Thank you for choosing Magnavox.

Need help fast? Read your Quick Guide and/or Owner's Manual first for quick tips that make using your Magnavox product more enjoyable.

If you have read your instructions and still need assistance, you may access our online help at www.funai-corp.com or call 1-800-605-8610 while with your product.

Instrucciones en español incluidas.

Before using

The serial number of this product may be found on the bottom of the unit. You should record the number and other vital information here and retain this book as a permanent record. Serial numbers are not kept on file.

<table>
<thead>
<tr>
<th>Date of Purchase</th>
<th>Dealer Phone No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dealer Purchase from</td>
<td>Model No.</td>
</tr>
<tr>
<td>Dealer Address</td>
<td>Serial No.</td>
</tr>
</tbody>
</table>

I WARNING: To reduce the risk of fire or electric shock, do not expose this appliance TO RAIN OR MOISTURE.
TB100MW9 DTV Digital to Analog Converter (Set Top Box)

The caution marking is located on the bottom of the cabinet.

Important Safeguards

1. 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.

3. Heed Warnings-All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions-All operating and use instructions must be followed.

5. Cleaning-Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol sprays. Use a damp cloth for cleaning. Use a柔软绒布 if available.

6. Attachments-Do not use attachments not recommended by the manufacturer, as they may cause hazards.

7. Water and Moisture-Do not use this product near water-

8. Power Sources-This product should be operated only from the type of power source indicated on the marking label.

9. Grounding or Polarization-This product is equipped with a polarized alternating-current 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, reverse 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.

10. 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. Pinched power-supply cords may result in a risk of electrical shock or fire.

11. Outdoor Antenna Grounding-If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

12. Servicing-Refer servicing to qualified personnel. Service should only be performed by a qualified service technician. Call your dealer for information or replacement of the polarized plug.

13. Mounting-This product should be mounted only for the purpose of the polarized plug.

14. General precautions-See the manufacturer's instructions and should use a mounting electrician to replace your obsolete outlet. Do not defeat accessory recommended by the manufacturer.
13. Outdoor Antenna Grounding—If an outside antenna or cable system is connected to this product, 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 product 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 this product 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 or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

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 product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on this product.

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

19. Damage Requiring Service—Unplug this product 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 this product.
   c. If this product has been exposed to rain or water.
   d. If this product 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 this product to its normal operation.
   e. If this product has been dropped or damaged in any way.
   f. When this product exhibits a distinct change in perform-ance—this indicates a need for service.

20. Replacement Parts—When replacement parts are required, be sure the service technician has used 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. Safety Check—Upon completion of any service or repairs to this product, ask the service technician to perform routine safety checks to determine that this product is in proper operating condition.

22. Heat—This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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.

BEFORE USING

Precautions

Location
For safe operation and satisfactory performance of this product, 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

IMPORTANT COPYRIGHT INFORMATION
Unauthorized recording or use of broadcast television programming, video tape, film or other copyrighted material may violate applicable copyright laws. We assume no responsibility for the unauthorized duplication, use or other acts which infringe upon the rights of copyright owners.
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 unit in a horizontal position.
• Avoid locations subject to strong vibration.
• Do not place this product near strong magnetic fields.
• Avoid moving this product to locations where temperature differences are extreme.

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 wall outlet. Grasp it by the plug.
• If by accident, water is spilled on your unit, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.
• Do not put your fingers or objects into this product cassette holder.
• Do not place anything directly on top of the unit.

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

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.

BEFORE USING

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BEFORE USING

Digital broadcasting is the most advanced format of broadcasting, employing a new technology for compression of audio and video signals which allows broadcasters to transmit digital signals using existing terrestrial systems. Due to this dramatic progress, new features of broadcasting service such as widescreen formats and higher definition provide ways to experience the full benefits of digital transmission.

Digital broadcasting overcomes problems experienced with analog TV such as ghosting, "snowy" pictures and interference. Digital TV has a dramatic effect on these problems by its very nature. In addition, the number of channels available has dramatically increased, so that you can make the best choice among the variety of programs anytime with a clear picture.

