13" Digital / Analog Television

Owner's Manual

INTRODUCTION

> TO RECEIVE DIGITAL/ANALOG SIGNAL, YOU MUST CONNECT ANTENNA.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



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

The important note is located on the rear of the cabinet.

Important Safeguards

- READ INSTRUCTIONS All the safety and operating instructions should be read before the appliance is operated.
- 2. **RETAIN INSTRUCTIONS** The safety and operating instructions should be retained for future reference.
- HEED WARNINGS All warnings on the appliance and in the operating instructions should be adhered to.
- FOLLOW INSTRUCTIONS All operating and use instructions should be followed.
- CLEANING Unplug TV from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.

- ATTACHMENTS Do not use attachments not recommended by the TV manufacturer as they may cause hazards.
- WATER AND MOISTURE Do not use this TV near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
- 8. ACCESSORIES Do not place this TV on an unstable cart, stand, tripod, bracket, or table. The TV may fall, causing serious injury to someone, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV. Any mounting of the appliance should follow the manufacturer's instructions and should



use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the

appliance and cart combination to overturn. **AMEUBLES** - Cet appareil ne doit être placé que sur un meuble (avec ou sans roulettes) recommandé par le fabricant. Si vous l' installez sur un meuble à roulettes, déplacez les deux ensembles avec précaution. Un arrêt brusque, l'utilisation d'une force excessive et des surfaces irrégulières risquent de déstabiliser l'ensemble et de le renverser.



- 9. VENTILATION Slots and openings in the cabinet and the back or bottom are provided for ventilation and to ensure reliable operation of the TV and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the TV on a bed, sofa, rug, or other similar surface. This TV should never be placed near or over a radiator or heat register. This TV should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 10. POWER SOURCES This TV should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For TVs intended to operate from battery power, or other sources, refer to the operating instructions.



THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.



THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

- **11. GROUNDING OR POLARIZATION** This TV is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 12. POWER-CORD PROTECTION Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- 13. OUTDOOR ANTENNA GROUNDING If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)



- 14. LIGHTNING For added protection for this TV receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV due to lightning and power-line surges.
- 15. POWER LINES An outside antenna system should not be located in the vicinity of overhead power lines or other electric light of power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- **16. OVERLOADING** Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

- 17. OBJECT AND LIQUID ENTRY Never push objects of any kind into this TV through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV.
- 18. SERVICING Do not attempt to service this TV yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19. DAMAGE REQUIRING SERVICE Unplug this TV from the wall outlet and refer servicing to gualified service personnel under the following conditions:
 - a. When the power supply cord or plug is damaged or frayed.
 - b. If liquid has been spilled, or objects have fallen into the TV.
 - If the TV has been exposed to rain or water.
 - d. If the TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to its normal operation.
 - If the TV has been dropped or damaged in any way.
 - When the TV exhibits a distinct change in performance, this indicates a need for service.

- REPLACEMENT PARTS When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, injury to persons or other hazards.
- TV, ask the service technician to perform routine safety checks to determine that the TV is in proper operating condition.
- 22. HEAT This TV product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
- 21. SAFETY CHECK Upon completion of any service or repairs to this
- Precautions CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND. **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 manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

RADIO-TV INTERFERENCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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:

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

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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 should be connected to the grounding system of the building as close to the point of cable entry as practical.



LOCATION

For safe operation and satisfactory performance of the unit, keep the following in mind when selecting a place for its installation:

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes at the top and bottom of the unit. Do not place the unit on a carpet because this will block the ventilation holes.
- Install the unit in a horizontal position.
- Avoid locations subject to strong vibration.Do not place the unit near strong magnetic fields.
- Avoid moving the unit to locations where temperature differences are extreme.
- Be sure to unplug the AC power cord from the outlet before carrying the unit.

TO AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from an AC outlet. Grasp it by the plug.
- If, by accident, water is spilled on the unit, unplug the power cord immediately and take the unit to our authorized service center for servicing.
- Do not place anything directly on top of the unit.

The serial number of this product may be found on the back of the unit. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft.

date of purchase	dealer phone No.	serial No.
dealer purchase from	model No.	dealer address

Note about recycling:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

Supplied Accessories

owner's manual (1EMN22504)



remote control (NE601UE)



batteries (AA x 2)



- If you need to replace these accessories, please refer to the part No. with the illustrations and call our toll free customer support line found on the cover of this manual.
- Depending on your antenna system, you may need different types of combiners (mixers) or separators (splitters). Contact your local electronics store for these items.

Symbols Used in this Manual

The following is the description for the symbols used in this manual. Description refers to:





• If neither symbol appears under the function heading, operation is applicable to both.

✓ Features

• DTV/TV/CATV

- You can use your remote control to select channels which are broadcast in digital format and conventional analog format. Also, cable subscribers can access their cable TV channels.
- Program Information Display (DTV only)
- You can display the title, contents and other information of the current DTV program on the TV screen.

Auto Channel Scan

- This unit automatically scans and memorizes channels available in your area, eliminating difficult setup procedures.
- V-chip
- This feature allows you to block children's access to inappropriate programs.

Closed Caption Decoder

- Built-in closed caption decoder displays text for closed caption supported programming.

Auto Shut Off Function

- If there is no signal input from the antenna terminal and no operation for 15 minutes, the unit will turn itself off automatically.

Sleep Timer

- This feature will automatically turned off the power of the unit at a specific time.
- Choices for On-screen Language
- Select your on-screen language: English, Spanish or French.
- PLL Frequency Synthesized Tuning
- Provides free and easy channel selection and lets you tune directly to any channel using the channel number buttons on the remote control.
- AV Input
- Digital Audio Coaxial Output

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Remote Control Function



- 1. **POWER button** (p10) Press to turn the unit on and off.
- 2. Number buttons (p12)
 - Press to select channels.
 -/ENT button
 - Press to shift the minor channel from the major channel.
 - +100 button
 - Press to select 100 or higher channels. (CATV)
 - Press to search if there are minor channels on the currently selected major channel. (DTV)
- CH ▲/▼ buttons (p12) Press to select channels and the external input mode or move up/down through the main menu items.
- VOL △/▽ buttons (p12) Press to adjust the volume or move right(△)/left(▽) through the main menu items.
- 5. MENU button (p10) Press to display the main menu.
- 6. INPUT SELECT button (p13) Press to access a connected external device like a DVD player or a VCR.

