

Owner's Manual

58" Plasma TV

Important Safety Instructions



WARNING

RISK OF ELECTRIC SHOCK DO NOT OPEN



WARNING: To reduce the risk of electric shock, do not remove the front or back covers. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrow-head within a triangle is intended to inform the user that parts inside the product are a risk of electric shock.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are explained.

Special Notices

- Certain programs may be copyrighted and any unauthorized recording in whole or in part may be in violation of copyright laws in the U.S. and Canada.
- FCC/CSA regulations state that any unauthorized modifications to this display may void user authority to operate it.

Warnings & Precautions

- To prevent damage which may result in fire or shock hazard, do not expose this product to rain or moisture.
- To prevent electric shock, do not remove cover. No user serviceable parts are inside. Refer servicing to qualified service personnel only.
- Keep display away from excessive dust, high temperature, moisture or direct sunlight.
- Use in a well-ventilated area and do not cover ventilation openings.
- Unauthorized modifications to this equipment or usage of an unshielded connecting cable may cause excessive interference.
- When the display is not in use, disconnect it from the electric outlet.
- If the picture displayed is in any way abnormal, turn off the unit and disconnect it from the electric outlet. Verify your signal wire connections and reconnect the display to the electric outlet.
- Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage.
- Do not place the unit on a bed, sofa, rug, or other similar surfaces.
- Never place the unit near or over a radiator or heat source.
- Do not install unit in an enclosed area unless proper ventilation is provided.
- The unit should be operated from the type of power source indicated on the label. If the type of available power is unknown, consult your dealer or local power company.
- The unit is equipped with a 3-pin grounded plug. The plug will only fit into a grounded power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician. Do not alter this plug as this will defeat the safety feature. Power cord not lighter than H05VV-F, 3G, 0.75mm² shall be used.
- Do not rest objects on the power cord & avoid placing power cord near high traffic areas.
- Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- Unplug the display from the electric outlet and disconnect the antenna/cable TV system during a lightning storm or when left unused for long periods of time. This will prevent damage to the display caused by lightning and power-line surges.
- Avoid overhead power lines. An outdoor antenna system should not be placed in the vicinity of overhead power lines, electric lights, or power circuits. When installing an outdoor antenna, be careful to not touch any power lines or circuits as contact with these lines can be fatal.
- Do not insert any foreign objects through the ventilation openings to the display. It may touch dangerous voltage points or damage parts.

Important Safety Instructions

- If an outdoor antenna or cable system is connected to the display, be sure the antenna or cable system is grounded to provide some protection against voltage surges and static charge buildups. Section 810 of the National Electrical Code, ANSI/NFPANo.70-1984, provides information about 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.
- If this display is equipped with separate speakers, please remove the speakers prior to moving the display. Moving the display with the speakers attached may cause damage or injury.
- Disconnect the unit from the main supply and refer servicing to qualified service personnel under the following conditions:
 - Power cord or plug is damaged or frayed.
 - Liquid has been spilled into the product and/or the unit has been exposed to water or moisture.
 - Unit does not operate normally when the operating instructions are not followed. Adjust only those
 controls that are covered by the operating instructions, improper adjustment of other controls may result
 in damage which often requires extensive work by a qualified technician to restore the unit to normal
 operation.
 - Unit has been dropped or the cabinet has been damaged.
 - Unit exhibits a distinct change in performance, indicating a need for service.

Cleaning & Maintenance

Disconnect from the electric outlet before cleaning. Do not use liquid or aerosol cleaners. Use only a slightly
damp cloth for cleaning.

Special Warranty Information

Cell Defects

 Although the display panels are produced with more than 99% percent active cells, there may be some cells that do not produce light or remain lit. This is considered normal and not a manufacturer defect.

Note to CATV System Installer-This reminder is provided to call the CATV system install's attention to Section 820-93 of the National Electric Code which provide guidelines for proper grounding and in particular, specify that the Coaxial cable shield shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Regulatory Notice

FCC Statement

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

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 receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product. Provided with this display is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating. For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6015P type (tandem blades) plug cap.

IC Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

Cet appareil Numerique de classe B respecte toutes les exigences du Reglemont NMB-03 sur les equipements produisant des interferences au Canada.

Notice de Conformit IC

Cet appareil numerique de classe B respecte toutes les exigences du Reglement ICES-003 sur les equipements produisant des interferences au Canada.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

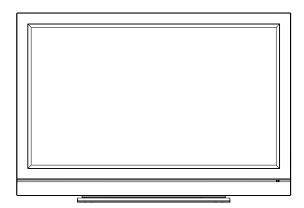
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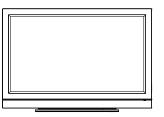
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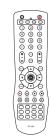
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Getting to Know Your TV



Package Contents







Flat Panel TV

Remote Control

Batteries





Warranty Card

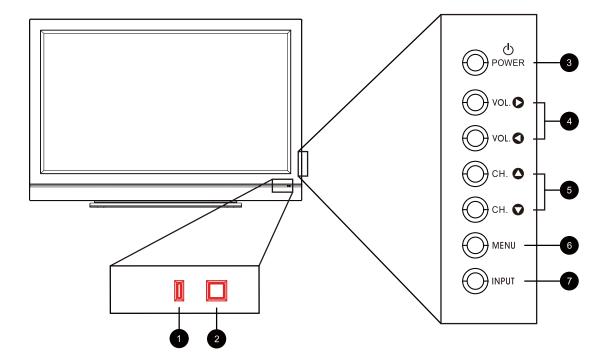


Power Cord

User Manual

Quick Start Guide

Side Panel Controls



Infrared Receiver

Receive IR signal from the remote control.

2 Status LED

Orange - Standby (Power OFF) with AC power detected

The LED will illuminate in orange color if the TV is shut-off but the main power cord is plugged into•the back of the unit.

Solid Green - Power ON

Receive IR signal from the remote control.

Power (Standby) Button

Turns power on or off from standby mode. There is a wait period between on or off cycles.

Volume Adjustment Buttons

Use these buttons to adjust volume up and down. These keys also serve as navigation and adjustment keys when On Screen Display menu is engaged.

5 Channel Select Buttons

Use these buttons to select Channel up or down.

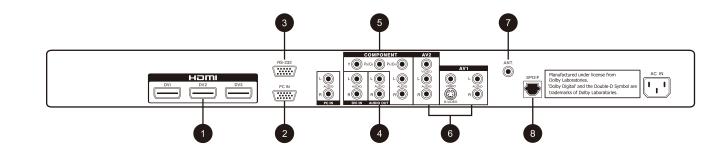
Menu Button

Use this button to engage the On Screen Display menu.

Input Button

Use this button to switch between available inputs.

Rear Panel Connections



7

Digital HDMI/DVI Inputs

Connects to the digital video signals from a DVD player or Set-Top Box.

PC Input

Connect to another computer monitor for chaining applications.

BS-232 Connector

Connect to a computer serial port.

4 Audio Output

Variable or fixed audio output jacks for connecting to an external audio amplifer.

Component Video Inputs

Auto-detecting component video inputs (Y/Pb/Pr or Y/Cb/Cr) for connecting to the component output jacks of a DVD player or Set-Top Box.

6 Composite / S-Video Inputs

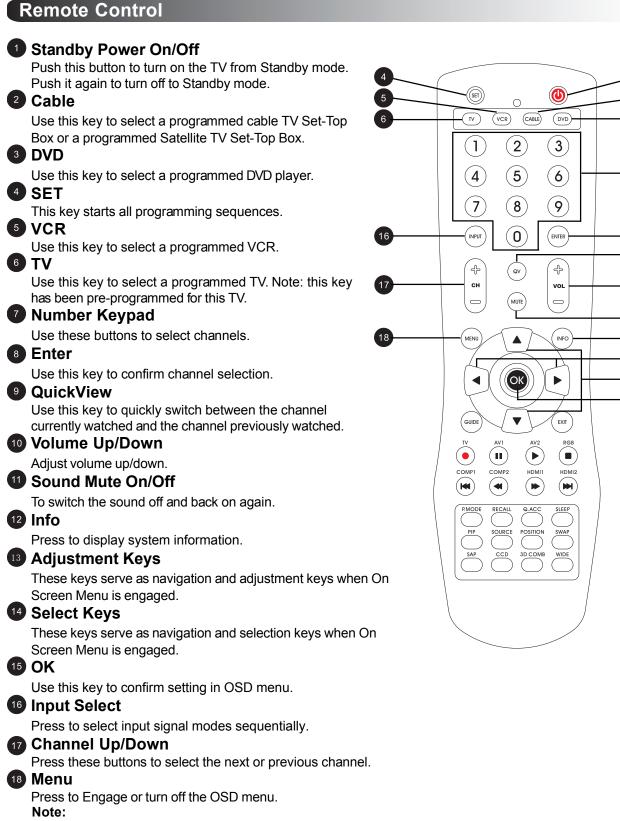
Connect Composite or S-Video signals from external sources such as VCRs or DVD players.

Antenna Jack

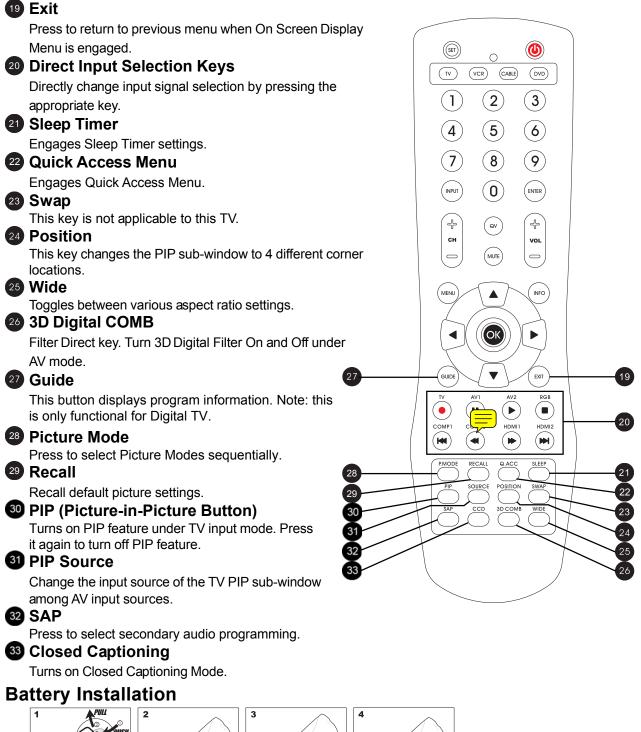
Connect to an antenna, cable service for standard NTSC service or digital cable for Digital TV.

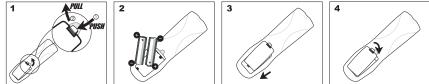
SPDIF Digital Audio Output

When the Digital TV input is selected for viewing, the digital audio associated with Digital programming will be available on this output for connection to your home theatre system.



Remote Control (con't)



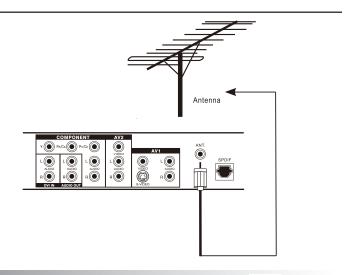


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Connecting TV, CATV or ATSC Connecting to TV, Cable TV or ATSC

Connecting the RF cable from the antenna or cable socket to the RF connector labeled as ANT. on the back of the TV.



Connecting a VCR

Using S-Video Input

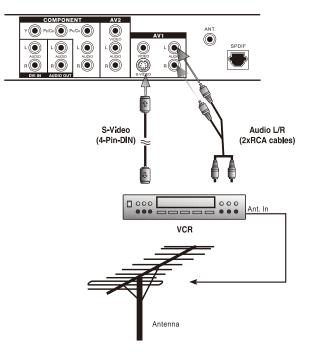
Connect the S-Video (4-pin DIN) connector from the VCR to the S-Video input on the back of TV.



Connect the red (R) and white (L) audio output from the VCR to the R and L audio input located next to the S-Video connector.

Note:

 For TV Channels setup please refer to VCR user manual for details.



Using Composite Input

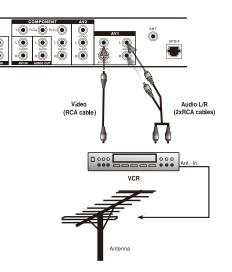
Connect the Video (yellow) out connector from the VCR to the Video (yellow) input on the back of TV.



Connect the red (R) and white (L) audio output from the VCR to the R and L audio input located next to the Video (yellow) connector.