Your current TV can be used for its entire service life. This STB (Set Top Box) will now make this possible.

• Capable of receiving digital (ATSC*) broadcasts
• Capable of receiving Standard Definition TV (SDTV*) broadcasts

ATSC - Advanced Television Systems Committee: This group is working to establish the standards for digital TV broadcasting and digital TV equipment for both SDTV and HDTV.

SDTV - Standard Definition Television: SDTV signal formats are 480p and 480L. SDTV provides lower resolution, yet presents a very sharp, clear picture. Lower resolution allows broadcasters to transmit multiple programs per channel.

• Alternative languages for OSD (English, Spanish and French)
• Sub-channels* through a single digital channel

Sub-Channel - The compression of audio and video signals enables each digital channel to carry different programs on sub-channels. Select them by simply pressing [CH +/-] or the number buttons on your remote control when available.

Product that have earned ENERGY STAR® are designed to protect the environment through superior energy efficiency.
BEFORE USING

1 STANDBY-ON button: Turns STB on and off
2 Number buttons: Input channel numbers and passwords.
3 SETUP button: Enters or quits "SETUP" menu.
4 STILL button: Pause the image while you continue to listen to the audio.
5 Navigation buttons ▲ / ▼ / ▶ / ◀: Moves the highlight up, down, left or right.
6 RETURN button: Returns to the previous screen in "SETUP" menu or exits from the menu.
7 CH + / — buttons: Change the channels up or down.
8 ALT. CH: Returns to the channel you were last watching.
9 DISPLAY button: Displays information on the channel banner or clears the banner.
10 EPG button: Displays or exits the Electronic Program Guide.
11 AUDIO button: Selects alternative audio languages (if available).
12 OK button: In "SETUP" menu, press to enter your selection.

To operate this STB with a universal remote, check the instruction manual for remote and find Magnavox brand STB code. If you do not find the code or the code does not work, try to use Sylvania brand STB code instead.

1 Remote control sensor: Receives signals from your remote control so you can control the STB from a distance.
2 POWER indicator: Turns green when the main power is on and you are operating on the remote control. Turns yellow on standby.

1 Main Power: Turns STB's main power on and off. You can control the STB from a distance.

Check the following accessories when unpacking the

1 Unsnap the battery cover from the back of the remote control.

BEFORE USING

1 Remote control sensor: Receives signals from your remote control so you can control the STB from a distance.
2 POWER indicator: Turns green when the main power is on and you are operating on the remote control. Turns yellow on standby.

1 AC power cord: Connect to AC outlet.
2 AUDIO OUT jacks (Right (red) / Left (white)): Connect your TV, stereo system or VCR with standard audio cables.
3 VIDEO OUT jack (yellow): Connect your TV or VCR with a standard video cable.
4 ANT. IN jacks: Connect an antenna.
5 ANT. OUT jack: Connect to the Aerial jack on your TV to output the signal.
Remote control: NA383UD

2 AA batteries

2 Install two AA batteries making sure the polarity (+/-) is correct.

Owner's manual: 1VMN24075

NOTE:
- When replacing batteries, replace them in pairs.

RF cable: WPZ0901TM002

3 Snap the battery cover back.

CAUTION:
- Do not mix battery types (alkaline and manganese, or old ones and new ones).
- Do not recharge, short-circuit, heat, burn or disassemble batteries.

A 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.

CONNECTIONS

Connecting an Antenna

Basic Connection:

Connecting to Cable Box (optional): Also:

- Refer to following pages for the connection to TV.
Supplied cables used in this connection are as follows:

- RF cable xl

Please purchase the rest of the necessary cables at your local store.

Before connecting ensure the AC power cords of all devices are NOT connected to the AC outlets.

1. Use an RF cable to connect the antenna to the ANT. IN jack on the STB.
2. Use an RF cable to connect the incoming cable to the antenna input jack on the cable box.
3. Use an RF cable to connect the antenna output jack on the cable box to the antenna input jack on the TV, as close as possible.
4. Refer to "Connecting to TV" on page 10 to connect your TV.

