KENWOOD

AUDIO VIDEO SURROUND RECEIVER

INSTRUCTION MANUAL

KENWOOD CORPORATION

Preparations

About the supplied remote control ...

Compared to standard remote controls, the remote control supplied with this receiver has several operation modes. These modes enable the remote control to perform on screen operations and control other audio/video components. In order to effectively use the remote control it is important to read the operating instructions and obtain a proper understanding of the remote control and how to switch its operation modes (etc.).

Using the remote control without completely understanding its design and how to switch the operation modes may result in incorrect operations.



B60-3015-00 CH (K, P, Y) WS 98/12 11 10 9 8 7 6 5 4 3 2 1 97/12 11 10 9 8 7 6 5 4 3

Getting started

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

AC voltage selector switch

AC 110

120

000

AC 225 240V-

1080VR (En/K)

2 Before applying the power

Units are designed for operation as follows.

* 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.

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		
A	THE LIGHTNING FE USER TO THE PRES OF SUFFICIENT M	SENCE OF UN	
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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.

Move switch lever to

or other pointed tool

match your line voltage

with a small screwdriver

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THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE JSER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE DF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.

THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

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.



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Caution : Read the pages marked \triangle carefully to ensure safe operation. 3

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Special features

True home theater sound

This receiver incorporates a wide variety of surround modes to bring you maximum enjoyment from your video software. Select a surround mode according to your equipment or the software you are going to play and enjoy! - 31

Dolby Digital (AC-3)

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.

Dolby Pro Logic & Dolby 3 Stereo

This surround system reproduces theater-like surround sound from video software marked DD DOLBY SURROUND The PRO LOGIC mode uses the built-in directivity enhancer circuit to control the Left, Center, Right and Surround channel audio signals and reproduce a real sense of sound motion.

The 3 STEREO mode uses the directivity enhancer circuit to provide proper acoustic positioning and a real sense of sound motion even when only the front and center speakers are used.

New DSP surround modes

The DSP (Digital Signal Processor) used for this receiver incorporates a variety of high quality adjustable sound fields, like "ARENA", "JAZZ CLUB", "STADIUM", "CHURCH" and "THEATER", to add the "presence" associated with an arena, jazz club or stadium (etc.) to the original signal. It is compatible with almost any kind of program source.

Universal IR (InfraRed) remote control

In addition to the basic receiver and OSD operations, the remote control supplied with this receiver can also operate almost all of your remote controllable audio and video components. Just follow the simple setup procedure to register the components you have connected. + 36

Dual IR emitters

This remote control has two IR emitters: one to send commands in a straight line over long distances, allowing you to control the receiver and your other components from farther away; and one for wide dispersion of commands in a closer proximity, for near-field operation even when the remote control is not pointed directly at the respective component. - 14

MACRO play

The MACRO function lets you perform a series of operations automatically, like turning ON the power of the receiver and connected components, switching the input selectors, and starting playback. (Be sure to register your components before starting the macro set up procedure.) - 40

FutureSet, automatic update feature

This function lets you update the remote control so it can operate new components which do not appear in the setup code list at the end of the manual. Therefore, the remote control will always be compatible. + 44

Easy surround setup and operation with OSD (On Screen Display)

This function takes advantage of your monitor TV to simplify the surround setup procedures so you can quickly and easily match the surround processing to your speaker system, and your listening environment. You can also use OSD during playback to customize the DSP surround modes, etc.

Special features

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- 28

RDS (Radio Data System) tuner

The receiver is equipped with a RDS tuner that provides several convenient tuning functions: RDS Auto Memory, to automatically preset up to 40 RDS stations broadcasting different programs; station name display, to show you the name of the current broadcast station; and PTY search to let you tune stations by program type.

On screen Radio Text

Although most RDS compatible tuners and receiver's can display the name of the current broadcast station, this receiver goes one step further by allowing you to display the station name, as well as any other text messages broadcast from the current station, in large easy to read characters on the screen of your monitor TV. You can even display radio text from an RDS station while enjoying a different source component!

PTY (Program TYpe) search

Lets you tune stations by specifying the type of program you want to hear.

TP (Traffic Program) search

The TP function lets you search for programs broadcasting traffic information with the touch of a single button. + 30

New TRAITR transistor adopted in the final stage

A new TRAITR transistor which features superior temperature tracking characteristics has been adopted in the final stage of the power amplifier block. This new TRAITR transistor combines a temperature compensation resistor with an emitter resistor and final transistor to provide ideal temperature compensation characteristics and minimize distortion caused by temperature variations.

How to use this manual

This manual is divided in to four sections, Preparations, Operations, Remote Control, and Other.

Preparations

Shows you how to connect your audio and video components to the receiver and prepare the surround processor. We ve tried to make setting up your system as easy as possible. However, since this receiver works with all of your audio and video components, connecting the system can be fairly complex.

Operations

Shows you how to operate the various functions available from the receiver.

Remote Control

Shows you how to operate the various functions available from the remote control.

We've designed this remote control to integrate your entire audio/video system and let you operate all of your entertainment components — your TV, VCR, LD player, CD player, etc. Remember that before you can use the remote control to operate these components, they must be registered with a proper setup code.

Other

Includes additional information such as; a list of setup codes for registering your other components, a troubleshooting guide, specifications, and a reference guide to the remote operations available for registered components.



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Names and functions of parts

1080VR (En/K)

- MEMORY indicator

AUTO indicator

STEREO indicator

TUNED indicator

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- 20

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O POWER key - 18 Use to switch the power ON/STANDBY Ø RDS kevs - 25 - 28 - 30

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- **O** Numeric keys
- **O** STANDBY indicator
- **G** LEVEL indicator - 17 Lights when the level of the signal being input is too high
- **3** 2 CH DOWNMIX indicator Lights when an DOLBY DIGITAL (AC-3) format signal is being downmixed to 2 channel stereo.
- SOURCE DIRECT key
- **O** DOLBY 3 STEREO key + 31 Use to turn on the DOLBY 3 STEREO
- mode. **O** DOLBY DIGITAL key - 31 Use to turn on the DOLBY DIGITAL (AC-3) mode

O PRO LOGIC key 31 Use to turn on the DOLBY PRO LOGIC mode.

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- STEREO key Use to cancel the surround mode.
- **Ø INPUT SELECTOR knob** + 18 Use to select the input sources.
- **Ø VOLUME CONTROL knob** 18 **O** PHONES jack 20
- Use for headphone listening. SPEAKERS A/B keys 18
- Use to turn the speakers ON/OFF. O DIRECT key - 24
- Use to tune radio stations directly by numerical input. MEMORY key
- + 26 + 27 Use to store radio stations in the preset memory.
- AUTO key - 23 Use to select the auto tuning mode. BAND key 23
- Use to select the broadcast band.
- @ TUNING keys - 23 Use to tune in radio broadcasts BASS key - 19 Use when adjusting the bass tone. TREBLE key - 19 Use when adjusting the treble tone. LEVEL CONTROL keys - 19 Use to adjust the level of the selected tone Ø DIMMER key Use to adjust the brightness of the display. MUTE key - 19 Use to mute the sound. LOUDNESS key - 19 Use to activate the frequency weighting network. DSP key - 32 Use to turn on, or switch, the DSP mode. AV AUX jacks - 10

About the STANDBY indicator

This unit has a STANDBY indicator. When the STANDBY indicator is lit, the unit consumes a small amount of power to preserve the memory. This is called STANDBY mode. This mode also lets you turn the power ON using the remote control.

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1080VR (En/K)

Names and functions of parts





O POWER key

Use to turn the receiver on and off. Use in combination with the input selector (AUDIO, VIDEO, or TV) keys and SHIFT key to turn various components on and off.

38

- ⑦ MACRO key → 40 Use in combination with the AUDIO, VIDEO, or TV keys to execute a series of commands automatically (MACRO PLAY).
- O VIDEO selector key → 36 Selects the video inputs (VIDEO 1, VIDEO 2, VIDEO 3, AV AUX) and sets the remote to operate the component registered at the respective input
- Multi control keys <u>55</u> Use to operate the selected component and to operate the on-screen display.
 REC key - <u>55</u>
- Use to operate the selected component TUNING/SKIP key - 16 - 55
- Use during the setup procedure to specify various settings. Use to operate the tuner or selected component.
- SUBWOOFER key 35 Use in combination with the VOLUME +/keys to adjust the volume of the subwoofer.

Ø FUNCTION SHIFT key

Use in combination with the numeric keys to execute alternate commands.

- 55

Numeric keys - 55
 Provide functions identical to those of the original remote supplied with the component you are controlling.

To access the functions printed above the keys, Press within 3 seconds of pressing the FUNCTION SHIFT key. Function availability varies for each component.

- SHIFT key 39 Use in combination with the AUDIO and VIDEO keys to change the remote control mode without changing the input selector or in combination with the POWER key to turn on and off components programmed into the remote.
- **V selector key** 30 Sets the remote to operate a TV or cable box (TV 1, TV 2, CABLE). This key does not change the input selector on the receiver.

AUDIO selector key → 36 Selects the audio inputs (CD, TAPE/MD.

TUNER, PHONO) and sets the remote to operate the respective KENWOOD audio component.

If you connect audio components from KENWOOD and other makers to the TAPE/ MD or CD jacks, you can set the remote to operate these components by registering the appropriate setup code at the respective input.

- 55

GUIDE key GUIDE k

Use to activate the OSD menu functions of registered components.

- **VOLUME key** 18 Use to adjust the receiver volume.
- **WUTE key** 19 Use to temporarily mute the sound.
- SOUND key 33 Use to activate the Sound OSD and set the
- remote to OSD control mode.
- Use to select the desired surround mode.
- Use to activate the Setup OSD and set the remote to OSD control mode.

1080VR (En/K)

Connecting the antennas

Make connections as shown below.

Do not connect the power cord to a wall outlet until all connections are completed.



AM loop antenna

The supplied loop antenna is for use indoors. Place it as far as possible from the receiver, TV set, speaker cords and power cord, and adjust the direction for best reception.



FM indoor antenna

The supplied indoor antenna is for temporary use only. For stable signal reception we recommend using an outdoor antenna. Disconnect the indoor antenna when you connect one outdoors.

FM outdoor antenna

Lead the 75Ω coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75 Ω terminal.

FM DE-EMPHASIS / CHANNEL SPACE (Except for U.S.A. and Canada)

The FM DE-EMPHASIS / CHANNEL SPACE switch on the rear panel is set to the correct setting that prevails in the area to which the unit is shipped. However, if the FM DE-EMPHASIS / CHAN-NEL SPACE setting is not matched to the area where the unit is to be used; for instance, when you move from area 1 to area 2 or vice versa, desired reception of AM / FM broadcasts is not expected. In this case, change the FM DE-EMPHASIS / CHAN-NEL SPACE setting in accordance with the area corresponding to the table. The FM DE-EMPHASIS is switched over at the same time.

• When changing the setting of the FM DE-EMPHASIS / CHANNEL SPACE switch, first disconnect the power cord, then reset the channel space switch, connect the power cord again, and turn the power on.



Area		CHANNEL SPACE freq.	FM DE-EMPHASIS	
1	U.S.A., Canada and South American countries	FM: 100 kHz AM: 10 kHz	75 µs	
2	Other countries	FM: 50 kHz AM: 9 kHz	50 µs	

1080VR (En/K)

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Connecting audio components

Make connections as shown below.

When connecting the related system components, be sure to also refer to the instruction manuals supplied with the components you are connecting.

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Do not connect the power cord to a wall outlet until all connections are completed.

Microcomputer malfunction

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



- . Connect all cords firmly. Loose connections may prevent proper sound transmission or produce noise.
- 2. Be sure to remove the power cord from the AC outlet before plugging or unplugging any connection cords. Plugging / unplugging connection cords without disconnecting the power cord can cause malfunctions and may damage the unit.

3. Do not connect power cords from components whose power consumption is larger than what is indicated on the AC outlet at the rear of this unit.

1080VR (En/K)

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Setting up the system

Connecting video components

Make connections as shown below.

