KENWOOD

COMPACT Hi-Fi COMPONENT SYSTEM

M-616DV

INSTRUCTION MANUAL

Kenwood Corporation

Made for
iPod **iPhone**

MP3
WMA

DOLBY
DIGITAL

DVD
VIDEO TM

COMPACT
disc
SUPER VIDEO

CD-R/RW
PLAYBACK

DIVX TM

© B60-5870-08/00 (E, X) LVT2249-001A

Before applying power

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

Units are designed for operation as follows.

Australia .... AC 240 V only

Europe .... AC 230 V only

Safety precautions

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

| ⚡ | **CAUTION**
RISK OF ELECTRIC SHOCK
DO NOT OPEN | ⚠ |

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

| ⚡ | THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS. |
| ⚠ | THE EXCLAMATION POINT WITHIN AN EQUI-LATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPA-NYING THE APPLIANCE. |

The marking of products using lasers

CLASS 1
LASER PRODUCT

The marking this product has been classified as Class 1. It means that there is no danger of hazard-ous radiation outside the product.

Location: Back panel

The markings of products' certifications.
Rating label location : Back panel

IMPORTANT SAFETY INSTRUCTIONS

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

Read These Instructions
– All the safety and operating instructions should be read before the product is operated.

Keep These Instructions
– The safety and operating instructions should be retained for future reference.

Heed All Warnings
– All warnings on the product and in the operating instructions should be adhered to.

Follow All Instructions
– All operating and use instructions should be followed.

1. Clean only with dry cloth
– Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

2. Attachments
– Only use attachments/accessories specified by the manufacturer.

3. Do not use this apparatus near water
– This product shall not be exposed to dripping and splashing – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like. Do not place an object containing liquid, such as a flower vase, on the appliance.

4. Accessories
– Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

5. Ventilation
– Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

6. Power Sources
– This product should be operated only from the type of power source indicated on the product. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

7. CAUTION – Polarization
– Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

8. Power Cord Protection
– Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

9. Lightning
– Unplug this apparatus during lightning storms or when unused for long periods of time.

10. Overloading
– Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

11. Object and Liquid Entry
– Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

12. Servicing
– Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

13. Damage Requiring Service
– Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

14. Replacement Parts
– When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

15. Safety Check
– Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

16. Wall or Ceiling Mounting
– This product should be mounted to a wall or ceiling only as recommended by the manufacturer.

17. Heat
– Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not place a flaming object, such as a candle or lantern, or near the product.

18. Power Lines
– An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Notes:

Item 7 is not required except for grounded or polarized equipment.

Before use

Contents

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

Unpacking

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

FM indoor antenna..(1)
Remote control unit
   with a built-in button battery (RC-F0601)...................(1)
Video cord...(1)

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

How to read this manual

Most of the functions are designed to be able to operate from the remote control unit.

Preparing the remote control unit

When you use the remote control unit for the first time, pull out the insulation sheet.

Operation

When the power cord is plugged in, **STANDBY/TIMER** indicator is lit. The power turns ON by pressing ⏻ button on the remote control unit pointing at the remote sensor. When the power comes on, press the button you want to operate.

Remote sensor

Approx. 6 m

30°   30°

⌨
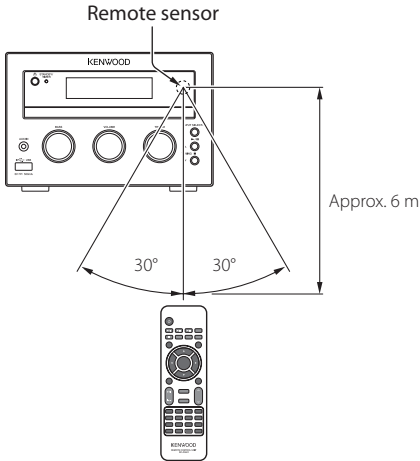
• The supplied battery may have shorter live than ordinary battery due to use during operation checks.
• When the remote-controllable distance gets shorter than before, replace the battery with a new one.
• Placing the remote sensor in direct sunlight, or in direct light from a high frequency fluorescent lamp may cause a malfunction.
  In such a case, change the location of the system installation to prevent malfunction.

Changing the battery of the remote control unit

Use a commercially available button battery (CR2025).

CR2025 (+side)

⌨
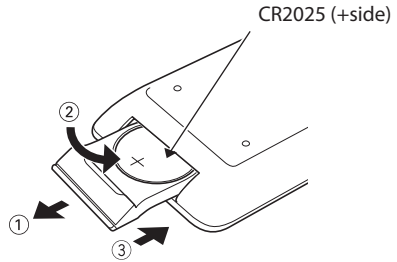
• Insert the battery into the remote control unit by matching the polarities (+ and –) correctly.

⚠ *CAUTION*

• Lithium battery.
  Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
• The battery pack or batteries shall not be exposed to excessive heat such sunshine, fire or the like.
• Keep battery out of reach of children and in original package until ready to use. Dispose of used batteries promptly. If swallowed contact physician immediately.

Connections

FM indoor antenna

ANTENNA
FM75Ω

Right speaker

Left speaker

Component Video cord
(commercially available)

To TV with video input
terminal

The "DIGITAL OUT"
terminal of this unit puts
out only the digital audio
of the DVD/CD source.

COMPONENT
VIDEO OUT ▽

Cb   ▽   Cr

DIGITAL OUT
(COAXIAL)

R   AUDIO OUT   L   VIDEO OUT

ANTENNA
FM75Ω

Power cord

To AV receiver/amplifier or speaker
with built-in amplifier etc.
with input terminal

Digital coaxial cord

To AC wall outlet
• Insert the plug firmly all the
way into the AC wall outlet.

RCA pin plug cord (commercially available)

Video cord

⚠ *CAUTION*

The power in this equipment will not be
completely cut off from the wall outlet
when the standby switch is turned off.
Install the equipment so that the wall
outlet is easily accessible and, in case of
emergency, immediately unplug the power
plug from the wall outlet.
Mains plug is used as the disconnect
device, It shall remain readily operable and
should not be obstructed during intended
use.

⚠ *CAUTION*

**Be sure to adhere to the following, or proper ventilation will
be blocked causing damage or fire hazard (Main unit and
power cord).**

• Do not place a cloth on the unit or place it on a carpet or cushion.
• Do not use the system in a poorly ventilated place.
• Do not place any objects impairing heat radiation onto the top of the main
  unit.
• Leave some space around the main unit (from the largest outside dimension
  including projection) equal to or greater than, shown below.

Top panel : 50 cm

Side and rear : 15 cm

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Connecting the FM antenna

1 Connect the lead to the [ANTENNA FM 75Ω] terminal.
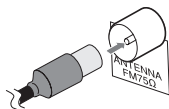
2 Find the location that gives the best reception.

3 Secure the antenna as high up as possible.

• The antenna supplied with the system is a basic antenna for indoor use. For stable signal reception, the use of an outdoor antenna (commercially available) is recommended. Disconnect the indoor antenna first before connecting an outdoor antenna.

⚠ CAUTION on installing an outdoor antenna

• Since antenna installation necessitates skill and experience, always consult your dealer before installation. The antenna should be placed at a distance from the power distribution wires. Otherwise, an electric shock accident may occur if the antenna falls down.

