

PLASMA DISPLAY

Owner's Instructions HP-R4272



Important Warranty Information Regarding Television Format Viewing

Wide screen format PDP Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model affers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on nonexpanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web siles or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of PDP Displays that leave subtle, but permanent burned-in ghost images in the PDP picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.

On PDP models that offer picture sizing features, use these controls to view different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven PDP aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

Plasma Display

User Instructions

Screen Image retention

Do not display a still image (such as on a video game) on the plasma display panel for more than several minutes as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, refer to page 52 of this manual to reduce the degree of brightness and contrast of the screen when displaying a still image.

Altitude

The PDP will not operate normally at altitudes above 6500 ft.

• Heat on the top of the PDP TV

The top side of the product may be hot after long periods of use as heat dissipates from the panel through the vent hole in the upper part of the product.

This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

The product is making a 'cracking' noise.

A 'cracking' noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

Cell Defects

The PDP uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-level) pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

Avoid operating the TV at temperatures below 5°C(41°F)

C A still image displayed too long may cause permanent damage to the PDP Panel.



Walching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen.

Playing a DVD or a game console may cause similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.

Afterimage on the Screen.

Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages.

To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images for a long time.

Warranty

Warranty does not cover any damage caused by image retention. Burn-in is not covered by the warranty.

CableCARD and Digital Cable Ready TVs

CableCARD and Digital Cable Ready TVs are the products of a new digital cable standard.

This new standard is called OpenCable and it is a concerted effort to standardize the digital cable service network interface in North America. For more information, please refer to www.cablelabs.com.

Digital Cable Ready TVs are equipped with a proper digital cable tuner to receive digital cable signals from your local cable service provider. They are also designed to work with digital CableCARD modules (PCMCIA card modules called CableCARDs). These PCMCIA card modules or CableCARDs will be provided by your local cable service provider after a proper subscription process.

The provided CableCARD from your local cable service provider needs to be inserted into the CableCARD slot of a Digital Cable Ready TV. Please refer to page 33 for how to insert the CableCARD.

A digital set-top box which used to be provided by the cable service provider is no longer needed with Digital Cable Ready TVs and CableCARDs.

When the CableCARD is inserted into the slot, the TV screen will show a message that CableCARD is inserted and necessary data such as channel information or subscription information will be downloaded from your digital cable service provider. When you insert CableCARD for the first time, this process may take few minutes depending on the amount of data your cable provider needs to send. During this process, the digital cable service provider or CableCARD may display messages on the TV screen to help or give you further information.

Please contact your local cable provider for more information on service availability and how to acquire a CableCARD.

Notes

- This television receiver supports the copy protection system regulated by DTLA (Digital Transmission Licensing Administrator). It should be noted that copy protected content may not be viewable depending on your particular connections.
- Some channels may be scrambled depending on your cable service provider.
 When you tune to these channels, no screen or a still screen may appear. In order to view the screen properly, you have to go through a subscription process after contacting your service provider. It will take several minutes to update the channel information depending on your cable service provider.



Q&A

1. Is the antenna I use for existing TV reception good enough for DTV?

Over-the-air (OTA) digital TV broadcasting uses the same channels as analog TV and works well with many existing TV antennas. However, DTV broadcast channel assignments are different than analog channels. You should find out whether your local DTV broadcasts are on VHF (channels 2-13) or UHF (channels 14-69) to see if you need a different antenna.

If your DTV channels are on UHF and you already get good UHF reception, your present antenna may work fine. The same holds true for VHF DTV reception. Note that in same markets, both VHF and UHF channels are used for DTV broadcasts.

You can find out the latest DTV channel assignments for your area by browsing selected Internet web sites such as www.titantv.com and www.fcc.gov.

2. How difficult is it to receive DTV signals indoors?

This depends on whether your local DTV stations are running full power or not and how close your localion is to the transmission tower. DTV receivers do not require as much signal as analog TV receivers to produce high-quality images and sound.

Once the DTV signal level exceeds a certain threshold at the receiver, the digital video and audio data is decoded at the same quality it was ariginally encoded for broadcast. This is a big advantage for DTV over analog TV - there is no noise, ghosting, static, or scratchy audio.

How can I connect an antenna in my townhouse, co-operative apartment, condominium, or apartment?

The Federal Communications Commission's OTARD Rule (part of the Telecommunications Act of 1996) allows residents of condominiums, townhouse, or members of neighborhood associations to put up outside antennas for reception of broadcast TV signals as long as those antennas are not located in common areas and are no more than 12' in height.

Residents of rental units (apartments, etc.) are not covered by the OTARD rules and will have to use indoor antennas to receive DTV broadcasts. It is possible that the landlord of an apartment complex can provide broadcast DTV signals via a master TV antenna system to each apartment.

4. Can I connect my DTV set-top receiver to my cable TV service?

Cable TV systems use a different method for transmitting digital TV programs that is currently incompatible with broadcast DTV set-top receivers. So you will still need to use an outdoor or indoor antenna to receive OTA broadcast DTV programs.

The good news is that you won't have to pay a monthly or per-program charge to watch OTA DTV and HDTV programs. They're free, unlike subscription satellite TV or premium cable TV. All you need is an antenna and a DTV set-top receiver to enjoy clear, sharp widescreen images and high-quality audio.

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Note

 The information contained in this User's Manual is subject to change without prior notice for improvement, and may vary depending on the version of the TV's software and the regional conditions.

PLASMA DISPLAY PANEL

General Information

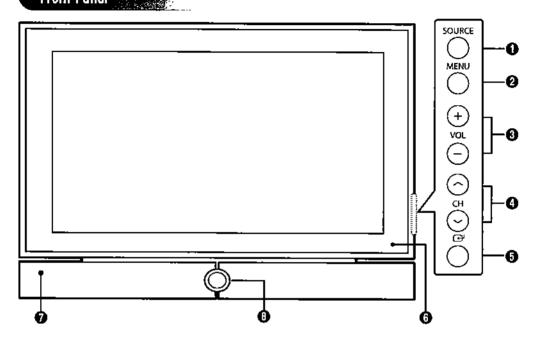


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Your New Plasma Display Panel

Front Panel



SOURCE button

Press to display all of the available video sources [TV, AV1, AV2, S-VIDEO1, S-VIDEO2, COMPONENT1, COMPONENT2, PC, HDM11 and HDM12].

MENU button

Displays the main on-screen menu.

♦ VOL +,- buttons

Press to increase or decrease the volume. Also used to select or adjust items on the an-screen menu.

Press CH \wedge or CH \vee to change channels. Also used to move up or down in the on-screen menu.

6 🕒 (Enter) button

Press to confirm a selection.

Remote Control Sensor

Aim the remote control towards this spot on the TV.

Speakers

Power button

Press to turn the TV on and off

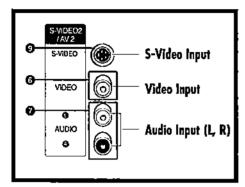
Power indicator

- Power Off : 8lue

- Power On : Off

Plasina Display

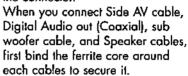
Side of the TV





Ferrite Cores

The ferrite cores are used to attenuate undesired signals. When connecting cables, attach one of these ferrite cores to the cable near the connector.





Checking Accessories

Once you have unpacked your TV, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer.



Owner's Instructions



Remote Control / AAA Batteries (8N59-00443A)



Ferrite Core for Side AV Cable, Digital Audia Out(Cooxial), Sub Woofer (3301-001201)



Ferrite Core for Speaker cable (3301-001502)



Power Cord (3903-000144)



Antenna Cable (BN39-00333A)



Anynet Coble (BN39-00333A)

Sold Separately



S-VIDEO Cable (AA39-40001E)



HDMI Cable (BN39-00072A)

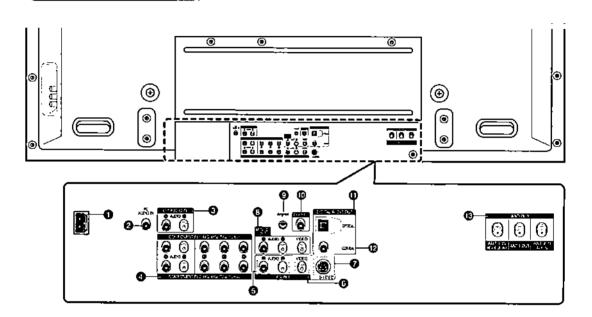


HDMI - to - DVI Cable (AA39-00033A)



Component Cables (RCA) (AA39-00033A)

Rear Panel



POWER IN

Connect the supplied power cord.

PC AUDIO IN

Connect the the audio output jack on your PC.

DVI AUDIO IN (R-AUDIO-1)

Use these analog stereo audio inputs when using the HDMI input with a device that outputs DVI instead of HDMI.

© COMPONENT IN 1, 2

Video (Y/PB/PR) and audio (L-AUDIO-R) inputs for component.

A/V IN (R-AUDIO-L)

Audio inputs for external devices, such as a camcorder or VCR.

VIDEO

Video inputs for external devices, such as a camcorder or VCR.

S-VIDEO

Video inputs for external devices with an S-Video output, such as a camcorder or VCR.

MONITOR OUT

Outputs for external devices.

Anynet

Please refer to the Anynet Owner's Instruction. This jack is for repair and software upgrades.

WOOFER OUT

Connect to an active SUB-WOOFER.

(II) OPTICAL DIGITAL AUDIO OUT

Connect to a Digital Audio component.

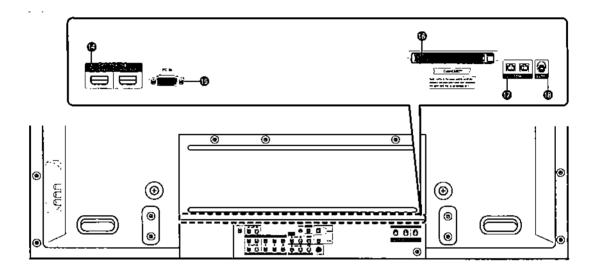
@ COAXIAL DIGITAL AUDIO OUT

Connect to a Digital Audio component.

B ANT (75 Ω)

75 Ω Coaxial connector for Antenna/Cable Network.

Rear Panel



(4) DVI COMPATIBLE (HDMI IN 1, 2)

Connect to the HDMI jack of a device with HDMI output.

These inputs can also be used as a DVI connection with separate analog audio inputs. An optional HDMI - to - DVI cable will be necessay to make this connection.

When using the optional HDMI - to - DVI

when using the optional HDMI - to - DVI adapter, the DVI analog audio inputs on your TV allow you to receive left and right audio from your DVI device.

(B) PC IN

Connect to the video output jack on your PC.

(f) CableCARD™

Insert the CableCARD into the slot.

1394

Connect to external IEEE1394 digital products.

Two jacks are provided for this purpase, which allow for a high degree of flexibility for connecting your D-Net controlled system.

⊕ G-LINK™

Connect the IR controller cable to the G-Link terminal on your TV.

Remote Control

- POWER button
 - Turns the TV on and off.
- **2** ANTENNA button
 - Press to select "Air" or "Cable".
- Number buttons
- O button

Press to select additional channels (digital and analog) being broadcast by the same station. For example, to select channel "54-3", press "54", then press "-" and "3".

Mute button

Press to mute the TV sound.

6 VOL (Volume) buttons

Use it to adjust volume.

Anynet button

Runs the Anynet view functions and sets up Anynet devices.

MENU button

Displays the main on-screen menu.

@ ENTER button

Confirms a selection.

ASPECT button

Press to change the screen size.

(I) CH. LIST button

Displays the channel list.

LCD Display

When you press a button, '?' appears along with selected mode (TV, VCR, CATV, DVD, or STB) and the remote's battery charge status.

(B) TV GUIDE button

Press to display the an-screen Electronic Program Guide (EPG).