10

When connecting the related system components, be sure to also refer to the instruction manuals supplied with the components you are connecting.

Do not connect the power cord to a wall outlet until all connections are completed.



Digital connections

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Make connections as shown below.

The digital in jacks can accept either Dolby Digital (AC-3) or PCM signals (the input signal type is detected automatically). When connecting the related system components, be sure to also refer to the instruction manuals supplied with the components you are connecting.

Do not connect the power cord to a wall outlet until all connections are completed.



Connect the video signal and analog audio signals to the VIDEO 3 jacks. (See "Connecting video components".)

AC-3 RF Demodulator DEM-999D (Optional)



O POWER indicator

- Lights fred when the power switch (9) is set to ON
- **O** LOCK indicator
- Lights when an AC-3 RF signal is input to the AC-3 RF INPUT jack (2). • AC-3 DIGITAL OUTPUT (coaxial)

Connect this jack to the coaxial AC-3 DIGITAL IN jack on your receiver. It outputs AC-3 coaxial digital signals when the POWER (④) is set to ON and an AC-3 RF signal is input to the AC-3 RF INPUT jack (④).



O AC-3 RF INPUT

Connect this jack to the AC-3 RF OUTPUT jack on your LD player.

- POWER switch
 - Use to switch the power ON/OFF.

O DC IN (12V) jack

Connect this jack and inlet power cord to the AC adaptor supplied with your demodulator. Connect the power cord to a wall outlet after completing all of the other connections.

Place the power supply away from the demodulator, receiver, and any antennas.





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12 Connecting the system control

Connecting system control cords after connecting a KENWOOD audio component system lets you take advantage of convenient system control operations.

There are two KENWOOD system control modes. Make connections according to the groups of terminal symbols shown below.

XSB Mode : lets you combine XS, XSB, and XE terminals SLIB Mode : for SLIB terminals only

This unit is compatible with both [XS8] and [SL16] modes. It comes from the factory set to the [SL16] mode. To switch to the [XS8] mode, follow the instructions in "SWITCHING FROM [SL16] TO [XS8]" below.

EXAMPLE: [XS8] mode connections

The underlined portion represents the setting of the system control mode

EXAMPLE: [SL16] mode connections

The underlined portion represents the setting of the system control mode



- In order to take advantage of the system control operations, the components must be connected to the correct jacks. To use a CD player it must be connected to the CD jacks. To use a cassette deck (or MD recorder) it must be connected to the TAPE/MD jacks. When using more than one CD player (etc.) only the one connected to the specified jacks may be connected for system control.
- Some CD players and cassette decks are not compatible with the [SL16] system control mode. Be sure to use the [XS8] system control mode when making system connections with equipment that is not [SL16] compatible.
- Some MD players are not system control compatible. You cannot make system control connections to this kind of equipment.



1. [SL16] equipment cannot be combined with [XR], [XS], and [XS8] equipment for system operations. If your equipment consists of this kind of combination, please do not connect any system control cords. Even without system control cords, normal operations can be carried out without effecting performance.

2 Do not connect system control cords to any components other than those specified by KENWOOD. It may



cause a malfunction and damage your equipment. 3 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 supplied with the receiver

Automatic Operation (except [XR] equipment)

When you start playback from a source component, the input selector on this unit switches to that component automatically

Synchronized Recording (except [XR] equipment)

Lets you synchronize recording with the start of playback when record rid from CDI MD or analog discs.

SWITCHING FROM [SL16] TO [XS8]

You can easily change the system control mode by adjusting the position of the SYSTEM CONTROL switch on the rear panel. Do this operation after completing all connections.



 This operation will not effect items stored in the memory. After switching the system control mode, turn the power off and then on once to confirm the new setting.

Registering setup codes for KENWOOD audio components

 Once you finish making the system connections, be sure to register the appropriate setup code for each component. - 36 • If you own remote controllable KENWOOD audio components that are not compatible with system control (or cannot be combined with your other system control components), registering the setup code enables you to control those components using the remote control supplied with this unit i without connecting system control cords). To register setup codes for your remote controllable KENWOOD audio components, see "Registering setup codes for other components" - 36





PRE OUT connections

1

This receiver has additional preout jacks. These can be used for various purposes, but will need to be connected to an external power amplifier as shown in the example below. Connecting a speaker cord directly to a PRE OUT jack will not produce any sound from the speaker.

Be sure to set one of the SPEAKERS keys (either A or B) to the ON position when using the PRE OUT jacks.



Preparing the remote control



1. The supplied batteries may have shorter lives than ordinary batteries due to use during operation checks.

 Replace all four batteries with new ones when you notice a shortening of the distance from which the remote control will operate or if the remote control blinks 5 times when you push a key. The remote control is designed to retain set up codes in memory while you change batteries.

3. 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.

Operating distance

This remote control has two IR emitters: one to send commands in a straight line over long distances, allowing you to control the receiver and your other components from farther away; and one for wide dispersion of commands in a closer proximity, for nearfield operation even when the remote control is not pointed directly at the respective component.



Preparing for surround sound

This receiver incorporates an on screen display (OSD) feature to simplify the surround setup procedure by providing large easy to read graphic information.

The section below shows you how to operate the on-screen display. Read this first before going on to the surround setup procedures on the following pages.

Preparations

• Set the POWER key to ON. Turn on your monitor TV.



Keys or controls used in this operation.

Using the on-screen display

On-screen operations consist of moving the arrow icon to select items from the screen.



Press the SOUND or SETUP key.



2 Move the pointer.



3 Press the item you desire.



To quit the OSD mode:

O Press the SOUND or SETUP key again.

O Press either the VIDEO, AUDIO, or TV key to cancel the OSD remote control mode.

• The remote control automatically switches to OSD remote control mode when an on-screen display appears in your monitor TV.

EXAMPLE: moving the pointer to an icon at right.



Press the > key.

. If no icons are located in the direction you pressed, the pointer may move in a different direction to locate the nearest object.

• To confirm an item, press the BAND (>/11) key located in the center of the remote control after moving the pointer to the item you want to select.

The DSP screen appears.



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16 Surround set up

To obtain the most possible enjoyment from the receiver's various surround modes, be sure to complete the surround set up as shown below.

1 Speaker placement.



2 Go to the SP.SLCT (speaker select) page of the SET UP screen.



Select the speakers and enter the speaker distance.



• Specify the type of speakers you connected to the receiver.

- Move the pointer downward (icon turns blue).
- 2 Use the **TUNING/SKIP** keys to specify the setting you desire. 3
 - Press the **BAND** (\triangleright /II) key to confirm the setting (icon turns yellow).
- 4 Repeat steps 2 and 3 to specify a setting for each speaker type.
- Be sure to specify settings for each speaker type before continuing to the next screen.

SW : Subwoofer

ON: Select when using a subwoofer.

OFF: Select when not using a subwoofer.

L R : Front speakers (left and right)

SML (small): Select when using a relatively small front speakers. LRG (large): Select when using a relatively large front speakers.

C : Center speaker

SML (small): Select when using a relatively small center speaker.

- LRG (large): Select when using a relatively large center speaker.
- OFF: Select when not using a center speaker.

S : Surround speakers (left and right)

SML (small): Select when using a relatively small surround speaker. LRG (large): Select when using a relatively large surround speaker.

OFF: Select when not using surround speakers.

O Continue to the SP.LVL (speaker level) screen.

Preparing for surround sound

1080VR [En/K]



Adjust the volume levels of each speaker.

Listen to the test tone and adjust the volume level of each speaker so that they all produce the test tone at the same volume level.



• Select the test tone type.

AUTO : The test tone switches between each speaker in regular intervals. MANUAL : The test tone only comes from the selected speaker (displayed in blue). OFF : Stops the test tone.

Adjust the Volume level of each speaker.

- ${\mathbb I}$ Listen to the test tone and select the speaker you want to adjust.
- The selected speaker icon turns blue and the speaker name and level appear (at the bottom of the screen) to show that it can be adjusted.
- 2 Listen to the test tone and adjust the volume level of the speaker (±10 dB) using the TUNING/SKIP keys on the remote control.
 - TUNING/SKIP : Lowers the volume TUNING/SKIP + : Raises the volume
- Adjust the subwoofer as you desire.

Ocontinue to the SP.DIST (speaker distance) screen.



5 Enter the speaker distance.

Enter the distance from your listening position to the front (left or right), center, and rear (left or right) speakers. If both front (or rear) speakers are not the same distance from the listening position, enter the distance to the closest speaker.



Adjust the audio input level of the connected components.

The LEVEL INDICATOR lights during playback if the signal being input from an analog source is too large. If this occurs, use this screen to attenuate the input level for that source.



This completes the surround setup.



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Using RDS (Radio Data System)

RDS 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 RDS reception can extract the information from the broadcast signal for use with various functions, such as automatic display of the station name.

RDS functions:

PTY (Program Type Identification) Search:	28
Automatically tunes to a station that is currently broadcasting	
specified program type (genre).	

TP (Traffic Program) search - <u>30</u> Automatically tunes to a station broadcasting traffic information.

PS (Program Service Name) Display: See figure ① **below.** Automatically displays the station name transmitted by the RDS station.

RDS Auto Memory function

Automatically selects and stores up to 40 RDS stations in the preset memory.

Radio text function: See figure 3 below.

Displays the radio text data transmitted by some RDS stations when you press the **DISPLAY** key. There is no display if no text data was transmitted.

Radio text can also be displayed on the on screen display using the OSD functions.

The "RDS" indicator lights up when an RDS broadcast (signal) is received.





Some functions and function names may differ for certain countries and areas.

Before using a function utilizing the RDS, be sure to perform the RDS Auto Memory operation by referring to the description in "Presetting RDS stations (RDS AUTO MEMORY)".

- 26

Using the DISPLAY key



PS (Program Service name) display:

The station name is displayed automatically when an RDS broadcast is received.

If no PS data was sent, "NO PS" is displayed.

2 Frequency display:

Displays the frequency of the current station

3 RT (Radio Text) display:

Text data accompanying the RDS broadcast scrolls across the display "NO RT" is displayed if the current RDS station does not provide RT data.

Radio text can also be displayed on the on screen display using the OSD functions.

Each press switches the display mode as follows:

- 🛨 🛈 PS (Program Service name) display
- 2 Frequency display
- 3 RT (Radio Text) display

102.50

ABCDEFCHI

Before listening to an RDS broadcast, follow the instructions below to store the RDS stations in the preset memory. Up to 40 stations can be preset, and then receivied with the touch of a single button.

6

This receiver uses the Radio Data System (RDS) to provide convenient tuning functions like PTY and TP search.



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N/I 💭

11

Blinks

"FM" is displayed

Presetting RDS stations (RDS AUTO MEMORY)

This function automatically stores up to 40 RDS stations in the preset memory. In order to use the TP and PTY functions, the RDS stations must be stored in the preset memory using the RDS AUTO MEMORY function.



Receiving preset RDS stations



Press the numeric keys in the following order:

- For "15", press +10, 5 For "20", press [+10], [+10], [0]
- If you make a mistake entering a two digit number, press the +10 key several times to return to the original display and start again. • To change the information in the display, press the DISPLAY key.



The RDS auto memory function assigns preset numbers to RDS stations starting from preset number "1". Therefore, be sure to execute the RDS auto memory function before using the following operations to manually store AM stations and other FM stations, and RDS stations.

"Presetting RDS stations (RDS AUTO MEMORY)". - 26

Preparation . • Select tuner.



Presetting radio stations manually

	Tune to the station you want to store.
	Press the MEMORY key while re- ceiving the station.
The second se	Proceed to step 9 within 5 seconds. (If more than 5 seconds elapse, press MEMORY again).
	Enter a preset number (1~40). 4 5 6 7 8 9

Receiving preset stations

O Select tuner.	
Enter the number of the preset you want to receive (up to "40").	

In addition to the RDS auto memory function, RDS stations can also be stored manually in the preset memory.

 When storing radio stations manually, it may take a few minutes before the "MEMORY" indicator appears in the display after pressing the MEMORY key depending on receiving conditions.

