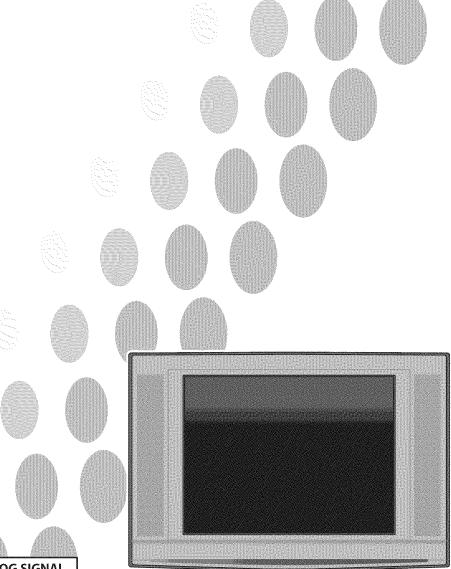
SYLVANIA

15" Digital / Analog LCDTV

Owner's Manual

LC155SL8





DOLBY DIGITAL

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

IF YOU NEED ADDITIONAL ASSISTANCE WITH SETUP OR OPERATING AFTER READING OWNER'S MANUAL, PLEASE CALL TOLL FREE 1-800-968-3429, OR VISIT OUR WEB SITE AT http://www.SylvaniaConsumerElectronics.com

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



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



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

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



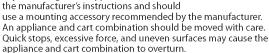
THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.



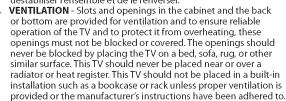
THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

Important Safeguards

- READ INSTRUCTIONS All the safety and operating instructions should be read before the appliance is operated.
- RETAIN INSTRUCTIONS The safety and operating instructions should be retained for future reference.
- 3. 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.
- 6. 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

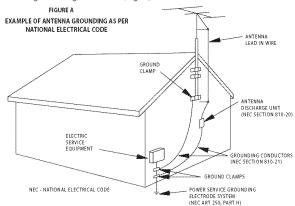


AMEUBLES - Cet appareil ne doit être placé que sur un meuble (avec ou sans roulettes) recommandé par le fabricant. Si vous l'installez sur un meuble à roulettes, déplacez les deux ensembles avec précaution. Un arrêt brusque, l'utilisation d'une force excessive et des surfaces irrégulières risquent de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



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.

- 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 ANTÉNNA 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.
- \$9. DAMAGE REQUIRING SERVICE Unplug this TV from the wall outlet and refer servicing to qualified 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.
 - c. 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.
 - e. If the TV has been dropped or damaged in any way. `
 - f. When the TV exhibits a distinct change in performance, this indicates a need for service.

- 20. 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.
- 21. SÁFÉTY CHECK Upon completion of any service or repairs to this 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.
- 23. WALL OR CEILING MOUNTING This TV product should be mounted to a wall or ceiling only as recommended by the manufacturer.

☑ Precautions

(19) LAMP IN LCD CONTAINS MERCURY, DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAW.

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 WARNINGThis 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.



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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 (1EMN22072)



remote control (NF600UD)



batteries $(AA \times 2)$



- 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.

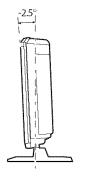
Description refers to:

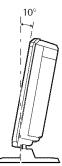
υτν: Digital TV operation
τν: Analog TV operation

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

☑ Tilt Stand

You can adjust the stand to change the angle of the TV $(-2.5^{\circ} \text{ to } 10^{\circ})$.





✓ Features

• DTV/TV/CATV

 You can use your remote control to select channels which are broadcast in digital, conventional analog, standard definition, and high definition formats. 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.

MTS/SAP Tuner

- Audio language can be selected from the remote control.

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.

Stereo Sound Function

• 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.

Component Video Input

- S-video Input
- AV Input
- Digital Audio Coaxial Output

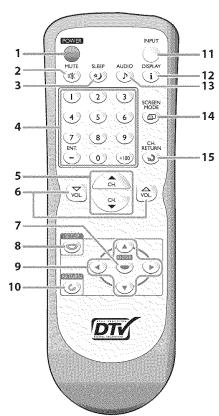
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☑ Remote Control Function



1. POWER button (p12)
Press to turn the unit on and off.

MUTE button (p15)Press to turn the sound on and off.

SLEEP button (p18)Press to activate the sleep timer.

4. Number buttons (p15)

- 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 (p15)
 Press to select channels and the external input mode.
- **6. VOL.** \triangle / ∇ **buttons** (p15) Press to adjust the volume.
- ENTER button (p12)
 Press to decide the command of setting when the main menu is displayed.
- 8. SETUP button (p13)
 Press to display the main menu.
- ¶/▶/▲/▼ buttons (p12)
 Press to move left/ right/ up/ down through the items.

