon with the joystick.



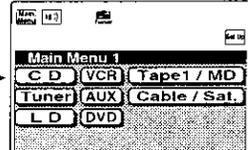
2 Press the ENTER key to set the entry.



Select

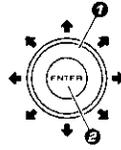


Screen after selection



2 On the Main Menu 1 screen, select "DVD". "DVD-A" appears on the display of the optional AV CONTROL CENTER.

1 Use the joystick to select the DVD icon.

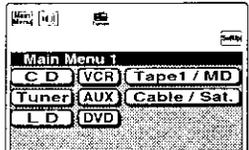


2 Press the ENTER key to set the entry.

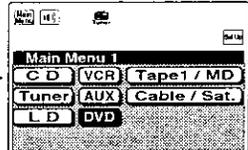


Repeated **1** and **2** until "DVD-A" appears in the display of the optional AV CONTROL CENTER.

Select



Screen after selection



- The selected icon is highlighted.
- If you have selected other selection than "Model 3" in step **1** of the procedure in "Basic operation of the GRC unit", select the input where the DVD or DVD player is connected.

After the above procedure, perform the remaining steps in the procedure in "Basic operation of the GRC unit".

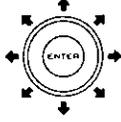
Notes on the remote control operating instructions in this text

This instruction manual for this model also covers the systems in the KENWOOD System "SERIES 21" lineup. Since the features vary depending on the combined systems, the remote control operation illustrations (icons) are shown for two types of remote control units.

The operating instructions in this text are based on the operation of a general remote control unit (RC). Please refer to the table below for the main differences with the graphical remote control unit (GRC), and reread the operating instructions in this text.

Operations with the general remote control unit are indicated by **RC**.

Operations with the GRC unit (optional GR-C151, GR-C101 or GR-C102) are indicated by **GRC**.

Example of instruction text in this manual.	RC operation	GRC operation (GRC-151,GRC-101 or GRC-102)	
	Illustration	Illustration of GRC operation in this manual	Actual GRC operation
Press (select) the *** key.			<p>1 Select by *** using joystick.</p>  <p>2 Press the ENTER key.</p> 
Press (select) the P.MODE key.		<p>*1</p>  	<p>1 Select the "F4" icon.</p> <p>2 Press the ENTER key.</p> <p>3 Select the "P.mode" icon.</p> <p>2 Press the ENTER key.</p> <ul style="list-style-type: none"> • When using the GRC, you can return to the previous menu screen (level) at any time by selecting the Return icon, and the ENTER key.

*1: Icons without shading send you to another menu screen (level) for the next operation. At the new screen, you can select the desired icon.

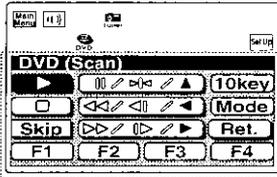
Hints on Using the GRC

All of the procedures for the GRC operations start from the basic operation screen. Although the explanation for going back to this screen is omitted on each page, you can easily go to the basic operation screen if you remember the following procedure.

① Use the joystick to select the DVD icon.

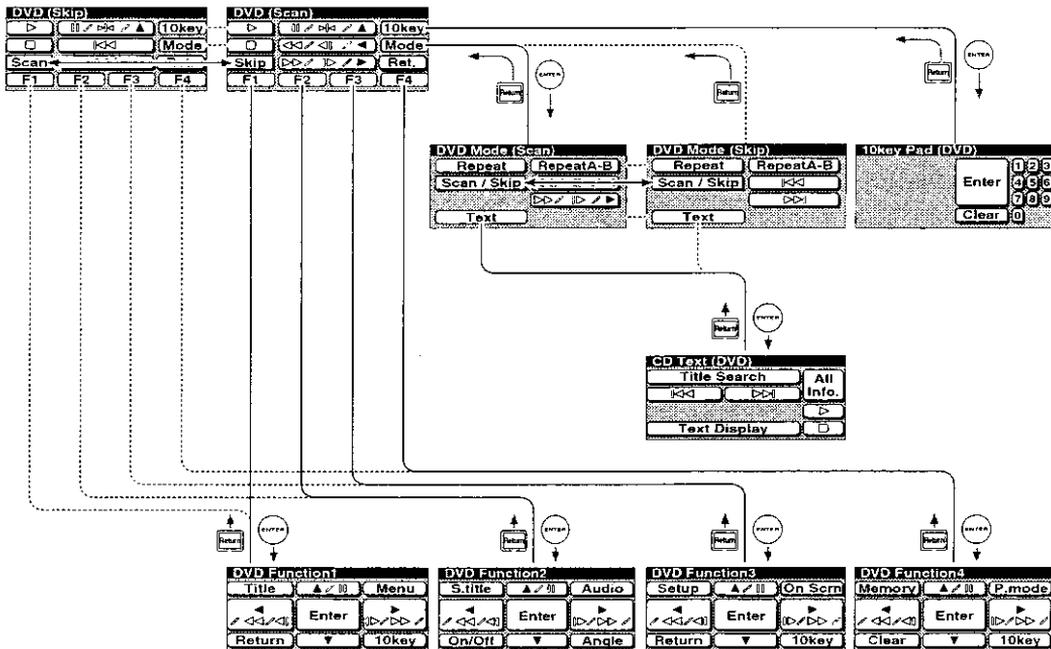


② Press the ENTER key to set the entry.



Basic operation screen.

DVD menu structure



Playable discs

CV-5700 (En/K)

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.

Disc formats



- This unit is compatible with VIDEO-CD (with PBC compatibility). The PBC makes it possible to enjoy disc playback using menus.
- A disc to be played on this unit should carry one of the logo marks shown on the left.
- This unit is compatible with the NTSC and PAL video formats. It cannot play discs recorded with the other video format (SECAM).

Disc types

		DVD		CD		VIDEO CD
Logo mark on disc						
Disc size		 8 cm	 12 cm	 8 cm	 12 cm	 12 cm
Played sides		One or both	One or both	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)	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)	/		Max. 74 min.
	Audio	/				Max. 20 min., digital

- When a CD-G/CD-EG (CD Graphics) disc or CDV disc is used, this unit can play only the audio part.

Markings on the DVD discs

Mark	Description
	Indicates the region code where the disc can be played.
	Number of voice languages recorded with the audio function. The number in the mark indicates the number of voice languages, which is 4 in the example on the left. (Max. 8 languages)
	Number of subtitle languages recorded with the subtitle function. The number in the mark indicates the number of subtitle languages, which is 2 in the example on the left. (Max. 32 languages)
	Number of angles provided by the angle function. The number in the mark indicates the number of angles, which is 2 in the example on the left. (Max. 9 angles)
	Aspect ratios that can be selected. "LB" stands for Letter Box and "PS" for Pan/Scan. In the example on the left, the 16:9 video can be converted into letter box video.



See "Terminology" for detailed description on the terms such as aspect ratio, letter box and pan/scan.

Video formats

The video signals used to display TV pictures and video disc pictures are mainly based on two types of signal formats (PAL and NTSC), which are assigned to each country or area as shown on the right. As a result, it is required to select discs according to the video format used with your TV monitor (in your country or area).

TV formats of major countries

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

Video formats of DVD discs that can be played on this unit

- Check the video format(s) used by your TV monitor. (Refer to the operating instructions of your TV monitor for details.)
- Select DVD discs recorded with the playable video format by referring to the following table. (See the area code table on the bottom of this page for details on districts 1 to 6.)

Your TV format	Playable Disc Formats								
	District 1	District 2-1	District 2-2	District 2-3	District 3	District 4-1	District 4-2	District 5	District 6
NTSC only	NTSC	NTSC* PAL*	NTSC	NTSC PAL*	NTSC PAL*	NTSC* PAL*	NTSC	NTSC* PAL*	NTSC PAL*
PAL only	NTSC*	NTSC PAL	NTSC*	NTSC* PAL	NTSC* PAL	NTSC PAL	NTSC*	NTSC PAL	NTSC* PAL
NTSC/PAL switchable	NTSC	NTSC PAL	NTSC	NTSC PAL	NTSC PAL	NTSC PAL	NTSC	NTSC PAL	NTSC PAL



Normal video may not be reproduced when a disc recorded with the video format marked * in the above table is played. See "Examples of TV screen display of each video format" for details.

- When your TV is switchable between NTSC and PAL,
 - Districts 1, 2-2 and 4-2: Set the TV to NTSC.
 - Districts 2-1, 4-1 and 5: Set the TV to PAL.
 - Districts 2-3, 3 and 6: Set the TV according to each disc to be played.
- Now play the disc.

Region code table

	District 1	District 2-1	District 2-2	District 2-3	District 3	District 4-1	District 4-2	District 5	District 6
Area or Country Name, Region Code	North America	Europe	Japan	Middle East	Southeast Asia	Oceania	South America	Russia	China
	1	2	2	2	3	4	4	5	6

Video formats of VCD discs that can be played on this unit

- ❶ Check the video format(s) used by your TV monitor. (Refer to the operating instructions of your TV monitor for details.)
- ❷ Select VCD discs recorded with the playable video format by referring to the following table. (See the area code table on the previous page for details on districts ❶ to ❸.)