Note:

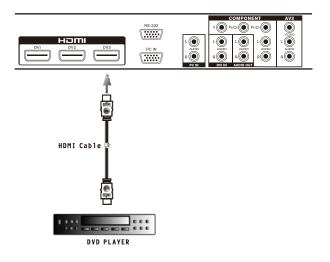
- There are two sets of composite inputs provided.
- For TV Channels setup please refer to VCR user manual for details.



Connecting a DVD

Using HDMI Input

Connect the HDMI Connector from the DVD to the HDMI input located on the back of the TV.



Using Component Video Input

Connect the green-colored (labeled as Y) jack from the DVD to the green-colored input of the TV.



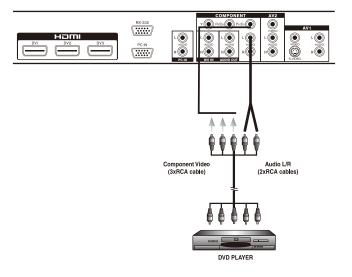
3

Connect the red-colored (labed as PR or CR) jack from the DVD to the red-colored PR/CR input of the TV.

16

Connect the blue-colored (labed as P_B or C_B) jack from the DVD to the blue-colored PB/CB input of the TV.

Connect the red (R) and white (L) audio jacks from the DVD to the R and L audio-in input located next to the PR/CR connector.



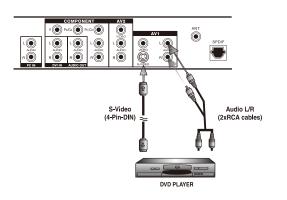
Using S-Video Input



Connect the S-Video (4-pin DIN) connector from the DVD to the S-Video input on the back of TV.



Connect the red (R) and white (L) audio jacks from the DVD to the R and L audio-in inputs located next to the S-Video connector.



Using Composite Input



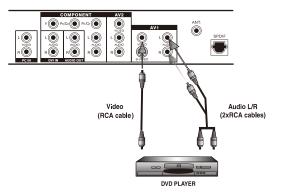
Connect the Video (yellow) out connector from the DVD to the Video (yellow) input on the back of TV.



Connect the red (R) and white (L) audio-out jacks from the DVD to the R and L audio-in inputs located next to the Video (yellow) connector.

Note:

There are two sets of composite inputs provided.





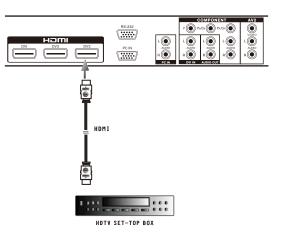
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Connecting a Set-Top Box

Using HDMI Input



Connect the HDMI connector from the back of the HDTV Set-Top Box to the HDMI input located on the back of the TV.

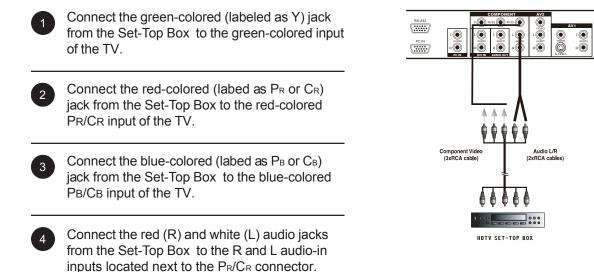


Notes:

- Some HDTV Set-Top Boxes may not have a HDMI output. Use Component Video input or PC input method if this is the case.
- Upon connecting your HDTV Set-Top Box to the HDMI input of the TV, it may be necessary to adjust various picture settings on the TV to correctly match the output of the HDTV Set-Top Box. This is caused by the different video timings set by various HDTV Set-Top Box manufacturers.

Using Component Video Input

Some HDTV Set-Top Boxes may not have a Component Video output. Instead, use PC input method.



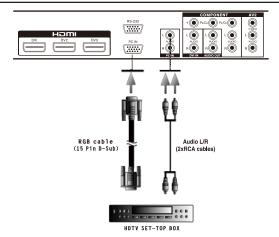
Connecting a Set-Top Box

Using TV Input



Connect the 15-pin D-Sub RGB connector from the back of the HDTV Set-Top Box to the PC-IN Connector located on the back of the TV.

EN 18 2 Connect the red (R) and white (L) audio-out jacks from the HDTV Set-Top Box to the R and L audio-in jacks located next to the PC-IN Connector.



Notes:

- Some HDTV Set-Top Boxes may not have a PC output. Use Component Video input or HDMI input method if this is the case.
- Upon connecting your HDTV Set-Top Box to the PC input of the TV, it may be necessary to adjust various picture settings on the TV to correctly match the output of the HDTV Set-Top Box. This is caused by the different video timings set by various HDTV Set-Top Box manufacturers.

External Audio Connections

Connecting to External Amplifiers

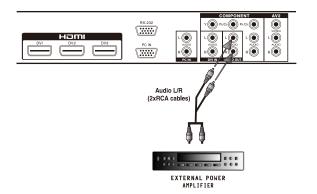
This TV can be connected to an external amplifier using the AUDIO OUT jacks located on the back of the TV.

2
Ξ,

Connect the red (R) and white (L) AUDIO OUT jacks from right side of the connector panel to the external amplifier.

Note:

The AUDIO OUT RCA jacks can be set to either Fixed or Variable audio output levels.



Connecting a PC

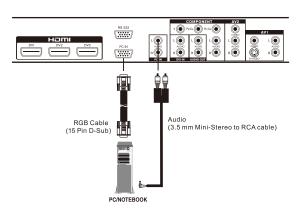
Using PC Video Input

1

2

For most PCs, connect the 15-pin D-Sub RGB connector from the back of the PC to the PC-IN Connector located on the back of the PC.

Connect the red (R) and white (L) audio jacks from the PC to the R and L inputs located next to the PC-IN Connector.



Setting Up Your TV Using Plug and Play

This TV adheres to VESA Plug and Play standard to eliminate complications when setting up the TV. This TV identifies itself to the computer and automatically sends the PC its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols.

How to Set up Your PC for Use with TV (Windows)

The display settings for a typical Windows-based computer are shown below; however, actual screens on your computer will differ depending on the version of Windows and video card equipped with the computer. Even though the actual screen may look different from example displayed below, basic set-up routine will apply in most cases.

1	

Go to Window's CONTROL PANEL by clicking: START, SETTINGS, CONTROL PANEL. The CONTROL PANEL Window is displayed. Select the DISPLAY icon from this window.





Connecting a PC (con't)

The DISPLAY PROPERTIES dialog box is displayed. Select the SETTINGS table to display your computer's video output settings.

Set the "Screen Resolution" settings to 1280x1024 PIXELS. For COLOR QUALITY, select 32 BIT COLOR (might also be expressed as 16 million colors).

If a vertical-frequency option exists, set the value to 50 or 60 Hz.

Click OK to complete the setting.

Note:

Both screen position and size will vary, depending on the type of PC graphics card and its resolution selected.

? X

splay Pro

Display: Plug and Play Mo

Less

Themes Desktop Screen Saver Appearance Settings

Troubleshoot... Advar

OK.

Cancel Apply

Supported Resolutions

This TV supports the following resolutions

	Horizontal	Vertical			
	Frequency	Frequency	Dot Rate	Vertical	Horizontal
Dot x Line	(KHz)	(Hz)	(MHz)	Polarity	Polarity
720 x 400@70Hz	31.469	70.087	28.322	+	-
640 x 480@60Hz	31.469	59.940	25.175	-	-
800 x 600@60Hz	37.879	60.317	40.000	+	+
1024 x 768@60Hz	48.363	60.004	65.000	-	-
* 1360 x 768@60Hz	47.712	60.015	85.500	+	+
1280 x 720p@60Hz	45.000	60.000	74.250	+	+
1280 x 1024@60Hz	63.981	60.020	108.00	+	+
1920 x 1080i@60Hz	33.750	60.000	74.250	+	+
720 x 480p@60Hz	31.469	59.940	27.000	-	-

Note:

- This TV does not support Macintosh resolutions.
- Resolution with * is only available for 50" TV.



Powering On/Off

Using Side Panel or Remote Control

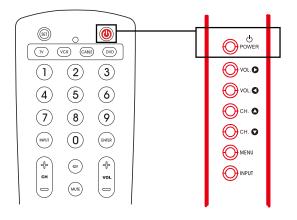


Press the () key on the panel or the remote control.



2 The TV will now turn on after a brief pause. The STATUS LED will now turn green to indicate power on status.

3 To turn power off, simply press the (1) key on the panel or the remote control once again.



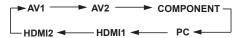
Changing Inputs

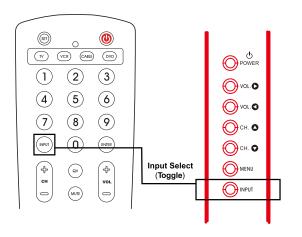
Using Side Panel or Remote Control

1	
_	

Press the INPUT key on the panel or the will key on the remote control.

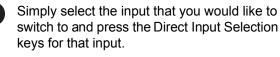
Pressing the will cycle the TV through all available input signal sources in the following order:





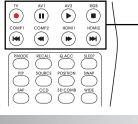
Using Direct Input Selection Keys

If you prefer not to cycle through all available inputs, you can use the Direct Input Selection keys located towards the bottom of the remote control.



Note:

 Component 2 direct input key is not applicable to this TV.



Direct Input Selection Keys

Volume Adjustment

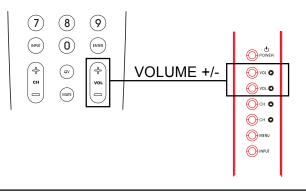
Using Side Panel or Remote Control

1

To turn up sound volume, press VOLUME + on either the side panel of TV or VOL + key on the remote control.



To turn down sound volume, press VOLUME - on either the side panel of TV or VOL - key on the remote control.

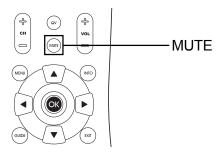


Using MUTE

If you would like to silence the volume on a temporary basis, simply press the we key to silence the volume. When the TV volume is muted, the TV will display MUTE on the upper right corner of the screen.



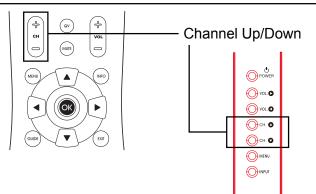
To disengage the mute mode, simply press the (www.) key again or the volume buttons.



Channel Up/Down

Using Side Panel or Remote Control

- To adjust TV channel up, press channel up on either the side panel of TV or CH + key on the remote control.
- 2 To adjust TV channel down, press channel down on either the side panel of TV or CH - key on the remote control.



On-Screen Display Menu

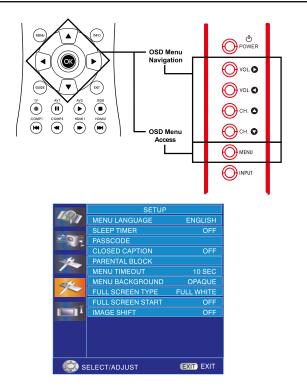
Accessing OSD Menu via Remote Control or Side Panel

The On-Screen Display (OSD) menu allows access to setup various parameters equipped with this TV.



To access the OSD menu, press (MENU) button or menu key on the side panel of TV.

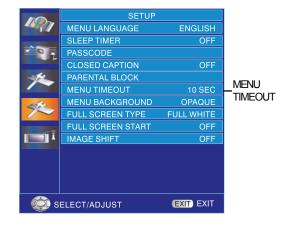
Navigation through the OSD Menu can be accomplished using the arrow keys on the remote control or using the side panel control keys.



OSD Menu Timeout Setting

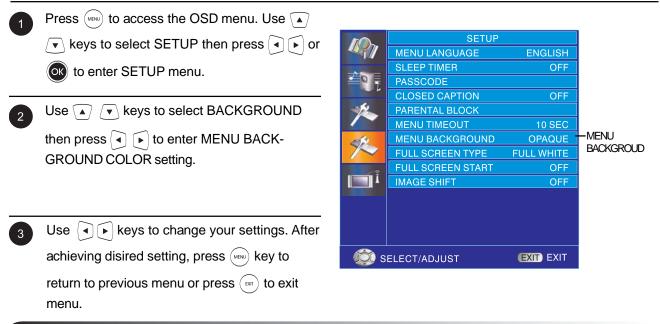
OSD Menu will automatically disappear after a preset period of time so that it doesn't remain on the screen. To change the menu timeout period, please follow the steps below.