Connecting the iPod/iPhone

1 Insert the Dock adapter into the main unit.
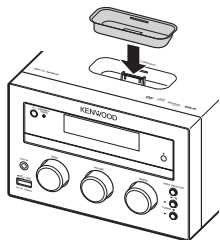
2 Connect your iPod/iPhone.

To remove Dock adapter

• Insert a thin object such as the tip of a flat-blade screwdriver into the slit on the dock adapter and lift it to remove.
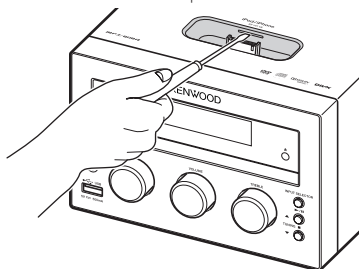
• Connect an iPod dock adapter, which is provided with your iPod/iPhone or commercially available from Apple Inc., to the iPod dock of this main unit. Note that the iPod adapter is not provided with this System.

• You do not need to attach an iPod dock adapter for some models of iPod/iPhone (such as iPod nano 6th generation).

• See page 9 for the supported iPod/iPhone models.

Disc information

Types of Playable Discs

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

Playable Disc	DVD VIDEO (DVD-R/RW, DVD+R/RW)		CD (CD-R, CD-RW)		VCD (SVCD*)	
Logo mark on disc	DVD VIDEO	DVD VIDEO	COMPACT disc DIGITAL AUDIO		COMPACT disc DIGITAL VIDEO	COMPACT disc SUPER VIDEO
Disc size	8 cm	12 cm	8 cm	12 cm	8 cm	12 cm
Played sides	One or both	One or both	One side only	One side only	One side only	One side only
Contents — Video + Audio	Approx. 41 min. (1 side, 1 layer) Approx. 75 min. (1 side, 2 layers) Approx. 82 min. (2 sides, 1 layer) Approx. 150 min. (2 sides, 2 layers)	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. 20 min. / (In case of an SVCD, the possible playback time becomes shorter.)	Max. 74 min. / (In case of an SVCD, the possible playback time becomes shorter.)
Contents — Audio			Max. 20 min., digital	Max. 80 min., digital		

- * This unit can play SVCDs, but some functions will not work.
- A Dual Disc is a two-sided disc combining a DVD side according to the DVD standard and a music side. The video content recorded on the DVD side can be played back. As the music side is not compatible with the Compact Disc (CD) standard, playback on this unit is not assured.
- This unit can play back DVD-R and DVD-RW discs recorded in the DVD VIDEO format and DVD+R and DVD+RW discs, but depending on the recording unit, the disc manufacturer, etc., playback sometimes may not be possible.
- This unit may also be incapable of playing certain CD-R/RW discs depending on their properties, recording conditions, etc.
- This player cannot play back discs compatible with CPRM. CPRM is the abbreviation of Content Protection for Recordable Media, and it is a technique for copyright protection for recording media.

Unplayable discs

This player cannot play back any of the following discs.

DVD AUDIO discs, DVD-RAM discs, SACD discs, DVD-ROM discs, VSD discs, CDV discs (Only the audio part can be played.), CD-G/CD-EG/CD-EXTRA discs (Only the audio can be played.)

Regional code

This unit has a regional code printed on the rear of the unit. This unit can play only DVD discs labeled same as the rear of the unit or "ALL".
- Most DVD discs have a globe with one or more numbers in it clearly visible on the cover. This number must match your unit's regional code or the disc cannot play.
- If you try to play a DVD with a different regional code from your unit, the message "WRONG REGION" appears on the TV screen.

Operation regulatory marks

With this unit, some functions such as the play function may be restricted depending on the location where the DVD is playing. In this case, the following marks will appear on the screen. For more information, refer to the disc manual.

Handling discs

Handling precautions

Hold a disc taking care not to touch the played surface. (The side without the printed label is the playback side.)

Notes on CD-ROM/CD-R/CD-RW discs

If the CD-ROM, CD-R or CD-RW disc in use has a printable label surface, the disc may be unable to be taken out of the system due to sticking of the label surface. To prevent malfunction of the system, do not use such a disc.

Cautions on CD discs

Always use a CD carrying the ⬭ marking.
A disc without this marking may be unable to be played back correctly.

The disc rotates at a high speed during playback. Never use a cracked, chipped or greatly warped disc. Otherwise, damage or malfunction of the player may result.
Also, do not use a disc with a non-circular shape as this may result in malfunction.

About USB device

Notes on use of the USB device

This unit can play audio files stored in the flash memory and digital audio player that have a USB port (these devices are referred to as USB devices in this document).

The following restrictions are placed on the types and usage of available USB devices:

Available USB devices

• USB devices belonging to the USB mass storage class.
• USB devices whose maximum current consumption is 500 mA or less.

⬭
• **USB Mass Storage Class :** USB devices that the PC can recognize as an external storage without using any special driver or application software.

• Contact the sales agent as to whether your USB device conforms to the USB mass storage class specs.
• Using an unsupported USB device can result in abnormal playback or display of the audio file.
  Even if you use the USB device conforming to the above specs, audio files cannot be played normally depending on the type or condition of the USB device.

Supported iPod/iPhone

Made for

• iPod nano (6th generation)
• iPod nano (5th generation)
• iPod nano (4th generation)
• iPod nano (3rd generation)
• iPod nano (2nd generation)
• iPod nano
• iPod touch (4th generation)
• iPod touch (3rd generation)
• iPod touch (2nd generation)
• iPod touch
• iPod (4th generation)
• iPod classic
• iPod photo (4th generation)
• iPod video (5th generation)
• iPod mini (2nd generation)
• iPod mini
• iPhone 4
• iPhone 3GS
• iPhone 3G

⬭
• Be sure to update the software of your iPod/iPhone to the latest version.
• The iPod/iPhone cannot be connected together with its accessories such as the cover or case. Be sure to remove any accessories before connecting the iPod/iPhone.
• Movies or pictures on iPod/iPhone cannot be output through the VIDEO OUT terminal on this unit.
• Music or sound on iPod/iPhone cannot be output through the AUDIO OUT terminals on this unit.

About MP3 and WMA

The playable MP3/WMA file (hereafter called **Audio file**) and the media format have the following limitation. The Audio file, which is not conforming to the specification, may not play normally.

Playable Audio file

Playable MP3 file
• File formats: MPEG 1/2 Audio Layer 3 file
• Extension: .mp3
• Transfer bit rate: 8 kbps – 320 kbps

Playable WMA file
• File format: Windows Media™ Audio compliant
• Extension: .wma
• Transfer bit rate: 32 kbps – 320 kbps
• Following files created using functions in Windows Media™ Player 9 or later cannot be played.
  - WMA Professional
  - WMA Lossless
  - WMA Voice

⌨

• Do not attach the extensions to files other than the Audio file. If the extension is attached, the file, which is not the Audio file, will play and outputs a loud noise, causing damage to the speaker.
• The files with copy protection cannot be played.
• Audio files cannot be played depending on the encoding software setting, USB device type, and/or recording conditions.
• The unit may not be compatible with upgrade of compression format standard and additional specifications.
• Audio files encoded using VBR (Variable Bit Rate) may use bit rates that fall outside the supported range. Audio files with bit rates outside the supported range cannot be played.

Playable storage media
• DVD±R/RW, CD-ROM, CD-R, CD-RW
• USB device (USB version 1.1/2.0 Full Speed)

⌨

• CD-RW discs which are quick formatted by the writing software cannot be used.
• When recording to the maximum CD-R/RW media capacity at once, the writing software is set to "Disc at once".
• For details on the available USB devices, refer to <About USB device> (page 9).

