

24" Pure Flat Tube Stereo TV  
TTM-2410



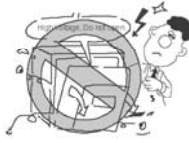
20060630

## Important Safety precautions

### ⚠ CAUTION

#### Risk of electric shock, do not open.

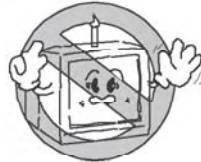
Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel;



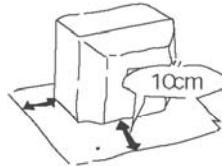
### ⚠ WARNING

1. To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
2. To avoid the fire, no naked flame source, such as lighted candles, should be placed on the apparatus;

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus;



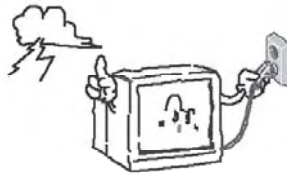
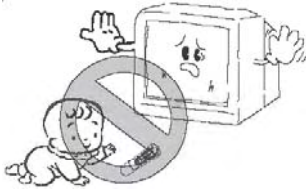
3. At least 10 cm space should be left around the apparatus for sufficient ventilation;



4. The ventilation should not be impeded by covering the ventilation opening with items, such as newspapers, table-cloths, curtains, etc.
5. In case of smoke, strange noise or strange smell from the unit, switch it off, unplug it from the wall outlet and contact your dealer or service center.

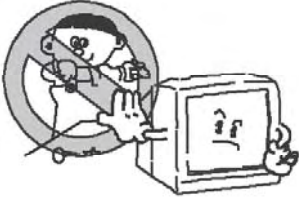
### ⚠ NOTE

1. For your protection, please read this instruction completely, and keep this manual for future reference;
2. Unplug the apparatus from the AC outlet when it will not be used for a long period of time. And when there is a lightning, unplug the unit from the AC outlet immediately. Never touch the antenna wire during lightning.
3. The apparatus is not suitable for children under 3-year to operate.

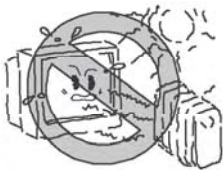


## Important Safety precautions

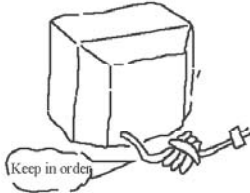
4. Do not push objects of any kind into this apparatus through cabinet slots as they could touch current carrying parts or short-circuit parts resulting in fire, electric shock or damage to the unit. Never spill liquid of any kind on the apparatus;



6. Keep the apparatus away from radiators and other heat sources;

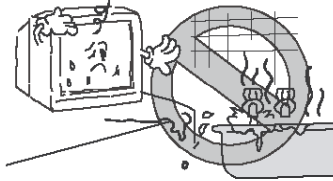


8. Power supply cords should be routed safely to prevent life and property from dangerous with damaged cord;

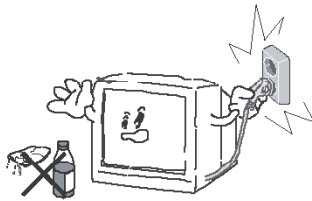


11. When the TV being moved in from cold place, it needs some right time for dew inside unit evaporating fully before turn on the unit.

5. Do not place this apparatus near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or a swimming pool; and the like;



7. Unplug this apparatus from the AC outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning;



9. Place the apparatus in such a position that the screen is not exposed to direct sunlight. It is best to have soft indirect lighting while watching and avoid complete dark environment and reflection from the screen as these may cause eye fatigue;

10. Keep TV set away from high magnetic field (i.e. power-amplified power speaker) to avoid affecting the tint;

12. Use an isolated power transformer in maintenance as the chassis of the apparatus may be electrified.

13. To protect our living environment, please send waste batteries and waste product to legal agents for proper disposal.

## Polaroid. Add a little color to your life.

Since 1937, America has turned to Polaroid for their photography needs. Today, families look to Polaroid for consumer electronics that define the digital age: TVs, plasma TVs and LCD TVs, portable and standard DVD players, digital cameras. And while our selection has changed, you'll still receive the same friendly, helpful service that made Polaroid an American icon. Congratulations on your new Polaroid TV purchase. To ensure your new TV provides you with years of enjoyment, please read this guide carefully.