---

**NOTE:**

- When you connect the RF cable to another device, be sure to use a splitter as shown below.

---

**CONNECTIONS**

---

**Supplied cables used in this connection are as follows:**

- RF cable xl

Please purchase the rest of the necessary cables at your local store.

Before connecting, ensure the AC power cords of all devices are NOT connected to the AC outlets.

1. Refer to "Connecting an Antenna" on page 9 to connect the STB to an antenna.
2. Use an RF cable to connect the ANT. OUT jack on the STB to the antenna input jack on the TV.
   AND/OR Use a standard audio/video cable to connect the AUDIO/VIDEO OUT jacks on the STB to the audio/video input jacks on the TV.
3. Plug all AC power cords into AC outlets, then turn all devices on.
4. After you have completed the connections, select an appropriate external input channel on your TV (ch3 or ch4) (refer to your TV's manual for details), and also set the STB's output channel to the corresponding channel number (3 or 4). You can switch between 3 and 4 by holding [SETUP] down over 3 seconds.

---

**Note to the Cable TV System Installer:**

This reminder is provided to call the *Cable TV system installer's* attention to Article 820-40 of the National Electrical Code which provides guidelines for proper grounding - in particular, specifying that the cable grounding system of the building shall be connected to the grounding system of the TV as close as possible.

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4/6/2009
• When using either of these connections, the resolution of the video signal output will always be 480L. This ensures that all digital TV programming, no matter what the actual transmitted format is, will be viewable and compatible with your analog TV.

• If your TV is monaural (MONO) and has only one audio jack, connect a standard audio cable (white) from the AUDIO OUT (white) jack on the STB to an audio input jack (white) on the TV. The red cable and jack will not be used.

---

**OTHER CONNECTIONS**

![Diagram of connections]

---

**Supplied cables used in this connection are as follows:**

- RF cable x1

Please purchase the rest of the necessary cables at your local store.

---

Before connecting, ensure the AC power cords of all devices are NOT connected to the AC outlets.

1. Refer to "Connecting an Antenna" on page 9 to connect the STB to an antenna.
2. Refer to "Connecting to TV" on page 10 to connect the STB and the TV.
3. Use a standard audio cable to connect the AUDIO OUT jacks on the STB to the audio input jacks on the stereo component.
4. Plug all AC power cords into AC outlets, then turn all devices on.
5. Set the stereo to the input mode to which you connected the audio from the STB. Refer to your stereo’s manual for details.
e.g.: Connection to DVD Recorder

Rear panel of STB

To audio input jacks (L, R)

Supplied cables used in this connection are as follows:
• RF cable xl
Please purchase the rest of the necessary cables at your local store.

Before connecting, ensure the AC power cords of all devices are NOT connected to the AC outlets.

1 Refer to “Connecting an Antenna” on page 9 to connect the STB to an antenna.
2 Use a standard audio/video cable to connect the AUDIO/VIDEO OUT jacks on the STB to the audio/video input jacks on the DVD recorder.
3 Use a standard audio/video cable to connect the audio/video output jack on the DVD recorder to the audio/video input jack on the TV.
4 Plug all AC power cords into AC outlets, then turn all devices on.
5 Set the TV and DVD recorder to input mode. Refer to your TV’s or DVD recorder’s manual for details.

NOTE:
• If your DVD recorder is monaural (MONO) and has only one audio jack, use a standard audio cable (white) to connect the AUDIO OUT jack (white) on STB to the audio input jack (white) on the DVD. The red cable and jack will not be used.

INITIAL SETUP (SETUP WIZARD)

5 Select the connection for audio output using H/H. then press [OK].

Select “AUDIO OUT” if...
- you are using the standard audio cable to connect the STB to your TV.
Select “RF OUT” if...
- you are using the RF cable to connect the STB to your TV.

6 Select your time zone using [A / Y], then press [OK].
7 Select "ON" or "OFF" for Daylight Saving Time (DST) using [</>], then press [OK].