10. RETURN button

Press to return to previous menu operation.

11. INPUT button (p16)

- Press to access connected an external device like a DVD player or VCR.
- Press to switch between the digital mode (DTV) and analog mode.

12. DISPLAY button (p17) Digital Mode (DTV)

 Press to display the channel information, signal type and TV setting.

Analog Mode (TV)

 Press to display the channel No., signal type and TV setting.

External Input Mode

 Press to display the external input mode, signal type and TV setting.

13. AUDIO button (p16) Digital Mode (DTV)

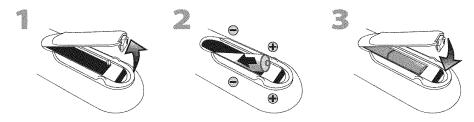
Press to select the audio language.

Analog Mode (TV)
Press to select the audio mode.

- 14. SCREEN MODE button (p18) Press to select aspect ratio available for the TV screen.
- **15. CH. RETURN button** (p15) Press to return to previous channel.

☑ Installing the Batteries

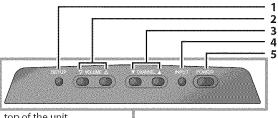
Install the batteries (AA x 2) matching the polarity indicated inside battery compartment of the remote control.



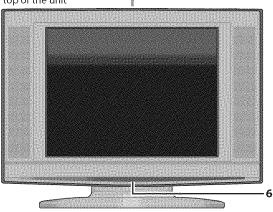
Battery Precautions:

- 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.

☑ Control Panel



top of the unit



SETUP button (p13)

Press to display the main menu.

2. **VOLUME** \triangle / ∇ buttons (p15)

Press to adjust the volume or move right(\triangle)/left(∇) through the main menu items.

3. CHANNEL ▲/ ▼ buttons (p15)

Press to select channels or move up/down through the main menu items.

4. INPUT button (p16)

- Press to access connected an external device like a DVD player or VCR.
- Press to switch between the digital mode (DTV) and analog mode.

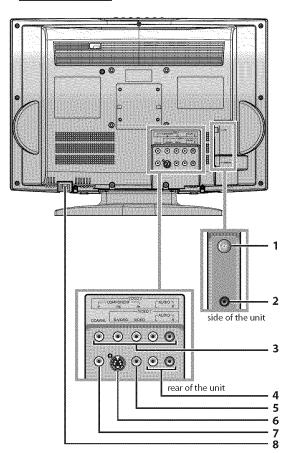
5. POWER button (p12)

Press to turn the unit on and off.

6. Infrared Sensor Window

Receives infrared rays transmitted from the remote control.

☑ Rear Panel



1. ANT jack (p9)

RF coaxial cable connection for your antenna or cable box.

2. HEADPHONE jack

Headphone connection for personal listening.

3. COMPONENT and AUDIO input jacks (p10)

Component video cable connection for an external device.

Use component video and audio output jacks of an external device.

4. AUDIO input jacks (p10)

RCA audio cable connection for an external device.

5. VIDEO input jack (p11)

RCA video cable connection for an external device.

6. S-VIDEO input jack (p10)

S-video cable connection for an external device.

7. COAXIAL (digital audio) output jack (p11)

Digital audio coaxial cable connection for a decoder or an audio receiver.

Use digital audio input jack of an external device.

8. AC power cord

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

☑ Attaching a Wall Mount Bracket (sold separately)

The following is a description of the method for attaching a wall mount to this unit.

When performing this operation, refer to the instruction manual included with the wall mount kit.

You need the following wall mount kit for this unit.

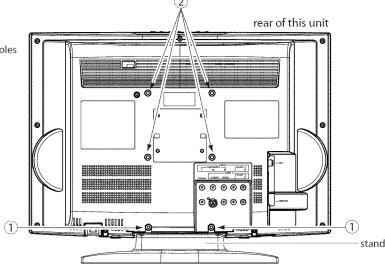
Vision Mount LCD Mounts / model number: VMFb

For more information, please visit CSAV website at www.csavinc.com

A CAUTION

- Any damage caused by incorrectly attempting to mount this unit is not covered under the terms of the manufacturers warranty.
- This LCD Color unit may be used only with VMFb manufactured by CSAV.
- Use with other wall mounts may result in instability causing possible injury.

* ① and ② indicate the position of the screw holes on this unit.



 Turn this unit over and place it screen-first onto a table which has a soft cloth draped over it.
 Place this unit in a way so that the stand hangs over the edge of the table.

Note:

- Make sure to use a table which can support the weight of this unit and is larger than this unit.
- Make sure the table is in a stable location.
- 2) Remove the stands from this unit.

Unscrew the M4 screws indicated by ① and remove the stand.

Please be careful with the unit after you remove the stand.