### Contents

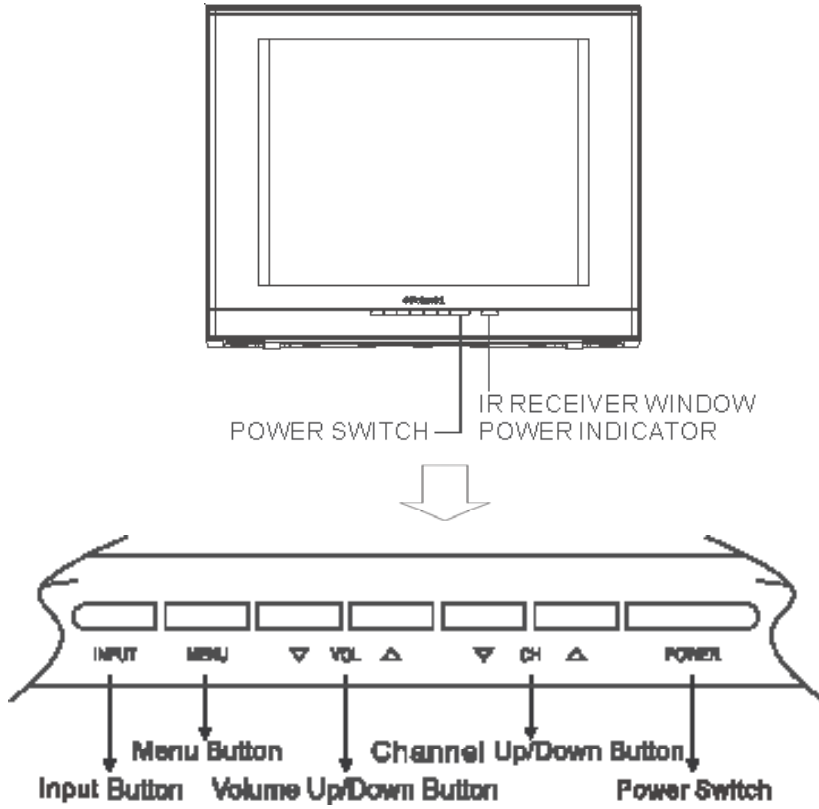
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**Note:** Please read the carton or name plate on the TV back cabinet to sure which model you have purchased before you read this manual.

## Overview

### Overview of the function keys

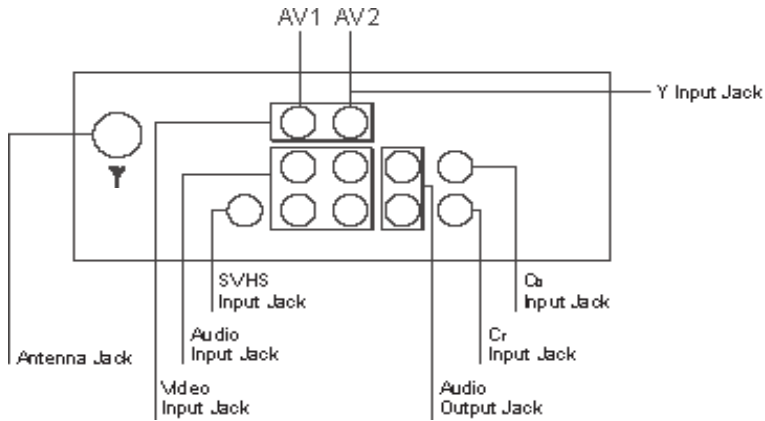
Identify the function keys on the TV and refer to the following diagram to learn every function key.



## Overview

### Overview of the back AV jacks

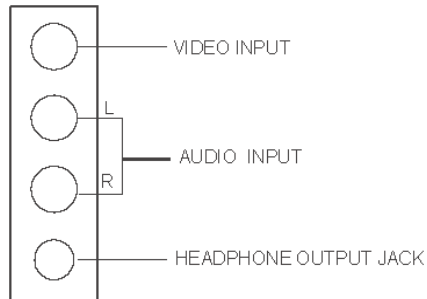
Observe the AV jacks on the back of TV, and refer to the following diagram to learn the function of every AV jack.