MODE button

Selects a target device to be controlled by the Samsung remote control (i.e., VCR, Cable box, DVD players, or Samsung STB). If you change modes, the new mode is momentarily displayed on LCD.

PRE-CH button

Tunes to the previous channel.

SOURCE button

Press to display all of the available video sources (TV, AV1, AV2, S-VIDEO1, S-VIDEO2, COMPONENT1, COMPONENT2, PC, HDM11, and HDM12).

TO CH/Page buttons

Use it to switch channels and pages.

(1) INFO button

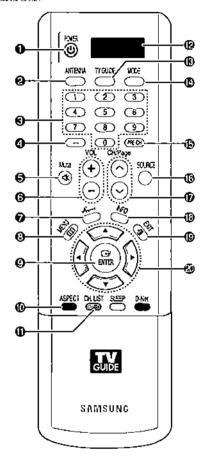
Press to display information on the TV screen.

EXIT button

Press to exit the menu.

② Up/Down/Left/Right buttons

Control the cursor in the menu.



SLEEP Button

Press to select a preset time interval for automatic shut off.

2 D.Net button

Runs the D-Net view function.

E.Saving button

Press to adjust brightness of screen according to surround environment.

② CAPTION button

Cantrals the caption decoder.

◆ STILL button

Press to pause the current screen.

4 MTS button

Press to choose stereo, mono or Separate Audio Program (SAP broadcast).

SET button

Used during set up of this Samsung remote control, so that it will work compatibly with other devices (VCR, Cable Box and DVD).

PIP button

Activates picture in picture.

PIP control buttons

PIP CHA, : Displays the available channels in sequence. [These buttons change channels in the PIP window only.)

REC button

Records a program in the TV Guide.

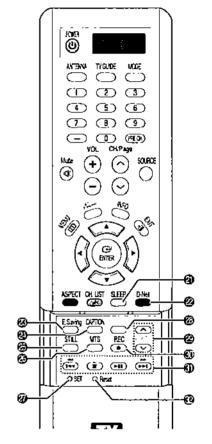
(1) VCR, DVD control buttons

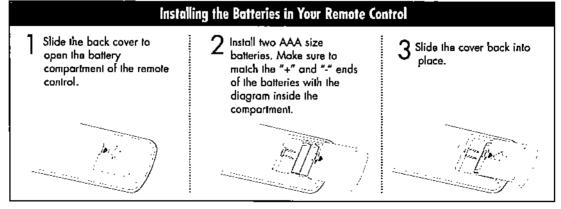
Controls VCR tape or DVD disc functions: Stap, Rewind, Play/Pause, and Fast Forward.

Reset button

If your remote control is not functioning properly, take out the batteries and press the reset button for about 2-3 seconds.

Re-insert the batteries and try using the remote control again.







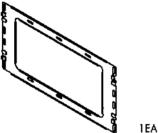
Remote Control Operation Range

You can use your remote control within a distance of 23 feet and an angle of 30 degrees from the left and right sides of the TV's remote control receiver.

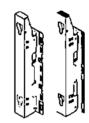
Installation Notes

- Do not install the TV on any location other than a vertical wall.
- To protect the performance of the TV and prevent problems, avoid the following locations:
 - Do not install next to smoke and fire detectors.
 - Do not install in an area subjected to vibration or high voltage.
 - Do not install near or around any heating apparatus.
- Use only recommended parts and components.
- Parts (Wall attachment panel is sold separately. Check with your dealer.)

Wall Mount Bracket

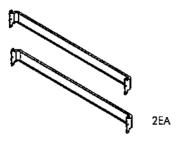


ASSY-HINGE



LEFT: 1EA RIGHT: 1EA

Support Bars



Screws



Insulation Holder: 4EA



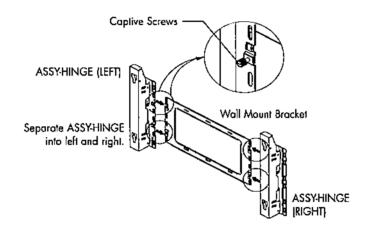
SCREW①: 4EA



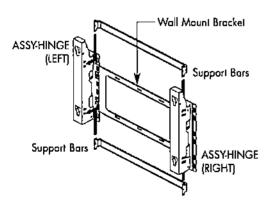
SCREW@: 12EA

How to assemble the Wall Mount Bracket

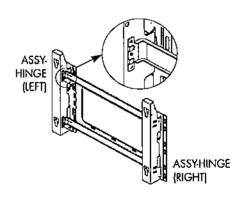
The wall mount comes packaged in 3 parts. These parts must be assembled together. Please tighten the captive screws(4EA) in the direction of the arrow after assembling the bracket. Install the Wall Mount Bracket after the screws are securely inserted into the wall.



After installing the wall mount bracket, assemble the support bars and hinges (as illustrated) using screws provided. (12 screws(2)) are provided. For safety reasons, make sure all 12 screws are firmly attached.)



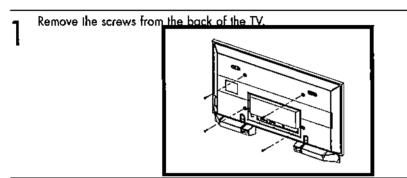
After securing the screws, be sure that every part is firmly attached (as shown in the illustration).





Wall Installation Instructions

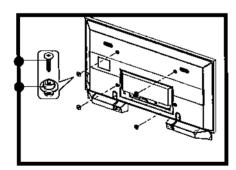
• Fixing the TV panel to the wall attachment panel bracket



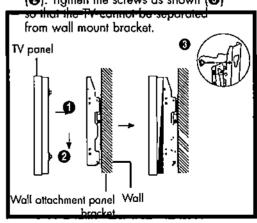
- Connect insulation holders to screws (see the illustration below).
 - If you are uncertain about installation, hire a specialist to install the wall mount bracket.
 - Be sure to check that the insulation holders are completely secured on both the left and right side after hanging the TV on the wall mount bracket.
 - Be careful to avoid getting your fingers caught during installation.
 - · Make sure the wall attachment panels are tightened. Otherwise the TV may fall.



Tighten the screws of the insulation holders to the back of the TV.



Put the 4 insulation holders on the TV in the grooves of the wall mount bracket and pull down on the TV (1) to secure it to the wall mount bracket (2). Tighten the screws as shown (3)



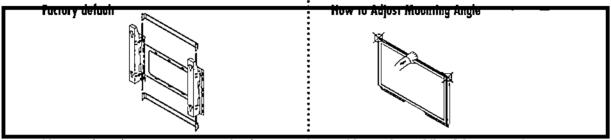
Note

A 5 inch(12.7 cm) gap is needed between the back of the Plasma TV and the wall.

Plasina Display

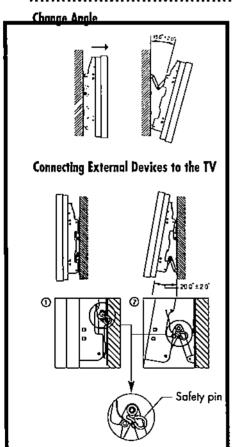
How to Adjust Mounting Angle

Note: Please secure the mounting bracket on the wall surface after setting its angle at 0°.



Please tighten the captive screw in the direction of the arrow after assembling the bracket.

Hold onto the middle of the TV to adjust the angle (not the sides of the TV).



- Secure the set to the wall mount bracket. (Please refer to the following instructions.)
- 2 Set the angle by pulling the upper end of the set attached to bracket in the direction of the arrow.
- The angle can be adjusted from 0° to 15° by ±2°.
- Be sure to remove the safety pins underneath the TV. (Caution: If the safety pins are not removed, the angle cannot be adjusted.) Any attempt to do so may cause damage to the TV.
- 2 Hold onto the bottom of the TV and pull forward fully as directed by the arrow(as illustrated) to adjust the angle. (0°~20° by 2°). Insert the safety pins to the front guide holes on both sides as illustrated in figure 2.
- 3 Viewing the TV after connecting the external devices. Remove the safety pins to adjust the angle to 0°, then secure the safety pins again. (Warning: For safety, be sure to secure the TV using the safety pins. If the safety pins are not used, the TV may fall, causing serious injury.)

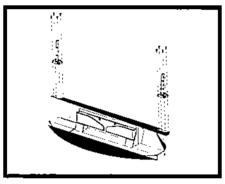
Notes

- Contact an authorized technician when installing the wall attachment panel.
- After hanging the TV panel on the wall attachment panel, make sure that the Insulation holders are completely hung.
- Be careful not to get your fingers caught during installation.
- Make sure the wall attachment panel brackets are tightened. Otherwise, the TV panel may fall down.
- Please secure the mounting bracket on the wall surface after setting its angle at 0°.

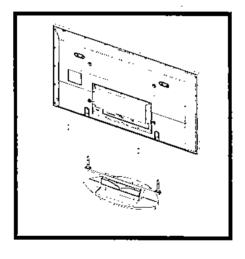


How to assemble the Stand-Base

Firmly secure the pegs to the both sides of the stand base using 8 screws provided.



2 Using the 4 screws for securing the stand pegs and the monitor, firmly attach the monitor to the stand pegs. (The exterior of the set may be different than the picture.)





Warning

Firmly secure the stand for the TV before moving it, as the stand may fall and could cause serious injury.

Two or more people should carry the TY. Never lay the TY on the floor because of possible damage to the screen.

Always store the TY upright.

PLASMA DISPLAY PANEL

Connections



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Antennas with 75-ohm Round Leads

If your antenna looks like this:

Plug the antenna lead into the ANT 2 IN(AIR IN) on the TV.

Use the antenna cable, an accessory included in the product package.



Note

 When Antenna is set to AIR, ANT 1 IN(CABLE IN) signal will be the autput from ANT1 OUT. (See "Selecting the Antenna" on page 82.)

Plasina Display



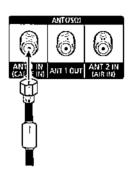
Connecting Cable TV

You can connect different cable systems to your TV, including cable without a Cable box, and cable with a Cable box that descrambles some or all channels.

Cable without a Cable Box

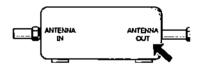
Plug the incoming cable into the ANT 1 IN(CABLE IN) on the TV.

Use the antenna cable, an accessory included in the product package.



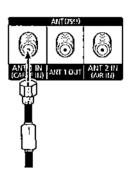
Cable with a Cable Box that Descrambles All Channels

Find the cable connected to the ANTENNA OUT terminal on your Cable box. This terminal might be labeled "ANT OUT", "VHF OUT" or simply "OUT".



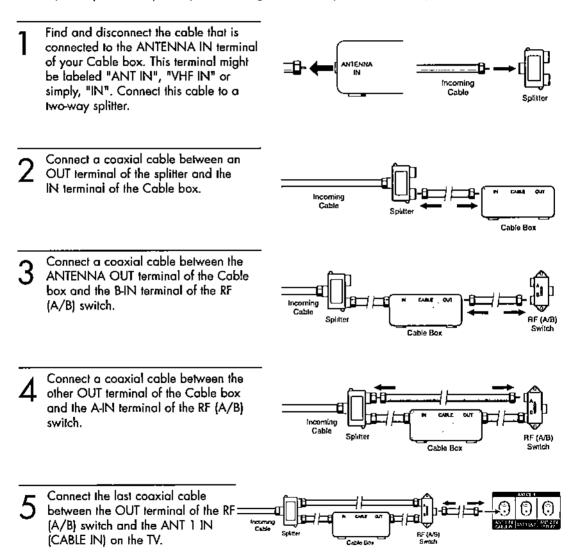
Connect the cable to the ANT 1 IN(CABLE IN) on the TV.

Use the antenna cable, an accessory included in the product package.