Note:

 The M4 screws and stand you have removed are necessary for reattachment at a later date.

Make sure to keep them in a safe place.

3) Attach the monitor plate to this unit using the 4 bolts included with the wall mount kit.

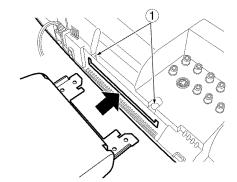
You do not need to use the lock washers for mounting this unit.

Note:

- Only use the screw holes indicated by ② for mounting this unit.
- For instructions on how to attach the monitor plate, refer to the instruction manual included with the wall mount kit.

4) Attach this unit to the wall.

- Refer to the instruction manual included with the wall mount kit when securing this unit to the wall.
- * If you want to attach the stand of this unit again, insert the stand slowly as illustrated below and drive M4 screws in the 2 threaded holes (①).





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 12.)

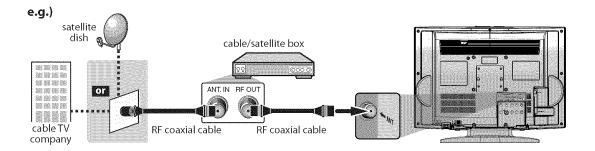
Note:

- 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 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

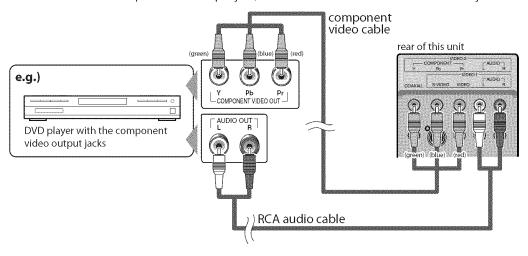
☑ External Device Connection

[Component Video Cable Connection]

Component video connection offers better picture quality for video devices connected to the unit.

Use a component video cable to connect the unit to external video devices equipped with component video output jacks.

If you connect to the unit's component video input jack, connect RCA audio cables to the audio L/R jacks of VIDEO2.



Note:

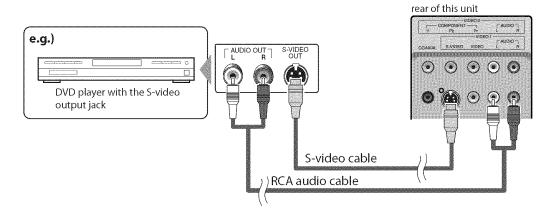
- This unit accepts 480i / 480p / simplified 1080i video signals.
- Simplified 1080i video signal differs to the original 1080i video signal because it is displayed after converted into 480p signal.

[S-video Cable Connection]

S-video connection offers good picture quality for video devices connected to the unit.

Use an S-video cable to connect the unit to external video devices equipped with S-video output jack.

If you connect to the unit's S-video input jack, connect RCA audio cables to the audio L/R jacks of VIDEO1.



Note:

• If you connect to the S-video jack and the video jack at the same time, the S-video connection will have priority.

CONNECTION

Cables not included.

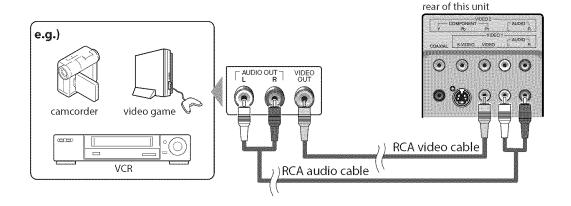
Please nurchase the necessary cables at your local store

[Video Connection]

Video connection offers standard picture quality for video devices connected to the unit.

If you connect to the unit's video input jack, connect RCA audio cables to the audio L/R jacks of VIDEO1.

When the audio jack of the video device is monaural, connect the RCA audio cable to the audio L input jack.

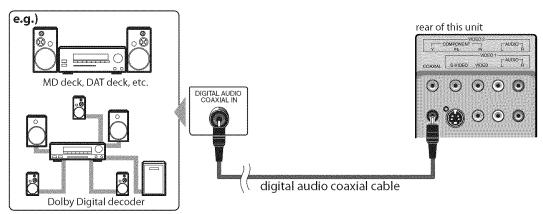


Note:

• If you connect to the S-video jack and the video jack at the same time, the S-video connection will have priority.

[Digital Audio Output Connection]

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



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.

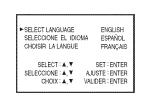
After making all the necessary connections, press [POWER] to turn on the unit.

POWER



- · This operation may take a few moments.
- Use [Cursor ▲/▼] to select the on-screen language from the choices on the right side of the TV screen. (ENGLISH / ESPAÑOL / FRANÇAIS)





- "INITIAL SETUP" menu on step 3 will be displayed in the selected language after you press [ENTER].
- Use [Cursor ▲ /▼] to select "AUTO PRESET CH(TV/DTV)" for TV channels or "AUTO PRESET CH(CATV)" for CATV channels, then press [ENTER].