Playable DVD±R/RW format
• UDF-Bridge

Playable CD-R/RW format
• ISO 9660 Level 1/2
• Joliet

Playable file system of USB device
• FAT 16/32

The maximum number of characters for display
• File/Folder name: 12/8 characters
• MP3 ID3 TAG/WMA Contents property: 30 characters
  WMA Contents property (album name): 30 characters
  (The information which can be displayed with this unit: title, artist name, and album name)

⌨

• File/Folder name is the number of the characters including the extensions.
• This unit can display the following versions of MP3 ID3 TAG: version 1.0/1.1/2.2/2.3/2.4
• A character that cannot be displayed with this unit is displayed incorrectly or substituted by "-".

Limitation of structure for the file and the folder
• Maximum number of folders: 130 (including root folder)
• Maximum number of files per media: 999

Playing order of the audio file
• Audio files are played in the order the files are written. You can specify the order of playback by numbering files in a folder and writing them by folder.

Example
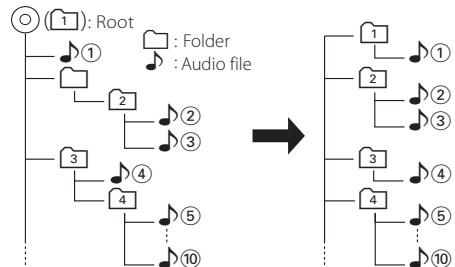
• **Playing order**

  Playing order after ♪① play:

  ➡ ♪②, ♪③, ♪④, ♪⑤...

About Video file

Acceptable video files

Playable MPEG1, MPEG2 file
- File formats: MPEG 1/2
- Extension: .mpg, .mpeg, .m1v, .m2v, .dat, .vob, .mod, .avi
- Picture size: 720 × 480, 720 × 576
- Profile & Level: MP@ML (Main Profile at Main Level)
- Audio format: MPEG Audio Layer 2/3
- Audio sampling frequencies: 32/44.1/48 kHz
- Audio bit rate: 32–384 kbps (Only constant bit rates)
- File size: Max. 4 G bytes

Playable DivX file
- File format: DivX
- Extension: .divx, .mp4, .avi
- Picture size: 352 x 240, 352 x 288, 720 x 480, 720 x 576
- Audio format: MP3, Dolby Digital
- Audio sampling frequencies: 32/44.1/48 kHz
- Audio bit rate: 32–384 kbps (Only constant bit rates)
- File size: Max. 4 G bytes

ABOUT DIVX VIDEO:
DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND:
This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

⟨📖⟩
- When buying DRM enabled contents, check the Registration Code in the <DIVX [R] VOD> (page 21). Registration Code changes each time a file with the displayed Registration Code is played to protect against copying.

About Picture file

Acceptable picture files

Playable JPEG file
- File formats: JPEG
- Extension: .jpg, .jpeg
- Baseline format: Up to a maximum of 8192(W) × 7680(H) pixels
- Progressive format: —
- File size: Max. 4 M bytes

Component names and functions
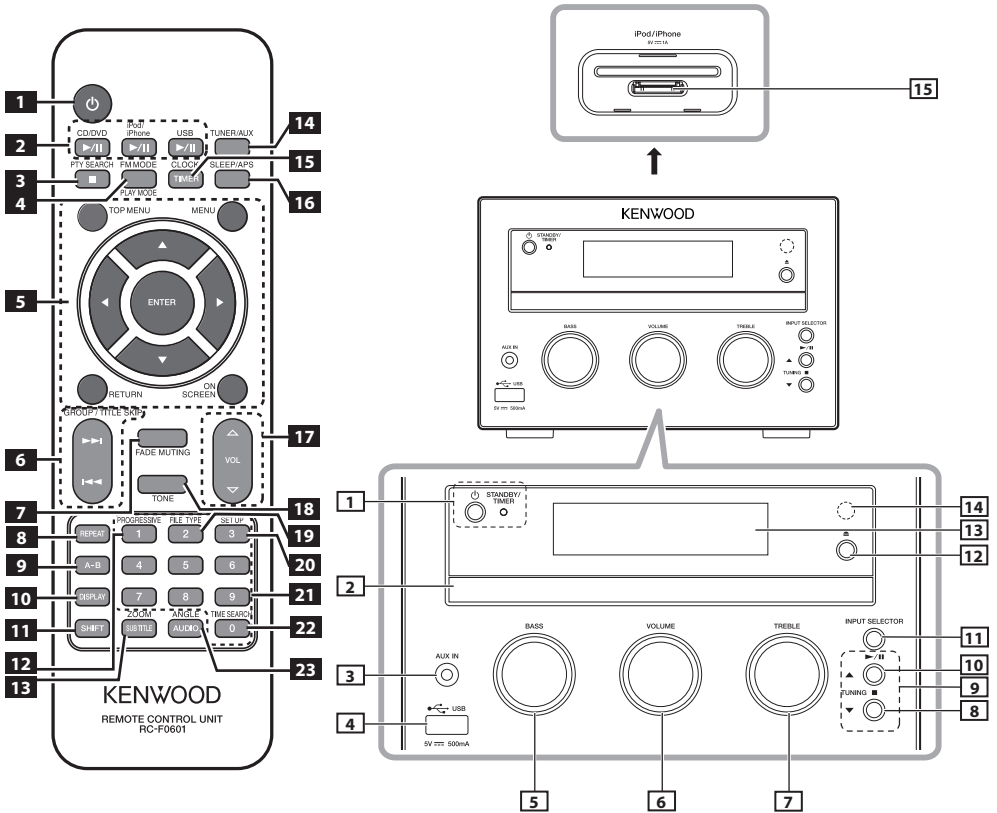
1 **1** ⏻ button
To switch the system on or to standby mode.

STANDBY/TIMER indicator
Red lighting: Ordinary standby mode
Orange lighting: Timer standby mode

2 **10** ►/❚❚ button
To start or interrupt playback for DVD/audio file, video file, iPod/iPhone, or a selected source.

3 **8** **PTY SEARCH/■** button
To carry out PTY search.
To stop playback for DVD, audio file and video file.

4 **FM MODE/PLAY MODE** button
To switch between stereo mode and mono mode for TUNER.
To program tracks/files for CD and audio file.
To play back tracks/files for CD and audio file at random.

5 **MULTI CONTROL ▲/▼/◄/►** buttons
To select a setting item.

▲/▼ buttons
To tune to higher/lower radio frequency or search radio stations for TUNER.

ENTER button
To enter the selected item.

RETURN button
To Return on a Video CD with PBC.

ON SCREEN button
To access On-Screen Display.

TOP MENU button
To view the DVD top menu.