Your TV format	Playable Disc Formats								
	District ❶	District ❷-1	District ❷-2	District ❷-3	District ❸	District ❹-1	District ❹-2	District ❺	District ❻
NTSC only	NTSC PAL	NTSC* PAL*	NTSC PAL	NTSC PAL*	NTSC PAL*	NTSC* PAL*	NTSC PAL	NTSC* PAL*	NTSC PAL*
PAL only	NTSC* PAL*	NTSC PAL	NTSC* PAL*	NTSC* PAL	NTSC* PAL	NTSC PAL	NTSC* PAL*	NTSC PAL	NTSC* PAL
NTSC/PAL switchable	NTSC PAL	NTSC PAL	NTSC PAL	NTSC PAL	NTSC PAL	NTSC PAL	NTSC PAL	NTSC PAL	NTSC PAL



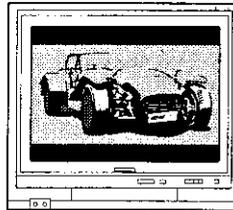
Normal video may not be reproduced when a disc recorded with the video format marked * in the above table is played. See "Examples of TV screen display of each video format" for details.

- ❸ When your TV is switchable between NTSC and PAL,
 - Districts ❶, ❷-2 and ❹-2: Set the TV to NTSC.
 - Districts ❷-1, ❹-1 and ❺: Set the TV to PAL.
 - Districts ❷-3, ❸ and ❻: Set the TV according to each disc to be played.
- ❹ Now play the disc.

Examples of TV screen display of each video format

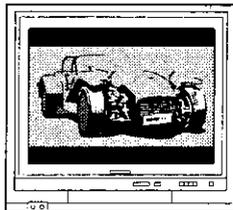
When your TV is switchable between PAL/NTSC

Try play a disc. If the picture is black and white or as shown on the right, stop playback and switch the screen display formats of this unit and the TV to another format. This will improve the played picture quality.



When your TV is compatible only with the PAL format

With certain discs, the playback picture may have black spaces above and below it (as shown on the right). This is because the disc has been recorded in the NTSC format. The screen may be somewhat hard to see but this is not malfunction.



When your TV is compatible only with the NTSC format

With certain discs, the playback picture may be cut above and below it (as shown on the right). This is because the disc has been recorded in the PAL format. The screen may be somewhat hard to see but this is not malfunction.



Playing tracks in order from track No.1 (Viewing)

CV-5700 (Fn/4)

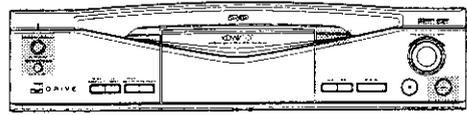
Use the following procedure to play a CD, a DVD, a video CD, etc. in the original order of tracks from track No. 1. (Menu playback of a video disc with P.B.C., DVD - 26.)

Preparation Press the MAIN POWER switch to ON.

Main unit



MAIN POWER



: Keys or controls used in this operation.

1 Turn power ON.

When using the system connections:

- 1 Turn on the AV CONTROL CENTER or the receiver.
 - Read also the instruction manual supplied with the AV CONTROL CENTER or the receiver.
- 2 Switch to DVD operation.
 - Playback will start if a disc is already loaded.

When not using the system connections:

- 1 Press the REMOTE POWER key to ON.

Main unit



REMOTE POWER



2 Insert (Remove) the disc.

Main unit

RC

- 1 Open the tray.



OPEN/CLOSE



- 2 Insert (Remove) the disc.

- 3 Close the tray.

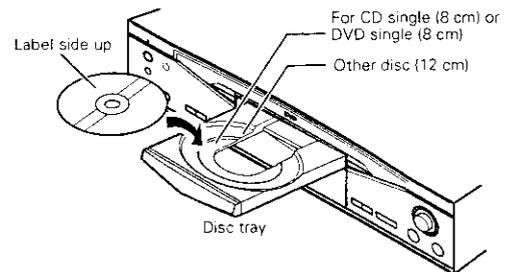


OPEN/CLOSE



With certain discs, playback starts at this point.

- Place the disc to be played properly by aligning it with the groove on the tray. (If the disc is not placed horizontally, malfunction will result.)
- Do not touch the played side.
- Load only one disc.
- A CD single (8 cm disc) and DVD single (8 cm disc) can also be played.
- Ordinary CD single (8 cm) disc adapters sold in audio stores cannot be used with this unit.



3 Start playback.

Main unit

RC

GRC



SELECT

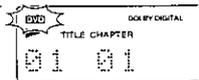
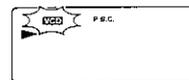
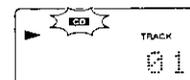


Display during disc play

CD playback

VCD playback

DVD playback



Playback without using the menu play function - 26
(with a P.B.C.-compatible VCD)

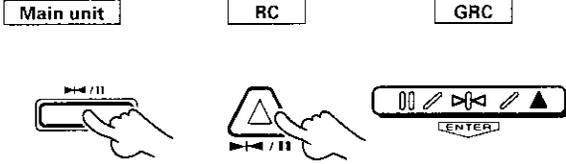
- 1 Press the stop (■) key while the menu screen is displayed.
- 2 Enter the desired track number using the numeric keys.
- 3 Press the ENTER key to start playback.

Operation

The following operation may not be available with some DVD discs.

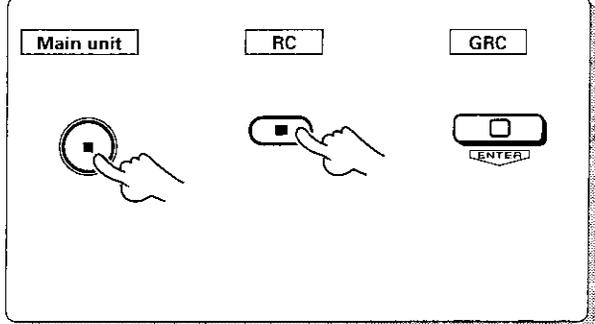
To pause playback

Playback of both video and audio pauses temporarily.



- Each press pauses and plays the disc alternately.
- Press the play (▶) key to resume normal playback.

To stop playback

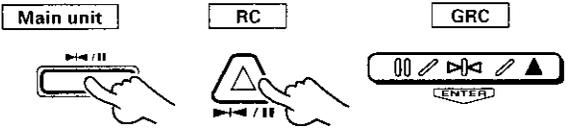


Frame advance playback

Kinds of software with which this function is available:



Press during pause.



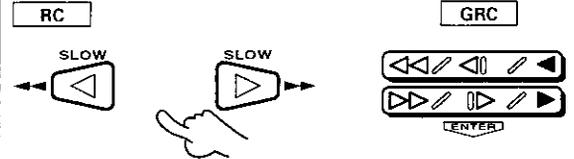
- Each press advances one frame.
- Press the play (▶) key to resume normal playback.

Slow playback Remote control only

Kinds of software with which this function is available:



Press during pause.



- Press the play (▶) key to resume normal playback.



The reverse slow playback of DVD becomes reverse frame advance which is discontinuous. Reverse slow playback is not available with VCD.

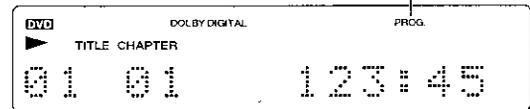
TRACK mode and PROGRAM mode

TRACK mode is when PROG. and other such functions are not lit up in the display section (normal playback state). When these functions are lit up, this is called PROGRAM (PROG.) mode.

PROG. mode description

- 30 -

During TRACK mode, these are not lit up.
During PROG. mode, these are lit up.



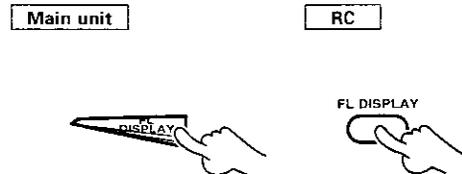
Display section

FL DISPLAY key

Press the FL DISPLAY key to switch the display on the main unit on and off. Even when the display is set to off, the ▶ or || indicator appears during playback or pause.

Each press of the FL DISPLAY key switches the display as follows.

- 1 Main unit display lit : FL display on.
- 2 Main unit display extinguished : FL display off.



Playing the desired section of disc

(DVD: Title search, chapter search or time search. VCD & CD: Track search)

DV-S73D (E)/K1

Kinds of software with which this function is available

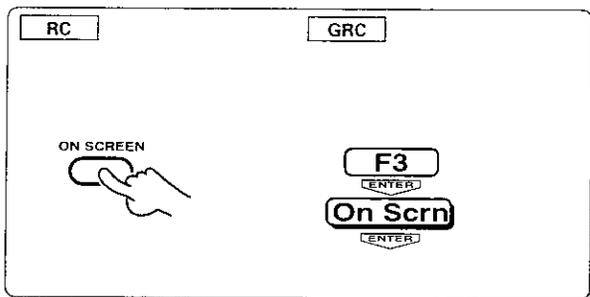


In case of a VIDEO CD, there is no relation between the division of the recorded contents and the track number (title number), except for some software like Karaoke etc. For this reason, the following operation may not be possible in some cases.