8 Select the desired display mode using [A/Y], then press [OK].

4 Select the language using [▲ /▼], then press [OK].

INITIAL SETUP (SETUP WIZARD)

9 Select "AUTOSCAN" using [A / Y], then press [OK].

- STB starts receiving available digital channels and stores them in the channel map.
- When the scanning is complete, "AUTOSCAN COMPLETED" will be indicated.
- After autoscan is complete, press [CH + /—] to verify whether STB is receiving channels properly.

The “SETUP WIZARD” is now complete.

To cancel during scanning: Press [OK].

NOTE:
- If autoscan is canceled, some channels not yet scanned may not be received. We recommend completing autoscan.
About Sub-channel Broadcasting
Digital broadcasting offers a service that enables multiple signals, called "sub-channels", to be sent simultaneously on one main channel by using its high compression technology. Therefore, every digital channel number consists of a main channel and a sub-channel number.

NOTE:
• If you do not have a particular sub-channel number you want to select, enter the main channel number and then press [OK]. (If the main channel number is 1 digit, you should press [OK] twice.) The STB automatically tunes in to the lowest sub-channel for the selected main channel.
• Press [ALT. CH] to return to the previously viewed channel.
• "NO SIGNAL" appears after the sub-channel broadcast is over. Change the channel to continue watching.

The channel banner provides you with information on the channel you have selected.

1 Press [DISPLAY] to display the channel banner.

Information Icons

LOCK: Indicates that the current program is blocked according to your v-chip setting.

CC (Closed Caption): Indicates that the program being broadcast is available with closed captioning.
You can change languages when the channel provides alternate languages.

1 Press [AUDIO] repeatedly.

• Audio language changes as follows.

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH</td>
</tr>
<tr>
<td>SPANISH</td>
</tr>
<tr>
<td>FRENCH</td>
</tr>
<tr>
<td>OTHER</td>
</tr>
</tbody>
</table>

NOTE:
• "OTHER" is indicated when the language is not English, Spanish or French.
• For international stations audio language will still be displayed as English.

You can freeze the image shown on the TV screen.

1 Press [STILL].

• The image shown on the screen will be paused.
• The sound output will not be paused.
• If "NO SIGNAL" is detected or protected signal is received during still mode, the image remains paused and the sound output will be muted.

To cancel still mode, press any button except [STANDBY-ON].

NOTE:
• If the TV is left on STILL for a long period of time, the still image may cause a burn-in effect damaging the TV screen.

Electronic Program Guide (EPG) is the electronic equivalent of a printed TV program guide. You can view a list of programs scheduled for the next few hours. To display the correct information on "EPG", "TIME ZONE" and "D.S.T" must be set correctly.

1 Press [EPG] while watching TV.

NOTE:
• "OTHER" is indicated when the language is not English, Spanish or French.
• For international stations audio language will still be displayed as English.

2 Select the desired program using [- «► ▼].

3 Press [EPG] to remove the EPG.

NOTE:
• "EPG" will be cleared after 5 minutes.
• For channel numbers with blank description, the broadcasting station may not provide signals for "EPG".
• When the program description consists of more than 4 lines, use [A / T] to scroll up/down in the list.

### ADDITIONAL INFORMATION

**ADVANCED OPERATION**

Adding/Deleting Channels

5 Press [OK] again to add the channel to the channel map.

E.g., adding channel 6
3 Select "ADD/DELETE" using [A/Y], then press [OK].

4 Select "DELETE" using [A/Y], then press [OK].

5 Select the channel number you want to delete from the channel list on the right using [A/Y], then press [OK].

E.g., deleting channel 26.

- The selected channel is now deleted.

To continue deleting:
Repeat step 5.

NOTE:
- Entering sub-channel number is not required.

ADVANCED OPERATION

5 Adjust the antenna’s direction to get the best reception.
- A status bar stretches to the right according to the signal strength.
- The value will be indicated on the left of the status bar so that you can adjust the antenna.

To adjust other channels:
Select the channel with [CH +/—], then adjust it. To cancel during adjustment: Press [SETUP] or [OK].