1	Press (MENU) to access the OSD menu. Use (A) (I) keys to select SETUP from menu then press (I) (I) or (II) to enter SETUP menu.
2	Use 💽 💌 to select MENU TIMEOUT then press 🗨 🕞 to enter MENU TIMEOUT setting.
3	Use keys to change your settings. After achieving the disired setting, press key to return to previous menu or press to exit menu.



OSD Menu Background Color Setting

The background color of the OSD Menu can be customized. To change the MENU Background color setting, please follow the steps below.



On-Screen Status Display

Displaying Status

The On-Screen Status Display shows detailed information regarding the operational status of the TV. The status display automatically appears whenever there is a change in the state of the TV such as channel change or input change. The status display will automatically disappear after a period of time.

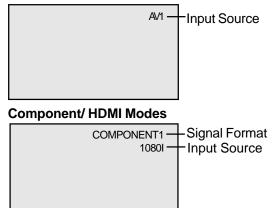


To manually show the Status Display, simply press the (100) key on the remote control.

Note:

- When using AV1 priority is given to the S-Video input.
- When using S-Video connection AV1 the status display will denote "[S]" to indicate the input source is using S-Video connector.

AV Mode



PC Mode



Understanding Widescreen Modes

This TV is capable of displaying a widescreen image on the native 16:9 aspect ratio screen. However, not all available video content fits perfectly in a widescreen (16:9) format resulting in unused screen space. This TV is capable of displaying images in various formats that is suitable for various types of content depending on its size.

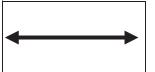
For 4:3 (Square) Content

Content from traditional TV, VCR, and some DVD's are formatted using a "square" 4:3 format. When viewing content in this "Square" format the following viewing modes are suitable.



4:3 (NORMAL)

In 4:3 mode, the original 4:3 image is preserved but black bars are used to fill the the extra space on the left and right.



16:9 (FULL)

The original 4:3 image is proportionally stretched to fill the entire screen. This is the default setting from factory.



PANOROMIC

The original 4:3 image is expanded in both the horizontal and vertical directions. The center of the picture is almost normal while the edges are considerably expanded.

Changing Aspect Ratios

Using Remote Control



All widescreen viewing modes are available by pressing the bar key. Pressing this key repeatedly will cycle through below modes:

Analog TV/Composite/S-Video Modes

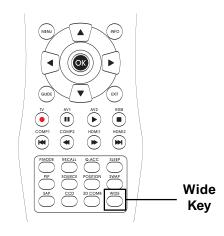
→ 16:9 → 4:3 — PANOROMIC

Digital TV

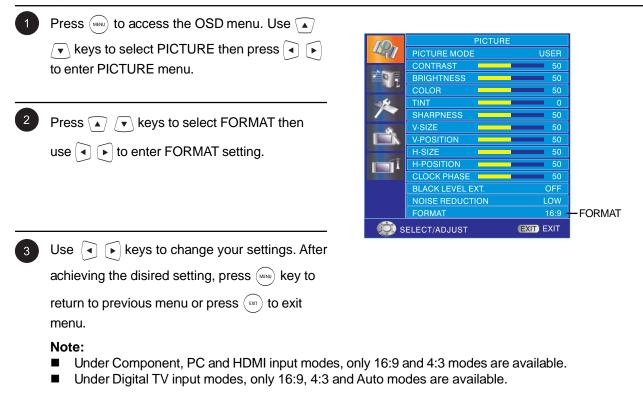
 $\xrightarrow{} \text{AUTO} \longrightarrow 16:9$

Component/HDMI/PC Modes

16<u>;</u>9 → 4<u>;</u>3



Using OSD Menu



Picture Controls



Adjusting Picture Settings

Using OSD Menu

Various picture adjustments can be set using the Picture Adjustment OSD menu.

Press the wew key on remote control or MENU

key on the front panel. Use \frown to select

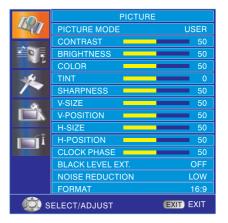
PICTURE then press • • or • key to enter PICTURE menu.

2

Use () to select options then press () () keys to confirm selection.

Notes:

- H-Position, H-Size, V-Position, V-Size adjustments are only available in HDMI and Component Video input modes.
- To restore picture settings to factory default, simply press the RECALL key from the remote control when the PICTURE menu is displayed.





A small display window appears upon selecting the option to change. Use to change the setting. As you change the setting, changes in the picture are immediately reflected in the video picture. After achieving the desired setting, press to return to previous menu

CONTRAST 50

Explanation of Various Picture Control Settings

Explanation of each available picture control settings are listed in the table below.

PICTURE MODE

or press (EXIT) to exit menu.

There are 4 preset picture modes that you can choose from to optimize the video picture according to the type of programming you are watching. (1)VIVID; (2)STANDARD; (3)CINEMA; (4)USER.

CONTRAST

Adjust Contrast to increase or decrease the level of white in the picture. Increasing contrast will make white areas of the video picture brighter. Contrast works in conjugation with Brightness.

BRIGHTNESS

Adjust brightness to enhance the level of dark areas in the picture such as night scenes and shadow scenes. Increasing brightness will make dark areas more visible.

COLOR

Use color to adjust the color saturation of the picture. Increasing color will make the color more intense. Reducing color setting will make the color less intense.

TINT

Use tint to adjust the color of fleshtones. Increase in the right direction will shift the picture with more green in appearance. Decreasing setting in left direction will shift the picture with more red in appearance.

SHARPNESS

Use sharpness to adjust the amount of detail enhancement to the picture. Increasing the setting will enhance the edges of objects in the picture. Decreasing the setting will reduce enhancement.

BLACK LEVEL EXTENSION

To enhance luminance and color transition. There are 2 settings to choose from: (1) ON, (2) OFF.

NOISE REDUCTION

To improve the quality of the picture in the case of poor reception.

FORMAT

Use to change various screen width modes. There are 2 modes to choose from: (1) 16:9, (2) 4:3. Please see details on page 27.

V-SIZE

Use to change vertical size of the picture. Increase to enlarge the picture size in the vertical direction. Decrease to reduce the picture size in the vertical direction.

V-POSITION

Use to change vertical position of the picture. Increase to shift the picture up. Decrease to shift the picture down.

H-SIZE

Use to change horizontal size of the picture. Increase to enlarge the picture size in the horizontal direction. Decrease to reduce the picture size in the horizontal direction.

H-POSITION

Use to change horizontal position of the picture. Increase to shift the picture to the right. Decrease to shift the picture to the left.

CLOCK PHASE

Use clock phase to fine-tune the monitor to perfectly synchronize to the video signal source under RGB mode.

Notes:

 H-Position, H-Size, V-Position and V-Size adjustments are only available in PC, DVI, and Component input modes.

Picture-in-Picture

Turning On PIP

PIP feature allows users to view two video input sources simultaneously.



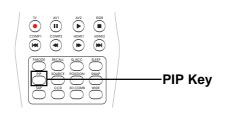
Press the interview will cycle thru the following modes:



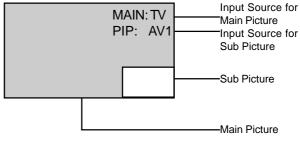
When engaged in PIP mode, a small window is displayed in one of the four corners. The OSD on the upper right corner will denote the input selected for main picture (large screen) and the sub-picture (small screen) displayed.

Note:

- Once PIP is turned off, the next time you return on PIP mode, the position of the subwindow will start at default position.
- PIP feature is only available under TV input mode.



PIP Mode

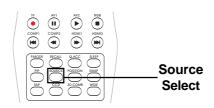


Selecting Signal Source for Sub-Picture

Various signal sources can be displayed within the sub-window under PIP picture mode. To select the input source for sub-window, please follow the steps below.



Once the PIP mode is turned on, you can change the sub-picture input source by pressing the two key.





Pressing the bar repeatedly will cycle through all available inputs for the sub-picture.



Note:

- Please see reference table on next page for available PIP input combinations.
- Sub-Picture feature is not available under S-Video input mode.

Available PIP Input Combinations

Main-picture and sub-picture input combinations are listed below for reference.

	Main F	Picture							
		TV	DTV	AV1	AV 2	Comp	PC	HDMI 1	HDMI 2
e	TV	/	-	-	-	-	-	-	-
tu	DTV	-	/	-	-	-	-	-	-
ictu	AV 1	-	\checkmark	/	-	-	-	-	-
۱ <u>ط</u>	AV 2	-	\checkmark	-	/	-	-	-	-
ف	Comp	-	-	-	-	/	-	-	-
Su	PC	-	-	-	-	-		-	-
	HDMI 1	-	-	-	-	-	-	/	-
	HDMI 2	-	-	-	-	-	-	-	

Note:

 Sub-Picture feature is not available under S-Video input mode.

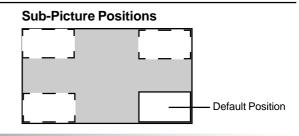
Changing Location of PIP Image

There are four preset positions where the PIP sub-window can be positioned. Once the PIP mode is turned on, you can switch the PIP sub-picture position to any one of the four corners of the screen.



Press the $\bigcirc^{\text{Position}}$ key to switch positions. Pressing the $\bigcirc^{\text{Position}}$ key repeatedly will cycle through

all four corners of the screen.



Noise Reduction

To improve the quality of the picture in the case of poor reception.

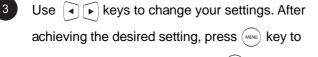
Press (MEN) to access the OSD menu and select PICTURE from the menu. Use (A) (V) keys to

select PICTURE then press \bigcirc \bigcirc or \bigcirc to enter PICTURE menu.

2

Use vers to select NOISE REDUCTION then press to enter NOISE REDUCTION setting.

In	PICT		
	PICTURE MODE	USER	
	CONTRAST	50	
0	BRIGHTNESS	50	
	COLOR	50	
-12	TINT	0	
	SHARPNESS	50	
	V-SIZE	50	
	V-POSITION	50	
	H-SIZE	50	
	H-POSITION	50	
	CLOCK PHASE	50	
	BLACK LEVEL EXT.	OFF	NOIOF
	NOISE REDUCTION	LOW -	NOISE
	FORMAT	16:9	REDUCTION
🧔 s	ELECT/ADJUST	EXIT EXIT	



return to previous menu or press (M) to exit menu.

Adjusting Screen Size

Due to the fact that various PC video cards and Set-Top Boxes have different specification, it is likely that the initial picture may not fit exactly to the resolution of the TV. Please use the following procedures to adjust the picture size and position.

A	
1)

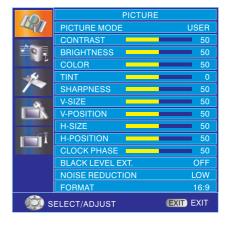
2

Press (mere) to access the OSD menu and select PICTURE from the menu. Use (a) (b) keys to select PICTURE then press (c) (c) or (c) to enter

PICTURE menu.

Use 🔦 / 🔍 keys to select V-Size, V-Position, H-

Size, and H-Position then press (•) (•) to enter V-Size, V-Position, H-Size, and H-Position setting.



3 Use 💽 keys to change your settings. After achieving the desired setting, press www key to return to previous menu or press with to exit menu.

V-POSITION 5



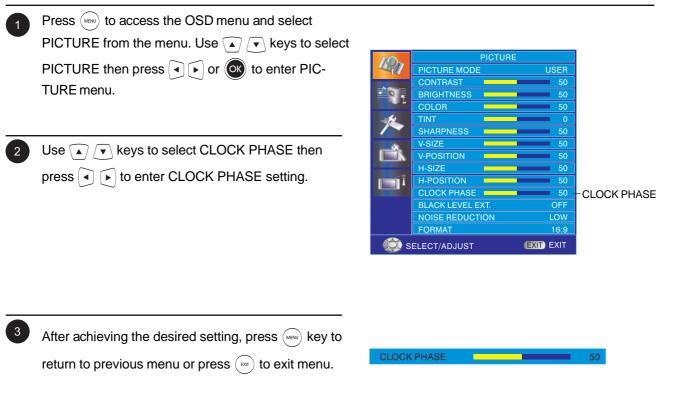
Repeat procedure for V-Size, V-Position, H-Size, and H-Position settings until video picture is fully displayed within the TV's display area.

Notes:

 H-Position, H-Size, V-Position and V-Size adjustments are only available in PC and Component input modes.

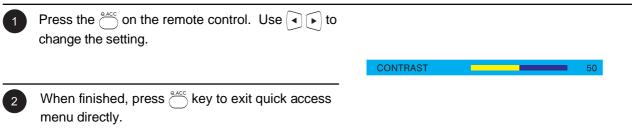
Fine Tuning PC Mode

Due to the fact that various PC video cards and Set-Top Boxes have different specifications, it is likely that the initial video picture have subtle noise or imperfections. Please use the following procedures to adjust the picture quality when using PC mode.