Blinks for 5 seconds



Press the numeric keys in the following order:

For "15", press	
For "20", press	+10, +10, 0

- Repeat steps (), () and () to store as many stations as necessary.
- If you store a station at a previously used preset, the old station will be replaced by the new one.
- When RDS stations are stored manually in the preset memory, the PS information may not be included in the memory depending on receiving conditions.

Press the numeric keys in the following order:

For	"15", press	+10,5
For	"20", press	+10, +10, 0

 If you make a mistake entering a two digit number, press the +10 key several times to return to the original display and start again.

Preset number stored in memory

89.00~ 10

Receiving preset stations in order (P.CALL)



Each time you press the key, another preset station is received in order.

When you press

1→2→3→ .38→39→40→1→2→3-

When you press

1←2←3← . . .38←39←40←1←2←3← . .

Holding down the button, lets you skip through the presets, receiving each for 0.5 seconds apiece.

1080VR (En/K)

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.

Under certain receiving conditions, it may take more than 1 minute to complete the search.

Preparations • Execute the RDS auto memory procedure. • Set the broadcast band to FM. • Tune to an RDS station.



Listening to radio broadcasts

Tuning by program type (PTY search)





Select the program type you desire.



When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available, or if the station is not an RDS station, "NONE" is displayed.

2



"NO DATA" is displayed if this operation is attempted before performing the RDS Auto Memory operation.

Program type table

(B)	Program Type Name	Display
4		NEWS
		INFORM
9		SPORTS
0	Talk	TALK
7	Rock	ROCK
	Classic Rock	CLS ROCK
	Adult Hits	ADLT HIT
8	Soft Rock	SOFT RCK
	Тор 40	TOP 40
2	Country	COUNTRY
	Oldies	OLDIES
	Soft	SOFT
	Nostalgia	NOSTALGA
3	Jazz	JAZZ
	Classical	CLASSICL
	R&B	R&B
	Soft R&B	SOFT R & B
	Language	LANGUAGE
6	Religious Music	REL MUSIC
	Religious Talk	REL TALK
		PERSNLTY
5	Public	PUBLIC
	4 9 0 7 7 8 8 2 3 1 1 6	4 News Information 9 Sports 0 Talk 7 Rock Classic Rock Adult Hits 8 Soft Rock Top 40 2 Country Oldies Soft Nostalgia 3 Jazz 1 Classical R&B Soft R&B Language 6 Religious Music Religious Talk Personality

• The operations shown in (a) can also be performed with the P.CALL keys on the remote control.





1080VR (En/K)

3 Start the search.



To select another program type

Repeat steps 1, 2 and 3

EXAMPLE: Searching for a Rock Music broadcast.



• No sound is heard while "PTY" is blinking.

- If the desired program type cannot be found, "NO PROG" is displayed, then after several seconds the display returns to the original display.
- If the desired program type is found, that program is received. The program type display changes temporarily to the frequency display, and then to the station name display.

1080VR (En/K)

When the receiver is tuned to an RDS station (a station at A which the RDS indicator lights up), this function lets you set the receiver to search for stations broadcasting traffic programs.

Ò õ õ ğ 8



Preparation • Set the broadcast band to FM.

Searching for traffic information (TP search)

26



2

1 Complete steps 1 ~3 of "Presetting RDS stations (RDS AUTO MEMORY)".

Tune to a preset RDS station.





Press the TP key to start the search.



TP (Traffic Program) indication

When the "TP" indicator is lit, this means that the presently-received station or a station is transmitting traffic information. When "TP" is displayed for the station being received, the traffic information of this station can be received without using the TP search function.



Skip this step if you have already completed the **RDS AUTO MEMORY procedure.**

 The TP function will not work if all 40 FM preset stations were stored. manually using the procedure shown in "Presetting radio stations manually". Be sure to use the RDS automatic memory function.

Press the numeric keys in the following order:



 If you make a mistake entering a two digit number, press the +10 key several times to return to the original display and start again.



"TP SEARCH" and "ON" flash alternately in the display while the receiver searches for TP (Traffic Program) information.

To cancel

Press again so that "TP SEARCH" and "OFF" flash alternately in the display.

Ambience effects

1080VR (En/K)

This receiver incorporates 4 different sound modes to let you enjoy surround sound with a wide variety of program sources. The Dolby Digital (AC-3) and Dolby Pro Logic surround sound let you enjoy theater-like surround effects when you play Dolby Digital (AC-3) and Dolby Pro Logic program sources (like Laserdiscs and DVDs). Dolby 3 Stereo creates a panoramic frontal sound field while keeping dialog on screen. The Digital Signal Processing (DSP) modes let you create a variety of different sonic environments from almost any type of program source.

To obtain the best possible surround sound, be sure to complete "Surround set up" before using the surround modes. - 16

Sound modes

Dolby Digital (AC-3)

The Dolby Digital (AC-3) surround format lets you enjoy up to 5.1 channels of digital surround sound from Dolby digital (AC-3) program sources (such as Laserdisc software marked \square (Douby Substance)). Compared with previous Dolby surround, Dolby Digital (AC-3) provides even better sound quality, greater spatial accuracy, and improved dynamic range. Some Dolby Digital (AC-3) programs carry information that lets you compress the dynamic range of the sound track, without degrading the sound quality, for softer sound effects when you listen late at night ("Midnight mode").

Note

Although a full set of speakers (front left, right, and center, rear left and right, and a subwoofer) is required for true 5.1 channel Dolby Digital (AC-3) surround sound, this receiver lets you enjoy Dolby Digital (AC-3) (and Dolby Pro Logic) program sources, even if you connect only the front speakers. ("Surround set up") $-\hat{\underline{c}}$

Dolby Pro Logic

Dolby Pro Logic is a specially encoded 2 channel surround format designed to provide theater-like surround sound from Dolby Pro Logic program sources (such as video and Laserdisc software marked Course surround). This receiver is equipped with a Dolby Pro Logic surround decoder to let you enjoy the wide variety of currently available Dolby Pro Logic home video software.



* LFE = Low Frequency Effects. This channel delivers separate nondirectional bass signals to the subwoofer for more dynamic deep bass sound effects.

Although only Dolby Digital (AC-3) soundtracks incorporate a separate low frequency channel, connecting a subwoofer will also improve deep bass performance in the other surround modes.



Dolby 3 Stereo

Dolby 3 Stereo creates a panoramic frontal sound field while maintaining the dialog in an on-screen position. This mode is designed for use with Dolby program sources, but can also improve sound field unity for non-Dolby program sources. Dialog positioning and sound image definition, however, may not be as accurate when used with non-Dolby program sources.





The DSP mode lets you add the atmosphere of an arena, jazz club, or stadium to almost any type of program source.* These modes are particularly effective when used with stereo program sources, like CD, television, and FM radio. You might enjoy trying the STADIUM or ARENA mode the next time you watch a concert or sporting event!

The WALL parameter lets you adjust the "brightness" of the sonic environment according to your preference. -34The ROOM SIZE parameter lets you adjust the size of the sonic environment according to your preference. -34The EFFECT level lets you adjust the "presence" of the sonic environment according to your preference. -34

* The DSP mode will produce a stereo-like surround effect from monaural sources, but there will be some reduction in the presence of the arena, jazz club, or stadium (etc.).

Center speaker Center speaker Subwoofer* Front Speaker Surround speakers * Optional in this mode.

What's DSP?

DSP stands for Digital Signal Processor.

The way a sound is heard in an actual environment depends on a variety of different factors. One of the most important is reverberation (the act of decaying elements of sound echoing in various places).

The DSP modes produce the feeling of presence by using the DSP to create reverberation, without spoiling the sound quality of the original signal. Manufactured under licence from Dolby Laboratories Licensing Corporation. "Dolby", "AC-3", "Pro Logic" and the double - D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Operations



Normal playback

1080VR (En/K)



ί**Ω** č KENWOOD 5 6 0000 000 25. Keys or controls used in this operation

Listening to a source component



Preparations • Turn on the power to the related compo-

nents

Operations







- 35 • When using the remote control after initial setup, any inputs that have not been registered with a setup code are deleted from the cyclic list - 38

- 36

The INPUT SELECTOR on the front panel of the receiver always cycles



1080VR (En:/K)

000

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Adjusting the sound

Adjusting the tone





• The bass and treble levels are adjustable from -10 to +10 in 2 step increments

Frequency weighting (LOUDNESS)

LOUDNESS lets you emphasize the sound of frequencies that are a fficult to hear. The frequency emphasis varies according to the volume at which you are listening.







Muting the sound

MUTE lets you mute the sound of the speakers.





To cancel Press again.







SOURCE DIRECT playback

Use this function to pass the source material direct to the amplifier, bypassing any audio processing.



Listening with headphones





Make sure the SPEAKERS indicators are turned off.

• Turning off both **SPEAKERS A** and **B** when using a surround mode will cancel the respective mode and activate stereo playback.

Normal playback



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Listening with a graphic equalizer





Appears for a few seconds after the adaptor input is turned on.

- When the receiver is set to this mode, the audio signals are looped through the graphic equalizer connected to the ADAPTOR OUT and IN jacks on the rear panel.
- When the adaptor is on, the overall volume is slightly decreased.
 To undo this setting, repeat this procedure to display "ADPT OFF".

Recording





Recording audio

Recording a music source



Recording video

 To record a digital source, connected to the VIDEO 2 or 3 jacks, turn the INPUT SELECTOR to select the appropriate component, then press the STEREO key.

When making a digital recording, operations other than volume adjustment may cause the sound to clip during recording.

 To record a digital source, connected to the VIDEO 2 or 3 jacks, turn the INPUT SELECTOR to select the appropriate copmponent, then press the STEREO key.

When making a digital recording, operations other than volume adjustment may cause the sound to clip during recording.

- The AV AUX jacks on the front panel provide a convenient way to connect a video camera (playback only).
- When recording a Dolby Digital (AC-3) source, press the **STEREO** key to light the **"2 CH DOWNMIX"** indicator.



Radio stations can be classified into RDS (Radio Data System) stations and other stations. To listen to or store RDS stations in the preset memory, see the section entitled, "Using RDS". - 25



Tuning (non-RDS) radio stations

1 Set the input to tuner.



2 Select a broadcast band.



3 Select a tuning method.



4 Select a station.





Frequency display

Each press switches the band as follows:

- ① FM - 🗵 AM



Each press switches the tuning method as follows:

- ① AUTO lit (auto tuning)
- 2 AUTO not lit (manual tuning)



- Normally, set to "AUTO" (auto tuning).
- If the radio waves are weak and there is a lot of interference, switch to manual tuning. (With manual tuning, stereo broadcasts will be received in monaural.)



Auto tunina : The next station is tuned automatically. Manual tuning

Press repeatedly or hold to tune the station.





Tuning radio stations by frequency (DIRECT tuning)



Set the input to tuner.





2 Select a broadcast band.



3 Enter the frequency.



Each press switches the band as follows:



Press the numeric keys in the following order:

* AM 10 kHz/FM 100kHz tuning space (U.S.A., Canada, etc.)

AM	810 kHz, press	. 8,1
AM	1260 kHz, press	. 1,2,6
FM	90 MHz, press	. 9,0,0
FM '	102.5 MHz, press	. 1,0,2,5

* AM 9 kHz/FM 50 kHz tuning space (other countries)

AM	810 kHz, press	8,1,0
AM	1260 kHz, press	1,2,6,0
FM	90 MHz, press	9,0,0,0
FM [·]	102.5 MHz, press	1,0,2,5,0

* FM DE-EMPHASIS/CHANNEL SPACE switch



"TUNED" is displayed when a station is received

+ 8

• If you make a mistake entering the frequency; the frequency display will blink for a few seconds. In this case, start again from step 2.

Ambience effects

1080VR (En/K)

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DOLBY AC-3 can be used when playing DVD or LD software bearing the mat digital broadcasts (etc.). DOLBY PRO LOGIC and DOLBY 3 STEREO can be used when playing video, DVD, or LD software bearing the **Description** mark. DSP modes can be used with any source. Be sure to complete "Surround set up" before using any of these surround modes.