- DTV/TV button (p13) Press to switch between the digital mode (DTV) and analog mode (TV).
- 8. INFO button (p13) Digital Mode (DTV)
 - Press to display channel number and program information.
 Analog Mode (TV)
 - Press to display the channel number.

External Input Mode

- Press to display the currently selected external input mode.
- 9. AUDIO button (p13) Digital Mode (DTV only) Press to select the audio language.
- **10. CHANNEL RETURN button** (p12) Press to return to previous channel.
- MUTE button (p12) Press to turn the sound on and off.
- **12. SLEEP button** (p14) Press to activate the sleep timer.

☑ Installing the Batteries

Install the batteries (AA x 2) matching the polarity indicated inside battery compartment of the remote control.



Battery Precautions:

- Be sure to follow the correct polarity as indicated in the battery compartment. Reversed batteries may cause damage to the device.
- Do not mix different types of batteries together (e.g., Alkaline and Carbon-Zinc) or old batteries with fresh ones.
- If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
 Do not try to recharge batteries; they can overheat and rupture.

INFORMATION

☑ Control Panel



Infrared Sensor Window Receives infrared rays transmitted from the remote control.

2. POWER button (p10) Press to turn the unit on and off.

1.

- CHANNEL ▲ / ▼ buttons (p12) Press to select channels or move up/down through the main menu items.
- VOLUME △ / ▽ buttons (p12) Press to adjust the volume or move right(△)/left(▽) through the main menu items.
- 5. **MENU button** (p10) Press to display the main menu.
- 6. EARPHONE jack Earphone connection for personal listening.
- **7. AUDIO (L) input jack** (p9) RCA audio cable connection for an external device.
- 8. VIDEO input jack (p9) RCA video cable connection for an external device.

⊠ <u>Rear Panel</u>



1. ANT. IN jack (p8)

RF coaxial cable connection for your antenna or cable/satellite box.

 COAXIAL (digital audio) output jack (p9) Digital audio coaxial cable connection for a decoder or an audio receiver. Use digital audio input jack of an external device.

AC power cord Connect to a standard AC outlet to supply power to this unit.

Cables not included.

Please purchase the necessary cables at your local store.

☑ Basic Connection

This section describes how to connect the unit to an antenna, cable/satellite box, etc.

Note:

• Be sure your antenna or other device is connected properly before plugging in the power cord.

[Antenna Cable Connection]

When connecting the unit to an antenna or cable TV company (without cable/satellite box) Connect the RF coaxial cable on your home outlet to the antenna input jack of this unit.



*Once connections are completed, turn on the unit and begin initial setup. Channel scanning is necessary for the unit to memorize all available channels in your area. (Refer to "Initial Setup" on page 10.)

Note:

For your safety and to avoid damage to device, please unplug the RF coaxial cable from the antenna input jack before moving the unit.
 If you use an antenna to receive analog TV, it should also work for DTV reception. Outdoor or attic antennas will be more effective than set-

• If you use an antenna to receive analog 1 V, it should also work for D1 V reception. Outdoor or attic antennas will be more effective than settop versions.

• To easily switch your reception source between antenna and cable, install an antenna selector.

• If you connect to the cable system directly, contact the CATV installer.

[Connection to Cable Box or Satellite Box]

Connect the RF coaxial cable on your home outlet to the input jack of the cable/satellite box.

Use another RF coaxial cable to connect the antenna input jack of the unit to the output jack of the cable/satellite box.



*Required cables and connecting methods differ depending on the cable/satellite box. For more information, please contact your cable/satellite provider. Cables not included.

Please purchase the necessary cables at your local store.

☑ External Device Connection

[Video Connection]

Video connection offers standard picture quality for video devices connected to the unit. Make the connection as illustrated below.



[Digital Audio Output Connection (for digital broadcasting only)]

If you connect this unit to an external digital audio device, you can enjoy multi-channel audio like 5.1ch digital broadcasting sound.



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These operations are accessible by remote control. Some may also be accessible by controls on the main unit.

☑ Initial Setup

This section will guide you through the unit's initial setting which includes selecting a language for your on-screen menu and "AUTO PRESET CH", which automatically scans and memorizes viewable channels.

Before you begin:

Make sure if the unit is connected to antenna or cable.

After making all the necessary connections, press [POWER] to turn on the unit.



- This operation may take a few moments.
- 2 Use [CH ▲/▼] or [VOL △] to select the on-screen language from the choices on the left side of the TV screen. (ENGLISH / ESPAÑOL / FRANÇAIS)





- Press [CH ▲] for English.
- Press [CH ▼] for Spanish.
- Press [VOL riangle] for French.
- 3 Use [CH ▲/▼] to select "AUTO PRESET CH(TV/DTV)" for TV channels or "AUTO PRESET CH(CATV)" for CATV channels, then press [VOL △].



Scanning and memorizing the channels automatically start.



• When the scanning and memorizing are completed, the lowest memorized channel in the broadcasting will be displayed.

Note:

- If you connect the cable system directly, contact the CATV installer.
- If you press [POWER] or [MENU] during "AUTO PRESET CH", this setting will be canceled.
- The initial auto channel scan function can be executed for either TV/DTV or CATV only once. If you want to scan both TV/DTV and CATV, you need to select "CHANNEL SETUP" in the main menu to scan and memorize other channels after initial presetting is completed. (Refer to page 11.)
- You can cancel or exit the initial "AUTO PRESET CH" menu by pressing [MENU].
- When no channel can be received by "AUTO PRESET CH", "NO TV SIGNALS" is displayed on the TV screen.
- If there is no signal input from the antenna terminal and no operation for more than few seconds, "HELPFUL HINTS" appears. Follow the instructions listed on the TV screen.



⊠ <u>Main Menu</u>

This section describes the overview of the main menu displayed when you press [MENU].

For more details, see the reference page for each item. The main menu consists of the function setting items below.

Press [MENU].





- TV SETUP
 PICTURE
 CHANNEL SETUP
 V-CHIP SETUP
 LANGUAGE [ENGLISH]
 CAPTION [OFF]
 DTV SETUP

PICTURE

You can adjust the picture quality. (Refer to "Picture Adjustment" on page 15.)

CHANNEL SETUP

You can automatically scan the viewable channels and remove those that are undesired. (Refer to "Auto Channel Scan" on page 11.)

V-CHIP SETUP

You can set the viewing limitations. (Refer to "V-chip" on page 18.)