: Keys or controls used in this operation.

1 Press the ON SCREEN key during playback.



Time number

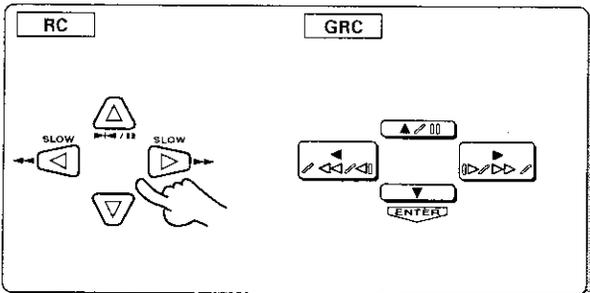


Time numbers are recorded on DVD discs and indicate the elapsed play time from the beginning of the disc. Time numbers are recorded in second units or minute units, depending on the disc.

It is possible to start playback from a specific location by specifying the elapsed time from the start of the disc.



2 Select "TITLE (TRACK)", "CHAPTER" or "TIME".

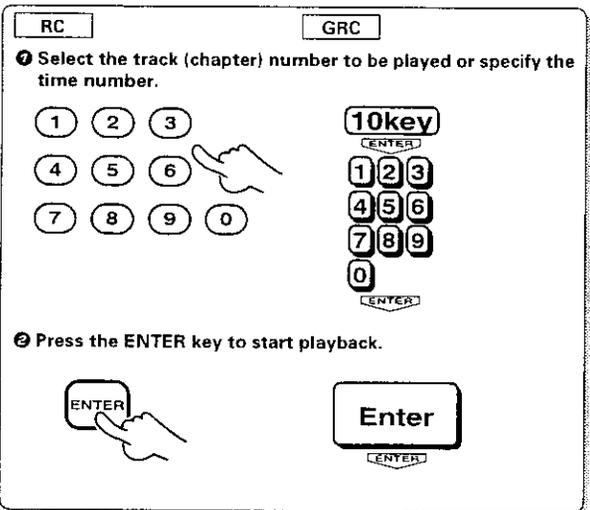


Display example when "TIME" is selected



- "CHAPTER" or "TIME" cannot be selected when a VCD or CD disc is used.

3 Select the section to be played.



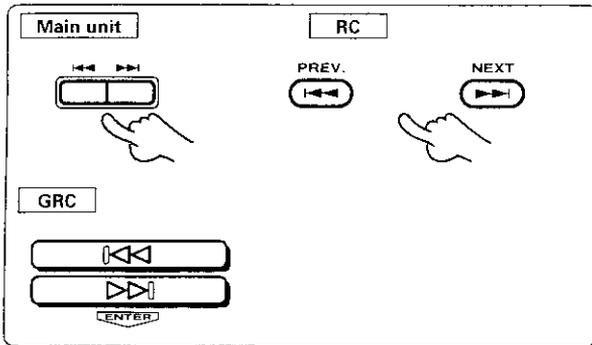
Press numeric keys in the following order...

- RC**
- To enter track (chapter) No. 23 : **2** **3** **ENTER**
 - To enter track (chapter) No. 40 : **4** **0** **ENTER**
 - To search the point at 8 min. 15 sec. (8:15) : **8** **1** **5** **ENTER**

- GRC**
- Press the **ENTER** key after selecting each numeric icon.
- To enter track (chapter) No. 23 : **2** **3**
 - To search the point at 8 min. 15 sec. (8:15) : **8** **1** **5**

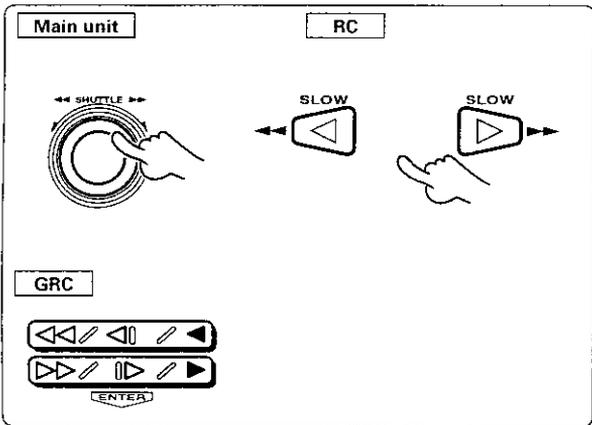
- If the disc does not have chapter numbers, searching of chapters is not possible.

To skip tracks (chapters)



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

To search a track (chapter) at a high speed (Manual search)



- With the main unit operation, turning the **SHUTTLE** control slightly starts fast forward or fast reverse at a relatively low speed; press the play (▶) key when the section where you want to play comes. Turning the **SHUTTLE** control once again increase the speed while the control knob is held; release the control knob when the section where you want to play comes.
- With the RC or GRC unit operation, pressing the key starts fast forward or fast reverse at a relatively low speed, and pressing it again increases the speed; press the play (▶) when the section you want to play comes.
- Sound is not output during forward or reverse search. [Video part of DVD or VCD]
- The video picture may be disturbed during the search operation.

Menu playback of VCD and DVD

When a DVD containing the recording of menus or a P.B.C. (Play-Back Control) compatible VCD is played, the menu screen can be displayed on the TV screen. When a disc incorporating P.B.C. is played, a menu screen is displayed so that you can select the desired tracks to be played or enjoy game software with simple interactive operations.

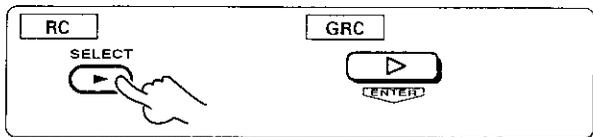


: Keys or controls used in this operation.

Kinds of software with which this function is available



1 Start playback.



When a P.B.C. compatible VCD is played, the P.B.C. function featuring menu screens is activated automatically.

2 When the played disc is a DVD, press the MENU key.

3 Select the item on the menu screen.

RC **GRC**

① Select the item with the numeric keys.

1 2 3
4 5 6
7 8 9 0

10key
ENTER
1 2 3
4 5 6
7 8 9
0
ENTER

Selection with the SELECT key.

SELECT

Selection with the cursor key (▽, △).

△ F4/11
▽
ENTER

② Press the ENTER key to start playback.

ENTER
Enter
ENTER



The menu screen display, the operation method, and the operation keys differ according to the software being played. For details, refer to the explanations enclosed with the software.

Selection procedure with the numeric keys....

RC
To select "5" : 5 ENTER
To select "17" : 1 7 ENTER

GRC
Press the ENTER key of the joystick every time after selecting a numeric icon.

To select "5" : 5 ENTER
To select "17" : 1 ENTER, 7 ENTER

- In case of a hierarchical menu, movement is made to the next lower menu. → 27
- When several menus (scenes) can be selected in each level, screen switching is possible with the keys NEXT and PREV. → 27
- A video CD requires a little time for screen switching etc. after operation.

Playback without using the menu play function (with a P.B.C.-compatible VCD)

- 1 Press the stop (■) key while the menu screen is displayed.
- 2 Enter the desired track number using the numeric keys.
- 3 Press the ENTER key to start playback.

Return to the menu screen Remote control only

RC **GRC**

With VCD
RETURN
Return
ENTER

With DVD
TITLE
F1
ENTER
Title
ENTER

To stop playback



Operation keys and display examples at the time of video CD playback

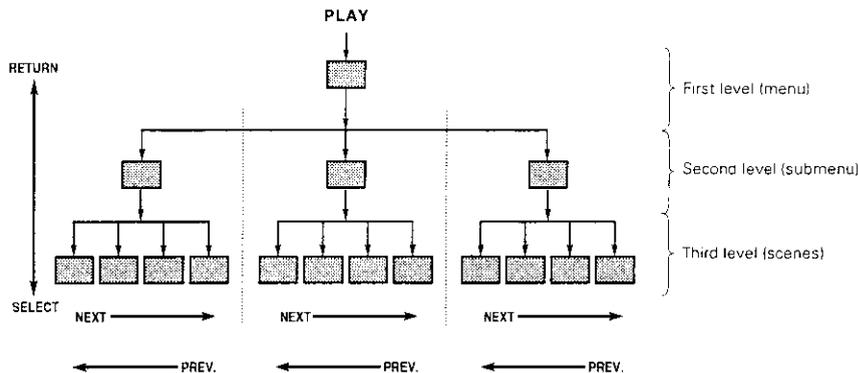
Soft jacket indication	▶	⏪	⏩	
KENWOOD operation key	SELECT	RETURN	PREV.	NEXT

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

When the menu has a hierarchical structure

When an item is selected on the menu screen during playback of a DVD containing the recording of menu screens or a P.B.C. compatible VCD, another menu with more detailed 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 **SELECT** key or the number 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.

- When several menus (scenes) can be selected in each level, screen switching is possible with the keys **NEXT** and **PREV.**

Returning

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

Explanation of terms

VIDEO CD

This is a CD with recorded moving images. By compressing the video information to 1/120 and the audio information to 1/6, recording of up to 74 min is possible on discs with the same 12 cm diameter as general audio CDs.