Note: Different model may have different jack. Please refer to the SA-U series color TV Functions table in page 21 for your model.

### Side AV and Headphone jacks

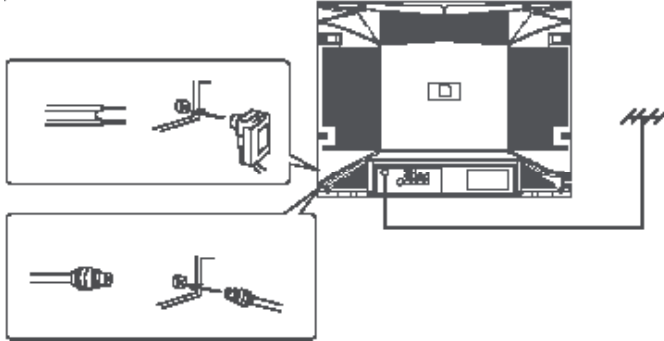
Make sure your TV has side AV and headphone jacks. If it has side AV inputs, please refer to the following diagram to learn the function of every side jack.



## External connection

### Antenna connection

The antenna input impedance used in this model is 75ohm, just connect 75ohm coaxial cable of VHF/UHF antenna to the antenna jack on the back of TV directly. If you use 300 flat feeder, you need connect it with one 300 /75ohm converter first, then connect the converter into the antenna jack.

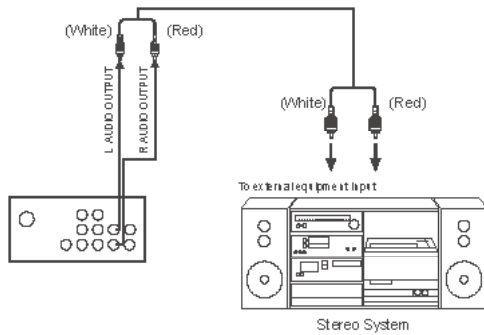


Note:

- It is recommended to use 75ohm coaxial cable to eliminate interference and noise caused by radio wave.
- Do not bind the antenna cable and power cord together.

### Connect to Audio equipment

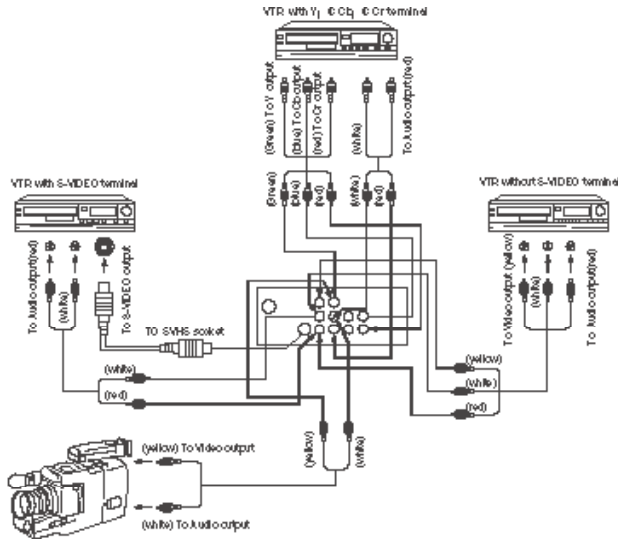
Connect this unit with the audio input terminal (pinhole) of a stereo system, then you may enjoy quality sound at the same time of enjoying quality picture.



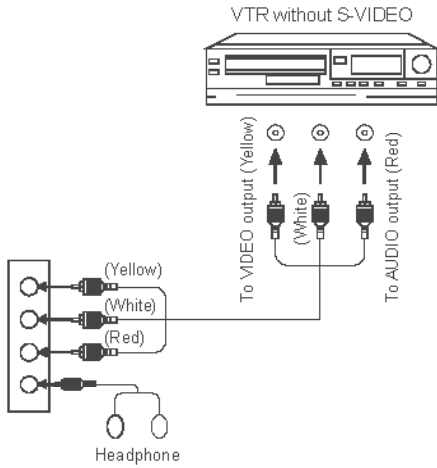
**Connect to video equipment (VCD, DVD) and headphone jack**

Connect back AV jacks as the following figure shown:

S-terminal has the same AUDIO IN jack as AV1, but you can not input AV signal from these two terminals at the same time. YUV has the same AUDIO IN jack as AV2, but you can not input AV signal from these two terminals at the same time.