LANGUAGE

You can change the language (English, Spanish, French) displayed on the main menu. (Refer to "Language Selection" on page 11.)

CAPTION

You can change the display format for closed caption, which displays the dialogue of a TV program or other information across the TV screen. (Refer to "Closed Caption" on page 16.)

DTV SETUP

You can set the screen display or caption in the DTV mode.

(Refer to "DTV Closed Caption" on page 17.)

Language Selection You can choose English, Spanish, or French as your on-screen language. Press [MENU] to display the main menu. Use [CH \blacktriangle / \bigtriangledown] to select "LANGUAGE", then press [VOL \triangle] repeatedly to change the setting. e.g.) digital TV mode - TV SETUP -

PICTURE CHANNEL SETUP V-CHIP SETUP сн ► LANGUAGE [ENGLISH] CAPTION [OFF] or DTV SETUP ENGLISH ESPAÑOL



- Press [MENU] to exit.





Use [CH $\blacktriangle/ \bigtriangledown$] to select "CHANNEL SETUP", then press [VOL \triangle].



Use [CH \blacktriangle / \bigtriangledown] to select your desired preset type, then press [VOL \triangle].



- e.g.) digital TV mode - CHANNEL SETUP -ADD/DELETE(DTV) AUTO PRESET CH(DTV) AUTO PRESET CH(TV/DTV) AUTO PRESET CH(CATV) ! CATV takes approx. 50min
- When aerial antenna is connected, select "AUTO PRESET CH (TV)", "AUTO PRESET CH (DTV)" or "AUTO PRESET CH (TV/DTV)".
- When connected to CATV, select "AUTO PRESET CH (CATV)".
- Scanning and memorizing the channels automatically start.



- · When the scanning and memorizing are completed, the lowest memorized channel will be displayed.
- When you selected "AUTO PRESET CH (TV/DTV)", the lowest memorized analog channel will be displayed when the scanning and memorizing are completed. If there is no analog channel, the lowest memorized digital channel will be displayed.

- If you connect the cable system directly, contact the CATV installer.
- If you press [POWER] or [MENU] during "AUTO PRESET CH", the setting will be canceled.
- When no channel can be received by "AUTO PRESET CH", "NO TV SIGNALS" is displayed on the TV screen.
- Channel setting will be saved even if the power fails.
- If you have Spanish or French menus and need English, press [MENU]. Use [CH ▲/▼] to select "IDIOMA" or "LANGAGE". Press [**VOL**] to select "ENGLISH". Press [MENU] to remove the main menu.
- With regard only to the digital channel, even after the scanning is complete if you unplug the AC power cord before turning off the unit by pressing [POWER], the channel setting may be lost.

11 FN

☑ Channel Selection

Select channels by pressing [CH \blacktriangle / \bigtriangledown] or [the Number buttons].

- To select the memorized channels,
- use [CH \blacktriangle / \bigtriangledown] or [the Number buttons].
- To select the non-memorized channels,
- use [the Number buttons].

To use [the Number buttons]

тν

- When selecting analog channel 12



- When selecting digital channel 12-1 Be sure to press [-/ENT] before entering the minor channel number.

$1 \rightarrow 2 \rightarrow \bigcirc \rightarrow 1$

- Press [CHANNEL RETURN] to return to the previously viewed channel.
- When you select a channel larger than 100, press [+100] first. Then use [the Number buttons] to press the lower 2-digit numbers.

About digital TV broadcasting:

With its high definition broadcast, digital broadcasting far surpasses analog broadcasting in both its picture and sound quality.

What is the minor channel?

By using high compression technology, digital broadcasting offers a service that enables multiple signals to send simultaneously.

Therefore, you can select more than one program per major channel since digital broadcasting technology distinguishes between multiple channels broadcast by a single network.



→ : change automatically

 \Rightarrow : change manually by using [CH \blacktriangle / \blacksquare]

Although, you cannot watch the high definition TV (HDTV) program, the unit converts the HDTV signal down to the standard definition TV signal.

Note:

• "NO SIGNAL" will appear on the TV screen after the minor channel broadcast is over.

☑ <u>Volume Adjustment</u>

This section describes how to adjust the volume. The mute function, which turns the sound off and on, is also described.



- The volume bar will be displayed at the bottom of the TV screen when adjusting the volume.
- The volume bar display will automatically disappear in a few seconds.

Press [MUTE] to turn off and on the sound.



• "MUTE" is displayed on the TV screen for a few seconds.

Press [MUTE] again or [VOL $\triangle I \bigtriangledown$] to recover the original volume.

✓ Switching Each Mode

You can easily switch with the remote control to the DTV (ATSC) and TV (NTSC) or to access an external device when they are connected to the unit.

Press **[DTV/TV]** repeatedly to change the analog TV or the digital TV.



Press [INPUT SELECT] repeatedly to cycle through the input mode.



• To use the video input jack on the front of the unit, select "VIDEO".

☑ Screen Information

You can display the currently selected channel or other information such as the audio mode on the TV screen.

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In the analog mode, the current channel number is displayed.







- The current channel number is displayed at the topright corner of the TV screen.
- To clear the display, press [INFO] again.

DTV

In the digital mode, the detailed broadcasting information for the current channel such as program title, the program guides are displayed.

Press **[INFO]** repeatedly to cycle through the available display modes.





PROGRAM GUIDE

[Broadcasting Information]

- The following information is displayed.
- 1 channel number
- 2 broadcast station
- 3 program title
- 4 audio language

Press **[AUDIO]** repeatedly to cycle through the available audio languages.

("OTHER" is displayed when the audio language cannot be acquired, or the acquired languages are other than English, Spanish or French.)



[Program Guide]

• The program guide added to broadcasting information is displayed.



Note:

- When the program guide consists of more than 6 lines, use [VOL $\triangle / \bigtriangledown$] to scroll.
- "No description provided" is displayed when the program guide is not provided.
- While the program guide is displayed, the closed caption function is interrupted.
- In external input mode, the following screen is displayed;
 e.g.) When an external device is connected to VIDEO input jack.



- Available languages differ depending on the broadcast.
- The information display will automatically disappear in a few seconds when the closed caption is on.
- Pressing [AUDIO] does not control external audio source.