Two types of discs are being marketed (without P.B.C.) for simple playback and (with P.B.C.) with menus and special playback (playback control). This unit can be used for playback of VIDEO CDs of both types.

Track

These are divisions of the contents recorded on the disc (titles or pictures). With most general music CDs, one track is assigned to a title, but with VIDEO CDs, the division of the contents does not necessarily coincide with the track numbers.

Skipping tracks, programmed playback, and other (special) playback used with general music CDs is based entirely on the track numbers, and thus such playback may not be possible for some VIDEO CDs.

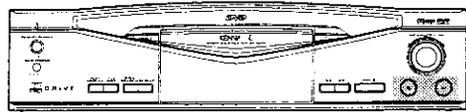
Searching for tracks by title (TITLE SEARCH)

In the case of a CD-TEXT disc, the tracks to be heard can be searched by title.

28

Preparation

- Load a disc (CD-TEXT support) in this unit.
- Check that the unit is in the normal play TRACK mode.



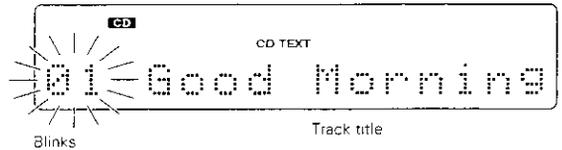
Keys and control used in the operations described on this page.

Kinds of software with which this function is available



1 Press the TITLE SEARCH key in stop mode.

To stop the search, press the TITLE SEARCH key again.

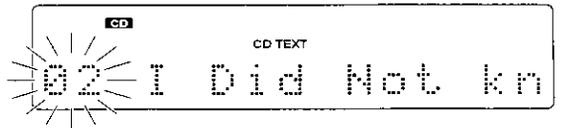


- In the case of a non-CD-TEXT disc, the "NO CD TEXT" display will appear for approx. 3 seconds.

2 Select the name of the track (title) to be heard.

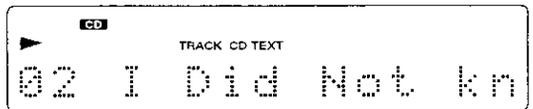
The track number skips backward. The track number skips forward.

The track number skips backward. The track number skips forward.



If no keys are operated for more than a second, the track title is scrolled on the display.

3 Start playback.

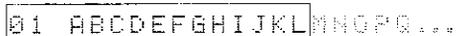


← The letters move toward the left.

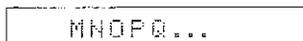
Display scrolling

Some track titles contain so much text information that the full titles will not fit on the display. In cases like this, the letters on the display move from right to left so that the non-visible part of the title is revealed. This type of display movement is known as "scrolling display."

Display example



← Scroll display



Selecting the text information display (TEXT DISPLAY)

In the case of a CD-TEXT disc, the displays shown below can be selected.

RC
GRC

① Confirm that the "PROG." indicator is not lit.

P.MODE



F4

ENTER

P.mode

ENTER

② Press the TEXT DISPLAY key.

TEXT DISPLAY



Mode

ENTER

Text

ENTER

Text Display

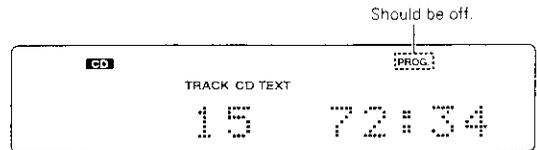
ENTER

Track01 Title :

: Here's That R

← Scroll display

- When there is no text information to be displayed "-----" is scrolled on the display.
- In the case of a non-CD-TEXT disc, the "NO CD TEXT" display will appear for approx. 3 seconds.



In the stop mode

When the TEXT DISPLAY key is pressed once, the ① "Disc Title" is scrolled on the display; when it is pressed repeatedly, the display is changed.

- 1 Disc Title : Disc title
- 2 Disc Artist : Singer (or performer)
- 3 TIME : Track No., time display

- If the key is released while ② "Disc Artist" is displayed, ① "Disc Title" returns to the display.

In the play mode

When the TEXT DISPLAY key is pressed once, the ① "Track Title" is scrolled on the display; when it is pressed repeatedly, the display is changed.

- 1 Track Title : Track title
- 2 Track Artist : Singer (or performer)
- 3 Disc Title : Disc title
- 4 Disc Artist : Singer (or performer)
- 5 TIME : Track No., time display

- If the key is released at any point while ② "Track Artist" to ④ "Disc Artist" is displayed, ① "Track Title" returns to the display.

Displaying all the text information (ALL INFO.)

In the case of a CD-TEXT disc, the text information shown below is displayed automatically during normal play (TRACK mode).

RC
GRC

① Confirm that the "PROG." indicator is not lit.

P.MODE



F4

ENTER

P.mode

ENTER

② Press the ALL INFO. key.

ALL INFO.



Mode

ENTER

Text

ENTER

All Info.

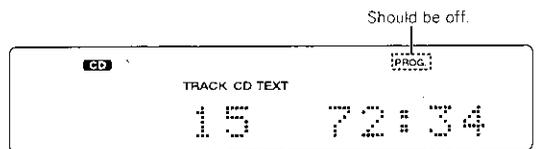
ENTER

Arranger : Mich

← Scroll display

To skip to the next track while the items are being displayed:
Press the ►► key.

- The display can be returned to a previous item by pressing the ◀◀ key.
- ALL INFO. is released when any other key is pressed while items are being displayed.



Each item is displayed in turn each time the ALL INFO. key is pressed. When the key is repeatedly pressed while an item is being displayed, the display is forcibly moved to the next item.

- 1 Disc/Track Title : Disc and track titles
- 2 Disc/Track Artist : Singer (or performer)
- 3 Disc/Track Songwriter : Songwriter
- 4 Disc/Track Composer : Composer
- 5 Disc/Track Arranger : Arranger
- 6 Disc/Track Message : Message from sponsor or artist
- 7 ID INFO. : Record company, release date, etc.
- 8 Genre INFO. : Genre information
- 9 ALL INFO. END : (Release)

- Items from ① to ⑥ are displayed in the sequence of disc and track.
- When there is no text information to be displayed "-----" is scrolled on the display.
- In the case of a non-CD-TEXT disc, the "NO CD TEXT" display will appear for approx. 3 seconds.

Programming the order of playing tracks (PROG. mode)

DV S700 (E-V)

Kinds of software with which this function is available

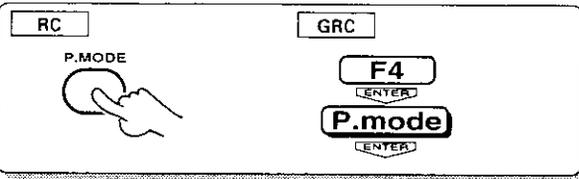


: Keys or controls used in this operation.

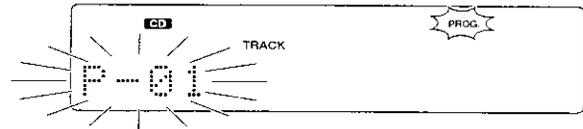
Note In case of a VIDEO CD, there is no relation between the division of the recorded contents and the track number (title number), except for some software like Karaoke etc. For this reason, the following operation may not be possible in some cases.

1 Confirm stopped condition.

2 Press so that the "PROG." indicator lights.



- If you want to play a P.B.C. (Play-Back Control) compatible VCD in the program mode, first press the play (▶) key then stop (■) key to cancel the P.B.C. function.



- Performing this procedure when the "PROG." indicator is lit up will switch it off.

3 Select the track (chapter) numbers in the order you want to play them.

RC **GRC**

1 Select the number of the track (chapter) to be programmed.

2 Press the ENTER key.

3 Program other tracks (chapters) by repeating steps 1 and 2.



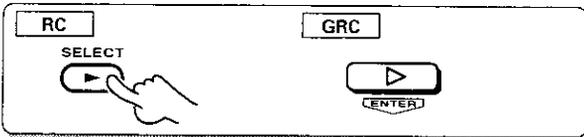
Press numeric keys in the following order...

- RC**
- To select track (chapter) No. 23 : **2 3 ENTER**
 - To select track (chapter) No. 40 : **4 0 ENTER**

- GRC**
- Press the **ENTER** key of the joystick every time after selecting a numeric icon.
 - To select track (chapter) No. 23 : **2 [ENTER] 3 [ENTER]**

- Up to 18 tracks (chapters) can be programmed.
- If you make a mistake, press the **CLEAR** key and select the track (chapter) again.

4 Start playback.



- Tracks (Chapters) are played in the order they have been programmed.
- When the ◀ or ▶ key is pressed during playback, the program will jump to the preceding or the following track respectively.

To resume playback in order of tracks (chapters)

How to switch off the "PROG." indication

RC **GRC**

P.MODE **P.mode**

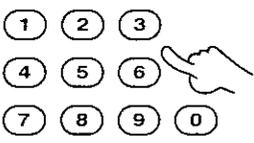
Press in stop mode.

- Normal playback in the order of tracks (chapters) resumes from the current track (chapter).

Adding a track (chapter) in a program Remote control only

RC
GRC

❶ Select the number of the track (chapter) to be programmed.