MENU button
To view the DVD menu.

| 6 | ◄◄/►►◄ buttons
To search forward/backward to next/previous title/chapter/track for DVD.
To search forward/backward or to skip to the next/previous files for audio files and iPod, iPhone.
To tune to preset radio stations for TUNER.
To skip to the next/previous group/folder for DVD and audio files (with pressing SHIFT button).

| 7 | **FADE MUTING** button
To interrupt and resume sound reproduction.

| 8 | **REPEAT** button
To repeat one track/file or all tracks/files for CD, audio file and iPod, iPhone.

| 9 | **A-B** button
To select the starting and ending point for repeat play.

| 10 | **DISPLAY** button
To change the display for Radio Data System.
To change the clock display.

| 11 | **SHIFT** button
To add effects on watching DVD or video CD by pressing with another button.

| 12 | **PROGRESSIVE** button
To select the video signal type (with pressing SHIFT button).
To manual preset radio stations for TUNER (with pressing SHIFT button).

| 13 | **SUBTITLE/ZOOM** button
During playback, this button repeatedly to select a desired subtitle language for DVD.
To select the zoom ratio for DVD, Video CD (with pressing SHIFT button).

| 14 | **TUNER/AUX** button
To select the source from TUNER or AUX.

| 15 | **CLOCK/TIMER** button
To set the clock.
To set the timer.

| 16 | **SLEEP/APS** button
To select the sleep time.
To set the A.P.S.

| 17 | **VOL** △/▽ button
To increase or decrease the volume.
To increase or decrease BASS and TREBLE levels.

| 18 | **TONE** button
To select BASS or TREBLE to adjust its level.

| 19 | **FILE TYPE** button
To select the file type to play back in a file (with pressing SHIFT button).

| 20 | **SETUP** button
To access or remove setup menu (with pressing SHIFT button).

| 21 | digit buttons **0 – 9**
To select a track/file number for CD and audio file.
To select a preset radio station for TUNER.

| 22 | **TIME SEARCH** button
To select a desired title/chapter/track/file or time with on screen bar (with pressing SHIFT button).

| 23 | **AUDIO/ANGLE** button
To select an audio language or an audio channel for DVD, Audio file or video file.
To select a DVD camera angle for DVD (with pressing SHIFT button).

| 2 | Disc tray

| 3 | AUX IN input terminal

| 4 | USB connector

| 5 | **BASS** knob
To increase or decrease BASS level.

| 6 | **VOLUME** knob
To increase or decrease the volume.

| 7 | **TREBLE** knob
To increase or decrease TREBLE level.

| 9 | **TUNING** ▲/▼ buttons
To tune to higher/lower radio frequency or search radio stations for TUNER.

| 11 | **INPUT SELECTOR** button
To select the source you want, or to turn the system on to the selected source.

| 12 | ⏏ button
To open or close the disc tray.

| 13 | Display

| 14 | Remote sensor

| 15 | iPod dock

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

Basic function

Switching the system on

Press ⏻ or INPUT SELECTOR button.

> **STANDBY/TIMER** indicator will go out.
> The system will switch to the last selected source.

Switching the system to standby mode

Press ⏻ button.

> **STANDBY/TIMER** indicator is lit.

Volume control

For Remote control unit:

Press VOL △ button to increase, or press VOL ▽ to decrease the volume level.

For Main unit:

Turn VOLUME knob right to increase, or turn VOLUME knob left to decrease the volume level.

> "VOL XX" is displayed. Adjust in the range from MIN (0) to MAX (31).

To switch off the volume temporarily

Press FADE MUTING button.

> Playback continues without sound, and "MUTING" is flashing.

📫

• To restore the volume, press FADE MUTING button again or adjust the volume.

Adjusting the sound

You can reinforce or weaken the bass and treble levels suitable for your favorite music.

To adjust the bass and treble levels

For Remote control unit:
Press TONE button repeatedly to select BASS or TREBLE. Press VOL △ or ▽ button to adjust the enhancement level: −8 to +8.

For Main unit:
Turn BASS or TREBLE knob to adjust the enhancement level: −8 to +8.

Using the DVD/USB device

Preparation

Inserting a disc

1 **Press ⏏ button to open the disc tray.**

2 **Place a disc onto the disc tray with the label side facing up.**
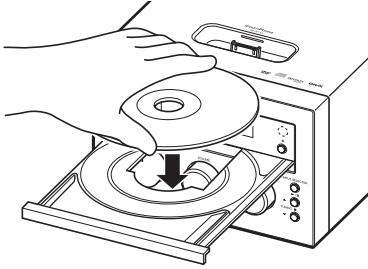
3 **Press ⏏ button to close the disc tray.**

Removing a disc

1 **Press ⏏ button and carefully pull the disc out.**

2 **Press ⏏ button to close the disc tray.**

Prohibiting disc ejection

You can lock the disc tray.

Press and hold ■ and ⏏ buttons on the main unit together.

⟨≣⟩

• To unlock, repeat again.

Inserting a USB device

1 **Press ⏻ button to select standby mode.**

2 **Insert a USB device to the USB connector on the front panel.**
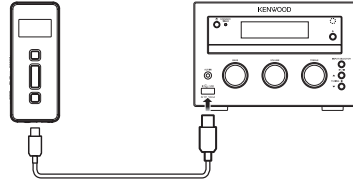
Removing the USB device

1 **Press ⏻ button to select standby mode.**

2 **Remove the USB device.**

⟨≣⟩

• To ensure good system performance; wait until the unit completely reads the disc/USB device before proceeding.
• If the disc compartment is not loaded with a disc, "NO DISC" is displayed.
• If there is no playable audio file in the USB device, "NO USB" is displayed.
• For audio files, reading time may exceed 10 seconds due to the large number of songs compiled into one disc/USB device.

Playing a DVD/Video CD

For Remote control unit: **Press CD/DVD ▶/❙❙ button to start playback.**

For Main unit: **Press INPUT SELECTOR button to select "DVD", and press ▶/❙❙ button.**

> The title/chapter number and elapsed playing time of the current chapter appear on the display.

Basic operations

• In this chart, ▶/❙❙ button means CD/DVD ▶/❙❙ button on the remote control unit and ▶/❙❙ button on the main unit.

Operation type	Operation
To stop playback	Press ■ button. When pressed twice, the disc is played from its beginning when you play it in the next time.
To interrupt playback	Press ▶/❙❙ button. Press again to resume playback.
To select a chapter/track	Press ❙◀◀ or ▶▶❙ button in play or pause mode.
To search for a particular passage during playback	Press and hold ❙◀◀ or ▶▶❙ button for more than 2 seconds to select the searching speed, then release the button. "x2" ➜ "x4" ➜ "x8" ➜ "x20" Press ▶/❙❙ button at any time to resume normal playback.
Slow-motion playback	1. Press ▶/❙❙ button to pause. 2. Press and hold **MULTI CONTROL ▶** button. "1/2" ➜ "1/3" ➜ "1/4" ➜ "1/5" ➜ "1/6" ➜ "1/7" ➜ "PLAY" 3. Press ▶/❙❙ button at any time to resume normal playback.
Forward frame-by-frame playback	1. Press ▶/❙❙ button to pause. 2. Press **MULTI CONTROL ▲** button. 3. Press ▶/❙❙ button at any time to resume normal playback.
To select a subtitle language (For DVD only)	During playback, press **SUBTITLE** button repeatedly to select a desired subtitle language.
To select an audio language (For DVD only)	During playback, press **ANGLE/AUDIO** button repeatedly to select a desired audio language.
To select an audio channel (For Video CD only)	During playback, press **ANGLE/AUDIO** button. Each press switches the selection. MONO L ➜ MONO R ➜ STEREO
To select a camera angle (For DVD only)	During the angle indicator has blinked, press **SHIFT** and **ANGLE/AUDIO** buttons together.

DVD disc menu

Operation type	Operation
To view the title menu	Press **TOP MENU** button to display the disc's title menu, if available.
To view the DVD menu	Press **MENU** button to display the disc menu, if available.
To select a menu item	Use the **MULTI CONTROL ▲/▼/◀/▶** button to highlight your selection, then press **ENTER** button.

Video CD PBC Menu

Operation type	Operation
To turn the PBC On or Off	Press **TOP MENU** button.
To select a menu item	Press the digit buttons 0-9, and then press **ENTER** button.
To return	Press **RETURN** button to return to the menu screen.

Playing a CD/audio file/video file

For Remote control unit: **Press CD/DVD ▶/❙❙ or USB ▶/❙❙ button depending on the source to start playback.**

For Main unit: **Press INPUT SELECTOR button to select "DVD" or "USB" depending on the source, and press ▶/❙❙ button.**

> The track/file number and elapsed playing time of the current track/file appear on the display.