Quick Access Menu

Quick Access menu allows fast access to the most commonly used picture setting controls such as brightness, contrast, V-Size, V-Position, H-Size and H-Position. Please use the following procedures to access and adjust the picture setting.

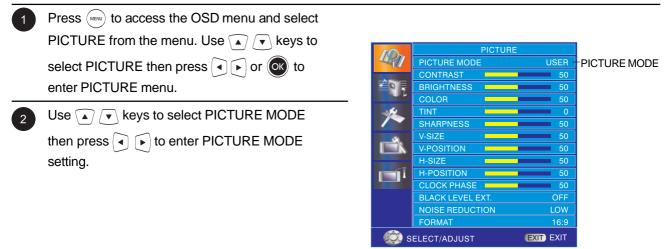


Note:

- For TV, AV, S-Video and HDMI modes: CONTRAST and BRIGNTNESS are available in QUICK ACCESS menu.
- For Component and PC modes: BRIGHTNESS, CONTRAST, V-SIZE, V-POSITION, H-SIZE and H-POSITION are available in QUICK ACCESS menu.
- Quick Access adjustments are only available when PICTURE MODE is set to "USER".

Picture Mode

To choose the pre-set picture modes that best suits the program you are viewing.



3

Use 💽 🕞 keys to change your settings.

After achieving the desired setting, press (MENU)

key to return to previous menu or press ${\ensuremath{\scriptscriptstyle \text{Ev}}}$ to exit menu.

 CONTRAST, BRIGHTNESS, COLOR and SHARPNESS are not adjustable once PICTURE MODE is set to STANDARD, CINEMA or VIVID.

EN

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Audio Controls



Audio Controls

Adjusting Audio Settings

Using OSD Menu

Various audio adjustments can be set using the audio adjustment OSD menu.

Press (MENU) to access the OSD menu. Use (keys to select AUDIO then press 💽 🕞 or 🞯 to enter AUDIO menu. 0 BALANCE SPEAKER AUDIO OUTPUT ON VARIABLE 2 Use \frown keys to select BASS then press \frown ▶ to enter BASS setting. 📖 SELECT/ADJUST EXIT EXIT



EN 38

> After achieving the desired setting, press (MENU) key to return to previous menu or press (M) to exit



50

BASS

menu.

38

Explanation of Various Audio Control Settings

Explanation of each available audio control settings is listed in the table below.

BASS

Adjusts the BASS level of the sound. For more bass response, increase the BASS level.

TREBLE

Adjusts the TREBLE level of the sound. For more vocal and high frequency response, increase the TREBLE level.

BALANCE

Adjusts the BALANCE level between LEFT and RIGHT channels.

SURROUND

This TV is equipped with Surround Sound circuitry. Use Surround Sound to simulate a surround sound effect if you are not using a multi-channel sound setup.

SPEAKER

Set to ON to turn on the TV's internal amplification and internal speakers. Set to OFF to turn off internal amplification and speakers. This setting will not affect AUDIO OUTPUT jacks.

AUDIO OUTPUT

Sets the type of audio output sent from the audio output jacks located in the rear of TV. When set to VARIABLE, audio output is affected by the TV's internal volume controls. When set to FIXED, the audio output bypasses the TV's internal audio control so that functions such as bass, treble, surround and volume controls have no effect.

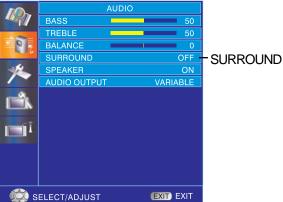
Audio Controls

Using Surround Sound

Turning On Surround Sound

This TV is equipped with a surround sound circuitry that enhances the sound when using two speakers.

Press we to access the OSD menu. Use
 keys to select AUDIO then press
 or or or to enter AUDIO menu.
 We to enter AUDIO menu.
 Use
 keys to select SURROUND then press
 to enter SURROUND setting.





Use keys to change your settings. After achieving the desired setting, press key to return to previous menu or press or to exit menu.

Built-in Amplification (Speaker)

Turning On Built-in Amplification

This TV is equipped with a built-in amplification for optional external speakers. You can switch the amplification ON or OFF using the OSD. Because these speakers are standard you may consider switching them OFF during hi-fidelity playback of movies or other content.



3 Use • keys to change your settings. After achieving the desired setting, press we key to return to previous menu or press or to exit menu.

Audio Controls

Fixed / Variable Audio Output

Setting Output Using OSD Menu

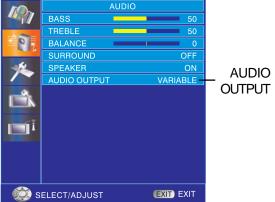
You can set the type of output from the rear panel audio output jacks. By using OSD menu, you can easily choose between variable or fixed audio outputs.





3

Use 💽 💌 keys to select AUDIO OUTPUT then press 💽 🕞 to enter AUDIO OUTPUT setting.



Use (•) (•) keys to change your settings. After

achieving the desired setting, press (MENU) key to return

to previous menu or press (err) to exit menu. When set to VARIABLE, audio output is affected by the TV's internal audio controls. When set to FIXED, the audio output bypasses the TV's internal audio controls.

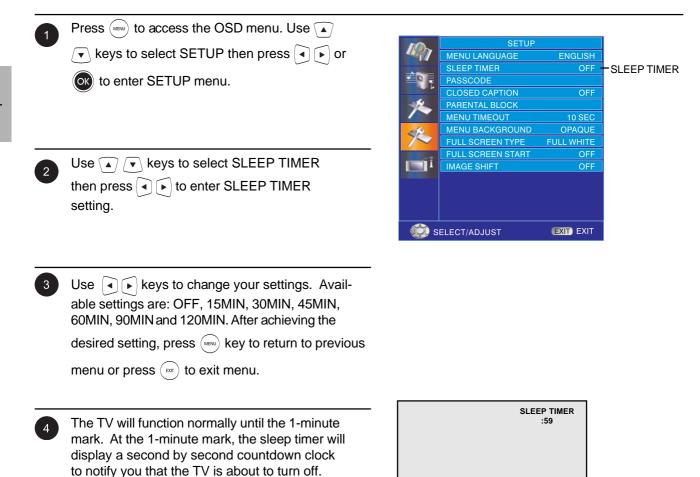
Advanced Functions



Sleep Timer

Setting Sleep Timer Using OSD Menu

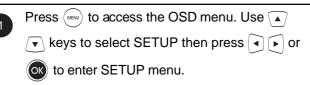
This TV has built-in sleep timer function. Once set, the TV will automatically shut-off without user intervention.



OSD Menu Language

Setting OSD Menu Language

This TV has multiple OSD Menu languages built-in including: English, French and Spanish.



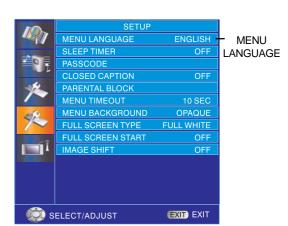
44

2

3

Use 🖪

Use 🔺 💌 keys to select MENU LAN-GUAGE then press 🗨 🕞 to enter MENU LANGUAGE setting.



EN 45

Power Save Mode

Setting Power Save Mode Using OSD Menu

▶ to select the desired OSD

desired setting, press (MENU) key to return to previ-

language. Available settings are: ENGLISH,

FRENCH and SPANISH. After achieving the

ous menu or press (xr) to exit menu.

This TV is equipped with a Power Save mode under PC input modes. When there are no signals detected by the TV, the TV will automatically go into sleep mode until signal is restored.

	Press (MRW) to access the OSD menu. Use \frown				
	√ keys to select SETUP then press () or				
		10-	SETUP		
	ov to enter SETUP menu.		MENU LANGUAGE	ENGLISH	
			SLEEP TIMER MENU TIMEOUT	OFF 10 SEC	
			MENU BACKGROUND	OPAQUE	
		12	POWER SAVE		POWER SAVE
			FULL SCREEN TYPE	FULL WHITE	1 011211 07112
2	Use 💽 💌 keys to select POWER SAVE	A.	FULL SCREEN START	OFF	
	then press 🕢 🕟 to enter POWER SAVE	7~	IMAGE SHIFT	OFF	
	setting.				
		i se	ELECT/ADJUST		
3	Use 📕 🕨 to select the desired amount of				
	time for power down after a signal is no longer				
	detected. Available settings are: 1MIN, 2MIN,				
	3MIN, 4MIN and 5MIN. After achieving the desired				
	setting, press (MENU) key to return to previous menu				
	or press 🗊 to exit menu.				
	_				

Note:

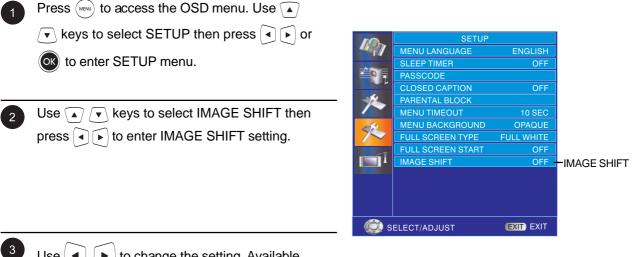
■ To turn on TV from sleep mode, simply follow Power On procedure.

Image Shift

EN

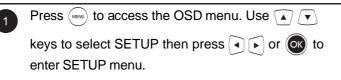
46

Image Shift screen eliminates electrically charged residual images and prevents burn-in images.

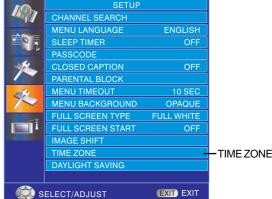


Use to change the setting. Available options are: OFF,10 SEC, 20 SEC and 30 SEC. After achieving the desired setting, press key to return to previous menu or press (b) to exit menu.

Time Zone



Use vers to select TIME ZONE then press vers to enter TIME ZONE setting.



3 Use I b to change the setting. Available options are: SAMOA, HAWAII, ALASKA, PACIFIC, MOUNTAIN, CENTRAL, EASTERN and ATLANTIC. After achieving the desired setting, press key to return to previous menu or press or to exit menu.

2

System Passcode Setting System Passcode The system passcode setting is used in conjunction with V-Chip (Parental Guide) and Channel Lock functions. The same security passcode is used for both functionality. By default, this TV is programmed with the security passcode set at 0000. Press (MENU) to access the OSD menu. Use (keys to select SETUP then press () (or (or (or) CHANNEL SEARCH enter SETUP menu. SLEEP TIMER -PASSCODE OSED CAPTION PARENTAL BLOC MENU BACKGROUND FULL SCREEN TYPE Use 🕻 🔺 / \checkmark **v** \setminus to select the PASSCODE option OPAQUE FULL WHITE then press \frown to enter PASSCODE menu. OFF TIME ZONE 📖 SELECT/ADJUST EXIT EXIT A small display window appears prompting the 3 user to enter the existing passcode. Use the number keys on the remote control to input the ENTER CODE EXIT code. If the code has not been set before, please use the default "0000" code. As each numeric digit is entered, a small "X" fills each slot. If the code entered is incorrect, an "Error" status is displayed. Simply re-enter ENTER CODE EXT EXIT the passcode again. Notes: When entering the 4-digit passcode, please **Error Condition** enter the digits slowly. The TV will display "X" in each of the number slots as it receives the passcode. If the wrong passcode is entered three ENTER CODE EXIT times, the TV will go back to the SETUP menu. Repeat the above procedure to reset your passode. After the original passcode is entered correctly, the TV will now prompt the entering of a new passcode. Enter a four digit passcode using EXIT the numeric keypad on the remote control. ENTER CODE E

Re-enter the new passcode one more time to confirm.

Note:

- If the wrong passcode is entered three times, the monitor will go back to the previous step and request a new passcode to be set again.
- Please contact authorized customer service center if you forget the pass code.



Daylight Saving

Press we to access the OSD menu. Use

2

Use vertex keys to select DAYLIGHT SAVING then press vertex to enter DAYLIGHT SAVING setting.

TO-	SETUP		
	CHANNEL SEARCH		
	MENU LANGUAGE	ENGLISH	
0	SLEEP TIMER	OFF	
	PASSCODE		
12	CLOSED CAPTION	OFF	
	PARENTAL BLOCK		
do	MENU TIMEOUT	10 SEC	
7~	MENU BACKGROUND	OPAQUE	
	FULL SCREEN TYPE	FULL WHITE	
	FULL SCREEN START	OFF	
	IMAGE SHIFT		
	TIME ZONE		
	DAYLIGHT SAVING	-	_ DAYLIGH
			SAVING
🧔 s	ELECT/ADJUST	EXIT EXIT	

3

Available options are: OFF and ON. After achieving the desired setting, press (web) key to return to previous menu or press (corr) to exit menu.