Preparations

- Turn ON related components.
- Complete "Surround set up". 16
 Set the INPUT SELECTOR to the component you wish to play back
- with surround sound.

Surround Play





AC-3 PRO LOGIC 3 STERED DSP STERED

S.DIR

SET

Select a surround mode.

Select the icon for the mode you desire. The selected icon turns blue. The surround mode settings are stored separately for each input. Surround modes can also be selected by using the **LISTEN MODE** key on the remote control.



DOLBY DIGITAL (AC-3)

When a Dolby Digital (AC-3) format signal is input, press to select the Dolby Digital (AC-3) mode. To select this icon, the input selector must be set to VIDEO 2 or 3. No sound will be heard if selected when normal stereo sources are input.

DOLBY (PRO LOGIC)

Selects the DOLBY PRO LOGIC mode. To select this icon, the surround speakers must be selected.

DOLBY (3 STEREO)

Selects the DOLBY 3 STEREO mode. To select this icon, the center speaker must be selected.

DSP

Turns on the current DSP mode and switches to the DSP screen where you can adjust various aspects of each DSP mode.

STEREO

Cancels surround playback.

If selected when a Dolby Digital AC-3 signal is input, the 2 CH DOWNMIX indicator on the front panel lights up and the signals are downmixed to 2 channel stereo.

Source Direct (S.DIR)

Lets you pass the source material direct to the amplifier, bypassing any audio processing.

Press the SOUND key on the remote to turn off the on-screen display, then press either VIDEO, AUDIO, or TV key on the remote to cancel the OSD remote control mode.

Start playing the video software.

Adjust the volume.

Note

To enjoy Dolby Digital (AC-3) surround (as well as all the other surround modes) from a single component, be sure to use a Dolby Digital (AC-3) compatible source component. Connect the Dolby Digital (AC-3) compatible source component's AC-3 format digital audio signal to one of the DIGITAL INPUT jacks on the back of the receiver. Connect the normal audio signal correctly to the respective component's AUDIO jacks.

- 10 - 11

Getting the most from your remote control

1080VR (En/K)











5 Terminate the macro program mode.



- You can store up to 3 different macros, one at each key:
 VIDEO → "MACRO 1", AUDIO → "MACRO 2", TV → "MACRO 3"
 The backlight flashes once when you select the macro location.
- Pressing a button other than VIDEO, AUDIO, or TV cancels the macro.
- program mode.

When VIDEO is pressed



- This example shows you how to create a macro that: turns on the TV, sets the TV to the appropriate input, selects the receiver's input selector to LD, and turns on the LD player. All you have to do is insert the laser disc!
- In order to allow verification of the remote control mode, the name of the selected input appears in the receiver's display when the VIDEO, AUDIO or TV key is pressed. When the VIDEO or AUDIO key is pressed the receiver's input also changes.

• The macro is stored at the locations specified in step 2. If another macro was previously stored at the same location, it is erased.

Repeat steps 2 through 5 to program up to 3 macros.

Getting the most from your remote control

1080VR (En/K)





Keys or controls used in this operation.

Executing an automatic operation



1 Press the MACRO key.





2 Execute the macro play.



- Go to step 2 within 3 seconds.
- "MACRO" appears in the front panel and on-screen display and the pre programmed macro is performed:
- VIDEO → "MACRO 1", AUDIO → "MACRO 2", TV → "MACRO 3"
- The remote control flashes once for each command output.
- The remote control will output OSD information to tell you the status of the macro.
- Some devices take up to 1 second to power on. The macro function has an automatic delay after any power function output.
- Pressing a button other than AUDIO, VIDEO, or TV cancels the macro program mode.

When VIDEO is pressed

	.
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Getting the most from your remote control



Keys or controls used in this operation.

and the second second

1080VR (En/K)

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Setup code correlation

Deleting a setup code

O Hold down the ENT key until the backlight flashes twice.

- Select the component to be deleted. Press the VIDEO, AUDIO, or TV key repeatedly to select the desired component.
- Senter the 3 digit code "991".

O Hold down the ENT key until the backlight flashes twice.

- At this time all inputs become available regardless of any earlier registration.
- Example 1: To delete the registration of the component connected to the VIDEO 1 jacks, select "VIDEO 1".



Checking a setup code

- O Hold down the ENT key until the backlight flashes twice.
- **O** Select the component with setup code you want to check. Press the VIDEO, AUDIO, or TV key repeatedly to select the desired component.
- Senter the 3 digit code "990".
- Press the 1 key and count the number of times the backlight blinks. This is the first number of the 4 digit setup code.
- Press the 2 key and count the number of times the backlight blinks. This is the second number of the 4 digit setup code.
- **O** Press the 3 key and count the number of times the backlight blinks. This is the third number of the 4 digit setup code.
- Press the 4 key and count the number of times the backlight blinks. This is the fourth number of the 4 digit setup code.

- The backlight flashes twice immediately after the "0" is input to confirm input.
- If the backlight does not blink, the first digit in the setup code is 0.
- If the backlight does not blink, the second digit in the setup code is 0.
- If the backlight does not blink, the third digit in the setup code is 0.
- If the backlight does not blink, the fourth digit in the setup code is 0.



Perform each step within 5 seconds.


Gatting the most from your remote control

1080VR (En/K)

FutureSet allows you to update the remote control so it can operate new components which do not appear in the setup code list at the end of the manual.

This function allows you to register new setup codes for any or all of the following command positions:

VIDEO1, VIDEO2, VIDEO3, TV1, TV2, CABLE, CD, TAPE/MD. FutureSet codes are stored in memory. Each time a FutureSet upgrade is performed, any previous information in the FutureSet memory location is erased. Please inform your customer service representative if FutureSet has been previously used.



Keys or controls used in this operation

FutureSet upgrade option

Write down the brand name and model number of your component in the space provided before you call.

Call our Free-Phone Consumer Help-Line and explain which components you would like to add to your remote control.

USA: 1-800-753-9860 Canada: 1-800-644-0673

* This number is designed specifically for FutureSet upgrades, questions about system operation should be first addressed to your place of purchase.

Hold down the ENT key until the backlight flashes twice.



Remote Control

ENT

4 Enter the 3 digit code "997".



	Туре	Brand	Model No.	Remote Model No.
	τv	KENWOOD	KV?-????	RC-????
1				
2				
3		1 1		

- After our customer service representative records the brand name and model number of your component, he/she will ask you to hold the remote to the speaker portion of your telephone as shown below. Your remote control is KENWOOD model number: RC-R0805
- The hours for cutomer service in USA and Canada currently are: Monday-Thursday 9:00 am - 7:00 pm EST Friday 9:00 am - 5:30 pm EST
 - 9:00 am 5:30 pm EST 12:00 pm - 4:00 pm EST

Complete steps 3 and 4 before holding the remote to the speaker portion of your telephone.

• At this time all inputs become available regardless of any earlier registration.



• The backlight flashes twice.

Saturday

• The remote is now in the upgrade mode. The remote will wait for 30 seconds for a valid telephone download signal. If nothing is received within this time, it will revert to normal operation.



continued on next page



5 Hold your remote to the speaker portion of your telephone.



1080VR (En/K)



 For each setup code the operator can supply a setup code number. Should you ever need to change your input configuration, this number can be used. Please record for your future reference. If for some reason this information is lost, see "Checking a setup code" in the "Setup code correlation" section for further information.

Code selection after mode download

After successful completion of the download, step 5 above, the remote control automatically enters a special set-up mode which works as described below.



Select the component for which you want to register the information downloaded above.



2 Press a numeric key.





Repeat steps 1 and 2 to register all of the downloaded information.





- VIDEO key AUDIO key TV key ① VIDEO1 (VCR 1) ① TV1 ① CD (CD) VIDEO2 (VCR 2) TAPE/MD 2 TV2 VIDEO3 (LD) (TAPE) 3 CABLE ③ PHONO
- Example 1 : To register a code at the component connected to the VIDEO 1 jacks, select "VIDEO 1 (VCR)".



- Press the 1 key to output the POWER code of the first component on your list in step 2 of the previous page. Continue to push buttons 2 through 9 (and 0) until the component you want to register turns on.
- Though the FutureSet memory in your remote control is quite large, only 10 setup POWER codes can be put on the 10 keypad at any one time. If you require a larger download, the standard setup procedure can be used. See "Registering setup codes for other components", your customer service representative can supply you with the downloaded setup code numbers.
- The setup code for the last POWER code to be sent in step 2 is automatically registered at the location selected in step 2
- At this time, the remote exits the special set-up mode and returns to its normal operation mode

Secure chan

1080VR (En/K)

Non-IR codes

8900
7900
5900
0900

Satellite	2900	
τν	1900	
VCR	4900	

DVD	6900
DSS	3900
MD	8900

VCR Set up codes

Maker	Set up codes
Action	4317
Adventura	4000
Aiko	4278
Aiwa	4000, 4307, 4406
Akai	4041, 4315
Akiba	4072
Alba	4278, 4295
American High	4035
Amstrad	4000
Anam	4162, 4240 ·
Anam National	4162, 4454
Anitech	4072
ASA	4037, 4081
Asha	4240
Asuka	4037
Audiovox	4037
Baird	4000, 4041, 4104
Basic Line	4072, 4278
Beaumark	4240
Bell & Howell	4104
Blaupunkt	4034, 4162
Brandt Electronic	4041
Broksonic	4121, 4184, 4211,
	4295, 4361
Bush	4072, 4278
Calix	4037
Canon	4035
Carver	4081
CCE	4072, 4278
CGE	4000
Cimline	4072
Citizen	4037, 4278
Colt	4072
Craig	4037, 4047, 4072, 4240
Crown	4072, 4278
Curtis Mathes	4035, 4041, 4060
Cybernex	4240
Daewoo	4045, 4046, 4278
Dansai	4072

Other

Maker	Set up codes
De Graaf	4042
Decca	4000, 4081
Dual	4041
Dumont	4000, 4081, 4104
Dynatech	4000
Elcatech	4072
Electrohome	4037
Electrophonic	4037
Emerex	4032
Emerson	4000, 4002, 4037, 4043, 4121, 4184, 4211, 4278, 4295, 4361
ESC	4240, 4278
Ferguson	4041
Fidelity	4000
Finlandia	4081, 4104
Finlux	4000, 4042, 4081 4104
Firstline	4037, 4043, 4045 4072
Fisher	4046, 4047, 4066 4104
Fuji	4033, 4035
Fujitsu	4000
Funai	4000
Garrard	4000
GE	4035, 4060
GEC	4081
Go Video	4232, 4350
GoldHand	4072
Goldstar	4037, 4038
Goodmans	4000, 4037, 4072 4278
Gradiente	4000
Graetz	4041, 4104, 4240
Granada	4046, 4081, 4104
Grandin	4000, 4037, 4072
Grundig	4034, 4072, 4081
Hanseatic	4037
Harley Davidson	4000

Maker	Set up codes
Harmon/Kardon	4038
Harwood	4072
НСМ	4072
Headquarter	4046
HI-Q	4047
Hinari	4072, 4240
Hitachi	4000, 4041, 4042,
	4240
Hypson	4072
Imperial	4000
Interfunk	4081
ITT	4041, 4046, 4104,
	4240
ITV	4037, 4278
Jensen	4041
JVC	4008, 4041, 4067
Kaisui	4072
KEC	4037, 4278
Kenwood	4038, 4041, 4067
KLH	4072
Kodack	4035, 4037 .
Korpel	4072
Lenco	4278
Leyco	4072
Lloyd	4000
Loewe	4037, 4081
Logik	4072, 4240
Luxor	4043, 4046, 4048,
	4104
LXI	4037
M Electronic	4000
Magnavox	4035, 4039, 4081 4149
Magnin	4240
Manesth	4045, 4072
Marantz	4035, 4081, 4295
Marta	4037
Matsui	4295
Matsushita	4035, 4162, 4454
MEI	4035

Set up code chart

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VCR Set up codes (continued)