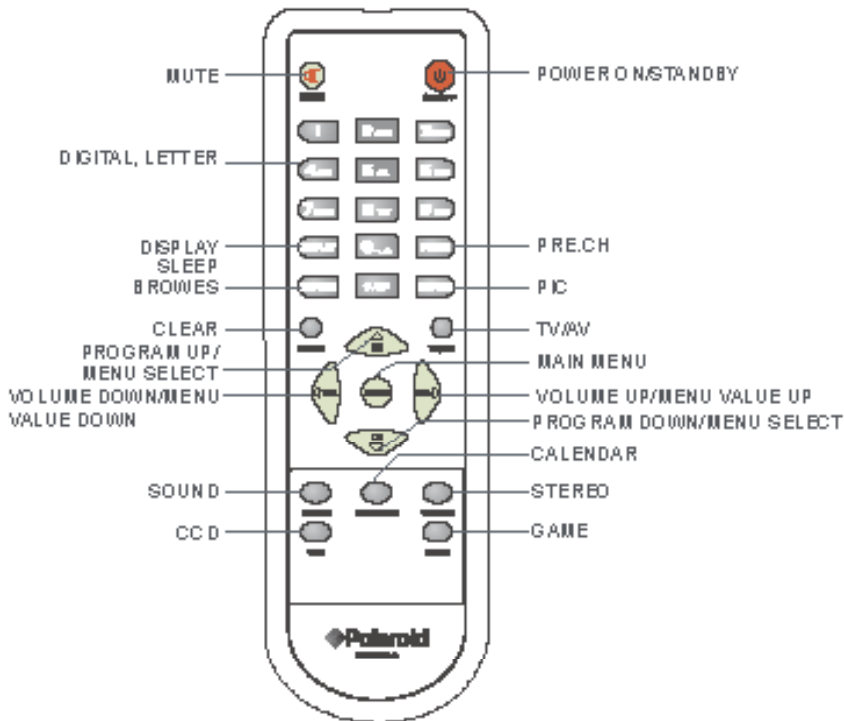


If your model has side AV jacks or headphone jack, please connect as the following figure shown:



## Remote control

### Remote control



#### Mute button

Lowers the volume to its minimum level. Press again to restore volume.

#### ON/OFF

Turns the TV on and off.

#### 0-9(Number buttons)

Digit buttons on the remote control are used for direct channel selection. Press 0-9 to select a channel (interval time of two or three pressing should be less than 1.5 seconds), for example, to select channel 10, press 1 and 0, the channel will change after 1.5 seconds. If you input 0 firstly, when input the second number, the channel will change to this channel number without waiting, for example, to select channel 8, press 0 and 8, the channel will change immediately.

## Remote control

### Remote control

<b>DISPLAY</b>	Displays channel information.
<b>PRE.CH</b>	Returns you to the previous channel.If the user is in the menu system,Go Back will take the user to the previous menu screen.
<b>BROWSE</b>	“Browse”feature.Pressing the button twice will begin channel scan,again will stop at current channel.
<b>SLEEP</b>	Set the sleep timer.
<b>PIC</b>	Steps through picture presets MEMORY,STANDARD,DYNAMIC and MILD.
<b>CLEAR</b>	Remove any menu or display form the screen and returns you to TV reviewing.For menu with digit inputs ,pressing CLEAR button will clear the last number entered.
<b>TV/AV</b>	Toggles the set between available AV inputs and RF input.
<b>MENU</b>	Displays the TV's Main menu.
<b>VOL (left and right)buttons</b>	Decrease or increase the TV's volume,or move through the on-screen menu system.
<b>CH.(up and down)buttons</b>	Scan up or down through the current channel list.Press once to change the channel up or down;press and hold to continue changing channels,or move through the on-screen menu system.
<b>SOUND</b>	Four preset audio settings for you to select (MEMORY/STANDARD/NEWS/MUSIC).
<b>STEREO</b>	Four available audio modes (AUTO/MONO/STEREO/SAP)
<b>CCD</b>	Turns on or turns off the closed caption.