<u>TV Screen Display Mode</u> Sleep Timer The sleep timer can be set to automatically turn off the unit after an DTV incremental period of time. 2 types of display modes can be selected in the digital mode when the broadcasting station is sending 16:9 video signal. Press [SLEEP] to set the sleep timer. Press [MENU] to display the main menu. SLEEP Use [CH \land / \bigtriangledown] to select "DTV SETUP", then press SLEEP OFF **[VOL** △]. e.g.) digital TV mode • Sleep timer display appears on the TV screen. - TV SETUP -PICTURE or Press [SLEEP] repeatedly to change the amount of CHANNEL SETUP V-CHIP SETUP time until shut off. LANGUAGE [ENGLISH] CAPTION [OFF] DTV SETUP SLEEP SLEEP 120MIN. Use [CH \land / \checkmark] to select "DTV DISPLAY", then use • You can set the unit to turn off after a set period of **[VOL** $\triangle I \bigtriangledown$] to switch the desired TV aspect ratio. time (from 30 to 120 minutes). сь-• Each press of [SLEEP] will increase the time by 30 - DTV SETUP or minutes. ► DTV DISPLAY [LETTERBOX] • After set up, the sleep timer display can be called up DTVCC for checking by pressing [SLEEP]. **To Cancel the Sleep Timer** VOI or VOI A Press [SLEEP] repeatedly until "SLEEP OFF" is displayed on the TV screen. Note: • The sleep timer setting display will automatically disappear in a few seconds. • When you disconnect the unit from the AC outlet or when a power failure occurs, the sleep timer setting will be canceled. LETTERBOX ZOOM [LETTERBOX] Display the digital-supported program in full-screen. Black borders will spread in the upper and lower screen. [ZOOM] Enlarge and display the center area of the digitalsupported program. The right and left side of image will be cut off.



Note:

• You may not switch the display mode depending on the program.

Channel Add/Delete

The channel add/delete function lets you add the channel that was not added by the auto channel scan due to the reception status at the initial setting. You can also delete the unnecessary channels.



Press [MENU] to exit.

 The picture adjustment setting display will automatically disappear in a few seconds.

2

✓ Closed Caption

You can view closed captioning (cc) for TV programs, movies and news. Closed caption refer to text of dialogue or descriptions displayed on-screen for the hearing impaired.





2 Use [CH ▲/▼] to select "CAPTION", then use [VOL △/▽] to change the setting.



[Caption Mode] CAPTION1 (C1) and TEXT1 (T1);

are the primary caption and text services. The captioning or text is displayed in the same language as the program's dialogue (up to 4 lines of script on the TV screen, where it does not obstruct relevant parts of the picture).

CAPTION2 (C2) and TEXT2 (T2);

are rarely available and broadcasters use them only in special conditions, such as when "CAPTION1" or "TEXT1" is not available.

• There are 3 display modes according to programs:

Paint-on mode:	Displays input characters on the TV
	screen immediately.

Pop-on mode:	On	ce c	harac	ters	are sto	ored in
	me	mor	y, the	ey ar	e displ	ayed all at
	one	ce.				
• · · ·	.					

Roll-up mode: Displays the characters continuously by scrolling (max. 4 lines).

3 Press [MENU] to exit.



Note:

- To show the closed caption on your TV screen, broadcast signal must contain the closed caption data.
- Not all TV programs and commercials have the closed caption or all types of the closed caption.
- Captions and texts may not match the TV voice exactly.
- Changing channels may delay the closed caption for a few seconds.
- Adjusting or muting the volume may delay the closed caption for a few seconds.
- Abbreviations, symbols and other grammatical shortcuts may be used in order to keep pace with the on-screen action. This is not a problem with the unit.
- The caption or text characters will not be displayed while the main menu or functions display is shown.
- If a black box appears on the TV screen, this means that the closed caption is set to the text mode. To clear the box, select "C1", "C2" or "OFF".
- If the unit receives poor quality television signals, the captions may contain errors, or there might be no captions at all. Some possible causes of poor quality signals are:
 Automobile ignition noise
- Electric motor noise
- Weak signal reception
- Multiplex signal reception (ghosts or screen flutter)
- The unit retains the closed caption setting if the power fails.
- When the unit receives a special effects playback signal (i.e., Search, Slow and Still) from a VCR's video output channel (CH3 or CH4), the unit may not display the correct caption or text.

DTV In addition to the basic closed caption described on page 16, DTV has its You can change the style of DTV CC such as font, color or size, etc. own closed caption called DTVCC. Use this menu to change the settings for DTVCC. Press [MENU] to display the main menu. Press [MENU] to display the main menu. Use [CH \blacktriangle / \bigtriangledown] to select "DTV SETUP", Use [CH \land / \bigtriangledown] to select "DTV SETUP", then press [VOL \triangle]. 2 then press [VOL \triangle]. e.g.) digital TV mode e.g.) digital TV mode - TV SETUP -СН - TV SETUP сн or PICTURE CHANNEL SETUP CH or PICTURE V-CHIP SETUP CHANNEL SETUP [ENGLISH] LANGUAGE СН V-CHIP SETUR CAPTION [OFF] LANGUAGE [ENGLISH] DTV SETUP CAPTION [OFF] ► DTV SETUP 101 / VOLZ Use [CH \blacktriangle / \bigtriangledown] to select "DTVCC", then press [VOL \triangle]. e.g.) digital TV mode Use [CH \blacktriangle / \bigtriangledown] to select "DTVCC", then press [VOL \land]. 3 - DTV SETUP сн e.g.) digital TV mode DTV DISPLAY [LETTERBOX] or ▶ DTVCC - DTV SETUP сн DTV DISPLAY [LETTERBOX] or ► DTVCC СН /01 / Use [CH \land / \bigtriangledown] to select "CAPTION SERVICE", then use **[VOL** $\triangle I \bigtriangledown$] to change the setting. Use [CH \land / \bigtriangledown] to select "USER SETTING", DTVCC then use [**VOL** \triangle *I* \bigtriangledown] to set to "ON". ► CAPTION SERVICE [OFF] or USER SETTING Items in the dotted box are available only when OFF CAPTION SIZE [MIDDLE] "USER SETTING" is "ON". FONT STYLE STYLE1/8] [NONE] CHARACTER EDGE FORE OPACITY [SOLID] [WHITE] FORE COLOR ĊН - DTVCC BACK OPACITY [SOLID] CAPTION SERVICE VOL VOL / [SERVICE1/6] or or BACK COLOR BLACK USER SETTING [ON] [MIDDLE] CAPTION SIZE FONT STYLE STYLE1/8] CHARACTER EDGE [NONE] Select if you do not want OFF FORE OPACITY [SOLID] DTVCC. This is the default. FORE COLOR WHITE BACK OPACITY [SOLID] VOL or VOLA Select one of these before BACK COLOR IBI ACK **CAPTION SERVICE** changing any other item in SERVICE1~6 "CAPTION" menu. Choose "SERVICE1/6" under normal Use [CH \blacktriangle / \checkmark] to select an item, then use [VOL \triangle / \bigtriangledown] circumstances. to change the setting for the item. Press [MENU] to exit. DTVCC CAPTION SERVICE [SERVICE1/6] or USER SETTING [ON] CAPTION SIZE MENU FONT STYLE [STYLE1/8] CHARACTER EDGE [NONE] FORE OPACITY İSOLIDİ Note: FORE COLOR WHITE "CAPTION SERVICE" that you can switch differs depending BACK OPACITY ISOLIDI VOLA VOI or BACK COLOR IBLACK on the broadcast description.