Basic operations

• In this chart, ▶/❙❙ button means CD/DVD ▶/❙❙ or USB ▶/❙❙ button depending on the source on the remote control unit and ▶/❙❙ button on the main unit.

Operation type	Operation
To stop playback	Press ■ button. When pressed twice, the audio file/video file is played from its beginning when you play it in the next time.
To interrupt playback	Press ▶/❙❙ button. Press again to resume playback.
To search for a particular passage during playback	Press and hold ❙◀◀ or ▶▶❙ button for more than 2 seconds to select the searching speed, then release the button. "x2" ➜ "x4" ➜ "x8" ➜ "x20" Press ▶/❙❙ button at any time to resume normal playback.
To select a track/file	Press ❙◀◀ or ▶▶❙ button in play or pause mode.
To select a folder (For audio file/video file only)	Press **MULTI CONTROL ▲** or ▼ button in play or pause mode.

- For audio file, video file; "T:xxx" appears on the display. "T:xxx" indicates the file number.
- The digit buttons, 0–9 on the remote control unit, can also be used to select a track/file.
  Press the digit buttons as shown below:

	CD	Audio/video file
To select track/file 2	**2** and **ENTER**	**2** and **ENTER**
To select track/file 23	**2**, **3** and **ENTER**	**2**, **3** and **ENTER**
To select file 120	—	**1**, **2** and **0**

If ENTER button is not pressed, the search for the selected track/file will start in 5 seconds.

Direct Search (For DVD, Video CD, CD, audio file only)

1 **Press SHIFT and TIME SEARCH buttons together.**

In case of Audio file or Video file, press these buttons during playback.

2 **Press MULTI CONTROL ◄ or ► button to select an item.**

Example : DVD Video

DVD TT 01/12CH 001/024 ⏱ 00:01:23

3 **Press the digit buttons 0-9 to input.**

4 **Repeat step 2 and 3 to enter the time.**

5 **Press ENTER button to confirm the start time.**

File Select (For audio file, video file, picture file only)

You can select a file from the list display.

Folder column
Track column
File type
Audio file
Picture file
Video file
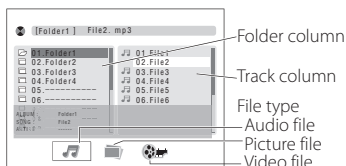
1 **Press MULTI CONTROL ◄ or ► button to select the Folder column, Track column, or File type.**

2 **Press ENTER button.**

3 **Press MULTI CONTROL ▲ or ▼ button to select a folder or track.**

4 **Press ENTER button.**

To select a file type if different types of playable files (audio/picture/video file) are contained

1 **During playing of video file/picture file, press ■ button to stop.**

2 **Press SHIFT and FILE TYPE together repeatedly to select File type.**

- If no playable file is contained for a file type, you cannot select that file type.

For picture file

- In this chart, ►/❚❚ button means CD/DVD ►/❚❚ or USB ►/❚❚ button depending on the source on the remote control unit and ►/❚❚ button on the main unit.

Operation type	Operation
To start slide show	Press ►/❚❚ button.
To stop playback	Press ■ button.
To interrupt playback	Press ►/❚❚ button.
To select a file	Press ◄◄ or ►►❙ button.
To full screen view	Press **ENTER** button.
To rotate picture	Press **MULTI CONTROL** ◄ or ► button.
To flip vertical	Press **MULTI CONTROL** ▲ button.
To flip horizontal	Press **MULTI CONTROL** ▼ button.

- When selecting a picture file, the preview appears in the folder column.

Programming chapters/tracks/files

Programming chapters/tracks/files of a DVD/audio file/video file is possible when playback is stopped. Up to 32 tracks/files for a disc and USB device can be stored in the memory in any order.

1   In stop mode, press FM MODE/PLAY MODE button repeatedly to enter program setting.

"P01 0000" appears on the display.
"T– – C– –" indicates title/chapter number of the DVD.
"T– –" indicates track number of the CD/Video CD (PBC off).
"T– – –" indicates file number of the audio file/ video file/ picture file.
"P01 0000" indicates program number.

2   Press MULTI CONTROL ▲ or ▼ button, or digit buttons 0–9 to select the desired title/track/file.

For DVD: Press ENTER button, and then press MULTI CONTROL ▲ or ▼ button, or digit buttons 0–9 to select the desired chapter.

3   Press ENTER button to store the selected chapter/track/file.

The title/track/file number returns to "T– – C– –"/ "T– –"/ "T– – –" and the next program number appears on the display.

4   Repeat steps 2 to 3 to select and store other desired chapters/tracks/files in this way.

5   Press CD/DVD ▶/❙❙ or USB ▶/❙❙ button depending on the source on the remote control unit or ▶/❙❙ button on the main unit to play the programmed chapters/tracks/files.

The icon "PROG." appears on the display.

⧆

• Audio files can only be programmed within the same source.
• Now enter the new track/file number with either method below.
  – Press any digit button to clear the chapter/track/file number programmed. Select the new chapter/track/file number using digit buttons "0" to "9" on the remote control unit.
• If you press REPEAT button during programmed playback, the current track or all programmed tracks/files is/are played repeatedly.
  The icon "REPEAT" and "PROG." appear on the display.

To clear the program

Press FM MODE/PLAY MODE button.

The icon "PROG." disappears from the display.

⧆

• The program is automatically cleared as soon as the disc tray is opened when the source is selected to DVD.

Random play (except picture file)

You can play all the tracks/files in random order.

1   During playing, pause or stop mode, press FM MODE/PLAY MODE button repeatedly to enable random play mode.

The icon "RAND." appears on the display.

2   To exit random mode, press FM MODE/PLAY MODE button again.

The icon "RAND." disappears from the display.

Repeat play

You can play the current track/file/album or the whole disc/audio file repeatedly.

Press REPEAT button in play or pause mode.

Every time the button is pressed, the repeat play changes in the following order:

For DVD Video :

Repeat mode	Main unit/TV
Repeat a chapter	"REPEAT 1"/"CHAPTER"
Repeat a title	"REPEAT"/"TITLE"
Repeat all	"REPEAT"/"REP ALL"
Repeat off	—/"OFF"

For CD/Video CD (PBC off) :

Repeat mode	Main unit/TV
Repeat a single track	"REPEAT 1"/"REP 1"
Repeat all the tracks *[1]	"REPEAT"/"REP ALL"
Repeat off	—/"OFF"

For audio file/ video file/picture file :

Repeat mode	Main unit/TV
Repeat a single file	"REPEAT 1"/"REP 1"
Repeat one album	"GROUP REPEAT"/ "REP DIR"
Repeat all the files *[1]	"REPEAT"/"REP ALL"
Repeat off	—/"OFF"

- *[1] All tracks/files are repeated continuously.

A-B Repeat

You can play back a desired section repeatedly.

1 **Press A-B button to select the starting point (A) in play mode.**

2 **Press A-B button to select the ending point (B) in play mode.**

- To cancel, press A-B button again.

Zoom

The zoom function allows you to enlarge or compress the video image.

1 **Press SHIFT and ZOOM buttons together repeatedly during playback or in the pause mode to enlarge the image.**

"OFF" ➜ "2" ➜ "3" ➜ "4" ➜ "1/2"*[1] ➜ "1/3"*[1] ➜ "1/4"*[1] ➜ "OFF" ➜ …

2 **You can move through the zoomed picture using MULTI CONTROL ▲/▼/◄/► button.**

3 **To cancel Zoom, press SHIFT and ZOOM buttons together repeatedly until "ZOOM OFF" appears on the TV.**

- *[1] You cannot move the zoomed-in position when "1/2", "1/3", or "1/4" is selected.