Full Screen Type



- Press (MENU) to access the OSD menu. Use (\checkmark keys to select SETUP then press \checkmark \checkmark or



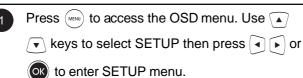
2 Use 🔊 💽 keys to select FULL SCREEN TYPE then press (•) (•) to enter FULL SCREEN TYPE setting.



Use $(\blacktriangleleft) [\blacktriangleright)$ to change the setting. Press (MENU) to

return to previous menu or press (∞) to exit the menu.

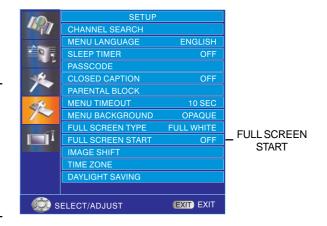
Full Screen Start



Use $\overline{}$ keys to select FULL SCREEN START then press (
) to enter FULL SCREEN START setting.

3 Use (\bullet) (\bullet) to change the setting. Press (we to

return to previous menu or press (EXIT) to exit the menu.



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Flat Panel TV

TV Functions



Memorizing Channels

Setting Tuner to AIR or CABLE

The TV tuner is compatible with Cable TV or standard reception using an antenna. Users must setup the tuner to either AIR or CABLE reception modes prior to memorizing channels.



The CHANNEL SEARCH menu is now displayed. Use $\overline{}$ $\overline{}$ $\overline{}$ keys to select AUTO SCAN.

CHANNEL SEARCH						
AUTO SCAN	۲	AIR	>			
MANUAL SCAN						
🀑 SELECT/ADJUST 📧	SET		хіт			



3

4 Use (I) keys to set the TV tuner to AIR or CABLE. If you are using an indoor/outdoor TV antenna, please select AIR. If you are using Cable TV, please select CABLE. When complete, press

MANUAL SCAN SELECT/ADJUST 💽 EXIT

1

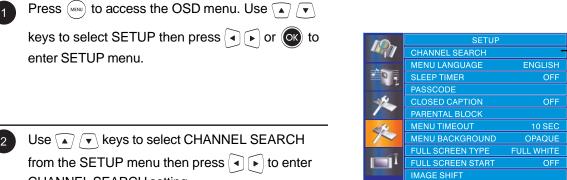
(MENU) to return previous menu or press (EXIT) key to exit menu.

52

EXIT EXIT

Channel Search

After setting the TV Tuner to either AIR or CABLE reception mode, use the TV's internal channel search mode to automatically scan for available TV stations.



CHANNEL SEARCH

EN

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from the SETUP menu then press (•) (•) to enter CHANNEL SEARCH setting.

The TV TUNER setup menu is now displayed. Use

 $\overline{(\mathbf{A})}/\overline{\mathbf{V}}$ keys to select AUTO SCAN to start to scan.



TIME ZONE

SELECT/ADJUST



3

The TV will now search all available channels. It may take several minutes for the search to complete. When the search is complete, the screen will display 100% to indicate the search is finished.



53

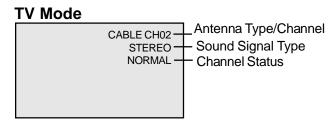
On-Screen Status Display (TV / Digital TV Mode)

Displaying Status

The On-Screen Status Display shows detailed information regarding the operational status of the TV under TV mode. The status display automatically appears whenever there is a change in TV channels. The status display will automatically disappear after a timeout period.



To manually show the Status Display, simply press the (s_{NO}) key on the remote control.



Digital TV Mode

2-1 KNBC	Afternoon News	April 13, 2006	12:1	4pm
Barbara Walters g	ets attacked by George Bush Sr. fo an interview with the expresident. F	r making lewd, suggestive Rumors have it that Walters, a	(PG-13)	
Successiai journai	st, has a very rare disorder which o lore tonight, on 20/20.	causes her to lust after	(CC)	(1080i

Explanation of Channel Status

NORMAL

Channel is available for normal viewing.

ERASE

Channel is set to ERASE to make the channel un-available for viewing. When you use CH UP/DOWN keys to scroll thru channels, this channel will skip. However, this channel can still be tuned by manually keying the channel using the number keypad on the remote.

CH ADD

Channel is set to ADD to make the channel available for viewing. When you use CH UP/DOWN keys to scroll thru channels, this channel will appear.

FAV

Channel is set to Favorite status so that it can be recalled using the FAV.CH key.

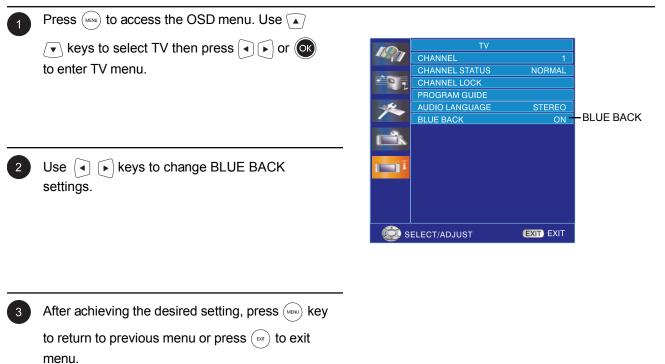
LOCK

Channel is set to LOCK to block the channel from viewing unless a passcode is set.

Blue Back

Turning on Blue Back

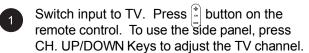
Blue Back setting eliminates the "snowflake" effect that results when a TV channel is not available by displaying a blue colored background.

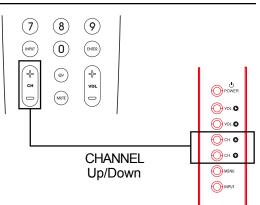


Changing Channels

Using Remote Control or Side Panel

To change TV channels, users can use either the remote control or the side panel keys.

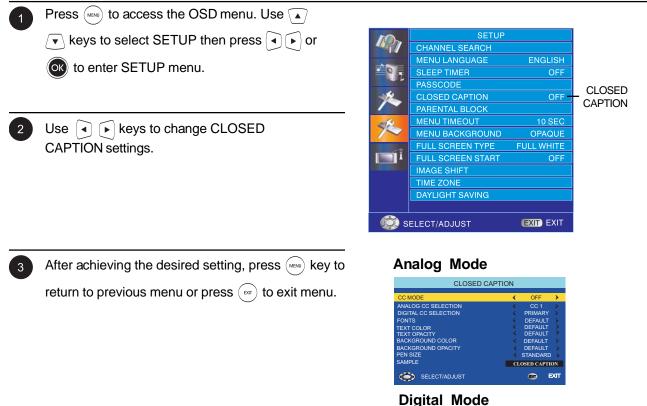




Closed Captioning (Analog/Digital TV Modes)

This TV supports Closed Captioning feature by displaying various texts related to television programs on the display.

Accessing via OSD Menu





Press the \bigcirc key on the remote control will cycle all available settings in following order: **Analog Mode** \bigcirc CC1 \rightarrow CC2 \rightarrow CC3 \rightarrow CC4 $_$ TEXT4 \leftarrow TEXT3 \leftarrow TEXT2 \leftarrow TEXT1 \leftarrow

Digital TV Mode

→ PRIMARY → SECONDARY → -SERVICE6 ← SERVICE5 ← SERVICE4 ← SERVICE3 ←

Explanation of Various Closed Captioning Font Settings

Explanation of each available Closed Captioning Font settings under Digital TV mode are listed in the table below:

Font

There are 9 preset font style that you can choose. (1) DEFAULT, (2) STYLE 1, (3) STYLE 2, (4) STYLE 3, (5) STYLE 4, (6) STYLE 5, (7) STYLE 6, (8) STYLE 7, (9) STYLE 8.

TEXT COLOR

Use to change color of font. There are 9 settings to choose form: (1) DEFAULT, (2) WHITE, (3) BLACK, (4) RED, (5) GREEN, (6) BLUE, (7) YELLOW, (8) MAGENTA, (9) CYAN.

TEXT OF OPACITY

Use to change opacity of font. There are 5 settings to choose from : (1) DEFAULT, (2) OPAQUE, (3) TRANSLUCENT, (4) TRANSPARENT, (5) FLASHING.

BACKGROUND COLOR

Select the color of text box. There are 9 settings to choose form: (1) DEFAULT, (2) WHITE, (3) BLACK, (4) RED, (5) GREEN, (6) BLUE, (7) YELLOW, (8) MAGENTA, (9) CYAN.

BACKGROUND OPACITY

Use to change opacity of text box. There are 5 settings to choose from : (1) DEFAULT, (2) OPAQUE, (3) TRANSLUCENT, (4) TRANSPARENT, (5) FLASHING.

PEN SIZE

Select the Pen Size. (1) DEFAULT, (2) STANDARD, (3) LARGE, (4) SMALL.

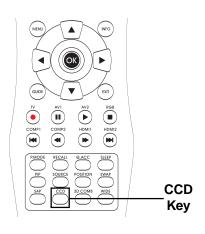
Accessing via Remote Control



Press the \bigcirc key on the remote control repeatedly to cycle through all available Closed Captioning modes.

Notes:

 Closed captioning is only available under TV/AV/ S-Video inputs.

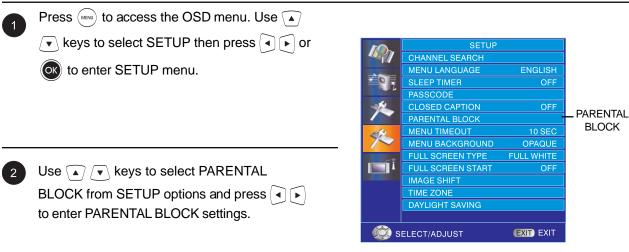


Parental Block (V-Chip)

V-Chip (Parental Guide) function is to prevent children from watching programs that are not suitable such as violent or adult content. The user must enter a PASSCODE before any of the V-Chip restrictions are set up or changed.

Enabling V-Chip

V-Chip is initially shipped from the factory set to OFF. To enable V-Chip, please follow the steps below.





A window will now prompt the user to enter a PASSCODE using the remote control. If the default system PASSCODE has not been changed, enter 0000 (this is the initial default from factory).



As each numeric digit is entered, a small "X" fills each slot. If the code entered is incorrect, an "Error" status is displayed. Simply re-enter the passcode again.

Notes:

- When entering the 4-digit passcode, please enter the digits slowly. The TV will display "X" in each of the number slots as it receives the passcode.
- If the wrong passcode is entered three times, the TV will go back to the SETUP menu.









After the original passcode is entered correctly, the TV will now show the V-Chip ON/OFF

window. Use (•) (•) keys to select ON or OFF. After making selection, confirm your selection

by pressing the or key. If ON is selected,

please proceed to the next section. If OFF is selected, the TV will display SETUP COM-PLETED briefly and return user to normal viewing.



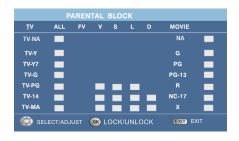
Setting Restrictions Using TV Guidelines

Prior to setting restrictions, users must first enable the V-Chip. After V-Chip is enabled, parental restrictions can be set using TV guidelines or the MPAA rating. This section covers setting restrictions using TV guidelines.



After V-Chip is enabled, users are presented with the TV Guidelines menu. Within this menu, there are six age-based categories:

TV-YYoung childrenTV-Y7Children 7 and overTV-GGeneral audienceTV-PGParental guidanceTV-14Viewers 14 and overTV-MAMature audience



In addition, you can choose to block all TV content for the entire age-based group or choose to block only certain types of content depending on their sub-ratings. For each age-based group, applicable sub-ratings may include:

- FV Fantasy Violence
- D Sexual Dialog
- L Adult Language
- S Sexual Situations
- V Violence

You will notice a letter U or letter B display. These letters represent the status block setting where U=Unblock and B=Blocked.

Use 💽 💌 🗨 🍉 keys to navigate through each age-based group and sub-rating catego-

ries within this menu. Use the key to set

each available setting to either U or B. To set TV content restrictions for the entire age-based group regardless of sub-rating categories, simply set U or B under the ALL column.