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 [SETUP] 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 13.)
- You can cancel or exit the initial "AUTO PRESET CH" menu by pressing [SETUP].
- 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 several seconds after you turn on the unit, "HELPFUL HINTS" appears. Follow the instructions listed on the TV screen.

HELPFUL HINTS -

- 1. PLEASE CHECK TO SEE IF THE ANTENNA / CABLE / SATELLITE IS PROPERLY CONNECTED.
- PROPERLY CONNECTED. 2. DID YOU PERFORM "AUTO PRESET CH"?
- PLEASE REFER TO FRONT PAGE OF THE OWNER'S MANUAL OR REAR PANEL FOR SUPPORT LINE INFORMATION.

☑ Main Menu

This section describes the overview of the main menu displayed when you press [SETUP]. For more details, see the reference page for each item. The main menu consists of the function setting items below.

Press [SETUP].



e.g.) digital TV mode

TV SETUP TV SETUP

PICTURE
CHANNEL SETUP
V-CHIP SETUP
LANGUAGE
[ENGLISH]
CAPTION
[OFF]
BACK LIGHT
[BRIGHT]
COLOR TEMP.
[NORMAL]

PICTURE

You can adjust the picture quality. (Refer to "Picture Adjustment" on page 20.)

CHANNEL SETUP

You can automatically scan the viewable channels and remove those that are undesired. (Refer to "Auto Channel Scan" on page 13.)

V-CHIP SETUP

You can set the viewing limitations. (Refer to "V-chip" on page 24.)

LANGUAGE

You can change the language (English, Spanish, French) displayed on the main menu. (Refer to "Language Selection" on page 14.)

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 20.)

BACK LIGHT

You can set the desired brightness mode. (Refer to "Back Light Setting" on page 23.)

· COLOR TEMP.

You can adjust color temperature ("NORMAL", "WARM", "COOL").

(Refer to "Color Temperature" on page 23.)

• DTVCC

In addition to the basic closed caption described on page 20, DTV has its own closed caption called DTVCC.

(Refer to "DTV Closed Caption" on page 21.)

☑ Auto Channel Scan

If you switch wires (e.g., between antenna and CATV) or if you move the TV to a different area after the initial setting, or if you restore the DTV channel you deleted, you will need to perform auto channel scan.

Before you begin:

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

Press [SETUP] to display the main menu.



Use [Cursor ▲/▼] to select "CHANNEL SETUP", then press [ENTER].



e.g.) digital TV mode

TV SETUP PICTURE

CHANNEL SETUP

V-CHIP SETUP

LANGUAGE [ENGLISH]

CAPTION [OFF]

BACK LIGHT [BRIGHT]

COLOR TEMP. [NORMAL]

DTVCC

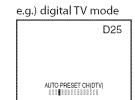
Use [Cursor ▲/▼] to select your desired preset type, then press [ENTER].

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.

Note:

- If you connect the cable system directly, contact the CATV installer.
- If you press [POWER] or [SETUP] during auto channel scan, the setting will be canceled.
- When no channel can be received by auto channel scan, "NO TV SIGNALS" will be displayed on the TV screen.
- · Channel settings will be saved even if the power fails.
- If you have Spanish or French menus and need English, press [SETUP]. Use [Cursor ▲/▼] to select "IDIOMA" or "LANGAGE". Press [ENTER] to select "ENGLISH". Press [SETUP] 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.

You can choose English, Spanish, or French as your on-screen language.

Press [SETUP] to display the main menu.



Use [Cursor ▲/▼] to select "LANGUAGE", then press [ENTER] repeatedly to change the setting.

e.g.) digital TV mode







Press [SETUP] to exit.



Watching tv

☐ Channel Selection

Select channels by pressing [CH. ▲/▼] or [the Number buttons].

- To select the memorized channels, use [CH. ▲/▼] or [the Number buttons].
- To select the non-memorized channels use **[the Number buttons]**.

To Use [the Number buttons]



- When selecting analog channel 12



DTV

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



- Press [CH. 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.

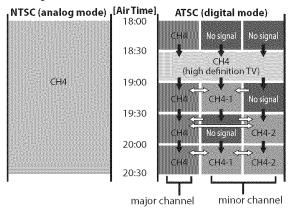
About digital TV broadcasting:

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

⇒ : change manually by using [CH. △/▼]

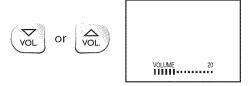
Note

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

☑ Volume Adjustment

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

Use **[VOL.** \triangle / ∇] to adjust the audio volume.



- 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.



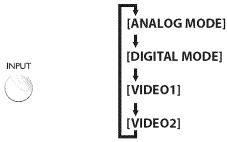
 "MUTE" is displayed on the TV screen for a few seconds.