Cable with a Cable Box that Descrambles Some (But Not All) Channels

To complete this connection you will need a two-way splitter, an RF (A/B) switch, and four coaxial cables (which you can buy from your Samsung dealer or any electronics store).



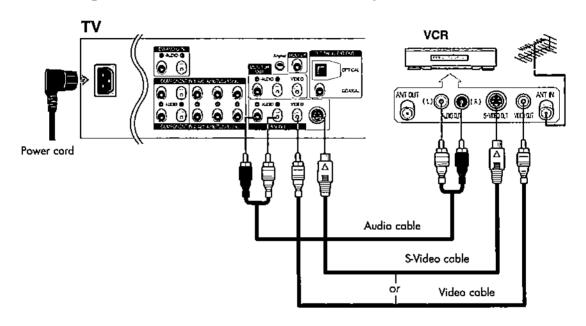
After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B", you will need to tune your Set-Top Box to the Cable box's output channel, which is usually channel 3 or 4.)

Plasma Display

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Connecting a VCR

Connecting a VCR to the Video or S-Video/Audio jack



How to Connect

Connect the Video/Audio cables between the VIDEO or S-VIDEO / AUDIO input jacks on the TV and VIDEO or S-VIDEO / AUDIO output jacks on the VCR. (Note: For better video, use an S-Video cable.)

Note

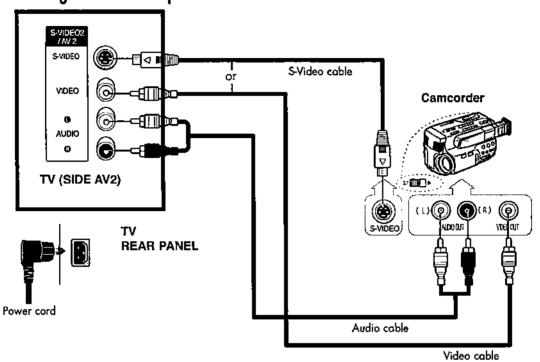
Please be sure to match the color coded input terminals and cable jacks.

Videotape Playback:

- 1. Turn on your TV.
- 2. Press the SOURCE button to select "Video (AV1 or AV2)" or "S-Video (S-VIDEO1 or S-VIDEO2)".
- 3. Turn on your VCR, insert a videotape and press the Play button.

Connecting a Camcorder

Viewing camcorder tapes



Hów to Connect

Connect a Video/Audio cable between the VIDEO or S-VIDEO / AUDIO input jacks on the TV and the VIDEO or S-VIDEO /AUDIO output jacks on the camcorder. (Note: For better video, use an S-VIDEO cable.)

Note

Please be sure to match the color coded input terminals and cable jacks.

Viewing Tapes

- Turn on your TV.
- Press the SOURCE button to select "Video (AV1 or AV2)" or "S-VIDEO (S-VIDEO 1 or S-VIDEO2)".
- 3. Turn on your camcorder and set it to video mode. (For details, refer to your camcorder owner's instructions.)
- 4. Set the IN/OUT switch on your camcorder to OUT.
- 5. Insert the tape into the camcorder and press the Play button.

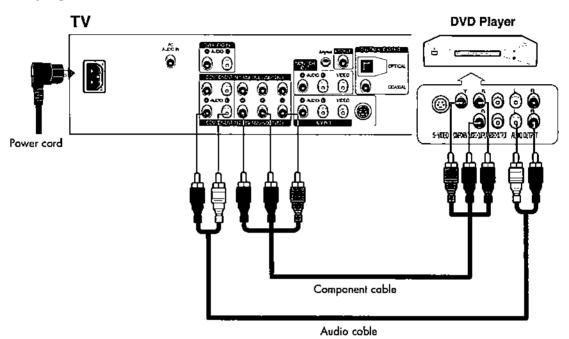
Plasina Display



Connecting a DVD Player (480i, 480p)

This TV displays the optimum picture in 720p mode.

Playing DVD



How to Connect

- Connect the Y, Pb, Pr (COMPONENT1,2) input jacks on the TV with Y, Pb, Pr output jacks on the DVD player using a component cable.
- 2 Connect the AUDIO L/R (COMPONENT1,2) input jacks on the TV with the AUDIO output jacks on the DVD player using a audio cable.

<u>Note</u>

Please be sure to match the color coded input terminals and cable jacks.

To Play DVD:

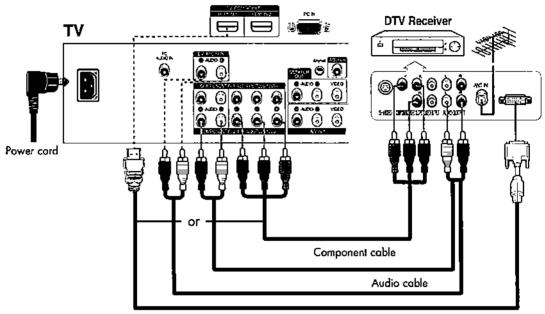
- 1. Turn on your TV,
- 2. Press the SOURCE button to select "COMPONENT1" or " COMPONENT2".
- 3. Turn on your DVD player, insert a DVD disc and press the Play button.
 - For an explanation of companent video, see your DVD owner's instructions.



Connecting a DTV Receiver (480p, 720p, 1080i)

This TV displays the optimum picture in 720p mode.

Watching DTV



HDM! - to - DVI Cable

e How to Connec

- Connect the cable or antenna to the antenna input jack on the DTV.
- Connect the Y, Pb, Pr (COMPONENT1,2) or HDMI input (HDMI IN1, HDMI IN2) jacks on the TV to the Y, Pb, Pr or DVI output jacks on the DTV receiver using a component or HDMI to DVI cable.
- 3 Connect the AUDIO L/R (COMPONENT1,2 or DVI AUDIO IN) input jacks on the TV with the AUDIO output jacks on the DTV receiver using an audio cable.

Notes

Please be sure to match the color coded input terminals and cable jacks.

To Watch DTV:

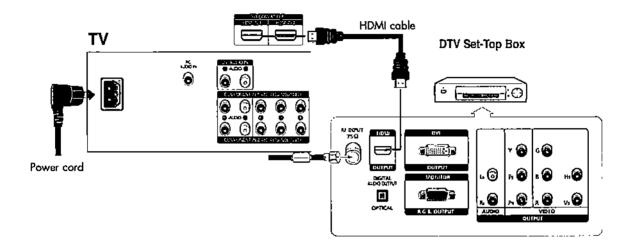
- 1. Turn on your TV.
- 2. Press the SOURCE button to select "COMPONENT1", "COMPONENT2", "HDMI1" or "HDMI2".
- 3. Turn on your DTV receiver.
 - For an explanation of component video, see your DTV receiver owner's instructions.

Plasma Display



Connecting to HDMI (High Definition Multimedia Interface) (480p, 720p, 1080i)

Watching DTV



How to Connect

- Connect the cable or antenna to the antenna input jack on the DTV.
- 2 Connect the HDMI input (HDMI IN1, HDMI IN2) jack on the TV with the HDMI output jack on the DTV Set-Top Box using a HDMI cable.

Notes

Please make sure the HDMI source's power is on before selecting HDMI from the "Source List".

To Watch DTV:

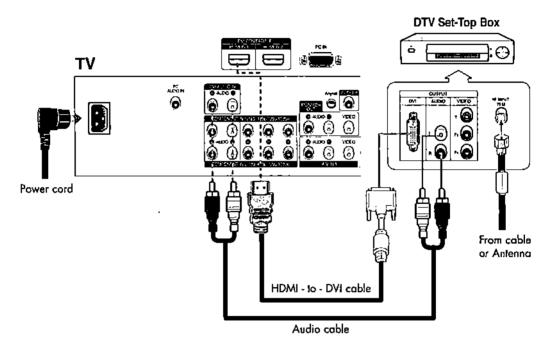
- 1. Turn on your TV.
- 2. Press the SOURCE button to select "HDMI1" or "HDMI2".
- 3. Turn on your DTV receiver.
 - For an explanation of HDMI video, see your DTV receiver owner's instructions.



Connecting a Digital TV Set-Top Box (480p, 720p, 1080i)

By inputting a high-bandwidth digital content protection High-Definition picture source to the HDMI input jack on the TV, High-Definition pictures can be displayed on the screen in their digital form.

Connecting to HDMI (High Definition Multimedia Interface)/DVI Compatible



How to Connect

Connect the DVI AUDIO (L, R) input jacks on the TV with the AUDIO output jacks on the Set-Top Box using a audio cable.

<u>Note</u>

- Use analog stereo audio inputs when using the HDMI input with a device that outputs DVI instead of HDMI.
- Connect the HDM11 or HDM12 input jack on the TV and the VIDEO output jack on the Set-Top Box using a HDM1 to DVI cable.

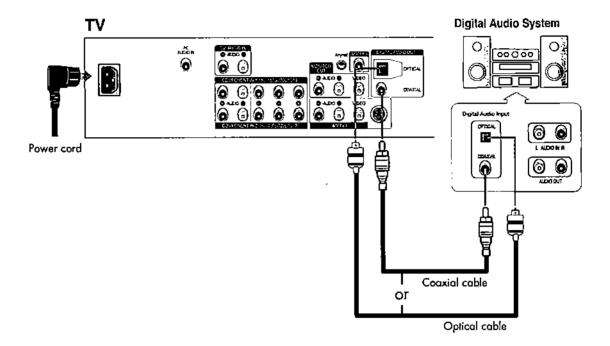
Plasma Display



Connecting a Digital Audio System

There are many types of digital audio systems on the market today.

A simplified illustration of an audio system is shown below. For more information, see your audio system owner's manual.



≰How to Connect

- If your audio system has a coaxial digital audio input, connect to the "COAXIAL" output jack on the TV.
- If your audio system has a optical digital audio input, connect to the "OPTICAL" output jack on the TV.

Be certain to remove the black cover from the optical output before inserting the cable.

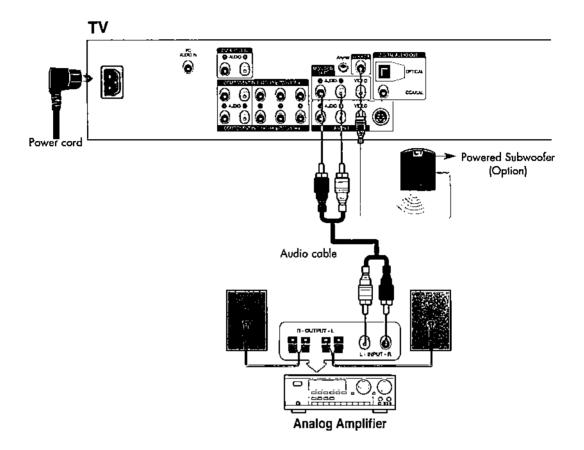
3 If your system has both coaxial and optical digital audio inputs, SAMSUNG recommends you use the optical digital output on the TV.

Do not connect both optical and coaxial cables. This may damage your audio system.

- OPTICAL: converts the electric signal into an optical light signal, and transmits it through glass fibers.
- COAXIAL: The digital audio signal is received through a coaxial copper cable.



Connecting to an Analog Amplifier/ Sub woofer Speaker



How to Connect

The "MONITOR OUT (AUDIO L/R)" terminals cannot be used for external speakers. You must hook them up to an amplifier.

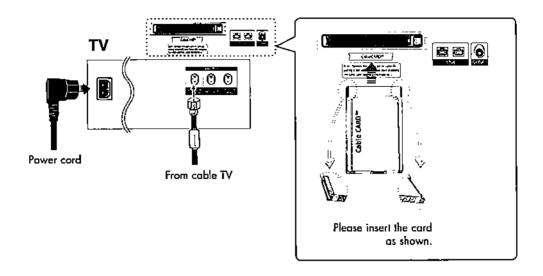
When an audio amplifier is connected to the "MONITOR OUT (AUDIO L/R)" terminals: Decrease the gain (volume) of the audio amplifier, and adjust the volume level with the volume control on the TV.