❷ Press the ENTER key.




- Program other tracks (chapters) by repeating steps ❶ and ❷.
- The selected tracks (chapters) are added to the end of the existing program.

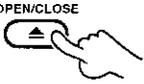
Clearing programmed tracks (chapters)

RC
GRC

To clear from the last track (chapter)




To clear the entire program




- Each time the **CLEAR** key is pressed, the last track (chapter) in the program is cleared.

Repeated playback

Kinds of software with which this function is available



Note In case of a VIDEO CD, there is no relation between the division of the recorded contents and the track number (title number), except for some software like Karaoke etc. For this reason, the following operation may not be possible in some cases.

The following operation may not be available with some DVD discs.

To repeat only a single track (chapter or title)

RC
GRC

① Press so that the "PROG." indicator goes off.

P.MODE

F4

ENTER

P.mode

ENTER

② Start playback.

SELECT

ENTER

③ Select REPEAT CHAPTER, REPEAT TITLE or REPEAT TRACK by pressing the REPEAT key.

REPEAT

Mode

ENTER

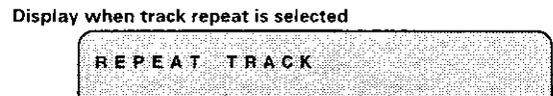
Repeat

ENTER



- DVD**
Each press of the REPEAT key switches modes as follows.
- 1 REPEAT CHAPTER : Repeats a single chapter.
 - 2 REPEAT TITLE : Repeats a single title.
 - 3 PLAY : Switches repeat OFF.

- CD, VCD**
Each press of the REPEAT key switches modes as follows.
- 1 REPEAT TRACK : Repeats a single chapter.
 - 2 REPEAT ALL : Repeats the entire disc.
 - 3 PLAY : Switches repeat OFF.



To end repeated playback

Press the REPEAT key repeatedly until "PLAY" is displayed.

To repeat the entire disc (except for DVD discs)

RC
GRC

① Press so that the "PROG." indicator goes off.

P.MODE

F4

ENTER

P.mode

ENTER

② Start playback.

SELECT

ENTER

③ Select REPEAT ALL by pressing the REPEAT key.

REPEAT

Mode

ENTER

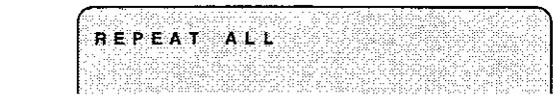
Repeat

ENTER



- DVD**
Each press of the REPEAT key switches modes as follows.
- 1 REPEAT CHAPTER : Repeats a single chapter.
 - 2 REPEAT TITLE : Repeats a single title.
 - 3 PLAY : Switches repeat OFF.

- CD, VCD**
Each press of the REPEAT key switches modes as follows.
- 1 REPEAT TRACK : Repeats a single chapter.
 - 2 REPEAT ALL : Repeats the entire disc.
 - 3 PLAY : Switches repeat OFF.



To end repeated playback

Press the REPEAT key repeatedly until "PLAY" is displayed.

To repeat only the desired section (A-B repeat)

The A-B repeat plays repeatedly the section specified during playback.

RC
GRC

- ➊ Press so that the "PROG." indicator goes off.

P.MODE



F4

ENTER

P.mode

ENTER
- ➋ Start playback.

SELECT





ENTER
- ➌ Press at the point where you want to start A-B repeat.

A-B



Mode

ENTER

RepeatA-B

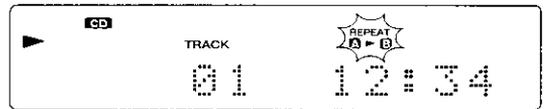
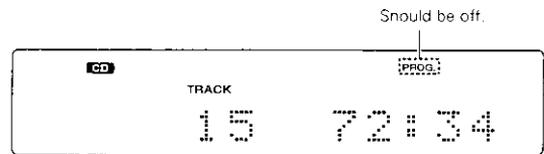
ENTER
- ➍ Press at the point where you want to end A-B repeat.

A-B



RepeatA-B

ENTER



To end repeated playback

Press the **REPEAT A-B** key again.

Storing desired scenes in memory (Memory function)

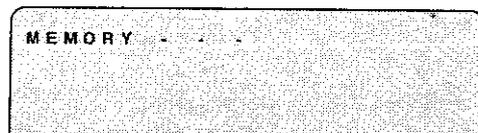
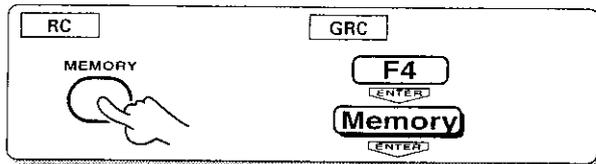
By storing desired scenes in memory, you can restart playback from any of those scenes later. (Remote control unit only)

Kinds of software with which this function is available

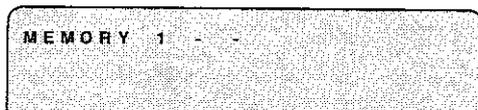
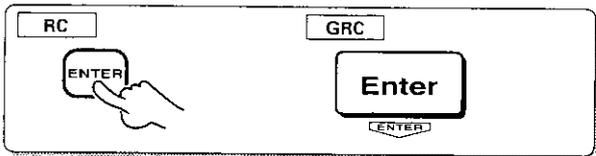


The following operation may not be available with some DVD discs.

1 Press the MEMORY key during playback.



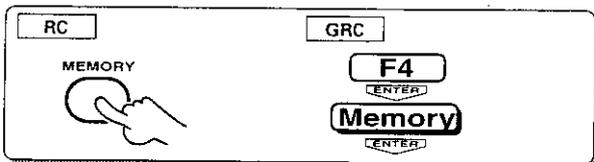
2 When the scene to be stored in memory comes, press the ENTER key.



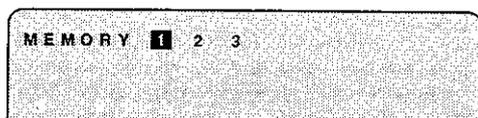
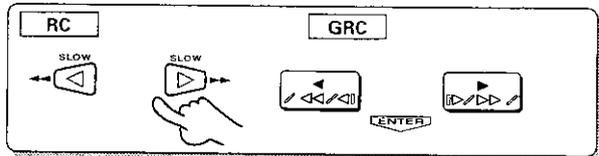
• Up to 3 scenes can be stored in memory.

To recall/clear a stored scene

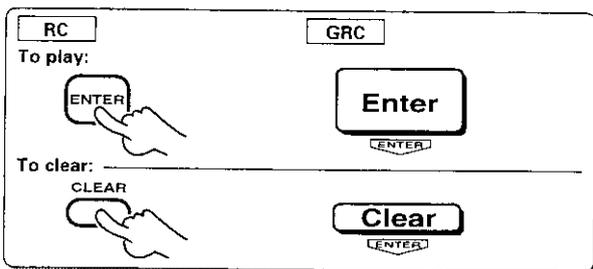
1 Press the MEMORY key during playback.



2 Select the memory number to be played or cleared using the cursor keys (<, >).



3 Enter the selected memory number.



Kinds of software with which this function is available

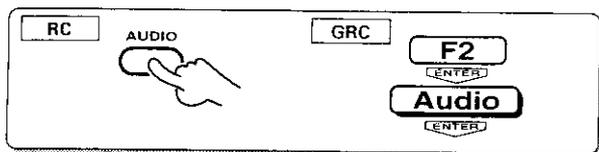


The following operation may not be available with some DVD discs.

To switch the voice language (AUDIO function) Remote control unit only

When the DVD disc being played contains audio recording of multiple voice languages, the languages can be switched during playback.

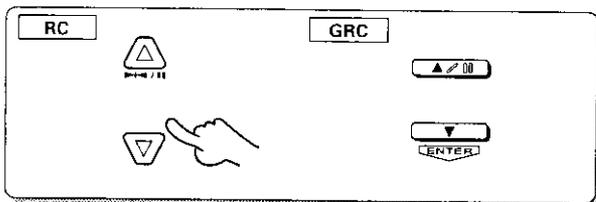
1 Press the **AUDIO** key during playback.



The voice language selected in initial setting is selected by default after the power is turned on or the disc is replaced. If the disc does not have the initially set voice language, the language given the highest priority by the disc is selected.



2 Select the voice language with the cursor keys (Δ, ∇).



To switch on/off the vocal of a DVD karaoke disc

In step 2, switch the vocal on or off with the cursor keys (Δ, ∇).



To switch the audio mode of a VCD disc

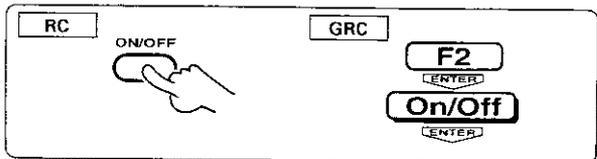
In step 2, select STEREO, L or R with the cursor keys (Δ, ∇).



To display or switch the subtitle language (SUBTITLE function) Remote control unit only

When the DVD disc being played contains video recording of multiple subtitle languages, the languages can be switched during playback.