DTVCC Style

DTV Closed Caption

☑ <u>V-chip</u>

V-chip reads the ratings for programs, then denies access to the programs which exceed the rating level you set. With this function, you can block certain programming inappropriate for children.

CAPTION SIZE

Closed captioning font size can be changed as below.

FONT STYLE

Font style of the displayed caption can be switched as below.

CHARACTER EDGE

Edge type of the displayed caption can be switched as below.

FORE COLOR, BACK COLOR

Font and background color of the displayed caption can be switched as below.

FORE OPACITY, BACK OPACITY

Text and background opacity of the displayed caption can be switched as below.

CAPTION SIZE	MIDDLE, LA	MIDDLE, LARGE, SMALL			
	STYLE1/8	Proportional font used in the menu screen			
	STYLE2/8	Monospaced with serifs			
	STYLE3/8	Proportionally spaced with serifs			
FONT STYLE	STYLE4/8	Monospaced with serifs			
	STYLE5/8	Proportionally spaced without serifs			
	STYLE6/8	Casual font type			
	STYLE7/8	Cursive font type			
	STYLE8/8	Small capitals			
CHARACTER EDGE	NONE, RAISED, DEPRESSED, UNIFORM, SHADOW LEFT, SHADOW RIGHT				
FORE OPACITY	SOLID, TRANSLUCENT, FLASH				
FORE COLOR	WHITE, BLACK, RED, GREEN, BLUE, YELLOW, MAGENTA, CYAN, TRANSPARENT				
BACK OPACITY	SOLID, TRAI	NSLUCENT, FLASH			
BACK COLOR), GREEN, BLUE, YELLOW, CYAN, TRANSPARENT, WHITE			

6 Press [MENU] to exit.



Press [MENU] to display the main menu.



2 Use [CH ▲/▼] to select "V-CHIP SETUP", then press [VOL △].



e.g.) digital TV mode



3 Use [the Number buttons] to enter the 4-digit numbers for your password.



- When you have not set up your password, enter 0000.
- When the password is correct, the following "V-CHIP SETUP" menu is displayed.

See the following description for setting each item.

e.g.) digital TV mode

- A…"A.TV Rating" ⇒ page 19
- B…"B. MPAA Rating" ⇒ page 20

C[…] "C. Change Password" ⇒ page 20



Note:

- "DOWNLOADABLE RATING" will be available when the unit receives a digital broadcast using the new rating system.
- When you select a rating and set it to "BLOCK", the higher ratings will be blocked automatically. The lower ratings will be available for viewing.
- When you set the highest rating to "VIEW", all ratings turn to "VIEW" automatically.
- If the "PROTECTED PROGRAM" message appears during your TV viewing, change to a channel that is not blocked. Then, you can access "V-CHIP SETUP" menu and change the setting to allow all TV viewing.
- To block any inappropriate programming, set your limits in both "TV RATING" and "MPAA RATING".
- The V-chip setting will be retained after a power failure (except the access code reverts to 0000).

4 Use [CH ▲/▼] to select "TV RATING", then press [VOL △].



e.g.) di	igital TV mode	
	- V - CHIP SETUP -	
DOWN	ting Rating Loadable Rating Ge Password	

5 Use [CH ▲/▼] to select the desired rating, then press [VOL △] repeatedly to switch between "VIEW" and "BLOCK".



► TV-Y	[VIEW]
TV-Y7 () [VIEW]
TV-G	[VIEW]
TV-PG () [VIEW]
TV-14 () [VIEW]
TV-MA () [VIEW]

Rating	Category	
TV-Y	Appropriate for all children	lower
TV-Y7	Appropriate for all children 7 and older	1
TV-G	General audience	
TV-PG	Parental guidance suggested	
TV-14	Unsuitable for children under 14	
TV-MA	Mature audience only	higher

[To Set the Sub Ratings]

As for TV-Y7, TV-PG, TV-14 or TV-MA, you can further set the sub ratings to block specific elements of programming. To set the sub ratings, follow the steps below.





► TV-Y TV-Y7 ()) TV-G TV-PG (DLSV) TV-14 (DLSV) TV-MA(LSV)	[BLOCK]
IV-MA(LSV)	[BLUUK]

2 Use [**CH** \blacktriangle / \checkmark], then press [**VOL** \triangle] repeatedly to change the setting.



•	e.g.) TV-PG	
	TV-PG	[BLOCK]
	►D L S V	[BLOCK] [BLOCK] [BLOCK] [BLOCK]

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Sub Rating Category Rating FV Fantasy Violence TV-Y7 v Violence TV-PG S Sexual Situation TV-14 TV-MA L Coarse Language D Suggestive Dialogue TV-PG, TV-14

6 Press [MENU] to exit.



Note:

- Blocked sub ratings will appear beside the main rating category in "TV RATING" menu.
- You cannot block a sub rating (D, L, S or V) if the main rating is set to "VIEW".
- Changing the category to "BLOCK" or "VIEW" automatically changes all its sub ratings to the same ("BLOCK" or "VIEW").

B. MPAA Rating

MPAA Rating is the rating system created by MPAA (Motion Picture Association of America).