Plasma Display



Connecting CableCARD

You must obtain a CableCARD from a local cable service provider.



How to Connect

- Insert the CableCARD into the "CableCARD" slot and the message "CableCARD Inserted" is displayed on the screen. If the channel information does not exist, the message "Updating Channel List" is displayed during channel information configuration. It could take several minutes to update the channel information depending on your cable service provider.
- The pairing information containing a telephone number, CableCARD ID, Host ID, and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.
- When the channel information configuration has finished, the message "Updating Completed" is displayed, indicating that the channel list is now updated.
- 4 The Channel list can now be displayed by pressing CH.LIST button.

Notes

- Once the channel list has been updated, only the channels on the channel list can be selected.
- Remove the Cablecard by carefully pulling it out with your hands since dropping the CableCARD may cause damage to it.

Connecting Compatible IEEE 1394 Devices

Operation



Turning the TV On and Off	36
Viewing the Menus and Displays	
Memorizing the Channels	
Adding and Erasing Channels	
Setting Up Your Remote Control	
Viewing an External Signal Source	

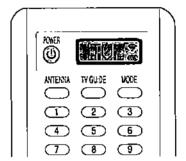
Turning the TV On and Off

Press the POWER button on the remate control.

The TV will be turned on and you will be able to use its features. You can also use the POWER button on the front of the TV.

Note

If your TV isn't turned on when the POWER button is pressed:
 Press the MODE button to check if the TV mode has been chosen (图形型).



Plug & Play Feature

When the TV is initially powered On, basic customer settings proceed automatically and subsequently: Setting the language, checking the antenna input, memorizing the channels, and setting the time.

Note

- The Plug & Play function operates after plugging in the TV for the first time.
- Press the POWER button on the remote control.

 The message "Menu language, Cannels and Time will be set." is displayed.

 Press the ENTER button, then "Select the language of OSD" menu is automatically displayed.



Press the ENTER button to enter the language.

Press the ▲ or ▼ button to select language, then the ENTER button. "Select the antennas to memorize." menu is automatically displayed.



Press the ▲ or ▼ button to memorize the channels of the selected connection.

Press the ENTER button to select "Start".

Notes

- If the antenna is cannected to ANT 1 IN (CABLE IN), select "CABLE" and if it is connected to ANT 2 IN (AIR IN), select "AIR".
- If both ANT 1 IN and ANT 2 IN are connected, select the "Air + Cable".
- If the CableCARD is inserted into the "CableCARD" slot on the rear panel, "Cable" and "Air+Cable" are not available.

When selecting Cable TV:

Press the ▲ or ▼ button to select "Cable", then press the ENTER button.

Press the ▲ or ▼ button to select "STD", "HRC", or "IRC", then press the ENTER button.





The TV will begin memorizing all of the available channels. After all the available channels are stored, the Auto program menu reappears.

Press the ENTER button when channel memorization is complete.

"Set to daylight savings time." menu is automatically displayed.





Press the ENTER button. Press the ▲ ar ▼ button to select "Yes" or "No", then the ENTER button.
"Select your time zone in which you live" menu is

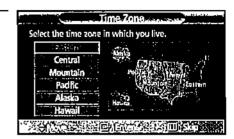
"Select your time zone in which you live" menu is automatically displayed.



Press the ▲ or ▼ button to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States). Press the ENTER button.

If you have received a digital signal, the time will be set automatically. If not, see page 100 to set the clack.

The message "Completed. Time will be updated automatically." is displayed.
When you have finished, press the ENTER button,





If you want to reset this feature...

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "Plug & Play". Press the ENTER button.



For further details on setting up options, refer to the previous page.



Note

Plug and Play can only be accessed in the TV mode.

Plasina Display



Viewing the Menus and Displays

Your TV has a simple, easy-to-use menu system that appears on the TV screen. This system makes it convenient and fast to use features on the TV. Your TV also lets you display the status of many of your TV's features.

Viewing the Menus

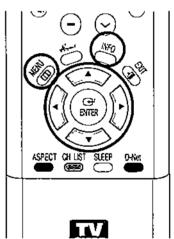
With the power on, press the MENU button on the remote control. The main menu appears on the screen. The Input menu is selected.



Press the ▲ or ▼ button to move to items in the menu.

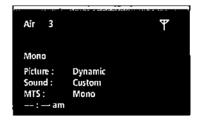
Press the ◀/►/ENTER buttons to display, change, or use the selected items.

Press the ENTER () button to enter items in the menu. On screen menus disappear from the screen automatically after about two minutes or you can press the MENU or EXIT button on your remate control to exit the menu.



Displaying Status Information

Press the INFO button on the remote control.
The TV will display the Picture mode, Sound mode, MTS, and
Current Time.





Memorizing the Channels

Your TV can memorize and store all of the available channels for both "offair" (antenna) and cable channels. After the available channels are memorized, use the CH/Page and CH/Page buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

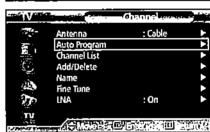
Selecting a broadcast source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



Press the ▲ or ▼ button to select "Auto Program", then press the ENTER button.



3 Press the ▲ or ▼ button to select the antenna connection, then press the ENTER button.

Notes

- · Air: "Air" antenna signal.
- Cable: "Cable" antenna signal.
- Air+Cable: "Air" and "Cable" antenna signals.

If the CableCARD is inserted into the "CableCARD" slot on the rear panel, "Cable" and "Air+Cable" are not available.

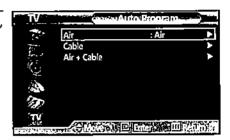
When selecting Cable TV system:

Press the ▲ or ▼ button to select "Cable", then press the ENTER button.

Press the ▲ or ▼ button to select "STD", "HRC", or "IRC", then press the ENTER button.

Note

 STD, HRC, and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point the signal source has been selected. Proceed to "Storing Channels in Memory".







Storing Channels in Memory

4

The TV begins memorizing all available stations. Press the ENTER button at any time to interrupt the memorization process.

Press the EXIT button to exit.

Note

 The TV must be connected to an antenna in order to receive digital TV signals.
 Even if a particular channel is deleted from the memory, you can always tune to that channel directly by using the number buttons on the remote control.



- All available DTV and analog channels are automatically stored in memory when channels are selected by directly accessing channels.
- It takes approximately 3 to 10 minutes to memorize channels.



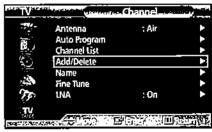
Adding and Erasing Channels

To add channels that were not memorized (or to delete unwanted channels from memory).

Press the MENU button. Press the ▲ ar ▼ button to select "Channel", then press the ENTER button.



Press the ▲ or ▼ button to select "Add/Delete", then press the ENTER button.



Repeatedly pressing the ENTER button will alternate between add channel and delete channel.

Press the CH/Page ⊙ or CH/Page ⊙ button to switch to the appropriate channel, then repeat above. Press the EXIT button to exit.





Changing Channels

Using the Channel Buttons

Press the CH/Page[⊙] or CH/Page[⊙] button to change channels.

When you press the CH/Page or CH/Page button, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

Directly Accessing Channels

Press the number buttons to go directly to a channel. For example, to select channel 27, press "2" then "7".

When you use the number buttons, you can directly select channels that were either erased or not memorized. To change to single-digit channels [0~9] faster, press "0" before the single digit. (For channel "4" press "0", then "4".)

Notes

- For quick channel change, press the number buttons and, then press ENTER button.
- After the process of updating the channel information using CableCARD has been completed, only the number of channels on the channel list con be directly accessed.

Using the PRE-CH button to select the previous channel

Press the Pre-CH button. The TV will switch to the last channel viewed.

To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then, use the Pre-CH button to quickly alternate between them.

Adjusting the Volume

Using the Volume Buttons

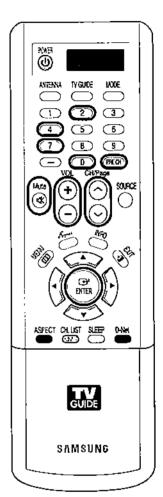
Press the VOL @ or VOL @ button to increase or decrease the volume.

Using Mute

Using the Mute Button

At any time, you can temporarily cut off the sound using the Mute button.

- Press the Mute button and the sound cuts off. The word "Mute" will appear in the lawer-left corner of the screen.
- 2 To turn mute off, press the Mute button again, or simply press the VOL ${\mit}{\mit}$ or VOL ${\mit}{\mit}$ button.





Using the "-" Button

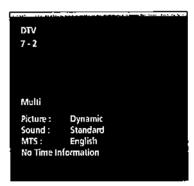
The "-" button is used to select stations that broadcast both a digital and analog signal.

For example, for Channel 7-1 (digital), press "7", then ".", then "1".

DTV
7-1

HD
English
Picture: Dynamic
Sound: Standard
MTS: English
No Time Information

For channel 7-2 (analog), press "7", then "-", then "2".



- HD indicates the TV is receiving a Digital High Definition signal.
 SD indicates the TV is receiving a standard definition signal.
- For quick channel change, press the number buttons and, then press ENTER button.



Setting Up Your Remote Control

This TV's remote control can operate almost any VCR, Cable box or DVD. After it has been set up properly, your remote control can operate in five different modes: TV, VCR, CATV, DVD, or STB. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

Notes: • The remote control may not be compatible with all DVD Players, VCRs, or Cable boxes.

The remote control can only operate Set-Top Boxes made by Samsung.

Setting Up the Remote to Operate Your VCR, Cable box or DVD player

Turn off your VCR (or Cable box, DVD player).

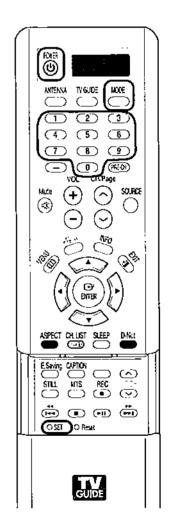
Press the MODE button. The Mode is changed whenever Mode button is pressed.

Press the SET buttan an your TV's remote control.

Using the number buttons on your remote control, enter three digits of the VCR (or Cable box, DVD player) code listed on page 47 of this manual for your brand of VCR (or Cable box, DVD). Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)

Press the Power button on the remote control. Your VCR (or Cable box, DVD) should turn an if your remote is set up correctly. If your VCR (or Cable box, DVD) does not turn on after setup, repeat steps 2, 3, and 4, but try one of the other codes listed for your brand of VCR (or Cable box, DVD).

If no other codes are listed, try each code, 000 through 089 (or Cable box: 000 through 077, DVD player: 000 through 008).



- When your remote control is in "VCR", "CATV", or "DVD" mode, the VCR control buttons (STOP, REW, PLAY/PAUSE, and FF) still operate your VCR.
- You do not need to program the remote for Samsung STBs as the codes are pre-programmed.