Maker	Set up codes
Memorex	4000, 4035, 4037 4039, 4046, 4047 4048, 4104, 4240 4307
Memphis	4072
Metz	4162, 4454
MGA	4043
MGN Technology	4240
Minolta	4042
Mitsubishi	4043, 4067, 4081, 4173
Motorola	4035, 4048
МТС	4000, 4240
Multitech	4000, 4072
Murphy	4000
NAD	4104
NEC	4038, 4041, 4067, 4104
Neckermann	4081
Nesco	4072
Nikko	4037
Nikon	4034
Noblex	4240
Nokia	4041, 4046, 4048, 4104, 4240
Nordmende	4041
Oceanic	4000, 4041
Okano	4315
Olympus	4035
Optimus	4037, 4048, 4104, 4162, 4454
Orion	4121, 4295
Osaki	4000, 4037, 4072
Otto Versand	4081
Palladium	4037, 4041, 4072
Panasonic	4035, 4077, 4162, 4454
Pathe Marconi	4041
Penny	4035, 4037, 4038, 4042, 4240
Pentax	4042
Perdio	4000
Philco	4035, 4038
Philips	4035, 4081
Phonola	4081
Pilot	4037

Maker	Set up codes
Pioneer	4067, 4081
Profitronic	4240
Proline	4000
Protec	4072
Pulsar	4039
Pye	4081
Quarter	4046
Quartz	4046
Quasar	4035, 4077, 4162
	4454
Quelle	4081
Radio Shack	4000, 4037
Radiola	4081
Radix	4037
Randex	4037
RCA	4042, 4060, 4077 4149, 4225
Realistic	4000, 4035, 4037
	4046, 4047, 4048
	4066, 4104, 4240
Rex	4041
Ricoh	4034
Roadstar	4037, 4072, 4240, 4278
Runco	4039
Saba	4041
Salora	4043, 4046
Samsung	4045, 4240
Sanky	4039, 4048
Sansui	4041, 4067
Sanyo	4046, 4047, 4104,
	4240
SBR	4081
Schaub Lorentz	4000, 4041, 4104
Schneider	4000, 4072, 4081
Scott	4043, 4045, 4121,
Sears	4184, 4211
Godia	4035, 4037, 4042, 4046, 4047, 4066,
	4104
SEG	4240
SEI	4081
Selco	4041
Sharp	4048
Shintom	4072, 4104
Shogun	4240
Siemens	4037, 4081, 4104

Maker	Set up codes
Silva	4037
Singer	4045, 4072
Sinudyne	4081
Sontec	4037
Sony	4032, 4033, 4034
,	4035
STS	4042
Sunstar	4000
Suntronic	4000
Sylvania	4000, 4035, 4043 4081
Symphonic	4000
Tandy	4000, 4104
Tashiko	4000
Tatung	4000, 4041, 4081
Теас	4000, 4041
Technics	4035, 4162
Teknika	4000, 4035, 4037
Teleavia	4041
Telefunken	4041
Tenosal	4072
Tensai	4000
Thomson	4041
Thorn	4041, 4104
ТМК	4240
Toshiba	4041, 4043, 4045,
	4060, 4066, 4081
Totevision	4037, 4240
Uher	4240
Unitech	4240
Universum	4000, 4037, 4081,
	4240
Vector	4045
Vector Research	4038
Victor	4008, 4041, 4067
Video Concepts	4045
Videosonic	4240
Wards	4000, 4035, 4042,
	4047, 4048, 4060, 4072, 4149, 4240
XR-1000	4000, 4035, 4072
Yamaha	4038
Yamishi	4072
Yokan	4072
Yoko	4240
Zenith	4033, 4034, 4039



TV Set up codes

18

Maker	Set up codes
Admiral	1093
Adventura	1046
Aiko	1092
Akai	1030
Alleron	1179
Ambassador	1177
Amstrad	1177
Anam	1180
Anam National	1055, 1250
AOC	1019, 1030, 1137
Audiovox	1180
Belcor	1019
Bell & Howell	1016, 1154
Blue Star	1282
BPL	1282
Bradford	1180
Brockwood	1019
Bush	1282
Candle	1030, 1046, 1056,
	1186
Carnivale	1030
Carver	1054
Celebrity	1000
Citizen	1030, 1039, 1046,
	1056, 1060, 1092,
	1186, 1280
Concerto	1056
Contec	1180
Craig	1180
Crown	1039, 1180
Curtis Mathes	1030, 1039, 1060,
	1154 .
CXC	1180
Daewoo	1019, 1039, 1092, 1154, 1451
Daytron	1019
Dumont	1017, 1019
Electroband	1000
Electrohome	1381
Emerson	1019, 1039, 1154,
2.00.000	1177, 1178, 1179,
	1180, 1236, 1280,
	1282, 1463
Envision	1030
Finlux	1179
Fisher	1154, 1159
Fortress	1093
Fujitsu	1179
Funai	1179, 1180
Futuretech	1180

Maker	Set up codes
GE	1021, 1027, 1047,
	1051, 1055, 1135,
	1178, 1282, 1451
General	1186
Gibralter	1017, 1019, 1030
Goldstar	1019, 1030, 1039,
Cardenard	1056, 1178
Goodmans	1179
Grandin	1282
Grunpy	1179, 1180
Hallmark	1178
Harvard	1180
HCM	1282
Hinari	1179
Hisawa	1282
Hitachi	1056, 1145, 1151
Hypson	1282
Infinity	1054
Janeil	1046
JBL	1054
JCB	1000
JVC	1053
Kaisui	1282
KEC	1180
Kenwood	1019, 1030
Kloss	1024, 1046
KTV	1030, 1039, 1180, 1280
Logik	1016
Luxman	1056
LXI	1047, 1054, 1154,
	1047, 1054, 1154, 1156, 1178
Magnavox	1024, 1030, 1054,
	1186, 1187
Majestic	1016
Marantz	1030, 1054
Matsui	1177
Matsushita	1250
Megatron	1145, 1178
Memorex	1016, 1056, 1150, 1154, 1178
MGA	1019, 1030, 1150,
	1178
Midland	1017, 1039, 1047,
	1051, 1135
Minutz	1021
Mitsubishi	1019, 1150, 1178
Motorola	1055, 1093
MTC	1019, 1030, 1056,
	1060
Multitech	1180
NAD	1156, 1166, 1178

Maker	Set up codes
NEC	1019, 1030, 1056
Nesco	1179
Nikko	1030, 1092, 1178
Noshi	1018
NTC	1092
Onwa	1180
Optimus	1154, 1166, 1250
Optonica	1093, 1165
Orion	1177, 1236
Panasonic	1051, 1055, 1250
Penny	1018, 1019, 1021,
, only	1027, 1030, 1039,
	1047, 1051, 1060,
	1135, 1156, 1178
Philco	1019, 1030, 1054
Philips	1054
Pilot	1019, 1030, 1039
Pioneer	1166
Portland	1019, 1039, 1092
Prism	1051
Proscan	1047
Proton	1031, 1178, 1466
Pulsar	1017, 1019
Quasar	1051, 1055, 1165,
	1250
Radio Shack	1019, 1030, 1039,
	1047, 1056, 1154,
RCA	1165, 1178, 1180
IICA	1018, 1019, 1047, 1090, 1135
Realistic	1019, 1030, 1039,
	1056, 1154, 1165,
·	1178, 1180
Runco	1017, 1030
Saisho	1177
Sampo	1030, 1039
Samsung	1019, 1030, 1039,
	1056, 1060, 1178, 1427
Samsux	1039
	1154, 1159
Sanyo	
Scimitsu	1019 1178
Scotch	
Scott	1019, 1178, 1179, 1180, 1236
Sears	1047, 1054, 1056,
	1154, 1156, 1159,
	1178, 1179
SEI	1177
Sharp	1039, 1093, 1165
Shogun	1019
Signature	1016
Simpson	1186, 1187

Orher

Ambience effects

1080VR (En/K)



To adjust the DSP modes

Adjusting the WALL type, ROOM SIZE, and EFFECT LEVEL let you create different types of surround effects.



Convenient functions

Midnight mode (Dolby Digital (AC-3) mode only)

When watching movies at night you might not be able to raise the volume as loud as normal. Midnight mode compresses the dynamic range of previously specified parts of the AC-3 sound track (like scenes with sudden increases in volume) to minimize the difference in volume between the specified and non-specified parts. This makes it easy to hear all of the sound track, even when listening at low volumes.

O Select the midnight mode icon.

Adjust the parameter using the TUNING/SKIP keys on the remote control.



- Some Dolby Digital (AC-3) software may not be compatible with the Midnight mode.
- Midnight mode has no effect on parts of the sound track that are not specified for compression.

Display dimmer adjustent

The **DIMMER** key on the front panel lets you select the brightness of the receiver's display. You might find this useful if you darken your room to watch movies or listen to music.

When the remote control is set to operate a video component, the **FUNCTION SHIFT** and **DISPLAY** key combination can also be used to change the display on the respective video component.



Operations

OSD switch

When recording programs or watching movies you may want to turn of the OSD display mode. When the OSD display mode is ON, each operation of the remote control is displayed on the monitor TV. When OSD display mode is OFF, the receiver will only shows the on-screen display when the SOUND or SETUP keys are pressed.

SOURCE DIRECT switch

Lets you pass the source material direct to the amplifier, bypassing any audio processing. When SOURCE DIRECT is ON, surround sound is turned off and the tone controls are bypassed.

SET UP switch

Lets you access the SET UP screen if necessary. See "Surround setup" for details regarding the SET UP screen. - 16

RADIO TEXT switch

Lets you display radio text messages transmitted from the currently tuned FM RDS station on the screen of your monitor TV (even if the input selector is set to a different input). When RT is set to ON and a radio text broadcast is received, the radio text scrolls across the bottom of the monitor. - 25

LISTEN MODE key

The LISTEN MODE key on the remote control lets you switch the scand mode directly from the remote control





SUBWOOFER adjustment

The SUBWOOFER key on the remote control lets you adjust the output level of the subwoofer while listening to a favorite source. First press the SUBWOOFER key to select the subwoofer operation mode, then use the VOLUME key to adjust the output level.



1080VR (En/K)

Ambience effects



Press to switch.



Press to switch.



Press to access the SET UP screen.

SET IIP

Press to switch.



1080VR (En/K)

one intervers o

Key

Code

- The remote control supplied with this receiver is also capable of controlling components from a variety of manufacturers once you register the appropriate setup codes into the remote control unit.
- Refer to "Remote operation of other components" for details about the operations available for each component. + 55 When registering setup codes for KENWOOD audio components which are connected to this unit by system control cords, use the following codes to insure proper system control operation: Cassette: 7000, CD: 8099, MD: 9000. + 12

To control other KENWOOD components (VCRs, LD players, audio components not connected with system control cords, etc.) follow the procedure described below.

Low battery warning

Replace all four batteries with new ones when you notice a shortening of the distance from which the remote control will operate or if the remote control blinks 5 times when you push a key. The remote control is designed to retain set up codes in memory while you change batteries

Input

Component

Registering setup codes for other components



Find the setup code of the component to be registered.

- Refer to the setup code lists to find the setup code for the component to be registered. + 46 Example: To register a CD made by KENWOOD, you would enter "8037"
- If you purchase a new component that is not covered by the setup code list, you can use the FutureSet upgrade feature. - 44

Hold down the ENT key until the backlight flashes twice and remains lit.



Select the component to be registered.

Press the VIDEO, AUDIO, or TV

key repeatedly to select the de-

AUDIO

sired component.

VIDEO

-	-			
(CD)	CD player	KENWOOD	8028 , 8037	AUDIO
VIDEO 1				
VIDEO 2				
VIDEO 3				
TAPE/MD				
CD				
PHONO				
. —	TV 1			
-	TV 2			
_	CABLE			
				-
	1			

Maker

• At this time all inputs become available regardless of any earlier registration



Perform each of the following steps within



 Example : To register the component connected to the VIDEO 1 jacks, select "VIDEO 1 (SAT)"



Remote Control

3

Getting the most from your remote control Sector States

1080VR (En/K)



2 Enter the setup code.



5 Press POWER, and check to see that the component you want to control turns on.



6 Press the ENT key.



Repeat steps 3 to 6 to register additional components until all components have been registered.