Press [MUTE] again or [VOL. \triangle / ∇] 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 [INPUT] repeatedly to cycle through analog TV, digital TV, VIDEO1 and VIDEO2.



- To use the video or S-video input jack on the unit, select "VIDEO1".
- To use the component video input jack on the unit, select "VIDEO2".

Note:

 When you switch the analog mode to the digital mode, it may take a while until the digital channel selection is completed. The following TV screen is displayed while switching the mode.



MTS System

MTS (multichannel television sound) system is the method of encoding 3 additional channels of audio into an NTSC-format audio carrier. This section describes how to switch the audio in the analog mode and how to switch the audio language in the digital mode.

ΤV

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





MAIN : Outputs main-audio

SAP : Outputs second audio program

MONO : Outputs mono-audio

DTV

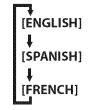
Press [AUDIO] to display the currently selected language and the number of available languages.





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





- Available languages differ depending on the broadcast.
- The information display will automatically disappear in 1 minute.

Note:

• Pressing [AUDIO] does not control external audio device.

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



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

Press [DISPLAY].





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



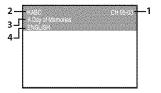
In the digital mode, the detailed broadcasting information for the current channel such as program title, program guides are displayed.

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



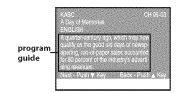
[Broadcasting Information]

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



- When the program guide consists of more than 6 lines, use [Cursor ▲/▼] 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 VIDEO1 input jack.



- Available languages differ depending on the broadcast.
- The information display will automatically disappear in 1 minute.
- Pressing [AUDIO] does not control external audio device.

☑ TV Screen Display Mode

DTV

2 types of display modes can be selected in the digital mode when the broadcasting station is sending 16:9 video signal.

Press [SCREEN MODE] repeatedly to switch the TV aspect ratio.

SCREEN MODE







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.

The sleep timer can be set to automatically turn off the unit after an incremental period of time.

Press [SLEEP] to set the sleep timer.





- Sleep timer display appears on the TV screen.
- Press [SLEEP] repeatedly to change the amount of time until shut off.





- You can set your unit to turn off after a set period of time (from 30 to 120 minutes).
- Each press of [SLEEP] will increase the time by 30 minutes.
- After set up, the sleep timer display can be called up for checking by pressing [SLEEP].

To Cancel the Sleep Timer

Press [SLEEP] repeatedly until "SLEEP OFF" is displayed on the TV screen.

- The sleep timer setting display will automatically disappear in 10 seconds.
- When you disconnect the unit from the AC outlet or when a power failure occurs, the sleep timer setting will be canceled.

OPTIONAL SETTING

☑ 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 [SETUP] to display the main menu.



Use [Cursor ▲/▼] to select "CHANNEL SETUP", then press [ENTER].



- TV SETUP -PICTURE



or







► CHANNEL SETUP
V-CHIP SETUP
LANGUAGE [ENGLISH]
CAPTION [OFF]
BACK LIGHT [BRIGHT]
COLOR TEMP. [NORMAL]

Use [Cursor ▲/▼] to select "ADD/DELETE(DTV)" or "ADD/DELETE", then press [ENTER].



01



e.g.) digital TV mode

- CHANNEL SETUP
► ADD/DELETE(DTV)

AUTO PRESET CH(TV/DTV)

AUTO PRESET CH(TV/DTV)

AUTO PRESET CH(CATV)

! CATV takes approx. 50min.

Select the channel you want to add or delete. (Refer to "Channel Selection" on page 15.)

e.g.) digital TV mode



ADD/DELETE : DTV

Suse [Cursor
✓/ >] to select "ADD" or "DELETE".



or



- To add or delete another channels, repeat steps 4-5.
- Color of channel number displayed at the right top of the TV screen indicates;
- Blue: The selected channel will be added.
- Red: The selected channel will be deleted.

Press [SETUP] to exit.



- "ADD/DELETE(DTV)" or "ADD/DELETE(TV)" menu will disappear automatically in about 10 seconds.
- In the digital mode (DTV), you can add or delete channels only for major channel.
- Once you delete a DTV channel, you cannot recover the channel without performing auto channel scan again. (Refer to "Auto Channel Scan" on page 13.)

☑ Picture Adjustment

You can adjust brightness, contrast, color, tint and sharpness.

Press [SETUP] to display the main menu.



Use [Cursor ▲ /▼] to select "PICTURE", then press [ENTER].



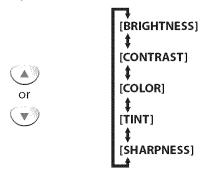




e.g.) digital TV mode

TV SETUP -PICTURE CHANNEL SETTIP V-CHIP SETUP LANGUAGE (ENGLISH) CAPTION BACK LIGHT [BRIGHT] COLOR TEMP [NORMAL]

Use [Cursor ▲ /▼] to select the picture quality type you want to adjust.