6 Press [SETUP] to exit "SETUP" menu.

You can verify the signal strength of each channel to get a clearer picture.

1 Select a channel to adjust using

STB can get available digital channels automatically.

Autoscan receives available digital channels and stores them in a channel map. These channels can then be selected using [CH +/—].

To continue adding:
Repeat steps 4 and 5.

6 Press [SETUP] to exit "SETUP" menu.

Delete
Follow steps 1-3 in "Adding/Deleting Channels" on this page.

4 Select "DELETE" using [A/Y], then press [OK].
the number buttons or \([CH +/-]\).

2 Press \([SETUP]\) to display "SETUP" menu.

3 Select "CHANNEL" using \([A / T]\), then press \([OK]\).

4 Select "ANTENNA" using \([A / T]\), then press \([OK]\).

**CAUTION:**
- If autoscan is skipped, digital channels may not be received correctly.

**STB starts receiving the signal for the channel.**

**ADVANCED OPERATION**

4 Select "AUTOSCAN" using \([A / Y]\), then press \([OK]\).

3 Select "DISPLAY MODE" using \([A / Y]\), then press \([OK]\).

4 Select the desired display mode using \([A / Y]\), then press \([OK]\).

5 Press \([SETUP]\) to exit "SETUP" menu.

**NOTE:**
- If canceled, some channels not yet scanned may not be received. We recommend completing autoscan.
- When you want to completely refresh the channel map, delete all the channels, then do the autoscan again. See "Adding/Deleting Channels" on page 17 for details.

When "NO SIGNAL" appears on the screen:
Verify the antenna connection, then scan again. The STB tunes in channel 2-1 and "NO SIGNAL" appears if the STB could not receive any channels.
STB allows you to select a display mode to match the formats of the program being broadcast on your TV screen.

**Display Mode**

1. Press [SETUP] to display "SETUP" menu.
2. Select "DETAIL" using [A / Y], then press [OK].

**ADVANCED OPERATION**

**INFORMATION on Display Mode**

For standard 4:3 TVs displaying widescreen 16:9 broadcasts, your choices are:

- **LETTERBOX**: Displays the entire picture image while fitting the picture to the screen by applying gray bars to the top and bottom of the screen. No information will be lost.
- **ZOOM**: Expands the picture image to fill the screen while cropping some images on the left and right. Picture information on the left and right side will be lost.
- **FULL**: Displays the entire picture image while fitting the picture to the screen by stretching the image vertically, so that it fills the screen. No information will be lost, but there may be a slight distortion of the picture.

**Time Zone**

3. Select "TIME ZONE" using [A / Y], then press [OK].

4. Select your time zone using [A / Y], then press [OK].

5. Press [SETUP] to exit "SETUP" menu.

**D.S.T (Daylight Saving Time)**

Follow steps 1-2 in "Setting the Time Zone and DST" on this page.

3. Select "D.S.T" using [A / Y], then press [OK].

4. Select "ON" or "OFF" using [-1 ➤], then press [OK].

5. Press [SETUP] to exit "SETUP" menu.

**CAUTION:**

- If the TV is left in LETTERBOX mode for a long period of time, the gray bars may cause a permanent burn-in effect.

To get the EPG (Electronic Program Guide) and Channel banner, you will need to set "TIME ZONE" and "D.S.T" correctly.

1. Press [SETUP] to display "SETUP" menu.
2. Select "TIME" using [A / Y], then press [OK].
ADVANCED OPERATION

See the following description for setting each item.

A. "MPAA Rating" o this page  
B. "TV Rating" o page 22  
C. "New Password" o page 22

NOTE:
• To block any inappropriate programming, set your limits in "MPAA RATING", "TV RATING" and "DOWNLOADABLE RATING".  
• "DOWNLOADABLE RATING" will be available when the STB receives a digital broadcast using the new rating system.  
• If the broadcasting signal does not have the downloadable rating information, "Downloadable Rating is currently not available." will appear. This message will also appear when you try to access "DOWNLOADABLE RATING" after you have cleared the downloadable rating information, and the new information has not been downloaded since.  
• To clear the downloadable rating information and its setting, select "CLEAR DOWNLOADABLE RATING".