- Example: Press 5258 to register a LD player made by KENWOOD
- The backlight flashes once each time a number is entered
- If an invalid setup code is entered the remote will output one long blink, disregard that code and return to the beginning of step 4.
- If you push an invalid key, the remote will exit the setup mode.

- PLAY or TUNING/SKIP (+/-) can also be used instead of POWER.
- If the component does not react, and there is more than one setup code, enter another setup code and try again
- If the component is already on, pressing POWER will turn it off.

- This code replaces any previous setup codes entered for the respective component.
- If you have components that are not remote controllable, like a record player (etc.), you will need to register a Non-IR code at the respective input. This keeps the respective input in the remote control's cyclic list so you can select it using the remote control. Please consult the owner's manual of the components you are connecting for information regarding remote controllability. The list of Non-IR codes is included at the beginning of the Set up code chart. - 46
- This operation should take about 3 seconds.
- Once registered, the display on the receiver shows the component type instead of the default input name.
- Example: if you register a VCR at the VIDEO 1 jacks, "VCR" appears instead of "VIDEO 1(SAT)".
- Both the default input name and the component type (i.e., " VIDEO1 'VCR' ") are shown in the on screen display when the OSD mode is set to ON - 35
- After initial setup, any VIDEO (VIDEO 1, 2, 3) or TV (TV1, TV2, CABLE) inputs that have not been programmed with a setup code or Non-IR code are deleted from the cyclic list (except for the "AV AUX" VIDEO input). The PHONO input will be deleted if a Non-IR code was not registered
- The INPUT SELECTOR on the front panel of the receiver always cycles through all inputs.



Although each setup code is designed to work with a number of different models, certain codes may not work with some models. (Also, certain codes may only operate some of the functions available on a given model.)-

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Keys or controls used in this operation.

1080VR (En/K)

Operating other components

This operation lets you operate the registered components. KENWOOD audio components with system control turn on and off automatically with the receiver via the system control connections.



 Pressing the VIDEO or AUDIO key also changes the input selector on the receiver. If you do not want to change the current input, press the SHIFT key before step 0.



- Pressing the **SHIFT** key is only required when turning the selected component on or off. Pressing the **POWER** key directy turns the receiver on and off.

The remote control mode remains in the set at the component selected in step $\mathbf{0}$ mode until you select another component (etc.).

Remote Control



Be sure to point the remote control at the remote sensor on the receiver when you want to operate KENWOOD components connected by system control cords. Otherwise, point the remote control at the component you want to operate.

This operation lets you change the remote control operation mode without changing the input selector.

You may find this useful when you want to control one component while using another. (For example, if you want to rewind the tape deck while listening to a CD.)

This operation is also useful if you don't know the which mode the remote control is set to. Executing this operation allows you to change or reconfirm the operation mode you desire.



Keys or controls used in this operation.

1080VR (En/K)



1 Press SHIFT.









• To operate a TV, start from step 2.



▫〈〔〕〉

The component to be controlled is displayed in parenthesis

- Pressing any other keys after the **SHIFT** key cancels the shift function and sends the normal code associated with the respective key.
- The input selector does not change during this operation
- The remote control mode is shown in the on screen display when the OSD mode is set to ON.
- If you press VIDEO or AUDIO key more than 3 seconds after pressing the SHIFT key, the input selector changes together with the operation mode.
- See "Remote operation of other components" for a list of keys available with each component.

The operation mode remains set at the component specified in step 2.

To return control to the original component, press **SHIFT** and then press the **VIDEO** or **AUDIO** key to return to the original control mode.

1080VR (En/K)

The macro play function allows you to set the remote to control several components in succession. After completing 10 this setup, you can perform a series of operations automatically. Enter the setup codes for the components you want to control beforehand.



Keys or controls used in this operation.

Preparing for automatic operations (MACRO play)



The order of the operations may be fairly complex and you may not be remember all of the necessary commands during the setup procedure.

Use the space provided below to write down the operations in the order you are going to enter them.

1	Û
2	.12
3	13
4	<u>1</u> 4
5	15
6	1 <u>Ĝ</u>
7	17
÷	Ĵ8
ų.	19
15	20

Remote Control

2 Activate the macro program mode.



- Up to 20 steps can be memorized for each macro.
- The example below shows the plan for step 4 (which occupies a total of 9 steps) :

1	TV + SHIFT + POWER	3 steps
2	FUNCTION SHIFT + 4	2 steps
3	VIDEO + VIDEO	2 steps
4	SHIFT + POWER	2 steps

Total

9 steps

- If you attempt to store more than 20 steps, the remote will output one long blink and exit the macro programming mode.
- Enter channel numbers (for the monitor TV, etc.) exactly as you would using the original remote.



Perform each of the following steps within 5 seconds.



Repeat steps 2 through 2 to program up to 3 macros.

relation of the most from your remote control MC-1

1080VR (En/K)



Keys or controls used in this operation

Executing an automatic operation

1 Press the MACRO key.



2 Execute the macro play.





- "MACRO" appears in the front panel and on-screen display and the preprogrammed macro is performed:
- VIDEO → "MACRO 1", AUDIO → "MACRO 2", TV → "MACRO 3" • The remote control flashes once for each command output.
- The remote control will output OSD information to tell you the status of the macro.
- Some devices take up to 1 second to power on. The macro function has an automatic delay after any power function output.
- Pressing a button other than AUDIO, VIDEO, or TV cancels the macro program mode.

When VIDEO is pressed MACRO 1 9P 🖸 İ

FutureSet allows you to update the remote control so it can operate new components which do not appear in the setup code list at the end of the manual.

This function allows you to register new setup codes for any or all of the following command positions:

VIDEO1, VIDEO2, VIDEO3, TV1, TV2, CABLE, CD, TAPE/MD. FutureSet codes are stored in memory. Each time a FutureSet upgrade is performed, any previous information in the FutureSet memory location is erased. Please inform your customer service representative if FutureSet has been previously used.



Keys or controls used in this operation.

10BOVB (En / K)

FutureSet upgrade option

Write down the brand name and model number of your component in the space provided before you call.

Call our Free-Phone Consumer Help-Line and explain which components you would like to add to your remote control.

> USA: 1-800-753-9860 Canada: 1-800-644-0673

 This number is designed specifically for FutureSet upgrades, questions about system operation should be first addressed to your place of purchase.

Hold down the ENT key until the backlight flashes twice.



4 Enter the 3 digit code "997".



	Туре	Brand	Model No.	Remote Model No.
Π	тv	KENWOOD	KV?-77??	RC-7777
$\left \cdot \right $				
2				
3	·			

- After our customer service representative records the brand name and model number of your component, he/she will ask you to hold the remote to the speaker portion of your telephone as shown below. Your remote control is KENWOOD model number: RC-R0805
- The hours for cutomer service in USA and Canada currently are: Monday-Thursday 9:00 am - 7:00 pm EST
 - Friday Saturday
- 9:00 am 7:00 pm EST 9:00 am - 5:30 pm EST 12:00 pm - 4:00 pm EST

Complete steps 3 and 4 before holding the remote to the speaker portion of your telephone.

 At this time all inputs become available regardless of any earlier registration.



- The backlight flashes twice.
- The remote is now in the upgrade mode. The remote will wait for 30 seconds for a valid telephone download signal. If nothing is received within this time, it will revert to normal operation.



continued on next page

Remote Control

Staning includes from your remote courte











 For each setup code the operator can supply a setup code number. Should you ever need to change your input configuration, this number can be used. Please record for your future reference. If for some reason this information is lost, see 'Checking a setup code' in the 'Setup code correlation' section for further information.

Code selection after mode download

After successful completion of the download, step 5 above, the remote control automatically enters a special set-up mode which works as described below.

1

Select the component for which you want to register the information downloaded above.



2 Press a numeric key.



Repeat steps 1 and 2 to register all of the downloaded information.

4

Hold down the ENT key until the backlight flashes twice.





VIDEO key	AUDIO key	TV key
Î VIDEO1 (VCR 1) 2 VIDEO2 (VCR 2) 3 VIDEO3 (LD)	+ 1 CD (CD) 2 TAPE/MD (TAPE) 3 PHONO	TV1 2 TV2 3 CABLE

• Example 1 : To register a code at the component connected to the VIDEO 1 jacks, select "VIDEO 1 (VCR)".



- Press the 1 key to output the POWER code of the first component on your list in step 2 of the previous page. Continue to push buttons 2 through 9 (and 0) until the component you want to register turns on.
- Though the FutureSet memory in your remote control is quite large, only 10 setup POWER codes can be put on the 10 keypad at any one time. If you require a larger download, the standard setup procedure can be used. See "Registering setup codes for other components", your customer service representative can supply you with the downloaded setup code numbers.
- The setup code for the last POWER code to be sent in step 2 is automatically registered at the location selected in step 1.
- At this time, the remote exits the special set-up mode and returns to its normal operation mode.

1080VR (En/K)

Non-IR codes

6

Sector

CD player	8900	
Cassette deck	7900	
LD player	5900	
Phono	0900	

Satellite	2900	
тv	1900	
VCR	4900	

DVD	6900
DSS	3900
MD	8900

VCR Set up codes

Maker	Set up codes
Action	4317
Adventura	4000
Aiko	4278
Aiwa	4000, 4307, 4406
Akai	4041, 4315
Akiba	4072
Álba	4278, 4295
American High	4035
Amstrad	4000
Anam	4162, 4240
Anam National	4162, 4454
Anitech	4072
ASA	4037, 4081
Asha	4240
Asuka	4037
Audiovox	4037
Baird	4000, 4041, 4104
Basic Line	4072, 4278
Beaumark ∻	4240
Bell & Howell	4104
Blaupunkt	4034, 4162
Brandt Electronic	4041
Broksonic	4121, 4184, 4211,
	4295, 4361
Bush	4072, 4278
Calix	4037
Canon	4035
Carver	4081
CCE	4072, 4278
CGE	4000
Cimline	4072
Citizen	4037, 4278
Colt .	4072
Craig	4037, 4047, 4072, 4240
Crown	4072, 4278
Curtis Mathes	4035, 4041, 4060
Cybernex	4240
Daewoo	4045, 4046, 4278
Dansai	4072

Maker	Set up codes
De Graaf	4042
Decca	4000, 4081
Dual	4041
Dumont	4000, 4081, 4104
Dynatech	4000
Elcatech	4072
Electrohome	4037
Electrophonic	4037
Emerex	4032
Emerson	4000, 4002, 4037, 4043, 4121, 4184, 4211, 4278, 4295, 4361
ESC	4240, 4278
Ferguson	4041
Fidelity	4000
Finlandia	4081, 4104
Finlux	4000, 4042, 4081, 4104
Firstline	4037, 4043, 4045, 4072
Fisher	4046, 4047, 4066, 4104
Fuji	4033, 4035
Fujitsu	4000
Funai	4000
Garrard	4000
GE	4035, 4060
GEC	4081
Go Video	4232, 4350
GoldHand	4072
Goldstar	4037, 4038
Goodmans	4000, 4037, 4072, 4278
Gradiente	4000
Graetz	4041, 4104, 4240
Granada	4046, 4081, 4104
Grandin	4000, 4037, 4072
Grundig	4034, 4072, 4081
Hanseatic	4037
Harley Davidson	4000

Maker	Set up codes
Harmon/Kardon	4038
Harwood	4072
НСМ	4072
Headquarter	4046
HI-Q	4047
Hinari	4072, 4240
Hitachi	4000, 4041, 4042, 4240
Hypson	4072
Imperial	4000
Interfunk	4081
ITT	4041, 4046, 4104, 4240
ITV	4037, 4278
Jensen	4041
JVC	4008, 4041, 4067
Kaisui	4072
KEC	4037, 4278
Kenwood	4038, 4041, 4067
KLH	4072
Kodack	4035, 4037
Korpel	4072
Lenco	4278
Leyco	4072
Lloyd	4000
Loewe	4037, 4081
Logik	4072, 4240
Luxor	4043, 4046, 4048, 4104
LXI	4037
M Electronic	4000
Magnavox	4035, 4039, 4081, 4149
Magnin	4240
Manesth	4045, 4072
Marantz	4035, 4081, 4295
Marta	4037
Matsui	4295
Matsushita	4035, 4162, 4454
MEI	4035