Within 5 seconds, use [Cursor ◀ / ▶] to adjust the quality.





	Cursor ⋖	Cursor ▶
BRIGHTNESS	to decrease brightness	to increase brightness
CONTRAST	to decrease contract	to increase contract
COLOR	to decrease color	to brighten color
TINT	to add purple	to add green
SHARPNESS	to make soft	to make clear

Press [SETUP] to exit.



Note:

 The picture adjustment setting display will automatically disappear in 10 seconds.

☑ 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.

Press [SETUP] to display the main menu.



Use [Cursor ▲ /▼] to select "CAPTION", then press [ENTER] repeatedly to change the setting.

e.g.) digital TV mode

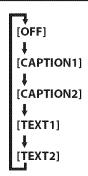
TV SETUP -

PICTURE



FENGLISHI PRIGHTI





[Caption Mode] **CAPTION1** and **TEXT1**;

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 and TEXT2;

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: Once characters are stored in

memory, they are displayed all at

Roll-up mode: Displays the characters continuously

by scrolling (max. 4 lines).

Press [SETUP] 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 TEXT mode. To clear the box, select "CAPTION 1", "CAPTION 2" 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.

☑ DTV Closed Caption



In addition to the basic closed caption described on page 20, DTV has its own closed caption called DTVCC. Use this menu to change the settings for DTVCC.

Press [SETUP] to display the main menu.



2 Use [Cursor ▲/▼] to select "DTVCC", then press [ENTER].



or





e.g.) digital TV mode

TV SETUP P
PICTURE
CHANNEL SETUP
VCHIP SETUP
LANGUAGE
[ENGLISH]
CAPTION [OFF]
BACK LIGHT [BRIGHT]
COLOR TEMP. [NORMAL]

▶ DTVCC

Use [Cursor ▲/▼] to select "CAPTION SERVICE", then press [ENTER] repeatedly to change the setting.



- DTVCC
► CAPTION SERVICE [SERVICE1/6]
USER SETTING [ON]
CAPTION SIZE [MIDDLE]
FONT STYLE [STYLE1/8]
CHARACTER EDGE [NONE]
FORE OPACITY [SOLID]
BACK COPACITY [SOLID]
BACK COLOR [WHITE]
BACK COLOR [MILK]

	OFF	Select if you do not want DTVCC. This is the default.
CAPTION SERVICE	SERVICE1~6	Select one of these before changing any other item in "CAPTION" menu. Choose "SERVICE1/6" under normal circumstances.

Press [SETUP] to exit.



Note:

 "CAPTION SERVICE" that you can switch differs depending on the broadcast description.

☑ DTVCC Style



You can change the style of DTV CC such as font, color or size, etc.

Press [SETUP] to display the main menu.



Use [Cursor ▲ /▼] to select "DTVCC", then press [ENTER].









e.g.) digital TV mode

- TV SETUP PICTURE
CHANNEL SETUP
V-CHIP SETUP
LANGUAGE [ENGLISH]
CAPTION [OFF]
BACK LIGHT [BRIGHT]
COLOR TEMP. [NORMAL]
▶ DTVCC

- Use [Cursor ▲/▼] to select "USER SETTING", then press [ENTER] repeatedly to set to "ON".
 - Items in the dotted box are available only when "USER SETTING" is "ON".



OI





- DTVCC -	
CAPTION SERVICE	[SERVICE1/6]
► USER SETTING	[ON]
CAPTION SIZE	[MIDDLE]
FONT STYLE	[STYLE1/8]
CHARACTER EDGE	[NONE]
FORE OPACITY	[SOLID]
FORE COLOR	[WHITE]
BACK OPACITY	[SOLID]
BACK COLOR	[BLACK] 1

Use [Cursor ▲/▼] to select an item, then press [ENTER] repeatedly to change the setting for the item.







Γ	- DTVCC -	
	CAPTION SERVICE	[SERVICE1/6]
	USER SETTING	[ON]
	 CAPTION SIZE 	[MIDDLE]
	FONT STYLE	[STYLE1/8]
	CHARACTER EDGE	[NONE]
	FORE OPACITY	[SOLID]
	FORE COLOR	[WHITE]
	BACK OPACITY	[SOLID]
1	DACK COLOD	TD3 ACIZT

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

Pres

Press [SETUP] to exit.



☑ Back Light Setting

You can set the desired brightness mode.

Press [SETUP] to display the main menu.



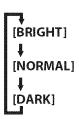
Use [Cursor ▲ /▼] to select "BACK LIGHT", then press [ENTER] repeatedly to change the setting.





e.g.) digital TV mode





Press [SETUP] to exit.