PARENTAL BLOCK								
ΤV	ALL	FV	v	S	L	D	MOVIE	
TV-NA							NA	
Τ٧-Υ								
TV-Y7							PG	
TV-G							PG-13	
TV-PG							R	
TV-14							NC-17	
TV-MA								

3 When all desired settings are complete, navigate to

NEXT PAGE option and press or key to complete

your setting. Once this is complete, the TV will prompt to the RESTRICTIONS USING MPAA RATING menu described in the next section.

PARENTAL BLOCK								
ΤV	ALL	FV					MOVIE	
TV-NA							NA	
ту-ү								
TV-Y7							PG	
TV-G							PG-13	
TV-PG							R	
TV-14							NC-17	
TV-MA								
SELECT/ADJUST 🞯 LOCK/UNLOCK EXIT EXIT								

Note:

V-Chip will automatically block higher categories that are more restrictive. For example, if users block TV-Y7 category, then TV-G and higher categories (TV-PG, TV-14, TV-MA) will automatically be blocked. The sub-ratings (D, L, S, V) also works similarly.

Setting Restrictions Using MPAA Guidelines

The MPAA guidelines uses the Motion Picture Association of America system for applying restrictions on movies being watched on the TV. When the V-Chip is set to on, the TV will automatically block all content that are coded with objectionable ratings as set using either MPAA or TV guidelines.

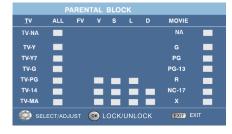


2

After TV Guidelines are set, users are presented with the MPAA Guidelines menu. Within this menu, there are seven MPAA categories:

- G General Audience (No Restrictions)
- PG Parental Guidance
- PG-13 Parents Strongly Cautioned
- R Restricted
- NC-17 No One Under 17
- X Adults Only

For each category, you will notice a letter U or letter B display. U=Unblock and B=Blocked.



Use \checkmark / \checkmark keys to navigate through each

category within this menu. Use the extreme key to set each category to either U or B.

PARENTAL BLOCK								
τv	ALL	FV					MOVIE	
TV-NA							NA	
TV-Y								
TV-Y7							PG	
TV-G							PG-13	
TV-PG							R	
TV-14							NC-17	
TV-MA								
SELECT/ADJUST OK LOCK/UNLOCK EXT EXIT								

моч

NA

G

PG

EXIT EXIT

When all desired settings are complete, navigate to

FINISH option and press or key to complete your

setting. Once this is complete, the TV will display V-CHIP SETUP COMPLETE and return you to normal viewing.

Note:

V-Chip will automatically block higher categories that are more restrictive. For example, if users block PG-13 category, then PG-13 and higher categories (R, NC-17, X) will automatically be blocked.

ALL

TV-14 TV-MA SELECT/ADJUST

OK LOCK/UNLO

TV-NA

TV-G

TV-PG

Using V-Chip

The V-Chip will block all incoming content that meets the guidelines set in the previous section. When this occurs, the TV's screen will display "BLOCKED". To resume normal viewing, please change to a different TV channel. Under certain conditions, the V-Chip may block all channels. If this should occur, simply disable the V-Chip function.

Note:

1

3

■ When V-Chip is enabled, PIP/ POP functions will be disabled.

Quick View

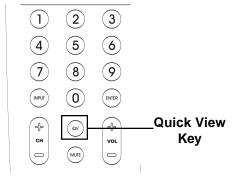
Quick View allows you to quickly switch between the channel currently watched and the channel previously watched.

Simply press the (∞) key on the remote

control to switch. Repeated pressing of the

(w) key will switch the channels back and

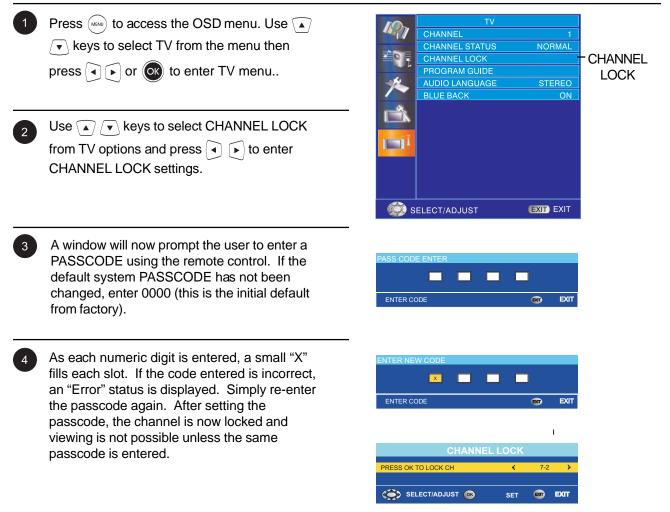
forth between the two.



Channel Lock

Setting Channel Lock

Set channel lock to block a TV channel from viewing.



Notes:

- When entering the 4-digit passcode, please enter the digits slowly. The TV will display "X" in each of the number slots as it receives the passcode.
- If the wrong passcode is entered three times, the TV will go back to normal viewing state.

Viewing a Locked Channel

To watch a channel that is locked, please follow the steps below:



When a channel is locked and selected for viewing by the user, the screen will prompt the user to enter the same PASSCODE that was used to set the channel lock.



2

3

Enter the 4-digit PASSCODE using the numberic keypad on the remote control.



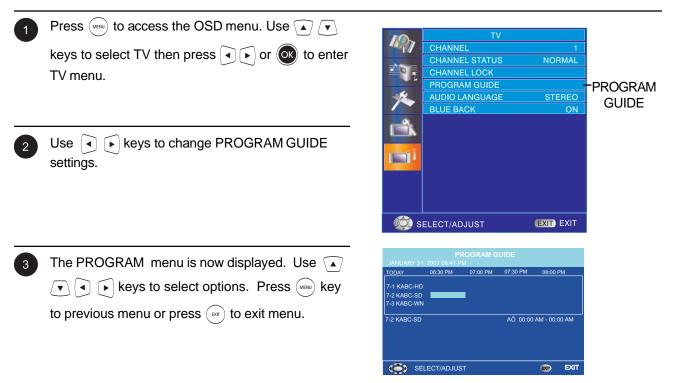
As each numeric digit is entered, a small "X" fills each slot. If the code entered is incorrect, an "Error" status is displayed. Simply re-enter the passcode again. After setting the passcode, the channel will be unlocked for viewing. ENTER NEW CODE

Notes:

- When entering the 4-digit passcode, please enter the digits slowly. The TV will display "X" in each of the number slots as it receives the passcode.
- If the wrong passcode is entered three times, the monitor will go to the previously viewed channel.
- Once the passcode is entered correctly, the TV will unlock all locked channels without prompting the entry of the passcode again until the monitor is powered off and on again.

Program Guide

Turning on Program Guide



Understanding HDTV

What is Digital Television or DTV?

Digital TVs are televisions that can receive and display digital television broadcasts sent using any one of three following categories: HDTV (High Definition TV), EDTV (Enhanced Digital TV), and SDTV (Standard Definition TV).

What is the Difference Between HDTV, EDTV, and SDTV?

HDTV, EDTV, and SDTV are three grades of televison or monitors. They reference the maximum resolution capability of a digital television or monitor to fully display digital broadcasts without having to down-convert the actual signal content to fit the monitors display limitations. The resolution requirements for each of the three DTV classifications and an explanation of the specifications are described below:

Vertical Res. ¹	Horizontal Res. ²	Aspect Ratio ³	Scan Method⁴				
1080 lines	1920 dots	16:9 Wide	Interlaced				
720 lines	1280 dots	16:9 Wide	Progressive				
HDTV grade televisions and monitors are capable of displaying a maximum of either							
1080 lines using interlaced scan method or 720 lines using progressive scan method.							



Vertical Res. ¹	Horizontal Res. ²	Aspect Ratio ³	Scan Method⁴				
480 lines	640 dots	4:3	Progressive				
	EDTV grade televisions and monitors are capable of displaying a maximum of 480 lines						
0.0		5	480 lines must be reduced				
to 480 lines in order to be displayed. Progressive scan method reduces flicker;							
		arily outperform 48	0 interlaced when viewed at				
normal viewing dis	stances.						



Vertical Res. ¹	Horizontal Res. ²	Aspect Ratio ³	Scan Method⁴			
480 lines	640 dots	4:3	Interlaced			
SDTV grade televisions and monitors are capable of displaying a maximum of 480						
lines using interlaced scan method. All resolutions higher than 480 lines must be						
reduced to 480 lines in order to be displayed.						

¹Vertical Resolution (Scan Lines)

Vertical scan lines refer to the number of horizontal lines a TV or monitor can display to create an image. As the number of lines increase, more information is displayed, resulting in better picture quality.

²Horizontal Resolution

Each horizontal line in a TV or monitor is made up of individual dots (pixels). The higher the number of pixels, the finer the TV picture becomes. Horizontal pixel measurements using today's technology can range from 250 for a VCR to as much as 500 for a DVD player.

³Aspect Ratio

Aspect ratio identifies the ratio of the TV screen's width over its height. A 16:9 aspect ratio refers to a wide-screen picture format, while a 4:3 refers to a standard square TV format.

4Scan Mode

Interlaced scanning is a method that creates a TV picture with alternating lines of information and is the cause for flickering. Progressive scanning is a method that creates a TV picture with consecutive lines of information that results in flicker-free picture quality.

What is "Down-Convert"?

Down-convert takes place when a digital broadcast signal exceeds the display capabilities of the display and the broadcast signal is reduced to match the television's limited display capabilities. For example, if a TV station broadcasts a digital program using 1080 lines (1080i format) while the display can only display 480 lines, the signal is reduced or down-converted to only 480 lines, resulting in lesser information being displayed.

What is "Up-Convert"?

Up-convert takes place when a digital television's display capabilities exceed the digital broadcast signal and the broadcast signal is increased to match the TV's display capabilities. For example, if a TV station broadcasts a digital program using 480 lines and the digital television is able to display 1080 lines, the signal is increased or up-converted to match the TV.

This TV includes advanced digital processing where all traditional analog television and video formats in the form interlaced signals are up-converted to 768 lines progressive scan method. Please note that up-conversion may result in some picture artifacts because information is being artificially added to the picture.

Advanced

Advanced

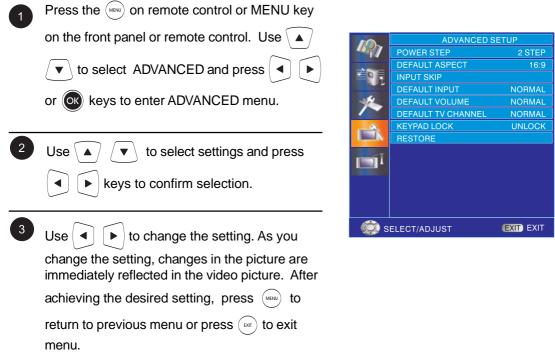


Advanced

Adjusting Advanced Settings

Using OSD Menu

Various picture adjustments can be set using the Picture Adjustment OSD menu.



Explanation of Various Picture Control Settings

Explanation of each available picture control settings are listed in the table below.

Power Step

Use Power Step to determine whether you would like the display to power-on automaticcally or remain turned off after power is restored after a "power-outage" incident. Select "1-Step" if you want the TV to power-on automatically.

Default Aspect

Use to select the default power-on aspect ratio upon power-up. There are three setting to choose from (1) 16:9, (2) 4:3, (3) Panoramic.

INPUT SKIP

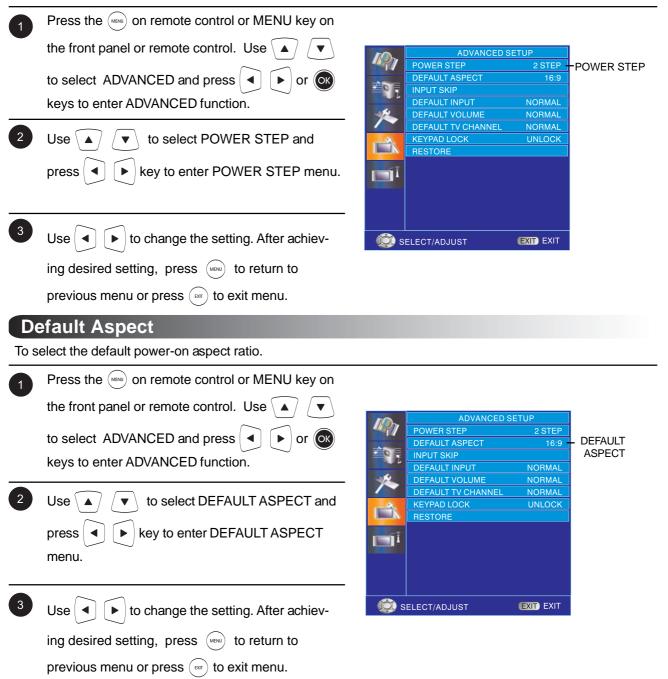
Use to select one input as only one skipped signal, other inputs are vaild. Select NORMAL to keep all inputs available.