Changing the display information

To change information on the on-screen bar

Press ON SCREEN button.

Every time the button is pressed, the display changes in the following order:

For DVD :

Information	Main unit/TV
The current title elapsed time.	—/"C"
The current title remaining time.	"REMAIN"/"C -"
The whole disc elapsed time.	"TOTAL"/"T"
The whole disc remaining time.	"TOTAL REMAIN"/"T -"
On-screen is clear	—/—

For CD/Video CD :

Information	Main unit/TV
The current track elapsed time.	—/"C"
The current track remaining time.	"REMAIN"/"C -"
The whole disc elapsed time.	"TOTAL"/"T"
The whole disc remaining time.	"TOTAL REMAIN"/"T -"
On-screen is clear	—/—

For audio file/video file :

Information	Main unit/TV
The current file elapsed time.	—/"C"
The current file remaining time.	"REMAIN"/"C -"
On-screen is clear	—/—

For picture file :

Information	Main unit/TV
The file number	—/"C"
On-screen is clear	—/—

To change information on the display of the main unit

Press ON SCREEN button in play or pause mode.

Every time the button is pressed, the display changes in the following order:

For audio file :

Information	Main unit
The current track elapsed time.	—
The current track remaining time.	—
The whole disc elapsed time.	—
The whole disc remaining time.	—

DVD Setup

Selecting the scanning mode

Press to select the video output suitable for the TV.

Press SHIFT and PROGRESSIVE buttons together.

Display	"576I"	"576P"
Setting	720 x 576i	720 x 576p
Component video	✔	✔

Scanning mode	
576I	Select this when connecting the TV which does not support the progressive scanning.
576P	Select this when connecting the TV compatible with the progressive scanning to the component input.

⌇

- If you connect the unit and TV with a component video cord, you can view the picture at a higher resolution than when connecting with a video cord.
- If your TV does not accept the signal type you selected, abnormal picture appears on the screen. Please read TV's owner's manual then set the signal type that your TV can accept.
- Do not change the scanning mode to progressive in the following cases;
  – When your TV does not support progressive video input.
  – When you have not connected your TV to the unit using a component video cord.

Setting a menu

1 **Press SHIFT and SET UP buttons together.**

2 **Press MULTI CONTROL ◄ or ► button to select the menu.**


```
TV SYSTEM
SCREEN  SAVER
VIDEO
TV TYPE
PASSWORD
RATING
DEFAULT
```
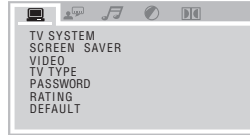
3 **Press MULTI CONTROL ▲ or ▼ button to select the item.**

4 **Press ENTER button.**

5 **Press MULTI CONTROL ▲ or ▼ button to select the options, and then press ENTER button.**

Menu	Item	Contents
	TV SYSTEM	You can select the TV system (**PAL**, **NTSC** or **AUTO**).
	SCREEN SAVER	You can set the screen saver function (**ON** or **OFF**). If no operation is done for about 3 minutes, starts the screen saver.
	VIDEO	You can select the VIDEO system (**INTERLACE** or **P-SCAN YPBPR**).
	TV TYPE	**4:3 PS** (Pan Scan conversion): Select when a standard 4:3 TV is connected. Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit. **4:3 LB** (Letter Box conversion): Select when a standard 4:3 TV is connected. Displays a wide picture with bands on the upper and lower portions of the screen. **16:9** (Wide-screen television): Select when a 16:9 wide TV is connected.
	PASSWORD	You can prohibit operations used for changing the RATING setup. Enter a 4 digit password. We recommend that you write your password here for your reminder. Password: If you forget your password, you can release it by entering 0000.
	RATING	You can set playable rating level with the System.
	DEFAULT	You can set all the items on the SETUP menu to the initial settings (except for the PASSWORD setting).
	OSD LANGUAGE	You can select the language displayed on the screen. **ENGLISH, GERMAN, SPANISH, FRENCH, PORTUGUESE**
	MENU LANG	You can select the initial menu language for DVD Video. **ENGLISH, GERMAN, SPANISH, FRENCH, PORTUGUESE**
	DIVX [R] VOD	The System has its own Registration Code. If necessary, you can confirm it. Once you have played back a DivX file in which the Registration Code is recorded, the System's Registration Code is overwritten for copyright protection.
	DOWNMIX	**LT/RT**: Outputs the sound mixed to the Dolby Surround audio. **STEREO**: Outputs the sound mixed to the stereo sound.
	AUDIO OUT	**SPDIF/OFF**: Digital output is disabled. **SPDIF/RAW**: Select this when connecting an amplifier or a decoder compatible with Dolby Digital. **SPDIF/PCM**: Select this when connecting an amplifier or a decoder incompatible with Dolby Digital or MPEG Audio, or when connecting to a recording device.
	BRIGHTNESS	You can adjust the brightness. (0 to 12)
	CONTRAST	You can adjust the contrast. (0 to 12)
	HUE	You can adjust the hue. (–6 to +6)
	SATURATION	You can adjust the color depth. (0 to 12)
	SHARPNESS	You can adjust the sharpness. (0 to 8)
	NIGHT MODE	You can set the sound to reduces the intensity of loud sounds and raises the level of very soft sounds. (**ON** or **OFF**).
	DYNAMIC RANGE	You can select the Dynamic Range Compression (DRC) for night-time listening. DRC reduces the difference between normal voices and the sound (such as the sound of explosion). The effect of DRC is as follows. **FULL > 6/8 > 4/8 > 2/8 > OFF** When "OFF" is selected, the effect is not available.

Using the iPod/iPhone

Inserting an iPod/iPhone

Connect an iPod/iPhone to the iPod dock.

Playing an iPod/iPhone

For Remote control unit: **Press iPod/iPhone ▶/❚❚ button.**
For Main unit: **Press INPUT SELECTOR button to select "iPod", and press ▶/❚❚ button.**

Basic operations

- In this chart, ▶/❚❚ button means iPod/iPhone ▶/❚❚ button on the remote control unit and ▶/❚❚ button on the main unit.

Operation type	Operation
Call to iPod/iPhone menu display	Press **MENU** button. Call to iPod/iPhone menu display.
	Press **MULTI CONTROL** ▲ or ▼ button to enter the selected iPod/iPhone menu item and press ENTER button.
To interrupt playback	Press ▶/❚❚ button. Press again to resume playback.
To search for a particular passage during playback	Press and hold ◀◀ or ▶▶ button. Release to resume the playback.
To select a song	Press ◀◀ or ▶▶ button.
To select an album*¹	Press **MULTI CONTROL** ▲ or ▼ button.

⊜

- *¹ The operation varies depending on the model of iPod/iPhone.

Model other than iPod touch/iPhone		iPod touch/iPhone
The operation is available when one of the following items is selected.		The album is switched to the next album found by following the alphabetical order of track names.
Browse item	**Selection**	– Example Track-A1 ...... Album-A
Artists, Composers	All Albums	Track-B1 ...... Album-B
Albums, Compilations	All Songs	Track-B2 ...... Album-B
Genres	All Artists	Track-C1 ...... Album-C

Repeat play

You can play the current song or the all songs repeatedly.

Press REPEAT button.

Each press switches the selection of iPod/iPhone play mode.

Random play

You can play all the album in random order.

Press FM MODE/PLAY MODE button.