You can adjust color temperature of the TV screen.

Press [SETUP] to display the main menu.

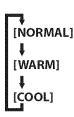


Use [Cursor ▲ /▼] to select "COLOR TEMP.", then press [ENTER] repeatedly to change the setting.



e.g.) digital TV mode





Press [SETUP] to exit.



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.

Press [SETUP] to display the main menu.



Use [Cursor ▲ /▼] to select "V-CHIP SETUP", then press [ENTER].



e.g.) digital TV mode



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.

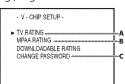
e.g.) digital TV mode

A···"A. TV Rating" ⇒ page 24 B···"B. MPAA Rating"

⇒ page 25

C···"C. Change Password"

⇒ page 26



Note:

- "DOWNLOADABLE RATING" will be available when the unit receivers 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 RÁTING" and "MPÁA RATING".
- The V-chip setting will be retained after a power failure (except the access code reverts to 0000).

As TV Railing

Use [Cursor ▲ /▼] to select "TV RATING", then press [ENTER].

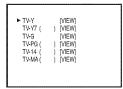


e.g.) digital TV mode



 Use [Cursor ▲ / ▼] to select the desired rating, then press [ENTER] repeatedly to switch between "VIEW" and "BLOCK".





Press [SETUP] to exit.

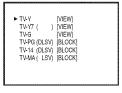


[To Set the Sub Ratings]

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.

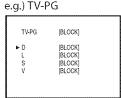
1. Use [Cursor ▲/▼] to select the desired main rating, then press [ENTER] twice to show its sub ratings.





2. Use [Cursor \triangle/∇], then press [ENTER] repeatedly to change the setting.





B. MBAA Raine

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

Rating	Category	
TV-Y	Appropriate for all children	lower
TV-Y7	Appropriate for all children 7 and older	
TV-G	General audience	
TV-PG	Parental guidance suggested	
TV-14	Unsuitable for children under 14	No.
TV-MA	Mature audience only	higher

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

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").

Use [Cursor ▲/▼] to select "MPAA RATING", then press [ENTER].





e.g.) digital TV mode

· V · CHIP SETUP -TV RATING ➤ MPAA RATING DOWNLOADABLE RATING CHANGE PASSWORD

 Use **[Cursor ∕ /]**, then press **[ENTER]** repeatedly to change the setting.







[VIEW] [VIEW] [VIEW] [BLOCK] [BLOCK] G PG PG-13 NC-17 X

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

Press [SETUP] to exit.





C. Change Password

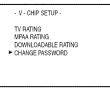
Although the default code "0000" is supplied with the unit, you can set your own password.

Use [Cursor ▲ /▼] to select "CHANGE PASSWORD", then press [ENTER].





e.g.) digital TV mode



- Press [the Number buttons] on the remote control to enter the new 4-digit password.
 - Enter password again in "CONFIRM PASSWORD." space.



(0)



Press [SETUP] to exit.



- 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.

ROUBLESHOOTING

If the unit does not perform properly when operated as instructed in this operation 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 "BRIGHTNESS" 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 "BRIGHTNESS" 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 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 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	 Electrical interference from nearby appliances may affect picture quality. 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 13). 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 13).

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 29.) 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.	• "Text" mode is selected for caption. Select "CAPTION1", "CAPTION2" or "OFF".

Note:

- The LCD panel is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a fixed point of blue, green or red. This is not to be considered a defect in the LCD screen.
- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this operation manual for more details on correct operations.

☑ Maintenance

Cabinet Cleaning

- · Wipe the front panel and other exterior surfaces of the unit with a soft doth 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.

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.





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).

Component Video

This is a video signal format that conveys each of 3 principal colors of light (red, blue and green) through different signal lines. This allows the viewers to experience picture colors as original as it is. There are several signal formats, including Y / Pb / Pr and Y / Cb / Cr.

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.

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.

SAP (secondary audio program)

Second-audio channel delivered separately from main-audio channel. This audio channel is used as an alternate in bilingual broadcasting.

SDTV (standard definition TV)

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

S-video

Offers higher quality images by delivering each signal, color (c) and luminance (y) independently of each other through separate cables.