Note:

- DEFAULT ASPECT setting will be functional after power has been reset.
- PANOROMIC setting from DEFAULT ASPECT is selectable under ANALOG, COMPOSITE and S-VIDEO modes.

Power STEP

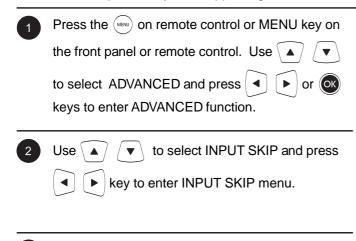
To switch TV to power-on automatically or remain turned off after power is resotred after a "power-outage" incident.



Advanced

Input Skip

To select one input as only one skipped signal.



Use to change the setting. After achieving the desired setting, press to return to previous menu or press (EMT) to exit menu.



3

Appendix



Troubleshooting

The following list represents possible anomalies that you may encounter and methods for remedy. Please refer to this checklist prior to contacting a service representative.

Symptom	Possible Cause	Remedy
No picture is displayed	 The power cord is disconnected. The main power switch on the back of the TV is not switched on. The selected input has no connection. The TV is in standby mode in RGB mode. 	 Plug in the power cord. Make sure the power switch is switched on. Connect a signal connection to the TV. Press any key on your keyboard.
Interference displayed on the TV or audible noise is heard	 Caused by surrounding electrical appliances, cars/motorcycles or fluores- cent lights. 	 Move the TV to another location to see if the interference is reduced.
Color is abnormal	1. The signal cable is not connected properly.	 Make sure that the signal cable is attached firmly to the back of the TV.
Picture is distorted with abnormal patterns	 The signal cable is not connected properly. The input signal is beyond the capabilities of the TV. 	 Make sure that the signal cable is attached firmly. Check the video signal source to see if it is beyond the range of the TV. Please verify its specifications with this TV's specification section.
Display image doesn't fill up the full size of the screen	 If under RGB mode, the H-Size and V-Size is incorrectly set. If under TV, AV1, AV2, or Component with 480i input, the 4:3 WIDE mode is switched on. 	 Use H-Size and V-Size to adjust the size of the video. Use the WIDE key to scroll through various full screen modes.
Can hear sound, but no picture	1. Improperly connected source signal cable.	1. Make sure that both video inputs and sound inputs are correctly connected.
Can see picture but no sound is heard	 Improperly connected source signal cable. Volume is turned all the way down. MUTE is turned on. 	 Make sure that both video inputs and sound inputs are correctly connected. Use VOLUME +/- to hear sound. Switch MUTE off by using the MUTE button.
Some picture elements do not light up	1. Some pixels of the display may not turn on.	 This TV is manufactured using an extremely high level of precision technology; however, sometimes some pixels of the TV may not display. This is not a malfuction. Please see the enclosed warranty card for more information.
After-Images can still be seen on the TV after the TV is powered off. (Examples of still pictures include logos, video games, computer images, and images displayed in 4:3 normal mode)	 A still picture is displayed for an over extended period of time. 	 Do not allow a still image to be displayed for an extended period of time as this can cause a permanent after-image to remain on the TV.

Wall Mount Instructions

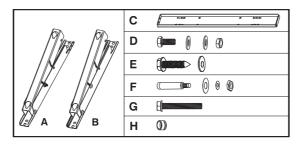
1

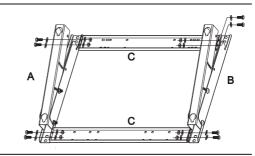
Empty contents of the package. Make sure the following items are present.

- A. Left Wall Angle Module
- B. Right Wall Angle Module C. Horizontal Support x 2
- D. Screws for Adjustment Angle x 8
- E. Screws for Wooden Wall Mounting x 8
- F. Screws for Cement Wall Mounting x 8
- G. Screw x 4
- H. Mounting Peg and Screw x 4



Attach Horizontal Supports to the Left and Right Wall Angle Module (A and B) with screws (D).



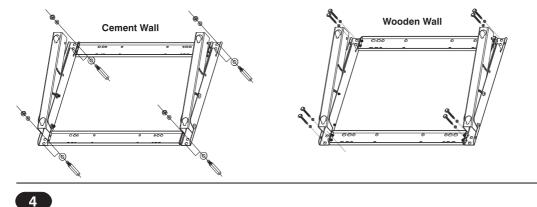


3

Install the Wall Mount Bracket onto the wall.

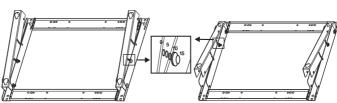
Note:

The screws in this package are for mounting onto a wooden or a cement wall. Different kind of walls needs different type of screws. Please consult with a qualified installer to make sure your wall is capable of supporting his bracket and plasma display.



You can adjust the inclination angle

(0, 5, 10, 15 degrees) by adjusting the screws position on the Wall Mount Module.

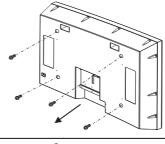


Wall Mount Instructions

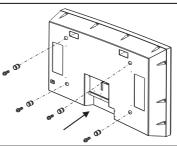


6

Remove the four mounting screws on the rear of the display.

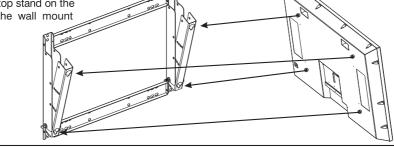


Screw mounting pegs (H) to the rear of the display with the screws removed in step 5.



7 Remove the

Remove the pedestal table-top stand on the unit, install the unit onto the wall mount bracket.

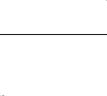


8

- Put the plasma display on Wall Mount, by matching the 4 pegs to the holes on Wall Mount.
- Use the screws(G) to secure the display to the Wall Mount by tightening the screws through the holes on the right and left sides of the Wall Mount.

Note:

- Wall mount bracket is an optional accessory, please contact your local sales agent for more information.
- This type of equipment is to be installed by qualified installers, please contact an authorized dealer for installation.
- Please make sure that your wall is capable of supporting this wall mount and plasma display which can easily weigh over 120 kg (265 lbs.).



Specifications for 58" TV

Display Panel Screen size 58" 16:9 Aspect ratio 1366 (Horizontal) x 768 (Vertical)pixels 0.942 (Horizontal)mm x 0.942 (Vertical)mm Number of pixels **Pixel Pitch** 1200 cd/m², at APL1% Luminance **Power Source** 100 ~ 240Vac, 50 / 60Hz Input voltage Input current 6A Max. (at 110Vac) Inrush current 67A p-p/20ms Max. (at 240Vac) Power consumption 660 Watts (at 110Vac/color bar pattern) Stand-by 1 Watts Max. (at 110Vac) Connection **Connector Types** Video Composite jack X 2 sets S-Video jack (4 pin Din S-Terminal) X 1 set Video Component RCA jack X 1 set RGB (15 pin D-SUB) X 1 set HDMI (19 pin) X 3 set USB X 1 set (for service only) Audio L/R jack X 5 sets RF input X 1 set RS-232 (9 pin D-SUB) X 1 set Video/S-Video Signal Type Analog Polarity Positive Amplitude d. Video 1Vp-p, (priority S-Video) Y=1Vp-p C=0.286Vp-p Frequency H: 15.734KHz V: 60Hz (NTSC) H: 15.625KHz V: 60Hz (PAL) Input impedance 75 ohms Y/CB/CR or Y/PB/PR Signal (Component 1 & 2) Туре Analog Polarity Positive Amplitude AV: 1Vp-p (with sync)/750 ohms S-Video: Y: 1Vp-p, C: 0.286Vp-p Frequency Y/CB/CR H: 15.734KHz V: 60Hz (NTSC) Y/PB/PR: HDTV H: 31KHz V: 60Hz (480p) H: 45KHz V: 60Hz (720p) H: 33KHz V: 60Hz (1080i) **PC Signal** Type TTL Polarity Positive or Negative Amplitude PC: 0.7Vp-p H: support to 31K ~ 64KHz Frequency

V: support to 50 ~ 7KHz

Specifications for 58" TV(con't)

HDMI Signal

Туре	Digital
Polarity	Positive or Negative
Frequency	H: support to 31K ~ 64KHz
	V: support to 50 ~ 70Hz

Audio: 1.0Vp-p

Audio Signal

Pin Assignments For D-SUB connector (in / loop out) Pin Signal Assignment Pin Signal Assignment Pin Signal Assignment

 enginari teel	9	one i ni oigin		granione i an orgin		iginnone		
RED	4	N.C.	7	GREEN Return	10	GND	13	H-SYNC
GREEN	5	GND	8	BLUE Return	11	N.C.	14	V-SYNC
BLUE	6	RED Return	9	5V Supply	12	DDCData	15	DDC Clock

Pin Signal Assignment 17 Ground (For +5V)

19 RX_HOTPLUG

18 IN 5V

Pin Assignments For 19 Pin HDMI connector (digital only)

Pin	Signal Assignment	Pin	Signal Assignment
1	HDMI_RX2+	9	HDMI_RX0-
2	Ground (For +5V)	10	HDMI_RXC+
3	HDMI_RX2-	11	Ground (For +5V)
4	HDMI_RX1+-	12	HDMI_RXC-
5	Ground (For +5V)	13	No Connect
6	HDMI_RX1-	14	No Connect
7	HDMI_RX0+	15	RX5V DDC SCL
8	Ground (For +5V)	16	RX5V DDC SDAt

Y/PB/PR	For	Comp	onent	1
---------	-----	------	-------	---

Mode	Resolution	Refresh Rate
1	720 x 480i	60
2	720 x 480p	60
3	1280 x 720p	60
4	1920 x 1080i	60

Maximum Resolution Up to 1360 x 768

Dimensions & Weight

	With/Stand	Without/Stand
Width	1436 mm/56 1/2"	1436 mm/56 1/2"
Height	993 mm/39"	958 mm/37 1/2"
Depth	360 mm/14"	124 mm/5"
Weitht	66 kgs/145.5 lbs	63.9 kgs/140.9 lbs

Operating

76

Temperature	5 ~ 40°C
Relative humidity	20 ~ 70%
Altitude	307~1013 hpa

Non-Operating

Temperature	-20 ~ 70°C
Relative humidity	5 ~ 85%
Altitude	307~1013 hpa

1

2 3

How to Program the Universal Remote Control

You can program the remote control with three different components. Please follow below instruction to program your VCR, Cable Box/Set-Top Box or DVD Player.

Four Easy Steps for Programming

Press the vcn, we or wo button on the remote control.

Press and hold the 🛞 button until the LED LIGHT flashes twice.

Find the brand of your VCR, Cable Box/Set-Top Box or DVD Player in the component code list

and enter the 5 digital code numbers by using the number buttons. If the code is accepted, the LED will flash after the last digit is entered. If the LED does not flash twice, please repeat above steps 1 and 2 until LED flashes twice.



2

3

Point the remote control at the VCR, Cable Box/Set-Top Box or DVD Player then presses the 🔕 button.

The component should be turned on by the remote control.

Note:

- If your VCR, Cable Box/Set-Top Box or DVD Player does not respond, try other codes for your brand.
- Sometimes a code listed will only include limited functions. Try other codes that may include more functionalities.