Remote Control Codes

VCR Codes

Brand Codes	Brand Codes	Brand Codes
Admiral 020	JVC 007 008 018 021 026 037	RCA
Aiwa 025	Kenwood 007 008 018 026 037	017 019 002 021 035 041 043 057 068
Akai 027 004 032	KLH 070	Samsung 000 001 002 003 004 005
Audio Dynamics 007 026	Lioyd 025	
Bell&Howell 018	Logik 038	Sanyo 018 024
Broksonic 022	LXI 025	Scott 003 047 052 067
Candle 002 006 003 015 008 055	Magnavox 021 036 056 059	Sears 018 019 006 024 028 029 041
Canon 021 056	Marantz 008 007 018 021 026 036	048 051
Citizen 002 003 006 008 015 055	037 062	Sharp 020 034 045 015
Colorlyme 007	Marta 006	Shimom 027 033 038 058
Craig 002 024	MEI 021	Signature 025
Curtis Mathes 002 017 007 008	Memorex 006 021 024 025	5ony 027 033 044
021 025 056 064 066	MGA 034	Sylvania 021 025 036 056 059
Daewoo 003 015 010 011 012 013	Midland 005	Symphonic 025
014 016	Minolta 019 041	Tandy 018 025
DBX 007 026	Mitsubishi 019 034 041 046	Tashika 006
Dimensia 017	Montgomery Ward 020	Tatung 037
Dynatech 034	MTC 002 025	Teac 025 037 068
Emerson 001 003 006 021 022 025	Multitech 002 025 038 005	Technics 021
030 032 034 040 047 050	NEC 018 007 026 037 008 062 064	Teknika 021 006 025 031
052 060 063 065 066 067	Optimus 020	TMK 066
069	Panasonic 021 056 071 072	Toshiba 003 019 029 051 052
Fisher 018 024 028 029 048 051 061	Pentax 019 041	Totevision 002 006
Funai 025	Pentex Research 008	Unitech002_
General Electric 017 002 021	Phileo 021 036 056 059	VectorResearch 007 026
005 056	Philips 021 036	Victor 026
Go Video 002	Pioneer 019 026 039 053	
LG(Goldstar) 006 007 008 009 010	Portland 015 049 055	
Harman Kardon 007	PROSCAN 017	Wards 002 003 006 019 020 021
Hitachi 019 025 041 042	Quartz 018	024 025 034 038 041
InstantReplay 021	Quasar 021 056	Yamaha 007 008 018 026 037
JC Penny 002 007 018 019 021	Radio Shack/Realistic	Zenith 023 027 033 073
026 037 041 054 056	006 018 020 021 024 025 029 034 048 056	

Cable Box Codes

Brand	Codes	Brand		Codes	Brand	Codes
Anvision	017 018	Philips	019	021 023 028	Sprucer	022
Ğİ	041	Pioneer	018	020 004 044	Stargate 2000	036
Hamlin	003 024 031	RCA		014 022 040	Sylvania	016
Hitachi	025 030	Regal		003_	Texscan	016
Jerrold	038 039	Regency		015 023	Tocom	032
Macom	025 030	SA		042 043	Universal	033 034
Magnavox	019 023 028	Samsung	000 001 002	003 004 005	Viewstar	019 021 023 028
Oak	026	l <u> </u>		006 007	Warner amex	046
Panasonic	003 022 027 037 044	Scientific /	Atlanta	042 043	Zenith	017 029 035 037 045

DVD Codes

Brand	Codes
Samsung	000 001
JVC	002
PROSCAN	003
RCA	003
LG(Goldstar)	006
Sony	007
Denon	008
Curtis Mathes	009



Viewing an External Signal Source

Use the remote control to switch between viewing signals from connected equipment, such as VCR, DVD, Set-Top box and the TV source (broadcast or cable).

Setting the Signal Source

- Press the MENU button.

 Press the ENTER button to select "Input".
 - Quick way to access viewing an external signal source: Just press the "SOURCE" button on the remote control.



? Press the ENTER button to select "Source List".



3 Press the ▲ or ▼ button to select signal source, then press the ENTER button.



4

Press the MENU button to exit.

- When you connect equipment to the TV, you can choose between the following sets of jacks: AV1, AV2, S-Video1, S-Video2, PC, Component1, Component2, HDM11, or HDM12 on the TV's rear panel.
- HDMI input can only be selected when the external device is turned on and connected via HDMI.

Plasina Display

Assigning Names to External input mode

Press the MENU button.
Press the ENTER button to select "Input".



Press the ▲ or ▼ button to select "Edit Name", then press the ENTER button.



- Press the ENTER button.

 Press the ▲ or ▼ button to select external device, then press the ENTER button.
 - You can select the VCR, DVD, Cable STB, HD STB, Satellite STB, AV Receiver, DVD Receiver, Game, Camcorder, DVD Combo, DHR, PC, D-VHS, or PVR STB.
 - Set other signal sources (AV2, S-Video1, S-Video2, Component1, Component2, PC, HDM11, or HDM(2) using the same method as listed above.



A Press the MENU button to exit.

PLASMA DISPLAY PANEL

Picture Control



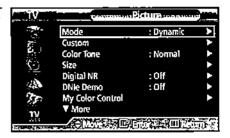
Customizing the Picture	52
Using Automatic Picture Settings	
Selecting the Color Tone	
DNIe (Digital Natural Image engine) Demo	
Changing the Screen Size	
Freezing the Picture	58
Viewing The Picture-in-Picture	
Setting the My Color Control Made	



Customizing the Picture

You can use the on-screen menus to change the Contrast, Brightness, Sharpness, Color, and Tint settings of your TV.

Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



Press the ▲ or ▼ button to select "Custom", then press the ENTER button.

You will also see the items "Contrast", "Brightness", "Sharpness", "Color", and "Tint".



Press the ▲ or ▼ button to select the item you wish to change, then press the ENTER button.

Press the ◄ or ▶ button to change the value of the item.



4

Press the MENU button to exit.

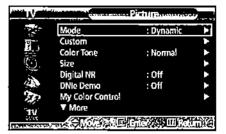
- In the Component(480p, 720p, 1080i), HDMI mode, you can't adjust the Tint.
- If you make any changes to these settings, the picture mode is automatically switched to custom.
- Each adjusted setting will be stored separately according to its input mode.
- When you make changes to Contrast, Brightness, Color, Tint, OSD color will also be adjusted accordingly.



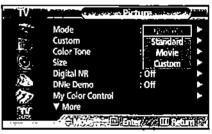
Using Automatic Picture Settings

Your TV has automatic picture settings that allow you to adjust the video display easily.

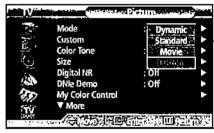
Press the MENU button, Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



Press the ENTER button to select "Mode".



Press the ▲ or ▼ button to select "Dynamic", "Standard", "Movie", or "Custom" picture setting, then press the ENTER button.



Press the MENU button to exit.

- Choose Dynamic for viewing the TV during the day or when there is bright light in the room.
- Choose Standard for the standard factory settings.
- · Choose Movie when viewing the movie.
- Choose Custom if you want to adjust the settings according to personal preference (see "Customizing the Picture", page 52).

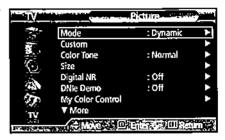
Note

Each adjusted value of Picture mode will be stored separately according to its input mode.

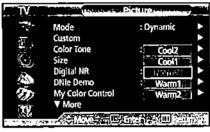


Selecting the Color Tone

Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



Press the ▲ or ▼ button to select "Color Tone", then press the ENTER button.



Press the ▲ or ▼ button to select "Cool2", "Cool1", "Normal", "Warm1", or "Warm2", then press the ENTER button.



Press the MENU button to exit.



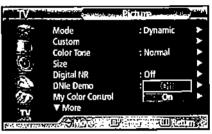
DNIe (Digital Natural Image engine) Demo

Samsung's new technology brings you more detailed images with contrast, white enhancement and 3D noise reduction.

Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



Press the ▲ or ▼ button to select "DNIe Demo", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.
 - Off : Switches off the DNIe mode.
 - On: Switches on the DNIe mode.



4

Press the MENU button to exit.



Changing the Screen Size

Screen size selection depends on the type of video input.

- Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.
 - Quick way to change the Screen size: Simply press the ASPECT button under the cover of the remote control.



Press the ▲ or ▼ button to select "Size", then press the ENTER button.



Press the ▲ or ▼ button to select the screen size you want, then press the ENTER button.



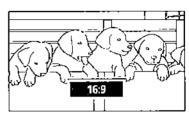
1

Press the MENU button to exit.

- If you watch a still image or the 4:3 (Normal) mode for a long time (over 2 hours), an image may
 be burned onto the screen.
- View the monitor in 16:9(Wide) or Panorama mode as much as possible.

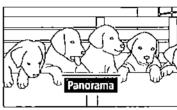
16:9(Wide)

16:9 Aspect Ratio that fits DVD and Wide Screen applications.



Pauorama

Fits a 16:9 picture onto a 4:3 screen and displays it without clipping the image.

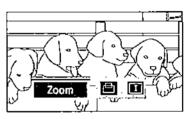


Zeem

Magnifies the 16:9 wide picture (in a vertical direction) to fit the screen size.

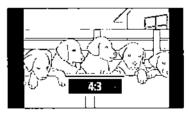
Select by pressing the or button.

Use the or button to move the picture up and down. After selecting or vertical direction.



4 : 3(Normal)

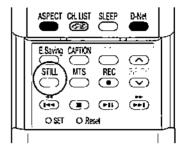
Standard TV and VCR screen size having a 4:3 Aspect Ratio.



- In TV, VIDEO, S-VIDEO and Component (480i) modes, all screen modes can be selected. (16:9 → Panorama → Zoom → 4:3).
- In PC mode, only 16:9 & 4:3 modes can be selected.
- In Component (480p, 720p. 1080i) modes, Panorama mode can't be selected.
- In Zaom mode, you can move the picture on screen by pressing the ▲ or ▼ button.
 (All screen modes)

Still

Press the STILL button on the remote control to freeze a moving picture. Press again to cancel.



- The still picture will automatically be released after 3 minutes to prevent screen burn.
- If you press a remocan button in Still mode, the still picture will be cleared.



Viewing the Picture-in-Picture

Selecting the PIP Screen

- Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.
 - Quick way to access the PIP mode: Just press the "PIP" button on the remote control.
- Press the ▲ or ▼ button to select "PIP", then press the ENTER button.
- Press the ENTER button, then press the ▲ or ▼ button to select "On". The PIP image will appear in the corner of the screen.
 - Pressing the ▲ or ▼ button will alternate between "On" and "Off".

Note

Check if the V-Chip Lock (refer to page 115) is ON if the PIP On/Off will not function. PIP does not function when the V-Chip Lock is set to On. Change the setting to Off and try it again.

Press the MENU button to exit.

O: PIP and swap operate

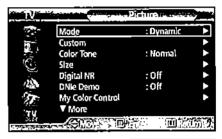
PIP operate and swap doesn't operate

711	PIP Serrings X : PIP doesn't operale										
	Main screen		TV							Ī	
PII	P screen	ATSC/ Cable DTY	Air (NTSC)	Coble (NTSC)	AVI	S-Videa)	(omponen) 1	Composeni 2	PC	HDMI 1	HDMI 2
ן עז	ATSC/ Cable DTY	х	х	Х	X	х	Х		х	х	
[14	Air(NTSC)	X	Х	Х	X	Х	Х		Х	Х	
	Coble(MTSC)	4	A	0	0	0	A		A		
	AV1	•		0	Х	0	A		A	A	
	AV2	A _	•	0	0	<u> </u>			A	A	
	S-Video 1	X	х	X	Х	Х	Х		Х	Х	
	S-Video 2										
	Component 1	Х	Х	X	Х	Х	Т х _		Х	Х	
	Component 2	Х	Х	χ	_ X	Х	Х		Х	Х	

Selecting an External Signal

You can use PIP to view a signal from an external source, such as a VCR.

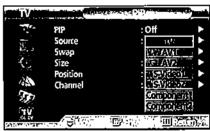
Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



Press the ▲ or ▼ button to select "Source", then press the ENTER button.



Press the ▲ or ▼ button to cycle through all of the available signal sources: "TV", "AV1", "AV2", "S-Video1", "S-Video2", "Component1", or "Component2".

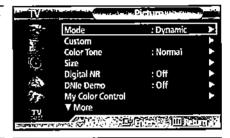
The signal from these inputs will not appear if you have not connected any equipment to the TV's respective input jacks.

Press the MENU button to exit.

- The same Source can not be selected on both the main screen and subscreen.
- · HDMI is not available in PIP picture.