MPAA rating
MPAA Rating is the rating system created by MPAA (Motion Picture Association of America). Follow steps 1-4 in "V-Chip Options" on this page.

5 Select "MPAA RATING" using [A / Y], then press [OK].

CAUTION:
• Do not forget the password. It will be used as your v-chip access password from the next time onward.

4-a Enter 4-digit numbers except 4737 as your password using the number buttons.

NOTE:
• If you forget the password, enter "4737" then proceed to "New Password" on page 22.  
• When the password is correct, "V-CHIP" menu is displayed.

ADVANCED OPERATION

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.

1 Press [SETUP] to display "SETUP" menu.

2 Select "DETAIL" using [A / Y], then press [OK].

3 Select "V-CHIP" using [A / Y], then press [OK].

• Password entry field will appear. Proceed to step 4-a if you have not created a password yet. Proceed to step 4-b if you have already set a password.

4-a Enter 4-digit numbers except 4737 as your password using the number buttons.

4-b Enter the password using the number buttons.

• Asterisk (*) will substitute for your password.

Select the desired rating using [A / Y], then press [OK] repeatedly to switch between view and block.

• When the rating is blocked, Q will appear.

7 Press [SETUP] to exit "SETUP" menu.

To Set the Sub Ratings
X
NC-17
R
PG-13
PG
G
NR
Mature audience only
No one under 17 admitted
Restricted; under 17 requires accompanying parent or adult guardian
Unsuitable for children under 13
Parental guidance suggested
General audience
No rating
higher
T1
lower

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

Press [A / Y / AI ▶] to select the desired rating or sub rating, then press [OK] repeatedly to switch between view and block. Sub rating status will appear beside the main rating.

7 Press [SETUP] to exit "SETUP" menu.

NOTE:
• 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.

TV Rating
Follow steps 1-4 in "V-Chip Options" on page 21.

5 Select "TV RATING" using [A / Y], then press [OK].

NOTE:
• Changing the main rating to block or view automatically changes all its sub ratings to the same (block or view).

New Password
When you forget the password or when you want to change your password, follow the instructions below.

1 Follow steps 1-3 in "V-Chip Options" on page 21, then enter 4737 in the password entry field.

2 Select "NEW PASSWORD" using [A / Y], then press [OK].

6 Select the desired rating using [A / Y], then press [OK] repeatedly to switch between view and block.

When the rating is blocked, a will appear.

<table>
<thead>
<tr>
<th>Rating</th>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV-MA</td>
<td>Mature audience only</td>
<td></td>
</tr>
<tr>
<td>TV-14</td>
<td>Unsuitable for children under 14</td>
<td></td>
</tr>
<tr>
<td>TV-PG</td>
<td>Parental guidance suggested</td>
<td></td>
</tr>
<tr>
<td>TV-G</td>
<td>General audience</td>
<td></td>
</tr>
<tr>
<td>TV-Y7</td>
<td>Appropriate for all children 7 and older</td>
<td></td>
</tr>
<tr>
<td>TV-Y</td>
<td>Appropriate for all children</td>
<td></td>
</tr>
</tbody>
</table>

NOTE:
• 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.

ADVANCED OPERATION

3 Enter the new 4-digit password using the number buttons.
• Enter password again in "Confirm password." entry field.

5 Select the desired DTV closed caption using [A / Y], then press [OK].
DTV has its own closed caption called DTV CC. Use this menu to change the settings for DTV CC.

1 Press [SETUP] to display "SETUP" menu.
2 Select "DETAIL" using [A / Y], then press [OK].
3 Select "CLOSED CAPTION" using [A / Y], then press [OK].
4 Select "DTV CC" using [A / Y], then press [OK].

If you select "AUTO", the original CC style set by the broadcast station will be applied.