4 Use [CH ▲/▼] to select "MPAA RATING", then press [VOL △].



e.g.) digital TV mode · v - CHIP SETUP -TV RATING ▶ MPAA RATING DOWNLOADABLE RATING CHANGE PASSWORD

5 Use [CH ▲/▼], then press [VOL △] repeatedly to change the setting.



|--|

Rating	Category						
G	General audience						
PG	Parental guidance suggested						
PG-13	Unsuitable for children under 13						
R	Restricted; under 17 requires accompanying parent or adult guardian						
NC-17	No one under 17 admitted						
Х	Mature audience only						

6 Press [MENU] to exit.



C. Change Password

Although the default code "0000" is supplied with the unit, you can set your own password.

4 Use [CH ▲/▼] to select "CHANGE PASSWORD", then press [VOL △].



5 Press **[the Number buttons]** on the remote control to enter the new 4-digit password.

• Enter password again in "CONFIRM PASSWORD" space.



6 Press [MENU] to exit.



Note:

- Make sure new password and confirm password must be exactly the same. If they are different, the space is cleared for reentering.
- Your password will be erased and return to the default (0000) when a power failure occurs. If you forget the password, unplug the power cord for 10 seconds to restore the password to 0000.

CONNECTION

☑ <u>Troubleshooting Guide</u>

If the unit does not perform properly when operated as instructed in this owner's manual, check the following chart once before calling for service.

Symptom	Remedy
No power	 Be sure the power cord is plugged in. If a power failure occurs, unplug the power cord for 30 minutes to allow the unit to reset itself.
No picture or sound	 Check if the power is on. Check the outlet connection. Check the antenna or cable connection to the main unit. When the outside antenna is used, check the wire condition and connection. View other TV channels. The problem might be limited to the broadcasting station. Turn off the power and wait for about 1 minute, then turn it on again.
No color	 Check the antenna or cable connection to the main unit. When the outside antenna is used, check the wire condition and connection. View other TV channels. The problem might be limited to the broadcasting station. Adjust the "COLOR" in the main menu.
Sound OK, picture poor	 Check the antenna or cable connection to the main unit. When the outside antenna is used, check the wire condition and connection. Electrical interference from nearby appliances may affect picture quality. Adjust "CONTRAST" and "BRIGHT" in the main menu. View other TV channels. The problem might be limited to the broadcasting station.
Picture distorted	 When the outside antenna is used, check the wire condition and connection. View other TV channels. The problem might be limited to the broadcasting station.
Weak picture	 Check the antenna or cable connection to the main unit. When the outside antenna is used, check the wire condition and connection. Adjust "CONTRAST" and "BRIGHT" in the main menu. View other TV channels. The problem might be limited to the broadcasting station.
Lines or streaks in picture	 When the outside antenna is used, check the wire condition and connection. Electrical interference from nearby appliances may affect picture quality. View other TV channels. The problem might be limited to the broadcasting station.
Picture blurred	 When the outside antenna is used, check the wire condition and connection. View other TV channels. The problem might be limited to the broadcasting station.
Ghosts in picture	 Check the antenna or cable connection to the main unit. When the outside antenna is used, check the wire condition and connection. Electrical interference from nearby appliances may affect picture quality. View other TV channels. The problem might be limited to the broadcasting station.
Bars on TV screen	 When the outside antenna is used, check the wire condition and connection. Electrical interference from nearby appliances may affect picture quality.
Picture rolls vertically	 When the outside antenna is used, check the wire condition and connection. Electrical interference from nearby appliances may affect picture quality. View other TV channels. The problem might be limited to the broadcasting station.
Different color marks on TV screen	 Move the unit away from nearby electric appliances. Turn off the power and wait 30 minutes before turning it back on. View other TV channels. The problem might be limited to the broadcasting station.
Poor reception on some channels	 Check the antenna or cable connection to the main unit. When the outside antenna is used, check the wire condition and connection. Electrical interference from nearby appliances may affect picture quality. View other TV channels. The problem might be limited to the broadcasting station.
Picture OK, sound poor	• View other TV channels. The problem might be limited to the broadcasting station.
No reception of digital signals	 Make sure auto channel scan has been completed. (Refer to "Auto Channel Scan" on page 11.) Auto channel scan must be completed when you set up the unit for the first time or move it to a location where previously unavailable channels are broadcast. The selected channel may not be broadcasting. When auto channel scan is interrupted and not completed, some channels will not be received. Make sure to complete. (Refer to "Auto Channel Scan" on page 11.)

Symptom	Remedy
The entered channel number changes automatically	 Many digital channels have alternate channel numbers. The unit changes the numbers automatically to the ones signifying the broadcasting stations. These are the numbers used for analog broadcasts.
Remote control does not work	 Check the antenna or cable connection to the main unit. Check the batteries of the remote control. Check if there is an obstacle between the infrared sensor window and the remote control. Test the signal output. If OK, then possible infrared sensor trouble. (Refer to "IR Signal Check" on page 22.) Aim the remote control directly at the infrared sensor window on the front of the unit. Reduce the distance to the unit. Re-insert the batteries with their polarities (+/- signs) as indicated.
	Problems with Closed Caption Feature
Misspelled captions are displayed.	 Closed captioning production companies may broadcast programs without correcting the misspelling in a live broadcast.
Captions are not entirely displayed, or captions are delayed behind the dialogue.	• Captions that are delayed a few seconds behind the actual dialogue are common for live broadcasts. Most captioning production companies can display a dialogue to a maximum of 220 words per minute. If a dialogue exceeds that rate, selective editing is used to insure that the captions remain up-to-date with the current TV screen dialogue.
Captions are displayed as a white box. No caption is displayed in the closed caption-supported program.	 Interference from buildings or weather conditions may cause captioning to be incomplete. Broadcasting station may shorten the program to insert advertisement. The closed caption decoder cannot read the information of the shortened program.
No caption is displayed when playing the videotape containing captions.	• The videotape may be illegally copied, or the caption signal might not have been read during copying.
Black box is displayed in the TV screen.	• The text mode is selected for caption. Select "C1", "C2" or "OFF".

Note:

• Some functions are not available in specific modes, but this is not a malfunction. Read the description in this owner's manual for more details on correct operations.

⊠ <u>Maintenance</u>

Cabinet Cleaning

- Wipe the front panel and other exterior surfaces of the unit with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the unit.
 Such chemicals may cause damage and discoloration to the exposed surfaces.

Panel Cleaning

Wipe the panel of the unit with a soft cloth. Before cleaning the panel, disconnect the power cord.