Setup (Code For VCRs
ABS	21972
Admiral	20048, 20209
Aiko	20278
Aiwa	20037, 20479
Alienware	21972
America Action	20278
American High	20035
Amoisonic	20479
Anam	20162, 20037, 20240, 20278
Anam National	20162
Asha	20240
Audiovox	20037, 20278
Beaumark	20240
Bell & Howell	20104
Broksonic	20184, 20121, 20209, 20002,
DIOKSOIIIC	20184, 20121, 20209, 20002, 20479
Calix	20037
Canon	20035
	20035
Carver	
CCE	20072, 20278
Changhong	20048, 20081
Citizen	20037, 20278
Colt	20072
Craig	20037, 20047, 20240, 20072
Curtis Mathes	20060, 20035, 20162
Cybernex	20240
CyberPower	21972
Daewoo	20045, 20104, 20278
Dell	21972
Denon	20042
DirecTV	20739
Durabrand	20039, 20038
Electrohome	20037
Electrophonic	20037
Emerex	20032
Emerson	20035, 20037, 20184, 20240,
	20045, 20121, 20043,
	20209,20002, 20278, 20479
Fisher	20047, 20104
Fuji	20035, 20033
Fujitsu	20045
Gateway	21972
GE	20060, 20035, 20240
General	20045
Go Video	20432
GoldStar	20037, 20209, 20038, 20225
Haojie	20240
Harman/Kardon	20081, 20038
Harwood	20072
Hewlett Packard	21972
HI-Q	20047
Hitachi	20037, 20042, 20055
Howard Computers	21972
HP	21972
Hughes Network	20042, 20739
Systems	
IBUYPOWER	21972
JVC	20045, 20067
KEC	20037, 20278
Kenwood	20067, 20038
KLH	20072

	Code For VCRs
Kodak	20035, 20037
Kolin	20043
LG	20037, 20045, 20042, 20209,
1 1.	20038
Logik	20072
LXI	20037
Magnavox	20035, 20039, 20081
Magnin	20240
Marantz	20035, 20081
Marta	20037
Matsushita	20035, 20162
Media Center PC	21972
MEI	20035
Memorex	20035, 20162, 20037, 20048,
	20039, 20047, 20240, 20104,
	20479
MGA	20240, 20043
MGN Technology	20240
Microsoft	21972
Mind	21972
Minolta	20042
Mitsubishi	20067, 20043
Motorola	20035, 20048
MTC	20240
Multitech	20072
NEC	20035, 20037, 20048, 20104,
	20067, 20038
Newave	20037
Nikko	20037
Noblex	20240
Northgate	21972
Olympus	20035
Optimus	21062, 20162, 20037, 20048,
•	20104, 20432
Orion	20184, 20209, 20002, 20479
Panasonic	21062, 20035, 20162, 20616,
	20225
Penney	20035, 20037, 20240, 20042,
	20038
Pentax	20042
Philco	20035, 20479
Philips	20035, 20081, 20739, 20618
Pilot	20037
Pioneer	20042, 20067
Polk Audio	20081
Profitronic	20240
Proscan	20060
Protec	20072
Pulsar	20039
Qisheng	20060
Quasar	20035, 20162
Radix	20035, 20182
Randex	20037
	20060, 20035, 20240, 20042,
RCA	
Dealiatia	20880
Realistic	20035, 20037, 20048, 20047,
Dealer (T) (20104
ReplayTV	20616
Runco	20039
Sampo	20037, 20048
Samsung	20240, 20045, 20432

Setup Code For VCRs			
Sanky	20048, 20039		
Sansui	20067, 20209, 20479		
Sanyo	20047, 20240, 20104		
Scott	20184, 20045, 20121, 20043		
Sears	20035, 20037, 20047, 20042,		
	20104		
Sharp	20048, 20209		
Shintom	20072		
Shogun	20240		
Singer	20072		
Sonic Blue	20616		
Sony	20035, 20032, 20033, 20636,		
	21972		
STS	20042		
Sylvania	20035, 20081, 20043		
Systemax	21972		
Tagar Systems	21972		
Tashiko	20037		
Tatung	20045, 20067		
Technics	20035, 20162		
Тесо	20035, 20037, 20048, 20038		
Teknika	20035, 20037		
Tivo	20636, 20618, 21503, 20739		
TMK	20240		
Toshiba	20045, 20042, 20067, 20043,		
	21503, 21008, 21972		
Totevision	20037, 20240		
Touch	21972		
Unitech	20240		
Vector	20045		
Vector Research	20038		
Victor	20067		
Video Concepts	20045		
Videomagic	20037		
Videosonic	20240		
Viewsonic	21972		
Wards	20060, 20035, 20048, 20047,		
	20081, 20240, 20042, 20072		
White Westinghouse	20209, 20072		
XR-1000	20035, 20072		
Yamaha	20038		
Zenith	20039, 20033, 20209, 20479		
ZT Group	21972		

Setup C	ode For DVD Players
Aiwa	20641, 21912
Akai	20770
Allegro	20869
Apex Digital	20672, 20717, 20797, 21061,
	20796, 21056, 21937, 20794,
	21020, 21915
Blaupunkt	20717
Blue Parade	20571
Broksonic	20695
Changhong	20627, 21061
CineVision	20869
Coby	21086
Curtis Mathes	21087
CyberHome	21024, 21023, 21129, 20816,
5	21117
Daewoo	20833, 21172, 20869
Denon	20490
DVD2000	20521
Emerson	20591, 20675
Enterprise	20591
Fisher	21919
Funai	20675
Gateway	21158, 21073
GE	20522, 20717
Go Video	20744, 20833, 21099, 20783,
	21075, 20869, 21730
Greenhill	20717
Harman/Kardon	20582, 20702
Hitachi	
	20573, 20664, 21919 20672
Hiteker Initial	
	20717
Integra	20627, 21924
JBL	20702
JVC	20558, 20623, 20867
Kenwood	20490, 20534
KLH	20717, 21020, 21149
Koss	20651, 21980
Lasonic	20798
LG	20591, 20869, 20801
Liquid Video	21980
Lite-On	21158, 21058
Loewe	20511
Magnavox	20503, 20539, 21976, 21914,
	20675
Marantz	20539
Maxent	20752, 20698
Memorex	20695
Microsoft	20522
Mintek	20717
Mitsubishi	21521, 20521
Nesa	20717
Norcent	21003
Onkyo	20503, 20627, 21924, 20792
Oritron	20651, 21980
Panasonic	20490, 21762, 21990
Philips	20503, 20539, 20646, 21914
Pioneer	20525, 20571
Polaroid	21086, 21061
	21000, 21001

Setup Code For DVD Players		
Portland	20770	
Proscan	20522	
Qwestar	20651	
RCA	20522, 20571, 20717, 20822	
Rio	20869	
Rotel	20623	
Sampo	20752, 20698	
Samsung	20490, 20573, 21932, 21075,	
	20820	
Sansui	20695	
Sanyo	20695	
Sharp	20630, 20752	
Sharper Image	21117	
Sherwood	20770	
Shinco	20717	
Shinsonic	20533	
Sonic Blue	20869, 21099	
Sony	20533, 20864, 21033, 21904,	
	21903	
SVA	20717	
Sylvania	20675	
Symphonic	20675	
Teac	20717, 21984, 20809	
Technics	20490	
Theta Digital	20571	
Toshiba	20503, 20695	
Urban Concepts	20503	
Xbox	20522	
Yamaha	20490, 20539, 20545	
Zenith	20503, 20591, 20869	

Setup Code For Cable Converters		
ABC	00003, 00008, 00014	
Americast	00899	
Bell & Howell	00014	
Bell South	00899	
Clearmaster	00883	
ClearMax	00883	
Daeryung	01877, 00877, 00477, 00008	
Digi	00637	
Director	00476	
Dumont	00637	
Gehua	00476	
General Instrument	00476, 00810, 00276, 00003,	
	00014	
GoldStar	00144	
Hamlin	00009, 00273	
Hitachi	00014	
Jerrold	00476, 00810, 00276, 00003,	
	00012, 00014	
KNC	00008	
LG	00144	
Memorex	00000	
Motorola	00476, 00810, 00276, 01254,	
Wotorola	01376	
MultiVision	00012	
Pace	01877, 00237	
Panasonic	00000, 00008, 00107	
Panther	00637	
Paragon	00000	
Philips	00317, 01305	
Pioneer	01877, 00877, 00144, 00533	
Pulsar	00000	
Quasar	00000	
RadioShack	00883	
Regal	00279,00273	
Runco	00000	
Samsung	00000, 00144	
Scientific Atlanta	01877, 00877, 00477, 00008	
Sony	01006	
Starcom	00003, 00014	
Supercable	00276	
Supermax	00270	
Tocom	00012	
Tocom		
Toshiba	00003	
Trans PX	00000	
Tristar	00276	
TS	00883	
V2		
	00883	
Viewmaster	00883	
Vision	00883	
Vortex View	00883	
Zenith	00000, 00525, 00899	

Setup Code F	or Satellite Receivers
AlphaStar	00772
Chaparral	00216
Crossdigital	01109
DirecTV	00392, 00566, 00639, 01142,
	00247, 00749, 01749, 00724,
	00819, 01856, 01076, 01109,
	00099, 01392, 01640, 01442,
	01414, 01108
Dish Network System	01005, 00775, 01505
Dishpro	01005, 00775, 01505
Echostar	01005, 00775, 01505
Expressvu	00775
GÉ	00566
General Instrument	00869
GOI	00775
Goodmans	01246
Hisense	01535
Hitachi	00819, 00222, 01250
HTS	00775
Hughes Network	01142, 00749, 01749, 01442
Systems	
I-Lo	01535
JVC	00775
LG	01414, 01226
Magnavox	00724, 00722
Memorex	00724
Mitsubishi	00749
Motorola	00869
NEC	01270
Next Level	00869
Panasonic	00247, 00701
Paysat	00724
Philips	01142, 00749, 01749, 00724,
	01076, 00722, 00099, 01442
Proscan	00392, 00566
Proton	01535
RadioShack	00869
RCA	00392, 00566, 00855, 00143,
	01392
Samsung	01276, 01109, 01108
Sanyo	01219
SKY	00856
Sony	00639, 01640
Star Choice	00869
Tivo	01142, 01442
Toshiba	00749, 01749, 00790, 01285
UltimateTV	01640, 01392
Uniden	00724, 00722
US Digital	01535
USDTV	01535
Voom	00869
Zenith	00856, 01856

Setup Code For Audio Amplifiers		
Bose	30674	
GE	30078	
JVC	30331	
Marantz	30321	
Nakamichi	30321	
NEC	30264	
Optimus	30395	
Realistic	30395	
Sansui	30321	
Shure	30264	
Sony	30689	
Soundesign	30078	
Victor	30331	
Wards	30078	
Yamaha	30354, 30133	

Setup Cod	de For CD Players
Aiwa	30157
Burmester	30420
California Audio Labs	30029
Carver	30157, 30179
Denon	30873
DKK	30000
DMX Electronics	30157
Dynamic Bass	30179
Fisher	30179
Garrard	30420
Genexxa	30032
Harman/Kardon	30157, 30173
Hitachi	30032
Integra	30101
JVC	30072
Kenwood	30826, 30626, 30028, 30037,
	30036, 30190
Krell	30157
Linn	30157
Magnavox	30157
Marantz	30626, 30029, 30157
MCS	30029
Miro	30000
Mission	30157
MTC	30420
NSM	30157
Onkyo	30868, 30101
Optimus	31063, 30000, 30032, 30037,
opundo	30420, 30179, 31075, 30145
Panasonic	30029
Parasound	30420
Philips	30626, 30157
Pioneer	31063, 31062, 30032
Polk Audio	30157
Proton	30157
QED	30157
Quad	30157
Quasar	30029
RadioShack	31075
RCA	31062, 30032, 30420, 30179,
	30053
Realistic	30420, 30179
Rotel	30157. 30420
SAE	30157
Sansui	30157
Sanyo	30179
SAST	30157
Sharp	30861, 30037
Silsonic	30888, 30036
Sonic Frontiers	30157
Sony	30490, 30000, 30100
Soundesign	30145
TAG McLaren	30157
Tascam	30420
Teac	30420
Technics	30029
Victor	30072
Wards	30157, 30053
Yamaha	30888, 30036
Zonda	30157
	00101

Setup Code	For Audio Amp/Tuners
ADC	30531
Aiwa	31405, 31243, 30121
Anam	31609, 31074
Audiotronic	31189
Capetronic	30531
Carver	31189
Coby	31263
Denon	31360, 31142, 30904
Fonmix	31360
Glory Horse	31263
Harman/Kardon	30110
Hitachi	31273
Inkel	30027
Integra	30135
JBL	30110
JVC	30074, 31263
Kenwood	31313, 31570, 30027
KLH	31428
Magnavox	31189, 31269, 30531
Marantz	31189, 31269, 30039
MCS	30039
Onkyo	30842, 30135
Optimus	31023, 30670, 30531, 31074
Panasonic	31518, 30039
Philips	31189, 31269
Pioneer	31023, 30150, 30014, 30630,
TIONEEL	30531
Proscan	31254
Qisheng	31609
Quasar	30039
RadioShack	31263
RCA	31023, 31609, 31254, 30531,
NOA	31074
Sharper Image	31263
Silsonic	30176
Sony	31058, 31441, 31258, 31759
Soundesign	30670
Stereophonics	31023
Sunfire	31313
Teac	31074, 31267
Technics	31308, 31518, 30039
Thorens	31189
Victor	30074
Wards	30014
Yamaha	30176, 31276, 31176
ramana	00170, 01270, 01170

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