1 Press the **ON/OFF** key during playback so that the subtitle appears.

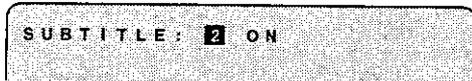
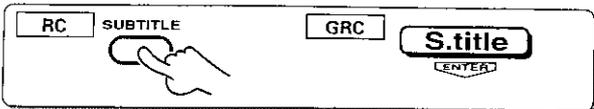


The subtitle language selected in initial setting is selected by default after the power is turned on or the disc is replaced. If the disc does not have the initially set subtitle language, the language defined as the default for the disc is selected.

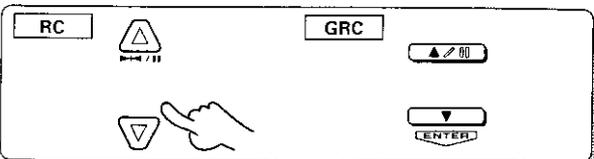
Each press of the ON/OFF key switches the subtitle as follows.

- 1 Subtitle is displayed.
- 2 Subtitle is not displayed.

2 Press the **SUBTITLE** key.



3 Select the subtitle language with the cursor keys (Δ, ∇).



Kinds of software with which this function is available

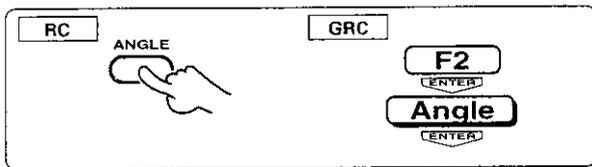


The following operation may not be available with some DVD discs.

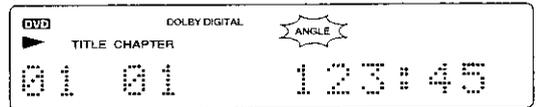
To switch the viewing angle (ANGLE function) Remote control unit only

When the DVD disc being played contains the scenes recorded from multiple viewing angles, the angle can be switched while the ANGLE indicator is lit.

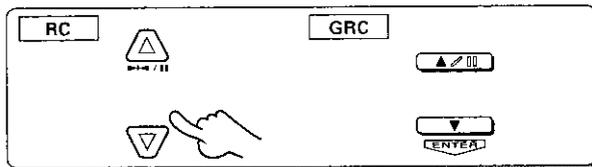
- 1 Press the ANGLE key while the ANGLE indicator is lit during playback.



Press ANGLE key while this is lit.



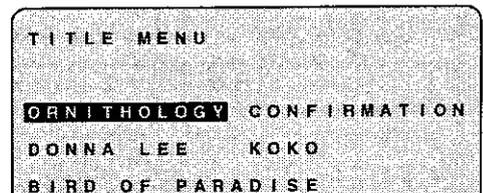
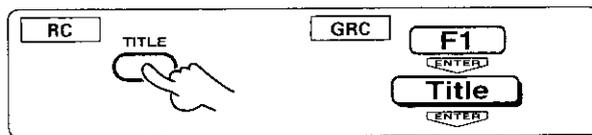
- 2 Select the viewing angle with the cursor keys (Δ , ∇).



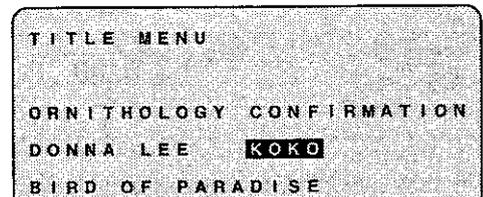
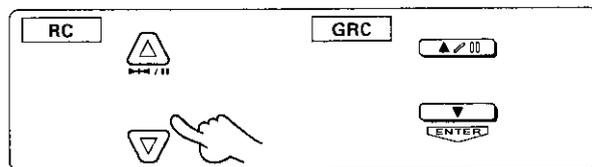
To switch the titles (TITLE function) Remote control unit only

When the DVD disc being played contains the recording of more than one title, the desired title can be selected from the TITLE MENU.

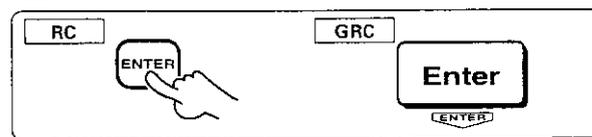
- 1 Press the TITLE key during playback.



- 2 Select the desired title with the cursor keys (Δ , ∇).



- 3 Press the ENTER key to restart playback.



Changing the initial setting

The initial setting of the unit at the factory can be modified as desired later. (Remote control unit only)

① Selection of viewing restriction level

This setting allows you to prevent children from viewing adult-rated DVD discs that you do not want them to view. Even when a DVD disc is X-rated on its level, the viewing restriction cannot be applied and its playback cannot be prohibited unless the disc itself contains the recording of the viewing restriction level.

② Selection of voice language

DVD discs can be played in the desired voice language. (When a DVD disc does not contain the selected voice language, the voice language given the highest priority for the disc is selected.)

③ Selection of subtitle language

DVD discs can be played in the desired subtitle language. (When a DVD disc does not contain the selected subtitle language, the subtitle language given the highest priority for the disc is selected.)

④ Selection of menu language

The language used by the TV screen messages (on-screen display messages superimpose on the picture) and disc menu screens (DVD menus recorded in DVD disc, etc.) can be set to the desired language.

⑤ Selection of the TV screen type

The screen type of the connected TV monitor can be set (to aspect ratio of 4:3 or 16:9).

⑥ Switching of on-screen display messages

The messages displayed on the TV screen when a key of this unit is operated, for example "PLAY" and "OPEN", can be switched permanently on or off as desired.

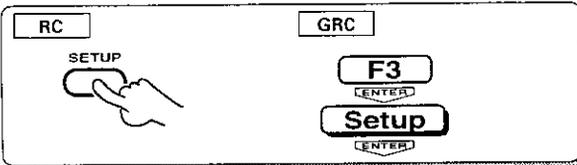
(Even after the power is turned off, the initial setting is stored in memory until it is changed the next time.)

Kinds of software with which this function is available

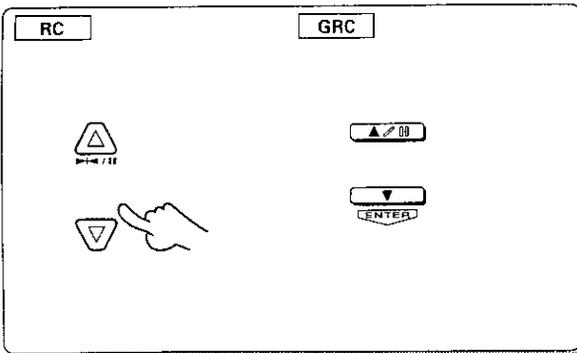


The following operation may not be available with some DVD discs.

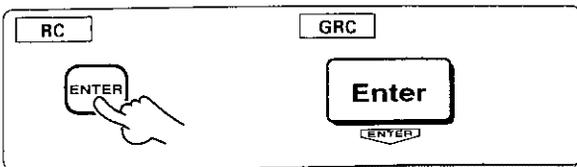
1 Press the **SETUP** key in stop mode.



2 Select the item to be set with the cursor keys (Δ , ∇).



3 Press the **ENTER** key to set the selection.

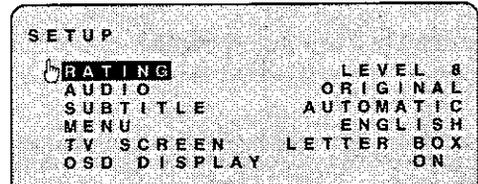


4 Modify the set content of one of items **RATING** ① to **OSD DISPLAY** ⑥.

For the actual change procedure, see subsequent pages.

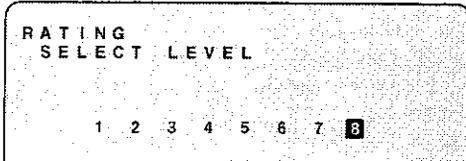
Each press of a cursor key moves the cursor.

1	RATING	: Selection of viewing restriction level
(Δ)	2 AUDIO	: Selection of voice language
Up	3 SUBTITLE	: Selection of subtitle language
\uparrow	4 MENU	: Selection of menu language
(∇)	5 TV SCREEN	: Selection of the TV screen type
Down	6 OSD DISPLAY	: Switching of on-screen display messages



① Changing the viewing restriction level (RATING)

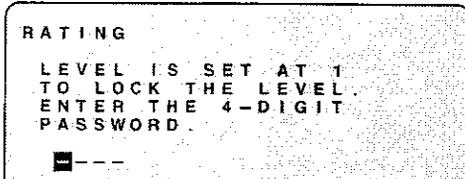
- ① Select the desired level with the cursor keys (◀, ▶) and press the ENTER key to set the selection.



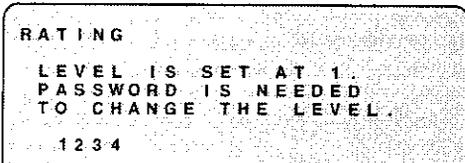
Each press of a cursor key (◀, ▶) moves the cursor.