Servicing

Should your unit become inoperative, do not try to correct the problem yourself. There are no user serviceable parts inside. Turn off the unit, unplug the power cord and call our toll free customer support line found on the cover of this manual to locate an authorized service center.

Degaussing

A degaussing circuit in this unit clears up color errors on the TV screen. Color errors occur when there is any excess magnetism close to the unit. This circuit is designed to operate once when the unit is first plugged in. If you see minor color errors on the TV screen, unplug the unit for approximately 30 minutes. When you plug the unit again, the degaussing circuit will operate to clear errors. Take this step any time the TV screen is accidentally magnetized or when you move the unit.

IR Signal Check

If the remote control is not working properly, you can use an AM radio or digital camera (including a cellular phone with built-in camera) to see if it is sending out an infrared signal.

• With an AM radio:

Tune the AM radio station to a non-broadcasting frequency. Point the remote control towards it, push any button and listen. If the sound from the radio flutters, it is receiving the remote control's infrared signal.



With a digital camera



(including built-in cell phone cameras): Point a digital camera towards the remote control. Push any button on the remote control and look through the digital camera. If the infrared light appears through the camera, the remote control is working.

⊡ <u>Glossary</u>

ATSC

Acronym that stands for Advanced Television Systems Committee and the name of the digital broadcasting standards.

Aspect Ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as its height).

Dolby Digital

The system developed by Dolby Laboratories to compress digital sound. It offers stereo sound (2ch) or multi-channel audio.

HDTV (high definition TV)

Ultimate digital format that produces high resolution and high picture quality.

NTSC

Acronym that stands for National Television Systems Committee and the name of the current analog broadcasting standards.

Password

A stored 4-digit number that allows access to parental control features.

SDTV (standard definition TV)

Standard digital format that is similar to the NTSC picture quality.

☑ <u>Cable Channel Designations</u>

If you subscribe to cable TV, the channels are displayed as 1-135. Cable companies often designate channels with letters or letter-number combinations. Please check with your local cable company. The following is a chart of common cable channel designations.

CATV channel	5A	2	3	4	5	6	7	8	9	10	11	12	13	A	В	С	D	E	F	G	н
TV Display	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
CATV channel	Ι	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	W+1	W+2	W+3	W+4	W+5	W+6
TV Display	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
CATV channel	W+7	W+8	W+9	W+10	W+11	W+12	W+13	W+14	W+15	W+16	W+17	W+18	W+19	W+20	W+21	W+22	W+23	W+24	W+25	W+26	W+27
TV Display	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
CATV channel	W+28	W+29	W+30	W+31	W+32	W+33	W+34	W+35	W+36	W+37	W+38	W+39	W+40	W+41	W+42	W+43	W+44	W+45	W+46	W+47	W+48
TV Display	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
CATV channel	W+49	W+50	W+51	W+52	W+53	W+54	W+55	W+56	W+57	W+58	A-5	A-4	A-3	A-2	A-1	W+59	W+60	W+61	W+62	W+63	W+64
TV Display	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
CATV channel	W+65	W+66	W+67	W+68	W+69	W+70	W+71	W+72		W+74	W+75	W+76	W+77	W+78	W+79	W+80	W+81	W+82	W+83	W+84	W+85
TV Display	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126
CATV channel	W+86	W+87	W+88	W+89	W+90	W+91	W+92	W+93	W+94												
TV Display	127	128	129	130	131	132	133	134	135												

☑ General Specifications

 TV format:
 ATSC / NTSC-M TV standard

 Closed caption system:
 §15.122/FCC (digital CC)

 §15.122/FCC (digital CC)
 §15.119/FCC (analog CC)

 Channel coverage (ATSC/NTSC):
 Terrestrial

 VHF:
 2~13
 UHF:

 CATV
 2~13, A~W, W+1~W+94 (analog W+1~W+84), A-5~A-1, 5A

 Tuning system:
 Channel frequency synthesized tuning system

 Channel access:
 Direct access keyboard,

Programmable scan, and up/down

☑ Electrical Specification

Sound output: 1W, 80 x 1

Other Specifications

minais:	
Antenna input:	VHF/UHF/CATV
Video input:	RCA jack x 1
Audio input:	RCA jack x 1
Coaxial digital a	udio output:
-	RCA jack x1

75Ω unbalanced (F-type) 1Vp-p (75Ω) 500mV rms

500mVp-p (75Ω) (3.5mm)

Remote control:

Earphone:

Digital encoded infrared light system

Operating temperature: 41°F (5°C) to 104°F (40°C)

¹/₈ inches

Power requirements:

120V AC +/- 10%, 60Hz +/- 0.5%

Power consumption (maximum):

60W

Picture tube:	13 inches	
Dimensions:	W: 15.8 inches	(400mm)
	H: 13.4 inches	(340mm)
	D: 14.6 inches	(370mm)
Weight:	19.6 lbs.	(8.9kg)

- Designs and specifications are subject to change without notice and without our legal obligation.
- If there is a discrepancy between languages, the default language will be English.



This form describes the protection You will have under this Limited Warranty.

LIMITED WARRANTY PERIOD:

This Limited Warranty begins on the date of purchase of the Covered Product and continues for a period of six months.

WHAT IS COVERED:

Meijer will pay the cost of labor and repair or replacement parts in the event Your Covered Product fails to operate as a result of a mechanical or electrical failure caused by defects in workmanship and/or materials. A mechanical or electrical failure caused by a direct result of a power surge is also covered. Parts will be replaced with those of like kind and quality, and may be new or remanufactured. If the Covered Product cannot be repaired, if the cost of the repair exceeds the original purchase price or if parts are not available due to the age of the Covered Product or discontinued by the manufacturer, the Covered Product will be replaced with a product of similar features.

WHERE YOU ARE COVERED:

Coverage under this Limited Warranty is limited to the United States of America, including the District of Columbia. It does not include any Canadian or U.S. Territories including Guam, Puerto Rico, or U.S. Virgin Islands.