Each press switches the selection of iPod/iPhone play mode.

⊜

- The displayed icon may not match the actual operation with certain iPod/iPhone models.

Using the AUX

Playing an external component

An external component can be connected to AUX IN of this unit and played back.

1 Connect an external component.

Connect an external component to the [AUX IN] connector on the front of this unit.

2 *For Remote control unit:* Press TUNER/AUX to select "A-IN."
For Main unit: **Press INPUT SELECTOR button to select "A-IN."**

3 Start playing the connected external component.

⌨

• Music or sound on the connected external component cannot be output through the AUDIO OUT terminals on this unit.

Using the radio

Tuning in radio stations

1 *For Remote control unit:* Press TUNER/AUX to select "TUNER."
For Main unit: **Press INPUT SELECTOR button to select "TUNER."**

2 *For Remote control unit:* Press and hold MULTI CONTROL ▲ or ▼ button to tune in to the desired frequency.
For Main unit: **Press and hold TUNING ▲ or ▼ button to tune in to the desired frequency.**

⌨

• To tune to a weak station, press TUNING ▲ or ▼ button on the main unit repeatedly until the display shows the desired frequency or when the best reception has been obtained.
• Broadcasts cannot be output through the AUDIO OUT terminals on this unit.

STEREO/MONO

Press FM MODE/PLAY MODE button to select mono or stereo mode.

When stereo mode is selected, "FM ST" appears on the display.

Manual preset

You can store up to 20 radio stations in the memory. When a preset radio stations selected, the preset number appears on the display.

1 *For Remote control unit:* **Press TUNER/AUX to select "TUNER."**
 For Main unit: **Press INPUT SELECTOR button to select "TUNER."**

2 *For Remote control unit:* **Press and hold MULTI CONTROL ▲ or ▼ button to tune in to the desired frequency.**
 For Main unit: **Press and hold TUNING ▲ or ▼ button to tune in to the desired frequency.**

3 **Press SHIFT and PROGRESSIVE buttons together so that PROG icon appears on the display.**

4 **If you want to store the radio station to another preset number, press |◄◄ or ►►|, or digit buttons 0–9 to select the desired preset number.**

5 **Press SHIFT and PROGRESSIVE buttons together again to store the radio station.**

6 **Repeat steps 2 to 5 to store other preset radio stations.**

⌨

• During preset, if no button is pressed within 10 seconds, the system will exit preset mode automatically.

Tuning to a preset radio station

Press digit buttons 0–9 to select the desired preset number.

The preset number and radio frequency appear on the display.

⌨

• Press the digit buttons as shown below:

| To select 1 | **0** and **1** |
| To select 10 | **1** and **0** |

Using Radio Data System (Europe only)

Radio Data System is a system that transmits useful information (in the form of digital data) for FM broadcasts along with the broadcast signal. Tuners and receivers designed for Radio Data System reception can extract the information from the broadcast signal for use with various functions, such as automatic display of the station name.

Radio Data System functions

PTY (Program Type Identification) Search:

Automatically tunes to a station that is currently broadcasting the specified program type (genre).

PS (Program Service Name) Display:

Automatically displays the station name transmitted by the Radio Data System station.

Radio Text function:

Displays the radio text data transmitted by some Radio Data System stations when you press DISPLAY button. There is "NO TEXT" display if no text data is transmitted.

⌨

• Some functions and function names may differ in certain countries and areas.

Changing the Radio Data System display information (Europe only)

While receiving a Radio Data System station, pressing **DISPLAY** button changes the contents of the display.

Every time the button is pressed, the display changes in the following order:

Information
Clock display
PS (Program Service name) display
PTY (Program Type) display
RT (Radio Text) display
Frequency display and preset number display

Tuning by Program Type (PTY search) (Europe only)

This function lets you set the tuner to automatically search for stations which are currently broadcasting the type of program (genre) you want to listen to.

1 *For Remote control unit:* **Press TUNER/AUX to select "TUNER."**
   For Main unit: **Press INPUT SELECTOR button to select "TUNER."**

2 **Press PTY SEARCH button.**

   If the current station is with Radio Data System, the program type of the station is displayed.

3 **Press MULTI CONTROL ▲ or ▼ button to select your desired program type.**

Program type table

Program Type Name	Display
News	"NEWS"
Current Affairs	"AFFAIRS"
Information	"INFO"
Sport	"SPORT"
Education	"EDUCATE"
Drama	"DRAMA"
Culture	"CULTURE"
Science	"SCIENCE"
Varied Speech	"VARIED"
Pop Music	"POP M"
Rock Music	"ROCK M"
Easy Music	"EASY M"
Light Classical Music	"LIGHT M"
Serious Classical Music	"CLASSICS"
Other Music	"OTHER M"
Weather	"WEATHER"
Finance	"FINANCE"
Children's Program	"CHILDREN"
Social Affairs	"SOCIAL"
Religion	"RELIGION"
Phone In	"PHONE IN"
Travel	"TRAVEL"
Leisure	"LEISURE"
Jazz Music	"JAZZ"
Country Music	"COUNTRY"
National Music	"NATION M"
Oldies Music	"OLDIES"
Folk Music	"FOLK M"
Documentary	"DOCUMENT"
Emergency test	"TEST"
Emergency announcement	"ALARM"
No program	"NONE"

4 **Press PTY SEARCH button to start searching.**

⤳

- Under certain receiving conditions, it may take more than 1 minute to complete the search.
- If the desired program type cannot be found, "NO FOUND" is displayed, then after several seconds the display returns to the original display.

Clock/timer operation

Clock setting

1 Press CLOCK/TIMER button.

"SETCLOCK" appears and "CLOCK" starts flashing.

2 Press ENTER button.

The hour indication starts flashing.

3 Press |◀◀ or ▶▶| button to set the hours and press ENTER button.

The minute indication starts flashing.

4 Press |◀◀ or ▶▶| button to set the minutes and press ENTER button.

⌨

• The clock setting will be erased when the power cord is disconnected or a power failure occurred.

Timer setting

The system can switch on to DVD, USB, TUNER or iPod automatically at a preset time, serving as an alarm to wake you up.

Important!

Before setting the timer, ensure that the clock is set correctly.

1 Press CLOCK/TIMER button repeatedly to select "SETTIMER" and press ENTER button.

"ON TIME" is flashing.

2 Press ENTER button to set the time for on time.

The hour indication starts flashing.

3 Press ▶▶| or |◀◀ button to set the hours and press ENTER button.

The minute indication starts flashing.

4 Press ▶▶| or |◀◀ button to set the minutes and press ENTER button.

"ON TIME" is flashing.

5 Press ▶▶| or |◀◀ button to select "OFF TIME" and press ENTER button.

"OFF TIME" is flashing.

6 Repeat the steps 3 and 4 to set the off time.

The icon "🕑" appears.

7 Press ▶▶| or |◀◀ button to select "SOURCE" and press ENTER button.

"SOURCE" is flashing.

8 Press INPUT SELECTOR button or CD/DVD ▶/ⅠⅠ, iPod/iPhone ▶/ⅠⅠ, USB ▶/ⅠⅠ, or TUNER/AUX ▶/ⅠⅠ button to select the desired source and press ENTER button.

The source switches as follows :
"TUNER" ➔ "DISC" ➔ "USB" ➔ "IPOD" ➔ "TUNER" ➔…
When TUNER is selected, select the preset station number after the above.

9 Press ►►I or I◄◄ button to select the play mode and press ENTER button.

Play mode	Function
PLAY	The playback begins at the level set with VOLUME.
AI PLAY	The volume is increased gradually until the level set with VOLUME.