- | | | | |
|---|------------|---------------------|-----------|
| ▶ | 8: Level 8 | : No restriction. | |
| | 7: Level 7 | : | |
| ▶ | 6: Level 6 | : | ↑ Lax. |
| ↕ | 5: Level 5 | : | |
| ◀ | 4: Level 4 | : | ↓ Strict. |
| ◀ | 3: Level 3 | : | |
| | 2: Level 2 | : | |
| | 1: Level 1 | : Max. restriction. | |

- ② Input a 4-digit password with the numeric keys and press the ENTER key to set the password.



- ③ Press the ENTER key again to set the change.



To change the viewing restriction again

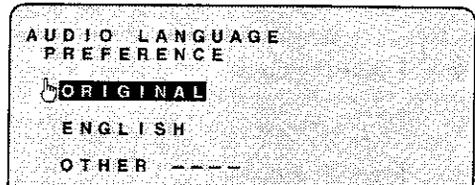
- ① Input the same 4-digit password as that input above and press the ENTER key to set it.
- ② Change the viewing restriction level by repeating steps ① to ③ of the "Changing the viewing restriction level (RATING)" procedure above.
- Be sure not to forget the 4-digit password. Note it down in a memo and retain it carefully.

* If you select "OTHER" (other language)

Refer to the "DVD menu language code list" to find the 4-digit language code for the desired language. Input it with the numeric keys and press the ENTER key to set the input. → 40

② Changing the voice language (AUDIO)

Select a language with the cursor keys (Δ, ▽) and press the ENTER key to set the selection.

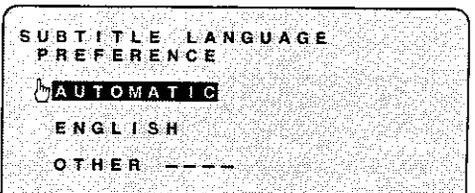


Each press of a cursor key (Δ, ▽) moves the cursor.

- | | | |
|------|------------|---|
| (Δ) | 1 ORIGINAL | : The language given the highest priority among the voice languages recorded in the disc. |
| Up | | |
| ↓ | | |
| (▽) | 2 ENGLISH | : English. |
| Down | 3 *OTHER | : Other language than ORIGINAL or ENGLISH. |

③ Changing the subtitle language (SUBTITLE)

Select a language with the cursor keys (Δ, ▽) and press the ENTER key to set the selection.



Each press of a cursor key (Δ, ▽) moves the cursor.

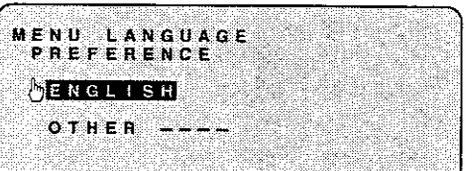
- | | | |
|------|-------------|---|
| (Δ) | 1 AUTOMATIC | : The language selected in "Changing the voice language (AUDIO)". |
| Up | | |
| ↓ | | |
| (▽) | 2 ENGLISH | : English. |
| Down | 3 *OTHER | : Other language than AUTOMATIC or ENGLISH. |

If you select "AUTOMATIC"

When the voice reproduced with the disc is in other language than the voice language selected in "Changing the voice language", the subtitle in the language selected in it is displayed.

④ Changing the menu language (MENU)

Select a language with the cursor keys (Δ, ▽) and press the ENTER key to set the selection.

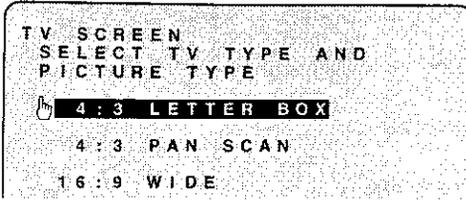


Each press of a cursor key (Δ, ▽) moves the cursor.

- | | | |
|------|-----------|--------------------------------|
| (Δ) | 1 ENGLISH | : English. |
| Up | | |
| ↓ | | |
| (▽) | 2 *OTHER | : Other language than ENGLISH. |
| Down | | |

5 Changing the TV screen type (TV SCREEN)

Select a TV screen type with the cursor keys (Δ , ∇) and press the ENTER key to set the selection.



Each press of a cursor key (Δ , ∇) moves the cursor.

- (Δ) 1 4:3 LETTER BOX : Letter-box screen with 4:3 aspect ratio
- Up
↓
(∇) 2 4:3 PAN SCAN : Pan & scan screen with 4:3 aspect ratio
- Down
↓
(∇) 3 16:9 WIDE : Wide screen with 16:9 aspect ratio

When a TV with 4:3 aspect ratio screen is connected:

Select "4:3 LETTER BOX" or "4:3 PAN SCAN".

- With "4:3 LETTER BOX", DVD software recorded with the 16:9 aspect ratio is reproduced in the letter box screen (which has black bands on the top and bottom).
- With "4:3 PAN SCAN", DVD software recorded with the 16:9 aspect ratio and the pan & scan specification is reproduced in the pan & scan screen (the left and right of which are trimmed). (Software recorded without the pan & scan specification is reproduced in the letter box screen.)

When a TV with 16:9 aspect ratio screen is connected:

Select "16:9 WIDE".

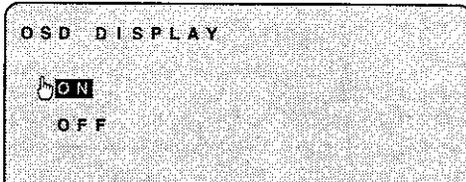
- DVD software recorded with the 16:9 screen is reproduced by filling the TV screen.



See "Terminology" for detailed description on the terms such as aspect ratio, letter box and pan/scan. - [44]

6 Switching the TV on-screen display messages (OSD DISPLAY)

Select ON or OFF with the cursor keys (Δ , ∇) and press the ENTER key to set the selection.



Each press of a cursor key (Δ , ∇) moves the cursor.

- (Δ) 1 ON: On-screen display is switched on.
- Up
↓
(∇) 2 OFF: On-screen display is switched off.
- Down

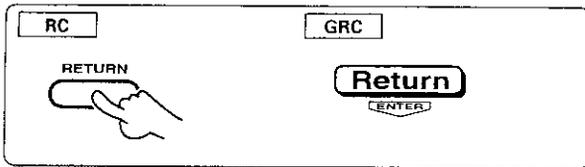
When you select "ON":

A message is displayed on the TV screen every time a key is pressed.

When select "OFF":

No message is displayed on the TV screen even when a key is pressed.

5 Press the RETURN key to complete the procedure.



DVD menu language code list

DV S700 E.4.1

40

Cord No.	Language
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Amharic
6582	Arabic
6583	Assamese
6588	Aymara
6590	Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengari; Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
6978	English
6979	Esperanto
6983	Spanish
6984	Estonian
6985	Basque
7065	Persian
7073	Finnish
7074	Fiji
7079	Faroese
7082	French
7089	Frisian
7165	Irish
7168	Scots Gaelic
7176	Galician
7178	Guarani
7185	Gujarati
7265	Hausa
7273	Hindi
7282	Croatian
7285	Hungarian
7289	Armenian
7365	Interlingua
7378	Indonesian
7383	Icelandic
7384	Italian
7387	Hebrew
7465	Japanese

Cord No.	Language
7473	Yiddish
7487	Javanese
7565	Geogian
7575	Kazakh
7576	Greenlandic
7577	Cambodian
7578	Kannada
7579	Korean
7583	Kashmiri
7585	Kurdish
7589	Kirghiz
7665	Latin
7678	Lingala
7679	Laothian
7684	Lithuanian
7686	Latvian; Lettish
7771	Malagasy
7773	Maori
7775	Macedonian
7776	Malayalam
7778	Mongolian
7779	Moldavian
7782	Marathi
7783	Malay
7784	Maltese
7789	Burmese
7865	Nauru
7869	Nepali
7876	Dutch
7879	Nowegian
7982	Oriya
8065	Punjabi
8076	Polish
8083	Pashto; Pushto
8084	Portuguese
8185	Quechua
8277	Rhaeto-Romance
8279	Romanian
8285	Russian
8365	Sanskrit
8368	Sindhi
8372	Serbo-Croatian
8373	Singhalese
8375	Slovak
8376	Slovenian
8377	Samoan
8378	Shona
8379	Somali
8381	Albanian
8382	Serbian

Cord No.	Language
8385	Sundanese
8386	Swedish
8387	Swahili
8465	Tamil
8469	Telugu
8471	Tajik
8472	Thai
8473	Tigrinya
8475	Turkmen
8476	Tagalog
8479	Tonga
8482	Turkish
8484	Tatar
8487	Twi
8575	Ukrainian
8582	Urdu
8590	Uzbek
8673	Vietnamese
8679	Volapük
8779	Wolof
8872	Xhosa
8979	Yoruda
9072	Chinese
9085	Zulu

Other

Maintenance

Cleaning

Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzene, etc. to clean the cabinet. Use a clean dry cloth.

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

Reference

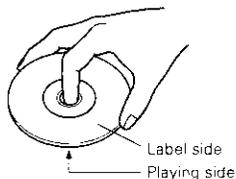
Discs which can be played with this unit

DVD (12 cm, 8 cm), CD (12 cm, 8 cm), VCD, and the audio part of CDV, CD-G and CD-EXTRA.