Swapping the Contents of the PIP and Main Image

Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



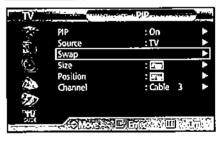
Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Swap", then press the ENTER button.
 - The image in the PIP window will appear on the main screen, and vice versa.

<u>Note</u>

 If main picture is in HDMI mode, Swap is not available.

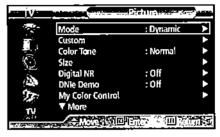


4

Press the MENU button to exit.

Changing the Size of the PIP Window

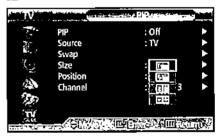
Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



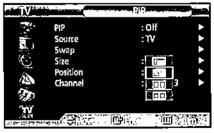
Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



Press the ▲ or ▼ button to select "Size", then press the ENTER button.



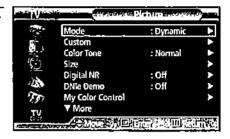
Press the ▲ or ▼ button to select option you want, then press the ENTER button.



Press the MENU button to exit.

Changing the Location of the PIP Image

Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



Press the ▲ or ▼ button to select "Position", then press the ENTER button.



Press the ▲ or ▼ button to select the PIP position you want, then press the ENTER button.



5 Press the MENU button to exit.

<u>Note</u>

• The Double1 (□) and Double2 (□) mode cannot be selected in Position.

Changing the PIP Channel

Press the MENU button. Press the ▲ or ▼ button to select "Picture", Ihen press the ENTER button. Color Tone : Normal > Quick way to change the PIP channel; Just press the "CH 🖎" or : Off : Off "CH 🐷 " button under the cover of the remote control. My Color Control Press the ▲ ar ▼ button to select "PIP", then press the ENTER button. Swap Size Press the ▲ or ▼ button to select "PIP Channel", then press the ENTER button. Size Position Channel Press the ▲ or ▼ button to change the channel that ; On ; TV appears in the PIP window. Size CABLE 11 Channe

Press the MENU button to exit.

- When PIP screen size is Double, the same channel cannot be selected for both main and sub screens.
- Only Analog channels signal inputs can be viewed through PIP.



Setting the My Color Control Mode

My Color Control mode allows users to adjust colors according to their preferences, by adjusting skin, sky, and grass tones using the predefined settings (Standard, Custom, Blue, Green, Pink) without affecting other colors on the screen.

Using the My Color Control Function in the Easy Control Menu

Skin, sky and grass tones are easily adjustable to suit your preferences.

Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



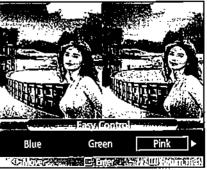
Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.



- Press the ▲ or ▼ button to select "Easy Control", then press the ENTER button.
- Press the ◀ or ▶ button to select the setting among the various picture settings. The original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.
 - There are five My Color Control modes: Standard, Custom, Blue, Green, and Pink.

Press the MENU button to exit the menu.





Note

• This feature is operated when the "DNIe Demo" is set to "On".

My Color Control Mode Characteristics

Using My Color Control mode, you can enjoy vivid colors as shown below.



> Standard Picture.



Emphasizes Mild Greens.



➤ Emphasizes Clear Blues.



Emphasizes Warm Skin Colors.

<u>Note</u>

Images shown above may differ from the actual adjustment on the screen.
 These images are presented for illustrative purposes.



Setting the My Color Control Mode

My Color Control Custom Settings

Users can adjust the 3 My Color Control colors (Pink, Green and Blue).

Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.



Press the ▲ or ▼ button to select "Detail Control", then press the ENTER button.



- Press the ▲ or ▼ button to select the desired color and then press the ENTER or ▶ button.
 - The original picture (before adjustment) is shown on the left side, while the picture after adjustment is shown on the right side, and an adjustment bar on the bottom of the screen.
- 5 Press the ◀ or ➤ button to adjust the settings.
 Press the s or ▼ button to choose other colors.

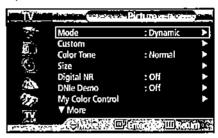


Press the ENTER or MENU button to confirm the changes and return to the previous menu.

Resetting the My Color Control Colors to the Factory Defaults

To return to the factory default settings for My Color Control colors, use the Reset function.

Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.



Press the ▲ or ▼ button to select "Detail Control", then press the ENTER button.



Press the ▲ or ▼ button to select "Reset" and press the ENTER button.



The previously adjusted My Color Control Colors will be reset to the factory defaults. (The default value for My Color Control colors is 50.)



Press the MENU button to exit the menu.

PLASMA DISPLAY PANEL

Sound Control



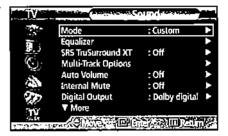
Customizing the Sound	70
Using Automatic Sound Settings	
Setting the TruSurround XT	
Choosing a Multi-Channel Sound (MTS) track - Digital	
Choosing a Multi-Channel Sound (MTS) track - Analog	
Using the Auto Volume	75
Choosing a Digital Sound Format	
Setting up the Sub Woofer Output	
	
•	
Setting the On/Off Melody	



Customizing the Sound

The sound settings can be adjusted to suit your personal preferences. (Alternatively, you can use one of the "automatic" settings. See next page.)

Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



Press the ▲ or ▼ button to select "Equalizer", then press the ENTER button.



Press the ◀ or ➤ button to select a particular frequency to adjust. Press the ▲ or ▼ button to increase or decrease the level of the particular frequency.

4

Press the MENU button to exit.

Note

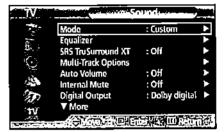
 If you make any changes to the equalizer settings, the sound mode is automatically switched to the custom mode.



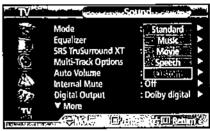
Using Automatic Sound Settings

Your TV has automatic sound settings ("Standard", "Music", "Movie", and "Speech") that are preset at the factory. Or, you can select "Custam," which automatically recalls your personalized sound settings.

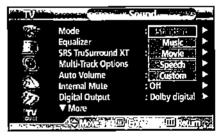
Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



Press the ENTER button to select "Mode".



Press the ▲ or ▼ button to select "Standard", "Music", "Movie", "Speech", or "Custom" sound setting, then press the ENTER button.



1

Press the MENU button to exit.

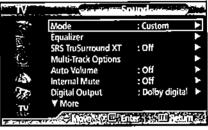
- Choose Standard for the standard factory settings.
- Chaose Music when watching music videos or concerts.
- · Choose Movie when watching movies.
- Choose Speech when watching a show that is mostly dialog (i.e., news).
- Choose Custom to recall your personalized settings (see "Customizing the Sound", page 70).



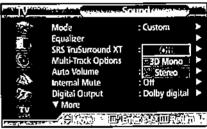
Setting the TruSurround XT

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. Trusurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

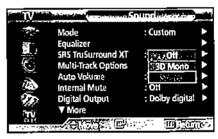
Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



Press the ▲ or ▼ button to select "SRS TruSurround XT", then press the ENTER button.



Press the ▲ or ▼ button to change the setting (Off, 3D Mono, or Stereo), then press the ENTER button.



1

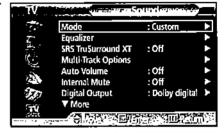
Press the MENU button to exit.



Choosing a Multi-Channel Sound (MTS) track - Digital

The digital-TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages). The availability of these additional "multitracks" depends upon the program.

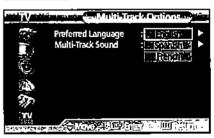
- Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.
 - Quick way to access the MTS menu: Just press the "MTS" button on the remote control. You can listen in a language other than the favorile language by pressing the MTS button.



Press the ▲ or ▼ button to select "Multi-Track Options", then press the ENTER button.



Press the ENTER button to select "Preferred Language". Press the ▲ or ▼ button to choose the language (English, Spanish, or French) you want, then press the ENTER button.



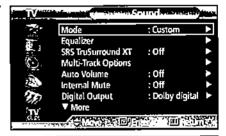
4



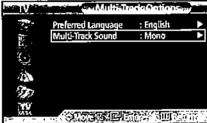
Choosing a Multi-Channel Sound (MTS) track - Analog

Depending on the particular program being broadcast, you can listen to Mono, Stereo or SAP.

- Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.
 - Quick way to access the MTS menu: Just press the "MTS" button on the remote control repeatedly to select one of the settings.

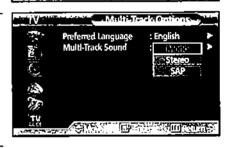


Press the ▲ or ▼ button to select "Multi-Track Options", then press the ENTER button.



Press the ▲ ar ▼ button to select "Multi-Track Sound", then press the ENTER button.

Press the ▲ or ▼ button to select a setting you want, then press the ENTER button.



1

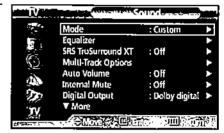
- Choose "Mono" for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose "Stereo" for channels that are broadcasting in stereo.
- Choose "SAP" to listen to the Separate Audio Program, which is usually a foreign-language translation.



Using the Auto Volume

Each broadcasting station has its own signal conditions, which can make it necessary to adjust the volume every time the channel is changed. "Auto Volume" lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

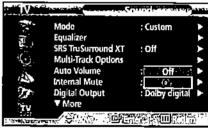
Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



Press the ▲ or ▼ button to select "Auto Volume", then press the ENTER button.



- Press the ▲ or ▼ button to select "On", then press the ENTER button.
 - Pressing the ▲ or ▼ button will alternate between "On" and "Off".





Choosing a Digital Sound Format

Digital sound can be output from the rear panel connector on your TV. The digital sound outputs are connectors labeled "Optical" and "Coaxial". After connecting a digital-audio component, you must specify the transmission format (Dolby or PCM, as appropriate to your digital audio component).

Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



Press the ▲ or ▼ button to select "Digital Output", then press the ENTER button.

Press the ▲ or ▼ button to select "Dolby Digital" or "PCM", then press the ENTER button.

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





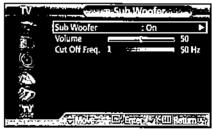
Setting up the Sub Woofer Output

After connecting a Sub Woofer Speaker (sold separately), you may set the activation, volume and cut-off frequency.

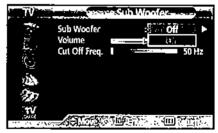
Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



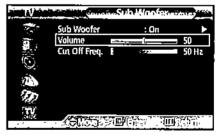
Press the ▲ or ▼ button to select "Sub Woofer", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "On", then press the ENTER button.
 - Pressing the ▲ or ▼ button will alternate between "On" and "Off".



- Press the ▲ or ▼ button to select "Volume" or "Cut Off Freq.", then press the ⋖ or ▶ button to change the value of the item.
 - Volume: adjust the volume of the Sub Woofer.
 - Cut Off freq. : adjust the Frequency in units of 10 Hz.

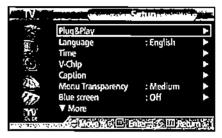




Setting the On/Off Melody

A melody sound can be set to come on when the TV is powered On or Off.

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "Melody", then press the ENTER button. Press the ▲ or ▼ button to select "On" or "Off", then press the ENTER button.



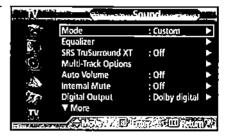




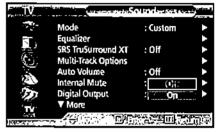
Selecting the Internal Mute

Sound output from the TV speakers is muted.

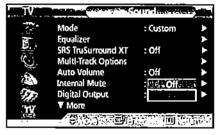
Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



Press the ▲ or ▼ button to select "Internal Mute", then press the ENTER button.



- Press the ▲ or ▼ button to select "On", then press the ENTER button.
 - Pressing the ▲ or ▼ button will alternate between "On" and "Off".