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	Α	В	C	D	Е	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	1	J	К	L	M	N	0	Р	Q	R	S	T	U	٧	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+73	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) §15.119/FCC (analog CC)

Channel coverage (ATSC/NTSC):

Terrestrial VHF: 2~13 UHF: 14~69

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

Terminals:

Antenna input: VHF/UHF/CATV 75Ω unbalanced (F-type)

S-video input: Mini DIN 4-pin jack x 1 Y: 1Vp-p (75Ω)

C: 286mVp-p (75Ω)

Video input: RCA jack x 1 1Vp-p (75Ω) Audio input: RCA iack (L/R) x 4 2V rms

(input impendance: more than 22kΩ)

Component video input:

RCA jack x 3 **Y:** 1Vp-p (75Ω)

Pb: 700mVp-p (75Ω) Pr: 700mVp-p (75Ω)

Coaxial digital audio output:

RCA jack x1

 $500 \text{mVp-p} (75 \Omega)$

Stereo sound system speaker

☑ Electrical Specification

Sound output: 1W,80x2

☑ Other Specifications

Remote control: Digital encoded infrared light system

Operating temperature:

41°F (5°C) to 104°F (40°C)

Power requirements:

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

Power consumption (maximum):

LCD: 15 inches XGA panel (1,024 x 768 pixels)

Dimensions: W: 181/2 inches (470mm)

> H: 141/4 inches (362mm)D: 61/2 inches (165mm)

Weight: 8.4 lbs. (3.8kg)

· 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.

SYLVANIALIMITED WARRANTY

FUNAI CORP. will repair this product, free of charge in the USA in the event of defect in materials or workmanship as follows:

DURATION:

PARTS: FUNAI CORP. will provide parts to replace defective parts without charge for one (1) year

from the date of original retail purchase. Certain parts and LCD image burn-in are excluded

from this warranty.

LABOR: FUNAL CORP. will provide the labor without charge for a period of ninety (90) days from the

date of original retail purchase.

LIMITS AND EXCLUSIONS:

THIS WARRANTY IS EXTENDED ONLY TO THE ORIGINAL RETAIL PURCHASER. A PURCHASE RECEIPT OR OTHER PROOF OF ORIGINAL RETAIL PURCHASE WILL BE REQUIRED TOGETHER WITH THE PRODUCT TO OBTAIN SERVICE UNDER THIS WARRANTY.

This warranty shall not be extended to any other person or transferee.

This warranty is void and of no effect if any serial numbers on the product are altered, replaced, defaced, missing or if service was attempted by an unauthorized service center. This limited warranty does not apply to any product not purchased and used in the United States.

This warranty only covers failures due to defects in material or workmanship which occur during normal use. It does not cover damage which occurs in shipment, or failures which are caused by repairs, alterations or products not supplied by FUNAI CORP, or damage, which results from accident, misuse, abuse, mishandling, misapplication, alteration, faulty installation, improper maintenance, commercial use such as hotel, rental or office use of this product, or damage which results from fire, flood, lightning or other acts of God.

THIS WARRANTY DOES NOT COVER PACKING MATERIALS, ANY ACCESSORIES (EXCEPT REMOTE CONTROL), ANY COSMETIC PARTS, COMPLETE ASSEMBLY PARTS, DEMO OR FLOOR MODELS.

FUNAL CORP. AND ITS REPRESENTATIVES OR AGENTS SHALL IN NO EVENT BE LIABLE FOR ANY GENERAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR OCCASIONED BY THE USE OF OR THE INABILITY TO USE THIS PRODUCT. THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND OF ALL OTHER LIABILITIES ON THE PART OF FUNAL, ALL OTHER WARRANTIES INCLUDING THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED BY FUNAL AND ITS REPRESENTATIVES IN THE UNITED STATES.

ALL WARRANTY INSPECTIONS AND REPAIRS MUST BE PERFORMED BY AN AUTHORIZED SERVICE CENTER. THIS WARRANTY IS ONLY VALID WHEN THE UNIT IS CARRIED-IN TO AN AUTHORIZED SERVICE CENTER.

THE PRODUCT MUST BE ACCOMPANIED BY A COPY OF THE ORIGINAL RETAIL PURCHASE RECEIPT. IF NO PROOF OF PURCHASE IS ATTACHED, THE WARRANTY WILL NOT BE HONORED AND REPAIR COSTS WILL BE CHARGED.

IMPORTANT:

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE. IF, AT ANY TIME DURING THE WARRANTY PERIOD, YOU ARE UNABLE TO OBTAIN SATISFACTION WITH THE REPAIR OF THIS PRODUCT, PLEASE CONTACT FUNAI CORP.

ATTENTION:

FUNAI CORP. RESERVES THE RIGHT TO MODIFY ANY DESIGN OF THIS PRODUCT WITHOUT PRIOR NOTICE.

WARRANTY STATEMENT REGARDING NON AUTHORIZED REPAIRS:

To obtain warranty service, you must take the product, or deliver the product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to any AUTHORIZED SERVICE CENTER. FUNAI CORP. will not reimburse you for any service done by unauthorized service providers without prior written approval.

To locate your nearest AUTHORIZED SERVICE CENTER or for general service inquiries, please contact us at:

FUNAI CORPORATION Customer Service **Tel: 1-800-968-3429**

http://www.SylvaniaConsumerElectronics.com

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