Set up code char

1080VR (En/K)

VCR Set up codes (continued)

Maker	Set up codes
Memorex	4000, 4035, 4037, 4039, 4046, 4047, 4048, 4104, 4240, 4307
Memphis	4072
Metz	4162, 4454
MGA	4043
MGN Technology	4240
Minolta	4042
Mitsubishi	4043, 4067, 4081, 4173
Motorola	4035, 4048
MTC	4000, 4240
Multitech	4000, 4072
Murphy	4000
NAD	4104
NEC	4038, 4041, 4067, 4104
Neckermann	4081
Nesco	4072
Nikko	4037
Nikon	4034
Noblex	4240
Nokia	4041, 4046, 4048, 4104, 4240
Nordmende	4041
Oceanic	4000, 4041
Okano	4315
Olympus	4035
Optimus 🕤	4037, 4048, 4104, 4162, 4454
Orion	4121, 4295
Osakı	4000, 4037, 4072
Otto Versand	4081
Palladium	4037, 4041, 4072
Panasonic	4035, 4077, 41 <mark>62,</mark> 4454
Pathe Marconi	4041
Penny	4035, 4037, 4038, 4042, 4240
Pentax	4042
Perdio	4000
Phirco	4035, 4038
Philips	4035, 4081
Phonola	4081
Pilot	4037

Maker	Set up codes
Pioneer	4067, 4081
Profitronic	4240
Proline	4000
Protec	4072
Pulsar	4039
Pye	4081
Quarter	4046
Quartz	4046
Quasar	4035, 4077, 4162 4454
Quelle	4081
Radio Shack	4000, 4037
Radiola	4081
Radix	4037
Randex	4037
RCA	4042, 4060, 4077,
	4149, 4225
Realistic	4000, 4035, 4037
	4046, 4047, 4048
<u> </u>	4066, 4104, 4240
Rex	4041
Ricoh	4034
Roadstar	4037, 4072, 4240, 4278
Runco	4039
Saba	4041
Salora	4043, 4046
Samsung	4045, 4240
Sanky	4039, 4048
Sansui	4041, 4067
Sanyo	4046, 4047, 4104,
	4240
SBR	4081
Schaub Lorentz	4000, 4041, 4104
Schneider	4000, 4072, 4081
Scott	4043, 4045, 4121, 4184, 4211
Sears	4035, 4037, 4042, 4046, 4047, 4066,
	4104
SEG	4240
SEI	4081
Selco	4041
Sharp	4048
Shintom	4072, 4104
Shogun	4240
Siemens	4037, 4081, 4104

Maker	Set up codes
Silva	4037
Singer	4045, 4072
Sinudyne	4081
Sontec	4037
Sony	4032, 4033, 4034,
	4035
STS	4042
Sunstar	4000
Suntronic	4000
Sylvania	4000, 4035, 4043,
-	4081
Symphonic	4000
Tandy	4000, 4104
Tashiko	4000
Tatung	4000, 4041, 4081
Теас	4000, 4041
Technics	4035, 4162
Teknika	4000, 4035, 4037
Teleavia	4041
Télefunken	4041
Tenosal	4072
Tensai	4000
Thomson	4041
Thorn	4041, 4104
ТМК	4240
Toshiba	4041, 4043, 4045,
	4060, 4066, 4081
Totevision	4037, 4240
Uher	4240
Unitech	4240
Universum	4000, 4037, 4081,
	4240
Vector	4045
Vector Research	4038
Victor	4008, 4041, 4067
Video Concepts	4045
Videosonic	4240
Wards	4000, 4035, 4042,
	4047, 4048, 4060, 4072, 4149, 4240
XR-1000	4000, 4035, 4072
Yamaha	4038
Yamishi	4072
Yokan	4072
Yoko	4240
Zenith	4033, 4034, 4039

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TV Set up codes

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Maker	Set up codes
Admiral	1093
Adventura	1046
Aiko	1092
Akai	1030
Alleron	1179
Ambassador	1177
Amstrad	1177
Anam	1180
Anam National	1055, 1250
AOC	1019, 1030, 1137
Audiovox	1180
Belcor	1019
Bell & Howell	1016, 1154
Blue Star	1282
BPL	1282
Bradford	1180
Brockwood	1019
Bush	1282
Candle	1030, 1046, 1056,
	1186
Carnivale	1030
Carver	1054
Celebrity	1000
Citizen	1030, 1039, 1046,
	1056, 1060, 1092, 1186, 1280
Canaarta	
Concerto	1056
Contec	1180
Craig	1180
Crown	1039, 1180
Curtis Mathes	1030, 1039, 1060, 1154
СХС	1180
Daewoo	1019, 1039, 1092,
Dacinot	1154, 1451
Daytron	1019
Dumont	1017, 1019 .
Electroband	1000
Electrohome	1381
Emerson	1019, 1039, 1154,
	1177, 1178, 1179,
	1180, 1236, 1280,
Envicion	1282, 1463 1030
Envision	
Finlux	1179
Fisher	1154, 1159
Fortress	1093
Fujitsu	1179
Funai	1179, 1180
Futuretech	1180

Maker	Set up codes
GE	1021, 1027, 1047,
	1051, 1055, 1135, 1178, 1282, 1451
	1178, 1282, 1451
General	1186
Gibralter	1017, 1019, 1030
Goldstar	1019, 1030, 1039,
···	1056, 1178
Goodmans	1179
Grandin	1282 -
Grunpy	1179, 1180
Hallmark	1178
Harvard	1180
НСМ	1282
Hinari	1179
Hisawa	1282
Hitachi	1056, 1145, 1151
Hypson	1282
Infinity	1054
Janeil	1046
JBL	1054
JCB	1000
JVC	1053
Kaisui	1282
KEC	1180
Kenwood	1019, 1030
Kloss	1024, 1046
KTV	1030, 1039, 1180,
	1280
Logik	1016
Luxman	1056
LXI	1047, 1054, 1154,
	1156, 1178
Magnavox	1024, 1030, 1054,
_	1186, 1187
Majestic	1016
Marantz	1030, 1054
Matsui	1177
Matsushita	1250
Megatron	1145, 1178
Memorex	1016, 1056, 1150,
	1154, 1178
MGA	1019, 1030, 1150,
	1178
Midland	1017, 1039, 1047,
	1051, 1135
Minutz	1021
Mitsubishi	1019, 1150, 1178
Motorola	1055, 1093
MTC	1019, 1030, 1056,
	1060
Multitech	1180
NΔU	1156 1166 1178

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Maker	Set up codes
NEC	1019, 1030, 1056
Nesco	1179
Nikko	1030, 1092, 1178
Noshi	1018
NTC	1092
Onwa	1180
Optimus	. 1154, 1166, 1250
Optonica Orien	1093, 1165
Orion	1177, 1236
Panasonic	1051, 1055, 1250
Penny	1018, 1019, 1021, 1027, 1030, 1039,
	1047, 1051, 1060,
	1135, 1156, 1178
Philco	1019, 1030, 1054
Philips	1054
Pilot	1019, 1030, 1039
Pioneer	1166
Portland	1019, 1039, 1092
Prism	1051
Proscan	1047
Proton	1031, 1178, 1466
Pulsar	1017, 1019
Quasar	1051, 1055, 1165
Quasar	1250
Radio Shack	1019, 1030, 1039
	1047, 1056, 1154
	1165, 1178, 1180
RCA	1018, 1019, 1047 1090, 1135
<u> </u>	
Realistic	1019, 1030, 1039 1056, 1154, 1165
	1178, 1180
Runco	1017, 1030
Saisho	1177
Sampo	1030, 1039
Samsung	1019, 1030, 1039
barnburg	1056, 1060, 1178
	1427
Samsux	1039
Sanyo	1154, 1159
Scimitsu	1019
Scotch	1178
Scott	1019, 1178, 1179
	1180, 1236
Sears	1047, 1054, 1056
	1154, 1156, 1159 1178 1179
	1178, 1179
SEI	1177
Sharp	1039, 1093, 1165
Shogun	· 1019
Signature	1016

1080VR (En/K)

Set up code chart

TV Set up codes (continued)

Maker	Set up codes
Sinudyne	1177
Sony	1000
Soundesign	1178, 1179, 1180, 1186
Spectricon	1137
SSS	1019, 1180
Starlite	1180
Supra	1056
Supre-Macy	1046
Supreme	1000
Sylvania	1030, 1054, 1381
Tandy	1039, 1093

Maker	Set up codes
Tatung	1055
Technics	1051, 1250
Technol Ace	1179
Techwood	1051, 1056
Teknika	1016, 1019, 1039, 1054, 1056, 1060, 1092, 1150, 1179, 1180, 1186, 1312
Tera	1031
ТМК	1056, 1177, 1178
Tomashi	1282
Toshiba	1060, 1154, 1156
Totevision	1039

Maker	Set up codes	
Triumph	1177	
Universal	1027	
Vector Research	1030	
Victor	1053, 1250	
Vidikron	1054	
Vidtech	1019, 1178	
Viking	1046, 1312	
Wards	1016, 1019, 1021, 1027, 1030, 1054, 1056, 1165, 1178, 1179	
Yamaha	1019, 1030	
Zenith	1016, 1017	

Satellite Set up codes

Maker	Set up codes		Maker	Set up codes
Echostar	2280		Jerrold	2361
General Instrument	2361].	Primestar	2361

Maker	Set up codes
Realistic	2052
Uniden	2052

LD player Set up codes

Maker	Set up codes
Carver	5194
Disco Vision	5023
Hitatchi	5023
Kenwood	5258
Magnavox	5194
Marantz	5194

Maker	Set up codes
Mitsubishi	5059
NAD	5059
Panasonic	5204
Philips	5194
Pioneer	5023, 5059

Maker	Set up codes
Quasar	5204
Sega	5023
Sony	5201
Telefunken	5059
Theta Digital	5194

DSS Set up codes

Maker	Set up codes
Aiphastar	3772
Echostar	3775
HTS	3775
Hughes Network Systems 3749	

Maker	Set up codes
Jerrold	3627
Panasonic	3701
Primestar	3627

Maker	Set up codes
RCA	3566
Sony	3639
Toshiba	3790

DVD Set up codes

Maker	Set up codes	
Panasonic	6490	
Toshiba	6503	

Set up code chart.