**Loading batteries:** Remove the lid of the battery compartment,insert 2 size AAA batteries with the polarities as indicated inside the compartment then replace the lid.

**Note:**

1. One loading of batteries will last 1 year under normal use.
2. If you do not intend to use the remote control for a long period of time, remove the batteries.

## Basic operation

### Overview

#### Connect to the mains

Insert the mains wire plug of the unit into AC 120V mains outlet.

#### Power on/off

When you press the POWER switch button to standby or turn on TV.

**Note:** The power indicator will turn into red when TV is under standby state.  
The power indicator will die when TV is under turn on state.

#### Non-signal power-off in 5 minutes

In case the unit under blue screen or non-signal screen saver state, TV will be standby state automatically 5 minutes later, to turn it on, please press POWER button on TV.

#### Change channels

You can change channels by using the CH  $\Delta$ /  $\nabla$  button in front of the TV (or the CH  $\Delta$  /  $\nabla$  button on the remote control).

#### Volume UP/DOWN

You can adjust the sound by using VOL  $\Delta$ /  $\nabla$  button in front of the TV (or the VOL  $\triangleright$ /  $\triangleleft$  button on the remote control).

#### Sleep function

1. Press down SLEEP button on the remote control to display the preset time 120 minutes, 90 minutes, 60 minutes, 30 minutes, the unit will be automatically turned off when the set time has elapsed.
2. To cancel the time-off function, press the SLEEP button consecutively until display changes to SLEEP OFF state.

#### Picture modes

Press P.STD button on the remote control to select picture modes (MEMORY—STANDARD—DYNAMIC—MILD), MEMORY status is the picture mode you have adjusted.

## Basic operation

### Overview

#### Sound modes

Press S.STD button on the remote control to select sound modes (MEMORY—STANDARD—NEWS—MUSIC), MEMORY status is the sound mode you have adjusted.

#### Calendar

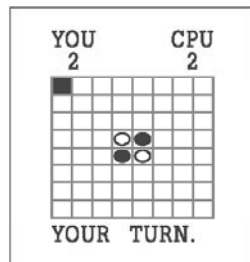
Press CALENDAR button to display the screen as the figure shown:

8/MAY/2003						
SU	MO	TU	WE	TH	FR	SA
					1	2 3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

The calendar of these series models provide you searching the solar calendar and current week from January 1, 1900 to December 31, 2049. Press CH $\Delta$ / $\nabla$  buttons to move to the year, month, date, then Use VOL $\Delta$ / $\nabla$  buttons to adjust the data of the year, month, date. Press CALENDAR button to exit. The date inquiry is the same steps as above.

#### GAME

You and TV place black and white stones on a large ruled board alternatively. If a black or white stone is put between black stones or white stones, then white stones or black stones located between the same color stones will be taken away. When one player gets all stones, or fills in all eyes, the game is end. If you get more stones than TV's, you win. Press GAME button to display the screen as the figure shown: Use CH $\Delta$ / $\nabla$  buttons to move upward or downward and VOL $\Delta$ / $\nabla$  buttons to left or right, then press MENU button to confirm. Press GAME button to exit.



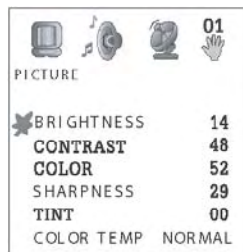
## Menu basic operation

### Menu basic operation

1. To enter the menu, press MENU button in front of the TV (or on the remote control), press MENU button in front of TV (or on the remote control) again to select the icon.
2. Press CH $\Delta$ / $\nabla$  button in front of TV (or on the remote control) to select the item you want to change.
3. Use VOL $\Delta$ / $\nabla$  button in front of TV (or on the remote control) to change the setting.
4. To exit the menu, press MENU button in front of TV (or on the remote control) to cycle all of icons one time in the previous menu. You can press menu button on the remote control to exit the menu operation directly.