The timer is now set.

10 Press ⏻ button to turn the power off.

STANDBY/TIMER indicator also lights in orange.

(≡)

• Maximum volume is 16.
  If you listen to a source less than 16, the volume level is set to the same level as you have listened.
  If you listen more than 16, the volume level is set to 16.
• When reached the preset timer, the selected source will play or switch to standby mode after the timer has been activated.
• MULTI CONTROL ◄ or ► button can be used to move across the setting items.

To activate/deactivate the timer

Press CLOCK/TIMER button repeatedly to select "CANCEL" and press ENTER button.

If activated, the icon "⏰" appears on the display.

(≡)

• The timer cannot be set if the starting and stopping time are the same. "INVALID" appears on the display, and return to set the time for off time.

Sleep timer setting

If the sleep timer is activated, the system will switch to standby mode after the selected time has expired.

Press SLEEP/APS button.

Each press of the SLEEP button increases the timer period by 10 minutes. The sleep timer can be set up to 90 minutes.

The icon "SLEEP" appears on the display.

The display will change to sleep time display and change as follows:
10 min ➜ 20 min ➜ 30 min ➜ 40 min ➜ 50 min ➜ 60 min ➜ 70 min ➜ 80 min ➜ 90 min ➜ OFF ➜ 10 min ➜…

While sleep timer is in active:

To deactivate the sleep timer

Press SLEEP/APS button to select OFF or press ⏻ button to turn the power off.

(≡)

• If timer off and the sleep off are all activated, the system will switch to standby mode by the earlier timer set.

System setup

Setting Auto Power Save (A.P.S.)

A.P.S. stands for Auto Power Save, which is the function that switches this unit OFF when it has not been controlled for more than 30 minutes while its power is ON and the disc and other inputs are in stop mode.

Press and hold SLEEP/APS button.

Setting	Function
A.P.S. ON	A.P.S. mode is ON.
A.P.S. OFF	A.P.S. mode is OFF.

When the setting completes, "APS ON" appears on the display and the unit exits the setup mode automatically.

When the A.P.S. is ON...
A.P.S. starts working when the unit is in either condition below.
- When the input source is TUNER, AUX, or iPod, the volume level is 0 and no button has been pressed for 30 minutes.
- When the input source is DVD or USB, the DVD player or USB device is in stop mode and no button has been pressed for 30 minutes.

⊚

- When the A.P.S. is activated, the display shows flashing "APS" from about one minute before this unit is switched OFF.
- To cancel A.P.S., press and hold SLEEP/APS button again. "APS OFF" appears on the display.

In case of difficulty

Resetting the Microcomputer
The microcomputer may malfunction (the unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

When the unit is in standby mode, press ⏻, ENTER, and the number 7 buttons on the remote control unit until "RESET OK" appears.

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

Check that following guide for problem solution.

General
No sound.

➡ Plug in the power cord securely.

➡ Set the volume to proper sound level.

➡ Make sure the source is set to the source you want to operate.

The left and right sound outputs are reverse.

➡ Check the speaker connections and location.

The system does not operate by pressing any buttons.

➡ Unplug the power cord and plug it back in.

This unit is turned OFF spontaneously.

➡ A.P.S. is set to ON. Set it to OFF.

➡ Sleep timer is set to ON. Set it to OFF.

Radio reception
Noise in radio.

➡ Adjust the antenna connection.

➡ Tune to a correct frequency.

➡ Adjust the direction of the FM antenna.

➡ Increase the distance between the system and TV or VCR.

DVD player operation
"NO DISC" is displayed.

➡ Insert a disc correctly (label side up).

➡ Clean the disc.

➡ Use a new or readable disc.

➡ Wait until the moisture condensation at the lens has cleared.

NO picture.

➡ Place the disc on the disc tray correctly inside the guide.

➡ Clean the disc.

➡ Select the appropriate video input on the TV so the picture from the unit appears on the TV.

USB operation
"NO USB" is displayed.

➡ Press ⏻ button again after pressing ⏻ button.

➡ Insert the USB device properly.

"NOT SUPPORT" is displayed.

➡ Press ⏻ button again after pressing ⏻ button.

Cannot play.

➡ Check if the digital audio player is compatible with USB mass storage class device.

iPod/iPhone operation
"NO iPod" is displayed.

➡ Insert the iPod/iPhone properly.

Does not function properly.

➡ Disconnect the iPod/iPhone and connect it again.

➡ Check the software version of the iPod/iPhone. If it is not the latest one, update it.

Remote control unit
Does not function properly.

➡ Replace the batteries.

➡ Remove the obstacles.

➡ Move closer to the system when using the remote control unit and make sure that you are pointing at unit's remote sensor.

"ON SCREEN" is displayed on main unit.

➡ Confirm the operation on the monitor. Operate on the monitor if necessary.

General information

Maintenance

Cleaning the cabinet
• Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, ammonia or abrasive.

Cleaning discs
• When a disc becomes dirty, clean it with a cleaning cloth, wipe the disc from the center out. Do not wipe in circular motion.
• Do not use solvents such as benzene, thinner commercially available cleaners, or antistatic spray intended for analogue records.

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

Be specially cautious against condensation in the following circumstances:

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

Specifications

Main unit

Amplifier section
Rated output power
.............................20 W + 20 W (1 kHz, 10% T.H.D., at 6 Ω)
AUX IN (Sensitivity/Impedance)...................... 125 mV/47 kΩ
Audio Output
AUDIO OUT .... 0.5 V (rms)
Optical digital out (coaxial)

FM Tuner section
Tuning frequency range......................87.5 MHz ~ 108.0 MHz

DVD player section
Laser..Semiconductor laser
[Video section]
Video output format.. NTSC/PAL
Composite video output level ....1 Vp-p (75 Ω)
Component Video output level
Y-signal...1 Vp-p (75 Ω)
Cb/Cr-signal...0.7 Vp-p (75 Ω)

USB interface
USB standard...USB 1.1/2.0 Full Speed
Maximum supply current..500 mA
File system...FAT 16/32

iPod/iPhone section
Output power..DC 5V ⎓ 1 A

General
Power source
For European models....................... AC 230 V ∼, 50 Hz
For Australian models...................... AC 240 V ∼, 50 Hz
Power consumption .... 35 W
Power consumption in standby mode............0.5 W or less
Dimensions ....W : 160 mm
H : 108 mm
D : 270 mm
Weight (net) .... 1.5 kg

Speakers

Enclosure .... Bass-reflex type
Speaker .... Full-range: 89 mm
Impedance .... 6 Ω
Maximum input .... 20 W
Dimensions .... W : 136 mm
                                                                          H : 210 mm
                                                                          D : 180 mm
Weight (net) .... 1.3 kg (1 piece)

Notes:
- 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).

Memory back up function
Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet.
- Input selector settings
- Volume level
- Bass and treble enhancement setting
- Tuner setting

Declaration of Conformity with regard to the EMC Directive 2004/108/EC

Manufacturer:

Kenwood Corporation
2967-3 Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan

EU Representative's:

Kenwood Electronics Europe BV
Amsterdamseweg 37, 1422 AC UITHOORN, The Netherlands

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

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

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

Contact your local authority for details in locating a recycle facility nearest to you.

Pb

Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Notice: The sign "Pb" below the symbol for batteries indicates that this battery contains lead.

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- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering or disassembly is prohibited.

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- DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

- Windows Media is a trademark of Microsoft Corporation registered in the U.S. and other countries.

- "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

- iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

KENWOOD

For your records

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

Model_____Serial Number_____