Cable Set up codes

Maker	Set up codes
ABC	0001, 0003, 0007, 0008, 0011, 0013, 0014, 0017
Antronix	0022
Archer	0022, 0153, 0797
Belcor	0056
Cable Star	0056
Cabletenna	0022
Cableview	0022
Century	0153
Citizen	0153
Colour Voice	0025
Comtronics	0040
Contec	0019
Daeryung	0008
Eastern	0002
Everquest	0015, 0040
Garrard	0153
GC Electronics	0056
Gemini	0015
General Instrument	0011, 0276, 0476
GoldStar	0040, 0144
Hamlin	0009, 0020, 0034, 0259

Maker	Set up codes
Hitachi	0011
Hytex	0007
Jasco	0153
Jerrold	0003, 0011, 0012, 0014, 0015, 0276,
	0476
Memorex	0000
Movie Time	0063, 0156
NSC	0063, 0156
Oak	0007, 0019
Panasonic	0000, 0021, 0107
Paragon	0000
Philips	0025, 0153
Pioneer	0144, 0753
Prelude	0770
Pulsar	0000
PVP Stereo Visual Matrix	0003
Radio Shack	0797
RCA	0021
Regal	0020, 0259
Regency	0002
Rembrandt	0011
Runco	0000
Samsung	0040, 0144

Maker	Set up codes
Scientific Atlanta	0008, 0017, 0477
Signal	0015, 0040
Signature	0011
SL Marx	0040
Sprucer	0021
Starcom	0003, 0015
Stargate	0015, 0040, 0770
Starquest	0015
STS	0156
Sylvania	0001
Tandy	0258
Teleview	0040
Texscan	0001
Tocom	0012, 0013
Toshiba	0000
Tusa	0015
TV86	0063
Unika	0022, 0153
United Artists	0007
United Cable	0003
Universal	0022, 0056, 0153
Viewstar	0063, 0258
Zenith	0000, 0525

CD Player Set up codes

Maker	Set up codes
Aiwa	8124, 8157
Arcam .	8157.
AudioTon	8157
California Audio Lab	8029
Carver	8157, 8179
Cyrus	8157
Denon	8003
DKK	8000
Dynamic Bass	8179
Elektra	8393
Emerson	8305
Fisher	8048, 8088, 8179
Garrard	8393
Genexxa	8032, 8305
Goodmans	8305
Grundig	8157
Hitachi	8032
JVC	8072, 8655
Kenwood	8028, 8037, 8048,
	8099, 8190, 8858, 8859

Maker	Set up codes
Krell	8157
Linn	8157
LXI	8305
Magnavox	8157
Marantz	8029, 8157
Matsui	8157
MCS	8029
Memorex	8032, 8305
Meridian	8157
Micromega	8157
Mission	8157
NAD	8000
Naim	8157
NSM	8157
Onkyo	8101
Optimus	8000, 8032, 8037 8179, 8305, 8468
Panasonic	8029, 8303
Philips	8157
Pioneer	8032, 8305, 8468
Proton	8157

Maker	Set up codes
QED	8157
Quad	8157
Quasar	8029
RCA	8053, 8179, 8305
Realistic	8179
Revox	8157
Rotel	8157
SAE	8157
Sansui	8157, 8305
Sanyo	8179
Scott	8305
Sears	8305
Sharp	8037
Sony	8000, 8185, 8604, 8605
Soundesign	8145
Tandy	8032
Теас	8393
Technics	8029, 8303
Universum	8157
Victor	8072
Yamaha	8036, 8187

1080VR (En/K)

Set up code chart

DAT deck Set up codes

Maker	Set up codes	
Carver	7158	
Denon	7031	
Grundig	7158	

Maker	Set up codes	
Marantz	7158	
Philips	7158	

Maker	Set up codes 7093	
Sony		
Technics	7158	

Cassette deck Set up codes

Maker	Set up codes	
Aiwa	7029, 7197	
Arcam	7076	
Carver	7029	
Denon	7076	
Fisher	7074	
Garrard	7308, 7309	
Grundig	7029	
Inkel	7071	

Maker	Set up codes	
JVC	7244, 7273, 7274	
Kenwood	7000, 7071, 7183	
Magnavox	7029	
Marantz	7009, 7029	
Onkyo	7136	
Optimus	7027, 7220	
Panasonic	7229	
Philips	7029	
Pioneer	7027, 7220	

Maker	Set up codes	
Revox	7029	
Sansui	7009, 7029	
Sony	7170, 7243, 7291	
Теас	7308, 7309	
Technics	7229	
Victor	7244, 7273, 7274	
Wards	7027	
Yamaha	7094, 7097	

MD Set up codes

Maker	Set up codes	
Kenwood	9000, 9826	
Sony	9490	

Misc. audio Set up codes

Maker	Set up codes	Maker	Set up codes	Maker	Set up codes
Jerrold	8459, 8520	Scientific Atlanta	8460	Starcom	8459





Resetting the Microcomputer

If the microcomputer may malfunction (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.

Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER key.

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

Amplifier

Symptom	Cause	Remedy
No sound from the speakers.	 The speaker cords are disconnected. VOLUME is set to the minimum position. MUTE is ON. The SPEAKERS switches are set to OFF. 	 Connect them properly referring to "Connect-ing the speakers" - 12 Adjust the volume to a proper level. Turn OFF the MUTE 19 Set the SPEAKERS switch(es) to ON 19
The standby indicator blinks and sound is not output.	• Speaker cords are short-circuited.	 Turn the power off, eliminate the short- circuiting, then turn on the power again. →13
Sound is not output from one of the speakers.	 The speaker cord is disconnected. The speaker balance is set to an extreme position. 	 Connect it properly referring to "Connecting the speakers". Adjust the speaker levels using the test tone. <u>11</u>
Sound is not output from the rear (sur- round) speakers and/or the center speaker, or their sound is very small.	 The rear speaker cords and/or the center speaker cord is disconnected. A surround mode has not been engaged. The rear and/or center volume controls are set to the minimum level. 	 Connect it properly referring to "Connecting the speakers". Select a surround mode. Adjust the speaker levels using the test tone. - II
A humming noise is generated when the PHONO input selector is selected.	 The audio cord from the turntable is not connected to the PHONO jacks. The turntable is not grounded. 	 Insert the audio cord plugs securely into the PHONO jacks. Connect the grounding wire to the GND terminal on the rear panel.
The initial sound is intermittent when start- ing playback from an AC-3 source in a DVD player.	 There are differnent causes for different types of DVD players. 	 With certain DVD players, the initial sound may be intermittent.
No sound when playing a DVD.	• A PCM source is being played back.	Press the STEREO key.
Digital playback is not possible from Dolby Digital (AC-3) sources.	 The sound mode is set to "STEREO". 	 Press the DOLBY DIGITAL key to select the Dolby Digital (AC-3) mode.

Tuner

Symptom	Cause	Remedy
Radio Stations cannot be received.	 No antenna is connected. The broadcast band is not set properly. The frequency of the desired station is not tuned. 	 Connect an antenna. Set the broadcast band properly. Tune the frequency of the desired station. -23.
Interference.	 Noise due to ignition noise from an automobile. Noise due to interference from an electric appliance. Noise due to a nearby TV set. 	 Install the outdoor antenna away from the road. Turn off the power to the appliance. Install the receiver farther away from the TV.
A station which was preset cannot be re- ceived by pressing the corresponding nu- meric key.	 The preset station belongs to a frequency that cannot be received. The preset memory was cleared because the power cord had been unplugged for a long period of time. 	Preset a station with a receivable frequency.Preset the station again.

1080VR (En/K)

Remote control unit

Symptom Million	Cause	and the second state of th
The backlight flashes five times during nor- mal operation.	 The batteries are nearing exhaustion. 	 Replace with new batteries to preserve the currently registered setup information. – 14
Subwoofer volume cannot be adjusted.	Subwoofer is OFF.	• Turn the subwoofer ON 16
Certain inputs cannot be selected using the remote control.	 No preset codes registered at for the respec- tive input(s). 	 Register a preset code or Non-IR code at the respective input(s).
Remote control operation is not possible.	 The remote control is set to a different operation mode. Batteries are exhausted. The remote control unit is too far away from the main system, controlling angle is too large, or there is an obstacle between the receiver and the remote. The audio cords and system control cords are not connected properly. No software is loaded in the source component. An attempt is made to play a tape which is being recorded in the cassette deck. The remote control has not been set to the operation mode for the component you wish to control. 	 Press VIDEO, AUDIO, or TV to select the approriate operation mode. Replace with new batteries. If the backup is exhasted before you can replace the batteries, redo the setup procedure 14 - 36 Operate the remote control unit within the controllable range. Connect properly referring to "Setting up the system". Place software in the source component you want to play. Wait until recording has completed. Press the VIDEO, AUDIO, or TV key to activate the operation mode for the component you want to control before operation.



Do not use contact cleaning agents because they could cause a malfunction. Be specifically careful against using contact cleaning agents containing oil, since they may deform the plastic components.

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 FQC 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.

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 for approximately 3 days.

• Power mode

- Settings made using OSD (like SURROUND SET UP).
- Input selector settings.
- Volume level.
- Broadcast band.
- Frequency setting
- Preset stations.

For the U.S.A.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Specifications

AUDIO section

Rated power output during STEREO operation

120 watts per channel minimum RMS, both channels driven, at 8Ω from 20 Hz to 20 kHz with no more than 0.06 % total harmonic distortion.(FTC)

Rated power output during SURROUND operation

FRONT

THOM	
(1kHz, 0.7% T.H.D. at 8 Ω)	120 W + 120 W
CENTER	
(1kHz, 0.7% T.H.D. at 8 Ω)	120 W
SURROUND	
(1kHz, 0.7% Τ.Η.D. at 8 Ω)	60 W + 60 W
Total harmonic distortion0.0	15%(1 kHz, 60W, 8 Ω)
Frequency response	
CD	5 kHz, +0.5 dB, -3 dB
Signal to noise ratio (IHF'66)	
PHONO (MM)	75 dB
CD	
Input sensitivity / impedance	
PHONO (MM)	
CD	
ADAPTOR IN	400 mV / 10 kΩ
Output level / impedance	
ADAPTOR OUT	
PRE OUT (CENTER, SURROUND, S	
Tone control	
BASS	0 dB (at 100 H-)
	±8 dB (at 10 kHz)
LOUDNESS control	
VOLUME at -40dB level +7 dB(10	00 Hz), +3 dB(10 kHz)

DIGITAL AUDIO section

Sampling frequency	32 kHz, 44.1 kHz, 48 kHz
Input level / impeda	nce / wave length
Optical	15 dBm ~ -21 dBm, 600 nm ±30nm
Coaxial	0.5 Vp-p / 75 Ω

VIDEO section

Video forma	t	NTSC
VIDEO input	s / outputs	
VIDEO	(composite) 1 V	/p-p / 75 Ω

FM tuner section

Tuning frequency range		
Usable sensitivity (MONO)		
1.6μV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)		
50dB quieting sensitivity		
STEREO		
Total harmonic distortion (1 kHz)		
(for U.S.A. and Canada)		
MONO0.2 % (65 dBf input)		
STEREO		
(except for U.S.A. and Canada)		
MONO		
STEREO		
Signal to noise ratio (1 kHz, 75 kHz DEV.)		
MONO 75 dB (65 dBf input)		
STEREO 68 dB (65 dBf input)		
Stereo separation (1 kHz) 40 dB		
Selectivity (±400 kHz)		
(for U.S.A. and Canada) 70 dB		
(except for U.S.A. and Canada)		
Frequency response		

nution : Read this page carefully to ensure safe operation

AM tuner section

Tuning frequency range (for U.	S.A. and Canada)
10 kHz step	530 kHz ~ 1,700 kHz
Tuning frequency range (excep	t for U.S.A. and Canada)
9 kHz step	531 kHz ~ 1,602 kHz
10 kHz step	530 kHz ~ 1,610 kHz
Usable sensitivity (30% mod., S	S/N 20 dB)
	16 μV / (600 μV/m)
Signal to noise ratio (30 % mod	l. 1 mV input) 48 dB

GENERAL

Power consumption	
AC outlet	
SWITCHED	
Dimensions	
	H : 147 mm (5-13/16")
	D : 392 mm (15-7/16")
Weight (Net)	11 kg (24.3 lb)



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

Remote operation of other components

1080VR [En/K]

Refer to the following for the type of remote control operations available for each component. The setup code for each component must be entered beforehand.



O Use the AUDIO, VIDEO, or TV keys to select the component you want to control.

Press the keys corresponding to the operations you desire. Refer to the following sections for details.

- When pressing keys in succession, press each key firmly and be sure to wait at least 1 second before pressing the next key.
- Numeric keys function the same as the numeric keys on the original remote.
- To execute a FUNCTION SHIFT command, press the **FUNCTION SHIFT** key, then press the corresponding key within 3 seconds.

Although each setup code is designed to work with a number of different models, certain codes may not work with some models. (Also, certain codes may only operate some of the functions available on a given model.)
 The charts below show the typical functions available for each component. Some manufacturers use different key combinations to perform

similar functions. For that reason, we have programmed extra functions on some of the unused number keys to help you control your equipment. To find if your component has extra functions, press the **FUNCTION SHIFT** key, then press a number key. Repeat this procedure for each number key.







continued on next page

Remote operation of other components

1080VR (En/K)









Remote operation of other components

1080VR [En/K]







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KENWOOD





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KENWOOD

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

Model_

___ Serial Number_