4

Press the MENU button to exit.

Notes

- When Internal mute is set to "On", Sound menus except Multi-track option cannot be adjusted.
- The monitor and digital audio outputs (Optical, Coaxial) remain enabled.

		·

PLASMA DISPLAY PANEL

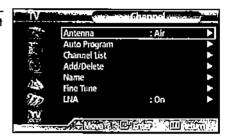
Channel Control CH



Selecting the Antenna	82
Labeling the Channels	83
Viewing the Channel Lists	
Fine Tuning Analog Channels	85
LNA (Low Noise Amplifier)	

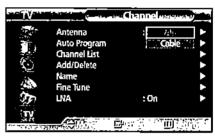
CH Selecting the Antenna

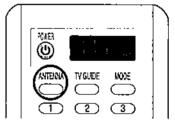
Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



Press the ENTER button to select "Antenna".

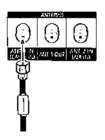
Press the ▲ or ▼ button to select "Air" or "Cable",
Then press the ENTER button.

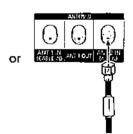




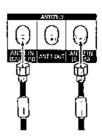
<u>Notes</u>

 If the antenna is connected to ANT 1 IN (CABLE IN), select "CABLE" and if it is connected to ANT 2 (AIR IN), select "AIR".





 If both ANT 1 IN and ANT 2 IN are connected, select the antenna input you want.
 If the antenna input is not selected properly, noise may appear on the screen.



Plasine Display



Labeling the Channels

Use this feature to assign an easy-to-remember label to any channel (i.e., "CBS", "ESPN", "PBS2", "CNN1", etc.) A label consists of five fields, where each field is a letter, a number or a blank. When the INFO button is pressed, the channel label will appear next to the channel number.

Press the MENU button.

Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



Press the ▲ or ▼ button to select "Name", then press the ENTER button.

Press the ▲ or ▼ button to select the channel to be assigned to a new name, then press the ENTER button.

Press the ▲ or ▼ button to select a letter, a number or a blank {Results in this sequence: A...Z, 0...9, +, -,], /, blank}.

Press the ▶ button to switch to the next field, which will be selected.

Select a second letter or digit by pressing the ▲ or ▼ button, as above.

Repeat the process to select the last two digits. When you have finished, press the ENTER button to assign the new name.



3

Press the MENU button to exit.

Notes

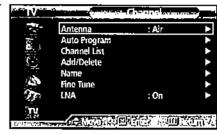
- The names of digital broadcasting channels are automatically assigned and thus cannot be assigned by users.
- When you use CableCARD to watch cable broadcasting, it might take some time for a channel name to be displayed due to data-receiving time.



Viewing the Channel Lists

You can display a list of all channels or your favorite channels.

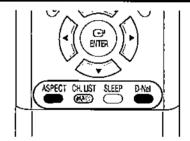
- Press the MENU button.
 - Press the ▲ or ▼ button to select "Channel", then press the ENTER button.
 - Quick way to view the Channel Lists: Just press the "CH.LIST" button on the remote central.
- Press the ▲ or ▼ button to select "Channel List", then press the ENTER button.





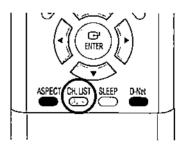
- Press the ▲ or ▼ button to select "All" or "Favorite", then press the ENTER button.
 - To toggle between your favorite channels or all channels, use the yellow button on the remote control.
 - Red button : Press to display the previous channel list
 - Green button: Press to display the next channel
 Yellow button: Press to toggle between your favorite
 - channels or all channels.

Blue or EXIT button: Press to exit.



Alternate method:

Press the CH.UST button on the remote control to display a list of channels.



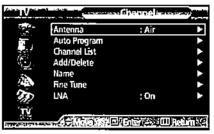
Plasina Display



Fine Tuning Analog Channels

Use fine tuning to manually adjust a particular channel for optimal reception.

Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



Press the ▲ or ▼ button to select "Fine Tune", then press the ENTER button.

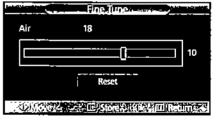


Press the ◀ or ► button to adjust the fine tuning.

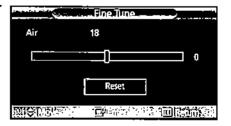


To store the fine tuning setting in the TV's memory, press the ENTER button.

To reset the fine tuning setting, press the ▼ button to select "Reset", then press the ENTER button.



Press the MENU button to exit.



Notes

- Only analog TV channels can be fine tuned.
- "*" will appear next to the name of fine-tuned channels.



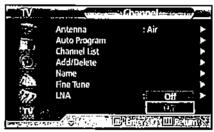
LNA (Low Noise Amplifier)

If the TV is operating in a weak-signal area, sometimes the LNA function can improve the reception (a law-noise preamplifier boosts the in coming signal).

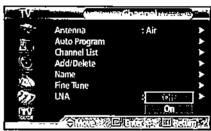
Press the MENU button. Press the ▲ ar ▼ button to select "Channel", then press the ENTER button.



Press the ▲ or ▼ button to select "LNA", then press the ENTER button.



- Press the ▲ or ▼ button to select "On", then press the ENTER button.
 - Pressing the ▲ or ▼ button will alternate between "On" and "Off".



4

Press the MENU button to exit.

Note

 LNA functions only when antenna is set to AIR and the settings will be stared separately in each channel. (See "Selecting the Antenna" on page 82.)

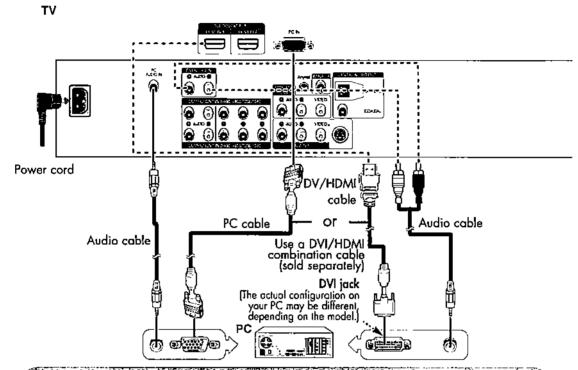
Connecting a PC and Operation



Connecting a PC	88
Adjusting the PC Screen	
Changing the Position of the Image	
Picture Quality Adjustment	
Reset	



Connection to a Macintosh computer may require an adapter.



Connecting a PC (15p.D.SUB) to the TV

- Connect a PC cable between the PC Output jack on the PC and the RGB input jack (PC IN) on the TV.
- $\mathbf{2}$ Connect a Audio cable between the Audio jack on the PC and the Audio input jacks (PC AUDIO IN) on the TV

Connecting a PC (DVI) to the TV

- Connect a DVI/HDMI cable between the PC DVI jack on the PC and the HDMI input jack on the TV.
- 2 Connect a Audio cable between the Audio jack on the PC and the Audio L/R input (DVI AUDIO IN) jacks on the TV.

Note

Please be sure to match the color coded input terminals and cable jacks.

To watch the PC screen:

- Turn on your TV.
- Press the SOURCE button on the remote control or SOURCE button on the front panel to select "PC".
- Turn on your PC and check for PC system requirements. (Refer to pages 90 and 91 for PC system requirements.)
- 4. Adjust the PC screen. (Refer to pages 92 and 94.)

Plasina Display

Setting up Your TV (Plug and Play)

Our adoption of the new VESA® Plug and Play solution eliminates complicated and time consuming selup. It allows you to install your monitor in a Plug and Play compatible system, without the usual setup hassles and confusion. Your PC system can easily identify and configure itself for use with your display. This monitor automatically tells the PC system its Extended Display Identification data (EDID) using Display Data Channel (DDC) protocols.

How to Set up Your PC Software (Windows only)

The Windows (MS Windows XP) display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. Even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)







- Right click the mouse on the Windows Desktop, then click on [Properties].
 The <Display Dialog-Box> will be displayed.
- Click on [Settings], then set the <Display Mode> by referring to the Display Modes Table on the next page. You do not need to change the <Colors> settings.
- Click on [Advanced].
 A new settings dialog box will be displayed.
- Click on the [Monitor] tab, then set the <Screen
 Refresh Rate> with reference to the Display Modes
 Table.
 Set the <Vertical Frequency> and <Horizontal
 Frequency> individually if you can do so instead of
 setting the <Screen Refresh Rate>.
- Press the [OK] button, close the window, then press the [OK] button on the Clisplay Registration Information> window. Automatic re-boating may commence at this moment.
- 6. Shutdown the PC, and connect it to your TV.
- The actual screens on your PC may look different, depending on your particular version of Windows and the type of your PC.
- When you use your TV as a PC monitor, it supports Colors up to 32 bits.
- The display on the TV may look different depending on your particular version of Windows or the PC manufacturer.
- When connecting a PC (including the DVI connection), you must set it to the display settings that are supported by the TV. Otherwise, the message 'Out of input range' will be displayed.

Continued...

Plasina Display

Notes

Both screen position and size will vary, depending on the type of PC monitor and its resolution. The table below shows all of the display modes that are supported:

Video Signal	Resolution (Dot X Line)	Vertical Frequency(Hz)	Horizonial Frequency(KHz)	Vertical Polarity	Horizontal Polarity
	720 X 400	70.087	31.469	Р	N
		59.940	31.469	N	N
	640 X 480	72.809	37.861	N	N
	040 A 400	75.000	37.5	N	N
		85.008	43.269	N	N
		56.250	35,156	N/P	N/P
		60,317	37.897	Р	Р
IBM PC / AT Compolible	800 X 600	72.188	48.077	Р	Р
	•,	75.000	46.875	Р	Р
		85.061	53.674	Р	Р
		60.004	48.363	N	N
	1024 X 768	70.069	56.476	N	N
		75.029	60.023	Р	Р
	1280 X 1024	60.020	63.981	P	Р

- The interlace mode is not supported.
- The TV operates abnormally if a non-standard video format is selected.
- The table above conforms to IBM/VESA regulations and is based on using the Analog Input.

Notes

- The PC text quality is optimum in XGA mode (1024 x 768@60Hz).
- When this TV is used as a PC display, 32-bit color is supported.
- Depending on the manufacturer, your PC display screen might appear different.
 (and depending on your particular version of Windows.)
 - Check your PC instruction book for information about connecting your PC to a TV.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 48.4kHZ (horizontal).
- In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is lurned off (or if the PC is disconnected). If so, press the SOURCE button on the remote control or SOURCE button on the front panel to enter the VIDEO mode. Also, make sure that the PC is connected.
- Connect only a PC monitor to the monitor output port while viewing the PC screen.
 (Otherwise, random signals might appear).



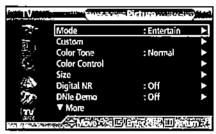
Adjusting the PC Screen

Adjusting the R.G.B

Preset:

Press the SOURCE button to select "PC".

Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



Press the ▲ or ▼ button to select "Color Control", then press the ENTER button.

The "Color Control" is available only when the "Color Tone" is set to Custom and a PC is connected.



- Press the ▲ or ▼ button to select the item you want to change, then press the ENTER button.

 Press the ◀ or ▶ button to change the value of the item, using the on-screen gauge as your guide.
 - Press the ▲ or ▼ button to select another item.



1



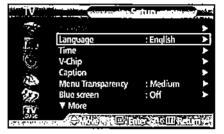
Changing the Position of the Image

After connecting the TV to your PC, adjust the position of the screen if it is not well-aligned.

Preset:

Press the SOURCE button to select "PC."

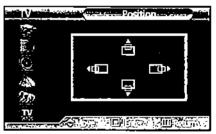
Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "PC", then press the ENTER button.

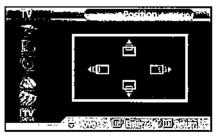


3 Press the ▲ or ▼ button to select "Position", then press the ENTER button.



Adjust the position of screen by pressing the

▲/▼/◄/▶ button.