ADVANCED OPERATION

CC Style Edit
You can edit the style of CC such as font, color or size, etc. This feature is available only when "CC STYLE" is set to "MANUAL".
1 Repeat steps 1 to 3 in "Closed Caption Options" on page 23.
2 Select "CC STYLE EDIT" using [A / Y], then press [OK].
3 Select an item using [A / Y], then press [OK]. Then use [A/V] to select the desired setting and press [OK].

The auto power down can be set to automatically turn off the STB after an incremental period of time. Default setting is 4 hours. (The EPA (U.S. Environmental Protection Agency) recommends using this setting to conserve energy.)
1. Press [SETUP] to display "SETUP" menu.
2. Select "DETAIL" using [A / Y], then press [OK].
3. Select "AUTO POWER DOWN" using [A/Y], then press [OK].
4. Select desired amount of time using [A/Y], then press [OK].
   - Select "OFF" to cancel the auto power down.
5. Press [SETUP] to exit "SETUP" menu.

Before requesting service for this STB, check the table below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
</table>
| No power                                                     | • Make sure that the AC power cord is securely plugged into the power outlet.  
• Make sure that the POWER indicator is lit.               |
| The STB is not responding to the remote control             | • Make sure to point the remote control at the remote control sensor.  
• You may be too far from STB. Try moving closer.  
• Remove any obstacles between the remote control and the remote control sensor.  
• Make sure that the batteries are installed in the correct direction (+ and -).  
• The batteries may be depleted. Replace them with new ones. |
| No picture                                                   | • Make sure that the video cable is correctly connected.  
• Make sure that video devices (TV or monitor) are turned on.  
• Make sure that video devices (TV or monitor) are correctly set to STB video output channel. Refer to your TV's manual for further information.  
• Check the video cable.  
• Check the antenna and the RF cable. There may be damage or interfering sources. |
| Blocked noise on picture                                     | • There may be interfering sources.                                    |
| No EPG or the provided information is wrong                  | • Make sure that "DST" and "TIME ZONE" is set correctly in "TIME" menu or in "SETUP WIZARD". |
| No sound                                                     | • Make sure that the audio cable is correctly connected.  
• Make sure that audio devices (stereo, TV or decoder) are turned on.  
• Make sure that audio devices (stereo or decoder) are correctly set to STB audio output channel.  
• When TV has only one audio input jack, use a standard audio cable (white) to connect the audio output jack (white) on STB to the audio input jack on the TV. |
| Low volume                                                   | • Sound volume differs depending on the audio output setting. Select "RF OUT" at step 5 in the "Setup Wizard" on page 13 if you feel the volume is too low.  
• Make sure to complete autoscan in "SETUP WIZARD"            |
<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
</table>
| No reception or in “SETUP” menu. It will be required when you setup STB for the first time or when STB is moved to a location where other channels are broadcast.  
• The selected channel does not exist at that time. There are not always subchannels being broadcast.  
• When autoscan is interrupted and not completed, some channels will not be received. |  |
| The entered channel number changes automatically | • Many digital channels have alternate channel numbers. STB changes the numbers automatically to the ones signifying the broadcasting stations. |
| No reception of channels with weak signal (autoscan) | • Some channels with weak signal may not be received properly. This is not a malfunction. |

**OTHERS**

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>When you forget the password for v-chip</td>
<td>• If you forget the password, refer to “New Password” on page 22.</td>
</tr>
</tbody>
</table>
| Closed captioning display (TEXT mode) does not go off even after changing channels through STB. | • Change the TV setting to a mode other than VIDEO.  
• Change channels through the TV.  
• Turn off the power of the TV, then turn on the power again. |
| The screen goes blank just after turning the STB on. | • This is a normal part of the start-up process and is not a malfunction. |

**Product**

DTV Digital to Analog Converter

**Tuner**

Receivable channels 2-69ch

**Connecting**

Jacks ANT. IN/OUT  
F connector (75ohm)  
Video Output 1-pin jack, 1Vpp (75ohm)  
Analog Audio Output 2-pin jacks (L, R) 2V rms (100k ohm)

**Power Source**

120V AC±10%, 60Hz±0.5%

**Power Consumption**

8W (Power on), Less than 1 W (Power off) ENERGY STAR adopted.