Never play a cracked or warped disc

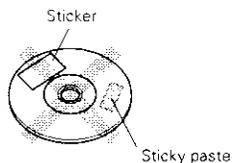
During playback, the disc rotates at high speed in the player. Therefore, to avoid danger, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent. Please do not use discs which are not round because they may cause a malfunction.

Disc handing precautions

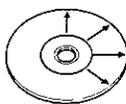


Handling

Hold the discs 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 discs.
- The paste left on the label surface after a sticker has been peeled off is a factor which may cause malfunction. If the surface is sticky due to remaining paste, be sure to clean it with alcohol before use.



Cleaning

If fingerprints or foreign matter become attached to 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.

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.

Beware of condensation

When the difference between the internal temperature of the unit and external atmosphere is large, dew (mist) may be produced on the internal parts of the unit. In such a case, turn the unit ON and leave it for a few hours until the condensation has dried up.

Be especially careful in the following conditions:

When the unit is brought into a place where there is a large difference in temperature between the previous location, when the humidity of the listening room is high, etc.

Note related to transportation and movement

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

1. Turn the unit ON but do not load a disc.
2. Verify that the display shown appears.

NO DISC

3. Wait a few seconds and turn the power OFF.

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 microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the connection cords are unplugged while unit is ON or due to an external factor. In this case, execute the following method to reset the microcomputer and return it to normal condition.

While holding the stop (■) key depressed, press the MAIN POWER switch to OFF then ON again.

- Please be aware that resetting this unit will erase all stored information and return it to the factory settings.

DVD player unit

Symptom	Cause	Remedy
Playback does not start when the play (▶) 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. 	<ul style="list-style-type: none"> • Load a disc and press the play (▶) key. • Turn the disc over and properly place it on the disc tray.
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. 	<ul style="list-style-type: none"> • Turn on the TV. • Properly reconnect the connection cords. <small>— [6]</small>
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. 	<ul style="list-style-type: none"> • Properly connect the audio cords. • Set the sound volume to an appropriate level. • Press the play (▶) key to resume normal playback mode.
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. <small>— [41]</small> • Use a new disc. • Refer to the "Beware of condensation" section and evaporate the condensation. <small>— [41]</small>
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.	<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. <small>— [20]</small>
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..
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. <small>— [35]</small>
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. — [38]
The viewing restriction level (RATING) cannot be changed.	<ul style="list-style-type: none"> ● You have forgotten the viewing restriction (RATING) password. 	<ul style="list-style-type: none"> ● Reset the initial setting contents to the factory setup using the following procedure: In stop mode, press and hold the ◀ and ▶ keys on the main unit simultaneously, and hold the REMOTE POWER key for more than 3 seconds.
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. 	<ul style="list-style-type: none"> ● Use a DVD disc containing the recording of the selected voice or subtitle language.
The TV screen does not show any on-screen display message when a key is pressed.	<ul style="list-style-type: none"> ● The on-screen display message function (OSD DISPLAY) is set to off. 	<ul style="list-style-type: none"> ● Set the on-screen display function (OSD DISPLAY) to ON. — [39]
Menu screen messages are not shown in the desired language.	<ul style="list-style-type: none"> ● The menu language function (MENU) is not set. 	<ul style="list-style-type: none"> ● Set the disc menu language function (MENU) as required. — [38]

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. — [14]

TOC

In addition to the audio signal, a disc contains information called TOC (Table Of Contents) in the first part of the disc. Just like the table of contents of books, the TOC describes information such as the number of tracks (chapters) and playing time.

Track (CD, VCD)

These are divisions of the contents recorded on the disc (titles or pictures). With most general music CDs, one track is assigned to a title, but with VIDEO CDs, the division of the contents does not necessarily coincide with the track numbers.

Skipping tracks, programmed playback, and other (special) playback used with general music CDs is based entirely on the track numbers, and thus such playback may not be possible for some VIDEO CDs.

Track number (CD)

Track numbers are used to designate the various sections of a disc.

Title, Title number (DVD)

The title is the largest unit of the video/audio recording in DVDs. Usually, the title corresponds to a movie or video software or an album (or a piece) of music software. Title numbers are sequential numbers assigned to titles.

Chapter, Chapter number (DVD)

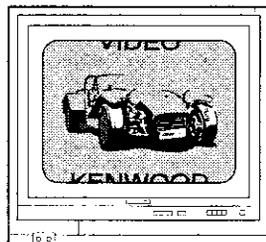
Chapters are divisions, which are smaller than the titles, of the contents recorded on DVDs. Every title is composed of more than one chapter. Chapter numbers are the sequential numbers assigned to the chapters in a DVD disc.

Aspect ratio

The aspect ratio is the ratio between the vertical and horizontal size of the picture displayed on a TV screen. The aspect ratio of normal TV screen is 4:3 while that of the wide-screen TV and HDTV screens is 16:9.

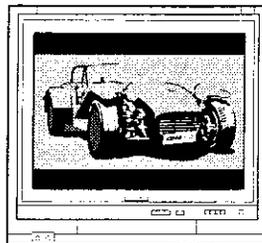
Pan & scan (DVD)

When a wide image recorded with the 16:9 aspect ratio is displayed on a TV screen having the 4:3 aspect ratio, part of image may be trimmed to accommodate the image in the screen. This type of screen is referred to as the pan & scan screen. In general, the trimmed part of the pan & scan screen is determined uniformly depending on the player component, but the DVDs allow the software producers to record their recommended trimming specifications in the discs.



Letter box (DVD)

When a wide-screen image recorded with the 16:9 aspect ratio is displayed on a TV screen having the 4:3 aspect ratio, the top and bottom of the screen may be occupied by bands in a color such as black so that the wide image can be shown on the center of the screen. This type of screen is referred to as the letter box screen.



MPEG (VCD, DVD)

MPEG stands for Moving Picture Expert Group. It is regarded as an international standard for digital signal compression and restoration for media.

VIDEO CD (VCD)

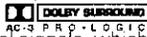
This is a CD with recorded moving images. By compressing the video information to 1/120 and the audio information to 1/6, recording of up to 74 min is possible on discs with the same 12 cm diameter as general audio CDs.

Two types of discs are being marketed (without P.B.C.) for simple playback and (with P.B.C.) with menus and special playback (playback control). This unit can be used for playback of VIDEO CDs of both types.

P.B.C. (VCD)

Stands for "Play-Back Control." This function is sometimes incorporated in VIDEO CDs. When such a disc is played, a menu screen is displayed so that the user can enjoy the disc playback by selecting desired tracks or scenes on the screen.

Dolby AC-3 Digital Surround (DVD)

This is the latest digital surround system developed by Dolby Laboratories. Discs bearing the  includes the recording of 5.1 channels of digital signals, which can reproduce much better sound quality, spatial expansion and dynamic range characteristics than the previous Dolby Surround effect.

CD-TEXT support (CD)

The text information (disc title, track titles, names of the artists, songwriters, composers, etc.) recorded on the CDs can be easily called and displayed in alphanumeric. (Some Japanese words and text may not be displayed.)

Subtitle (DVD)

Some DVDs contain the recording of more than one subtitle languages. With these discs, this unit can select one of the subtitle languages as desired during playback. By setting the subtitle language to "AUTOMATIC" in the initial setting, subtitles are displayed only when the voice language used by the disc is other than the initially-set voice language.

Specifications

DV-F700 (Fn/K)

45

[Type]

System DVD video player system
Signal read system Semiconductor laser

[D/A Conversion Section]

D/A conversion 24 Bit
Oversampling
..... 8 fs (Sampling frequency; 44.1, 48 kHz)
..... 4 fs (Sampling frequency; 96 kHz)

[Audio section]

Frequency response
Sampling frequency; 44.1 kHz
..... 4 kHz~20 kHz
Sampling frequency; 48 kHz
..... 4 kHz~22 kHz
Sampling frequency; 96 kHz
..... 4 kHz~44 kHz
Signal to noise ratio More than 102 dB
Dynamic range More than 97 dB
Total harmonic distortion Less than 0.003%(1 kHz)
Channel separation
..... More than 100 dB (1 kHz, OUTPUT)
Wow and flutter Below measurable limit
($\pm 0.001\%$ W, PEAK)
Analog output level/impedance 1.2 V/343 Ω
Digital output level/impedance
COAXIAL 0.5 Vp-p/75 Ω
OPTICAL ... -21 dBm~-15 dBm (Wave Length 660 nm)

[Video Section]

Video output format NTSC
Video compression
VCD MPEG 1
DVD MPEG 2
Horizontal resolution More than 500 lines
Video signal to noise ratio More than 60 dB
Composite video output level
..... 1 Vp-p (75 Ω load, sync. negative)
S-video output level
(Y-signal) 1 Vp-p (75 Ω load, negative)
(C-signal) 0.286 Vp-p (75 Ω)

[General]

Power consumption 35 W
Dimensions W : 400 mm (15-3/4")
H : 106 mm (4-3/16")
D : 377 mm (14-13/16")
Weight (net) 5.8 kg (12.8 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).

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.

For the U.S.A.

CAUTION :

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

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

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

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

Location: Back Panel

Other