## Using the PICTURE menu

### Using the PICTURE menu



CONTRAST Adjust the difference between the light and dark areas of the picture. Adjust range: (00~63).

BRIGHTNESS Adjust left/right to darken/brighten the picture. Adjust range: (00~63).

COLOR Adjust left/right to decrease/increase color intensity or saturation. Adjust range: (00~63).

## Using the PICTURE menu

### Using the PICTURE menu

SHARPNESS Adjust left/right to soften/sharpen the picture detail. Adjust range: (00~63).

TINT Adjust the balance between the red and green levels. Adjust range: (-31~+31).

COLOR TEMP Automatic color adjustments. Provide three states: (NORMAL, WARM, COLD).

## Using the SOUND menu

### Using the SOUND menu



VOLUME Adjust left/right to change small/large sound. Adjust range: (00~63).

TREBLE Adjust left/right to decrease/increase high pitched sound. Adjust range:(00~63).

## Using the SOUND

### Using the SOUND menu

**BASS** Adjust left/right to decrease/increase low pitched sound. Adjust range: (00~63).

**BALANCE** Adjust left/right to emphasize left/right speaker balances. Adjust range: (-31~+31).

**SURROUND** Adjust different kinds of the surround sound effect. Provide two states(OFF, ON).

**STEREO** Adjust different kinds of the stereo sound effect. Provide three states: (PASS, PSEU, MONO ).

## Using the PRESET menu

### Using the PRESET menu



**CHANNEL** Use VOL $\Delta$ / $\nabla$  button in front of TV (or on the remote control) to select channels, or enter the channel number directly using the number buttons.

**DELETE CH** Select Yes to skip the channels above .Select NO to go into the channel above.Provide two states:(YES,NO).

## Using the PRESET menu

### Using the PRESET menu

LABEL Press the VOL $\Delta$ / $\nabla$  button, then enter the first character of your description within one second. After you enter the first character, the cursor moves to the next character.  
Enter the rest of the characters. After you enter the fifth character, your description is saved. You must enter five characters, or the label will not be saved.  
If you want to erase a description, repeat this task and press the VOL $\Delta$ / $\nabla$  button to delete the characters.

SOURCE Let you select AIR or CABLE. Select AIR to receive radio broadcast signal. Select CABLE to receive CATV signal.  
provide two states: (AIR, CABLE)

AUTO SEARCH Press VOL  $\Delta$  button in front of TV (or VOL $\nabla$  button on the remote control ) to start channel searching and store automatically.

## Using the FUNCTION menu

### Using the FUNCTION menu



LANGUAGE Select from available language to display all menus.

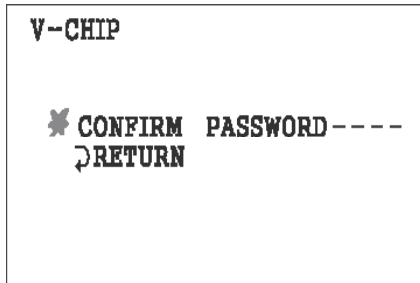
SCREEN Turn on or off the background function when no signal is received. Provide three states: (OFF, BLUE BACKGROUND, SCREENSAVER).

## Using the FUNCTION menu

**CHILD LOCK** Input four digital number on the remote control,you may change the child lock states(ON or OFF), if input the right password,the child lock will take effect when the TV turns on next time.  
The initial password is MUTE+999.

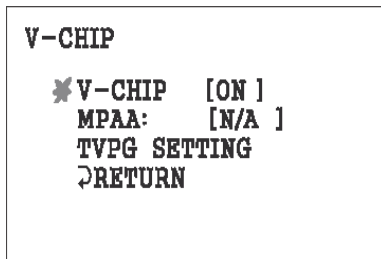
**CCD** offer eight closed captioned modes including four text modes.Provide nine states:(OFF,C1,C2,C3,C4,T1.T2,T3,T4).

**V-CHIP** Press VOL  $\Delta/\nabla$  button in front of TV (or VOL  $\triangleright$  button on the remote control) to see the figure below.



Figure

CONFIRM PASSWORD: Press four digital buttons on the remote control.V-CHIP menu can not be displayed without inputting the right password.The initial password is 0358.