**Closed Caption System**

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

**Operating Condition**

4PF (5°C) - 104°F (40°C)

**Dimensions (W x H x D)**

9.7” x 1.7” x 6”  
(244mm x 43mm x 150mm)

**Weight**

1.41lbs. (0.6Kg) Designs and Specifications are subject to change without notice.

**ATSC** - Advanced Television Systems Committee: This group is working to establish the standards for digital TV broadcasting and digital TV equipment for both SDTV and HDTV.

**Autoscan:**  
Autoscan can receive available digital channels and store these in a channel map.

**D.S.T - Daylight Saving Time**

Electronic Program Guide (EPG):  
EPG is the electronic equivalent of a printed TV program guide. You can view a list of programs scheduled for from the next few hours up to the next seven days.

**MPAA - Motion Picture Association of America:** A guild governing rating assignments to movies.

**Password:**  
A stored 4-digit number that you must provide in order to make settings for v-chip.

**SD - Standard Definition**
GUIA PARA RÁPIDA CONSULTA

Conexión a una antena

Conexión básica:

Conexión a TV
Cuando conecte también a la caja de cable (opcional):

Los cables provistos utilizados en esa conexión son los siguientes:

- Cable de RF x 1
- Adquiera el resto de los cables necesarios en una tienda de su zona.

Antes de la conexión, asegúrese de que los cables eléctricos de CA de todos los dispositivos NO estén conectados al tomacorriente de CA.

1. Consulte "Conexión a una antena" en la página 28 para conectar el STB a la antena.
2. Utilice un cable RF para conectar la toma ANT IN en el STB a la toma de salida de la antena en el TV.
3. Utilice un cable RF para conectar la toma de entrada de audio/video del STB a la toma AUDIO/VIDEO OUT en el TV.

NOTA:
- Cuando utilice una de estas conexiones, la resolución de la salida de señal de video será siempre 480i.
- Si el STB se conecta al TV de forma monoaural (MONO) y tiene sólo una toma de entrada de audio, conecte un cable de audio normal (blanco) de la toma AUDIO OUT (blanca) en el STB a una toma de entrada de audio (blanca) en el TV. El cable y la toma rojos no se utilizarán.

GUIA PARA RÁPIDA CONSULTA

Los cables provistos utilizados en esa conexión son los siguientes:

- Cable de RF x 1
- Adquiera el resto de los cables necesarios en una tienda de su zona.

Antes de la conexión, asegúrese de que los cables eléctricos de CA de todos los dispositivos NO estén conectados al tomacorriente de CA.

1. Consulte "Conexión a una antena" en la página 28 para conectar el STB a la antena.
2. Utilice un cable de audio/video normal para conectar las tomas de entrada de audio/video del grabador DVD. 
3. Utilice un cable de audio/video normal para conectar la toma de salida de audio/video del grabador DVD a la toma de entrada de audio/video del TV.
4. Enchufe todos los cables eléctricos de CA en los tomacorrientes de CA y conecte la alimentación de todos los equipos.
5. Ajuste el TV y el grabador DVD al modo de entrada.

Para más detalles, consulte el manual de su TV o grabador DVD.

NOTA:
- Asegúrese de utilizar un divisor al conectar el cable de RF a otro dispositivo, como se muestra en la continuación.
Cómo conectar el STB al TV y equipos de video (VCR, grabador DVD, etc.)

1. Encienda el TV y seleccione la entrada a la que se conecta el STB.

Para cancelar durante la exploración: Presione [OK].

NOTA:
• Si se cancela la exploración automática, es posible que no se reciban algunos canales que aún no se han explorado. Recomendamos completar la exploración automática.
• El STB comienza a recibir los canales digitales disponibles y los almacena en el mapa de canales.
• Cuando haya finalizado la exploración, aparecerá el mensaje “AUTOEXP. TERMINADA.”
• Una vez que finalice la exploración automática, presione [CH + / —] para verificar si el STB recibe los canales adecuadamente.

El "ASISTENTE DE PREP." ahora ha finalizado.