WHAT IS NOT COVERED:

- PRODUCTS NOT ORIGINALLY COVERED BY A MANUFACTURER'S WARRANTY;
- ITEMS THAT ARE STILL COVERED BY THE MANUFACTURER'S WARRANTY, REGARDLESS OF WHETHER THE MANUFACTURER HONORS SUCH WARRANTY; • PERIODIC CHECKUPS AND/OR PREVENTIVE MAINTENANCE AS DIRECTED BY THE MANUFACTURER EXCEPT AS PROVIDED HEREIN;
- INHERENT PRODUCT DEFECTS THAT ARE THE RESPONSIBILITY OF THE MANUFACTURER OR PARTS FAILURE DUE TO A MANUFACTURER'S RECALL;
- ANY AND ALL PRE-EXISTING CONDITIONS THAT OCCUR PRIOR TO THE EFFECTIVE DATE OF THIS LIMITED WARRANTY AND/OR ANY COSTS TO REPAIR ANY
 PRODUCT SOLD "AS-IS" INCLUDING BUT NOT LIMITED TO FLOOR MODELS, DEMONSTRATION MODELS, ETC;
- PARTS OR REPAIRS DUE TO NORMAL WEAR AND TEAR AND ITEMS NORMALLY DESIGNED TO BE PERIODICALLY REPLACED BY THE PURCHASER DURING THE COVERED PRODUCT'S LIFE, INCLUDING BUT NOT LIMITED TO BATTERIES, LIGHT BULBS, ETC.;
- DAMAGE FROM ACCIDENT, ABUSE, MISUSE, MISHANDLING, INTRODUCTION OF FOREIGN OBJECTS INTO THE COVERED PRODUCT, UNAUTHORIZED MODIFICATIONS OR ALTERATIONS TO A COVERED PRODUCT, FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS, AND EXTERNAL CAUSES INCLUDING THIRD PARTY ACTIONS, FIRE, THEFT, INSECTS, ANIMALS, EXPOSURE TO WEATHER CONDITIONS, WINDSTORM, SAND, DIRT, HAIL, EARTHQUAKE, FLOOD, WATER, ACTS OF GOD OR CONSEQUENTIAL LOSS OF ANY NATURE;
- LOSS OR DAMAGE CAUSED BY WAR, INVASION OR ACT OF FOREIGN ENEMY, HOSTILITIES, CIVIL WAR, REBELLION, RIOT, STRIKE, LABOR DISTURBANCE, LOCKOUT, OR CIVIL COMMOTION;
- INCIDENTAL, CONSEQUENTIAL OR SECONDARY DAMAGES OR DELAY IN RENDERING SERVICE UNDER THIS LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE COVERED PRODUCT IS AT AN AUTHORIZED SERVICE CENTER OR OTHERWISE AWAITING PARTS;
- ANY PRODUCT USED IN A COMMERCIAL SETTING OR RENTAL BASIS;
- FAILURES THAT OCCUR OUTSIDE OF THE 50 STATES OF THE UNITED STATES OF AMERICA, INCLUDING THE DISTRICT OF COLUMBIA;
- NONFUNCTIONAL OR AESTHETIC PARTS INCLUDING BUT NOT LIMITED TO PLASTIC PARTS, KNOBS, ROLLERS, BASKETS, SCRATCHES, PEELING AND DENTS; • UNAUTHORIZED REPAIRS AND/OR PARTS;
- COST OF INSTALLATION, SET-UP, DIAGNOSTIC CHARGES, REMOVAL OR REINSTALLATION OF THE COVERED PRODUCT, EXCEPT AS PROVIDED HEREIN;
- · ACCESSORIES USED IN CONJUNCTION WITH A COVERED PRODUCT;
- ANY LOSS OTHER THAN A COVERED BREAKDOWN OF THE COVERED PRODUCT;
- SERVICE WHERE NO PROBLEM CAN BE FOUND;
- BREAKDOWNS WHICH ARE NOT REPORTED WITHIN THE TERM OF THIS LIMITED WARRANTY;
- IMPROPER INSTALLATION OF COMPONENTS OR PERIPHERALS;
- CORRUPTION OF ANY RECORDING MEDIA, INCLUDING ANY PROGRAM, DATA OR SETUP INFORMATION RESIDENT ON ANY HARD DRIVES AND INTERNAL OR EXTERNAL REMOVABLE STORAGE DEVICES, AS A RESULT OF THE MALFUNCTIONING OR DAMAGE OF AN OPERATING PART, OR AS A RESULT OF ANY REPAIRS OR REPLACEMENT UNDER THIS LIMITED WARRANTY;
- DAMAGE TO CLOTHING;
- COLOR FADING OF PICTURE FOR ANY TELEVISION;
- BURNED-IN PHOSPHOR (INCLUDING IMAGE GHOSTING), PIXEL BURNOUT NOT IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

WHAT TO DO WHEN YOUR PRODUCT FAILS TO OPERATE:

Call the 24-hour customer service toll-free number at (866) 845-9436.

Many oversights, which are not covered under this Limited Warranty, can be due to simple circumstances such as the Covered Product not being switched on, being unplugged, or a fuse blown at the junction box. For a Covered Product that uses batteries as the primary power supply, or a remote control unit, please check that the batteries do not need replacing or recharging.

SERVICE DELIVERABLES:

There is no deductible required to obtain service for Your Covered Product.

OTHER PROVISIONS:

Limit of Liability:

The limit of liability under this Limited Warranty is the least of the cost of (1) the purchase price of the Covered Product excluding tax and delivery costs or (2) authorized repairs not to exceed the purchase price of the Covered Product or (3) replacement of the Covered Product with similar features or (4) reimbursement for authorized repairs or replacement. Upon replacement, there is no longer any obligation for the replaced product under this Limited Warranty.

Limitations of Implied Warranty:

All Implied Warranties which may arise under state law, including all Implied Warranties of Merchantability or Fitness for a particular purpose, are limited to the duration of this Warranty and do not cover incidental or consequential damages. Some states do not allow limitations on how long an Implied Warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to You. This Warranty gives You specific legal rights, and You may also have other rights which vary from state to state.

Transferability and Renewals:

This Limited Warranty is not transferable or renewable.

Subrogation:

If We pay for a loss, We may require You to assign Us Your rights of recovery against others. We will not pay for a loss if You impair these rights to recover. Your rights to recover from others may not be waived.

Arbitration:

In the event of a disagreement between You and Us concerning costs, either of us may make a written demand for arbitration. This must be done within sixty (60) days after the day You filed Your claim. Each of us will select an arbitrator. The two arbitrators will select an umpire. Each of us will pay the expenses of the arbitrator We select. The expenses of the umpire will be shared equally. Unless both of us agree otherwise, arbitration will take place in the county and state in which You live. Local rules apply. A majority decision will be binding.

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