Figure

**Note:** The initial password is used to clear the current password and set a new password. This password should be kept private.

V-CHIP Adjust V-CHIP function on or off, Provide two states: (ON,OFF).

MPAA Press VOL or VOL buttons on the remote control to Select the MPAA ratings. when select a movie rating, the system will automatically block all other movies with higher ratings.

Hierarchy of MPAA RATINGS	
N/A	No define
G	All Children
PG	Directed to old Children
PG-13	General Audience
R	Parental Guidance Suggested
NC-17	No one under 17 admitted
X	No one under 17 admitted

TVPG SETTING Press VOL  $\Delta/\nabla$  or VOL  $\triangleright$  button on the remote control to go to the TVPG setting.

<b>TVPG SETTING</b>	
* RATING	[ON ]
RATING	[TV-Y]
CONTENT	[ON ]
D:	[ON ]
FV:	[OFF]
L:	[OFF]
S:	[OFF]
V:	[OFF]
$\triangleright$ RETURN	

Hierarchy of Age-Based Ratings	
TV-Y	All Children
TV-Y7	Directed to Children 7 years and older
TV-G	General Audience
TV-PG	Parental Guidance Suggested
TV-14	Parents Strongly Cautioned
TV-MA	Mature Audience Only

Content Themes	
<b>D</b>	<b>Sexually explicit dialogue</b>
<b>FV</b>	<b>Fantasy Violence</b>
<b>L</b>	<b>Adult language</b>
<b>S</b>	<b>Sexual situations</b>
<b>V</b>	<b>Violence</b>

table 2

$\triangleright$  RETURN Come back the higher menu.

## Picture defects and countermeasures (AIR reception)

The most common types of television interference are as follows:

### **SNOWY PICTURE**

Snowy picture is usually due to weak signal. Adjust antenna or install an antenna amplifier.



### **DOUBLE IMAGE OR "GHOSTS"**

Double images are usually caused by reflections from tall buildings. Adjust the direction of the antenna or raise it.



### **RADIO WAVE INTERFERENCE**

Wavy patterns are moving on the screen, which are usually caused by nearby radio transmitters or short-wave receiving equipment.



### **HIGH TEMPERATURE ELECTROTHERMAL INTERFERENCE**

Diagonal or herringbone patterns appear on the screen or part of picture is missing. This is probably caused by high temperature electrothermal equipment in a nearby hospital.



**NOTE:** If one of these symptoms appears on the screen when the cable from a company is connected, this may be due to the local cable company broadcast.

## Troubleshooting

If you have any problem, check the Troubleshooting Guide for each problem listed below. The following problems may have been caused by inappropriate adjustments rather than actual malfunction of the unit.

If the trouble persists, visit [www.polaroid.com](http://www.polaroid.com) for Polaroid Service and Support.

Problems	Check
No picture or sound.	Check if the power supply is plugged in. Check if the power button is in the "on" position.
Picture is OK, no sound.	Check if the volume control is set to the minimum or mute position.
Remote control doesn't work	Check if the power button is in the "on" position. Check if the batteries are exhausted or not connected well. Make sure that there is no strong light striking the sensor window of the remote control unit. Check there are no obstacles before the sensor window of remote control unit.
No television signal.	Check if the TV/AV button is set to TV. Check if the antenna is connected correctly.
No external video signal.	Check if the TV/AV button is set to AV.
Picture lacks color or picture too dark.	Check if the color, bright, and contrast controls are correctly adjusted.
All channels lose color intermittently.	Check if the antenna is broken. Check if the antenna is disconnected. Check if the antenna is damaged.
Poor reception, loss of color with certain channels.	Check if the channels are correctly tuned (see "Fine tuning").
Diagonal stripes appear on picture.	The receiver may be affected by interference from a nearby radio broadcasting transmitter or by another television receiver.
Picture has "snow".	Check if the antenna is broken. Check if the antenna is disconnected. Check if the antenna is damaged.
Ghost images appear.	Check if the antenna direction has been changed by a storm or strong wind. Ghost images are caused by signals which have been reflected by a hill or large building. The direction of the antenna should be chosen for minimized ghost images.