Picture Automatic Adjustment

Preset:

Press the SOURCE button to select "PC".

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "PC", then press the ENTER button.



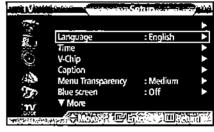
Press the ▲ or ▼ button to select
"Auto Adjustment", then press the ENTER button.
The message "Auto Adjustment in progress.Please Wait"
appears on the screen and the picture adjustments
are automatically activated.



Coarse Adjustment

Preset:

- Press the SOURCE button to select "PC".
- Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "PC", then press the ENTER button.



- Press the ENTER button to select "Coarse".

 Remove picture noise (vertical stripes) on the screen by pressing the ◀ or ➤ button. (If Coarse is not set properly, vertical stripes will appear on the screen.)
 - Press the ▲ or ▼ button to select another item.



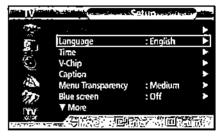
1

Fine Tuning (Fine)

Preset:

Press the SOURCE button to select "PC".

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "PC", then press the ENTER button.



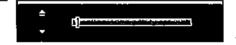
3 Press the ▲ or ▼ button to select "Fine", then press the ENTER button.

Remove picture noise on the screen by pressing the

✓ or

button. (If Fine is not set properly, noise will appear on the screen.)

Press the ▲ or ▼ button to select another item.





Preset:

- · Press the SOURCE button to select "PC".
- Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "PC", then press the ENTER button.



- Press the ▲ or ▼ button to select "Reset", then press the ENTER button.
 - The previously adjusted settings will be reset to the factory defaults.

PLASMA DISPLAY PANEL

Time Setting



Setting the Clock	100
Setting the Sleep Timer	102
Setting the On/Off Timer	103



Setting the Clock

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press the INFO button.)

Option 1: Setting the Clock Manually

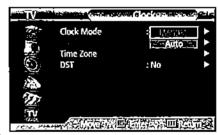
Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "Time", then press the ENTER button. Press the ENTER button to select "Clock".



Press the ENTER button to select "Clock Mode". Press the ▲ or ▼ button to select "Manual", then press the ENTER button.



A Press the ▲ or ▼ button to select "Clock Set", then press the ENTER button.



Press the

or

button to move to "Month", "Day",
"Year", "Hour", "Minute", or "am/pm".

Set the clock you want by pressing the

or

button,
then press the ENTER button.



Press the MENU button to exit.

Notes

- · The current time will appear every time you press the INFO button.
- You can set the hour and minute directly by pressing the number buttons on the remote control.

Option 2: Setting the Clock Automatically

The Clock can be set automatically if you are receiving a digital signal.

- Press the MENU button.

 Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
- Press the ▲ or ▼ button to select "Time", then press the ENTER button.

 Press the ENTER button to select "Clock".
- Press the ENTER button to select "Clock Mode".

 Press the ▲ or ▼ button to select "Auto", then press the ENTER button.
- Press the ▲ or ▼ button to select "Time Zone", then press the ENTER button.

Press the ▲ or ▼ button to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States), then press the enter button.

Press the A or V button to select "DST" (Daylight Saving Time), then press the ENTER button. Press the A or V button to select "Yes" or "No", then press the ENTER button.

A Press the MENU button to exit.

Note

 Depending on the broadcast station and signal, the auto time may not be set correctly. If this occurs, set the time manually.













Setting the Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (from 30 to 180 minutes).

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "Time", then press the ENTER button.

Press the ▲ or ▼ button to select "Sleep Timer", then press the ENTER button.



Press the ▲ or ▼ button to adjust "Minute".



Press the ▶ button to select "Activation".

Press the ▲ or ▼ button to select "Yes", then press the ENTER button.





Setting the On/Off Timer

1 Press the MENU button.

Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "Time", then press the ENTER button.

Press the ▲ or ▼ button to select "On Timer", then press the ENTER button.

Press the ▲ or ▼ button to adjust "Hour", then press the ▶ button to move to the next step.

Set other items using the same method as above.

When finished, press the MENU button to return.

- The current time will appear every time you press the INFO button.
- You can set the hour and minute directly by pressing the number buttons on the remote control.



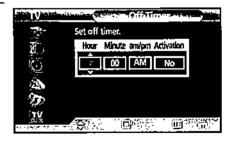


Press the ▲ or ▼ button to select "Off Timer", then press the ENTER button.

Press the ▲ or ▼ button to adjust "Hour", then press the ► button to move to the next step.

Set other items using the same method as above.

When finished, press the ENTER button.



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Function Description



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Using the CableCARD Setup Function	122
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Selecting a Menu Language

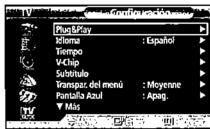
Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ENTER button to select "Language".



Press the ▲ or ▼ button to select the appropriate language: "English", "Español", or "Français". Press the ENTER button.





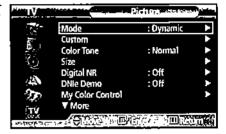


Selecting the Film Mode

On: Automatically senses and processes film signals from all sources and adjusts the picture for optimum quality.

Off: Switches off the Film mode.

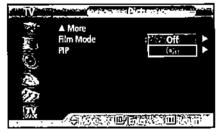
Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



Press the ▲ or ▼ button to select "Film Mode", then press the ENTER button.



Press the ▲ or ▼ button to select "On" or "Off", then press the ENTER button.



1

Press the MENU button to exit.

Note

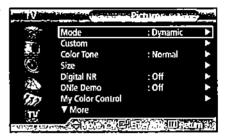
• Film mode is supported in TV, VIDEO, S-VIDEO and COMPONENT 480i.



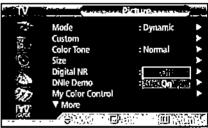
Digital Noise Reduction

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

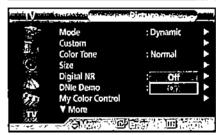
Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



Press the ▲ or ▼ button to select "Digital NR", then press the ENTER button.



Press the ▲ or ▼ button to select "On" or "Off", then press the ENTER button.



4

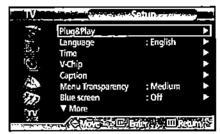
Plasma Display



Using the Color Weakness Enhancement Option

This aption adjusts the Red, Blue or Green color to enhance the image according to the user's particular color weakness.

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "Color Weakness", then press the ENTER button.



- Press the ENTER button. Press the ▲ or ▼ button to select "On", then press the ENTER button. You will also see the items "Red", "Green", and "Blue".
 - Pressing the ▲ or ▼ button will alternate between "On" and "Off".



Press the ▲ or ▼ button to select the item you wish to change, then press the ENTER button. Press the ◀ or ▶ button to change the value of the item, then press the ENTER button.

Press the ▲ or ▼ button to select another item.



Press the MENU button to exit.



Viewing Closed Captions (On-Screen Text Messages) - Analog

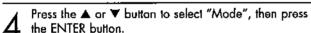
The Analog Caption function operates in either analog RF channel mode or external signal mode.

Press the Menu button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

Quick way to select Coption: Simply press the "CAPTION" button under the cover of the remote control.

- Press the ▲ or ▼ button to select "Caption", then press the ENTER button.
- Press the ENTER button to select "Caption".

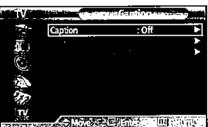
 Press the ▲ or ▼ button to select "On", then press the ENTER button.

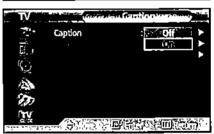


Press the ▲ or ▼ button to select submenu (CC1~CC4 or Text1~Text4) you want, the press the ENTER button.

- The default is "CC1".
- CC1 : The Primary Synchronous Caption Service. These are captions in the primary language that must be in sync with the sound, preferably matched to a specific frame.
- CC2: The Special Non-Synchronaus Use Captions.
 This channel carries data that is intended to augment information carried in the program.
- CC3: Secondary Synchronous Caption Service.
 Alternate program-related caption data, typically second language captions.
- CC4 : Special Non-Synchronous Use Captions. Similar to CC2.









5

Press the MENU button to exit.

Notes

- The Caption feature doesn't work in COMPONENT(480p, 720p, 1080i), DVI, HDMI modes.
- The availability of captions depends on the program being broadcast.

Plasma Display

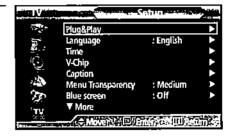


Viewing Closed Captions (On-Screen Text Messages) - Digital

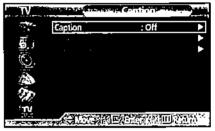
The Digital Captions function operates on digital channels.

Press the MENU button.

Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

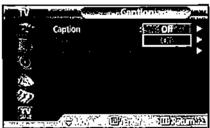


Press the ▲ or ▼ button to select "Caption", then press the ENTER button.



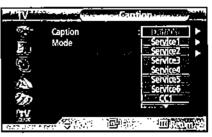
Press the ENTER button to select "Caption".

Press the ▲ or ▼ button to select "On", then press the ENTER button.



Press the ▲ or ▼ button to select "Mode", then press the ENTER button.

Press the ▲ or ▼ button to select submenu (Service1~Service6, CC1~CC4 or Text1~Text4) you want, then press the ENTER button.



5 Press the ▲ or ▼ button to select "Caption Options", then press the ENTER button.



Notes

- "Digital Caption Options" are available only when "Service1 ~Service6" can be selected in "Mode".
- SERVICE1~6 in digital caption mode may not be available according to the broadcasting type.

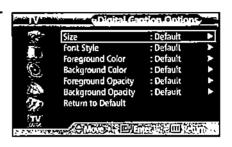
6 Press the ▲ or ▼ button to select "Size", then press the ENTER button.

Press the ▲ or ▼ button to select the desired Caption option, then press the ENTER button.

Press the Up or Down button to select the desired sub-menu options(see options below), then press ENTER.

Notes

- The availability of captions depends on the program being broadcast.
- The "default" means to follow the rule of broadcasting.



7

Press the MENU button to exit.

Size

This option consists of "Default", "Small", "Standard", and "Large". The default is "Standard".

Font Style

This option consists of "Default", "StyleO ~ Style 7". You can change the font you want. The default is "Style O".

Foreground Calor

This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta", and "Cyan". You can change the color of the letter. The default is "White".

Background Color

This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta", and "Cyan". You can change the background color of the caption. The default is "Black".

Foreground Opacity

This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing". You can change the opacity of the letter.

Background Opacity

This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing". You can change the background opacity of the caption.

Return to Default

This option sets each of "Size", "Font Style", "Foreground Color", "Background color", "Foreground Opacity", and "Background Opacity" to its default.

Alternate method:

Press the CAPTION button on the remote control repeatedly to select "On" or "Off".





Menu Transparency Level

Adjusts the transparency of the menu screen.

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "Menu Transparency", then press the ENTER button. Press the ▲ or ▼ button to select level, then press the ENTER button.



Press the MENU button to exit.



Setting the Function Help

Displays help on the menu functions.

Press the MENU button.

Press the ▲ or ▼ button to select "Setup".

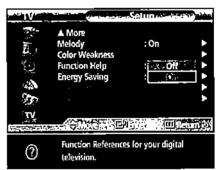
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "Function Help", then press the ENTER button.



Press the ▼ button to select "On", then press the ENTER button.



Press the MENU button to exit.

Plasma Display



Using the V-Chip

The V-Chip feature automatically locks out programs that are deemed inappropriate for children. The user must enter a PIN (personal ID number) before any of the V-Chip restrictions are set up or changed.

Notes: • When the V-chip feature is activated, the PIP features do not function.

. The V-Chip does not work if the input is DTV (HD or SD).

Setting Up Your Personal ID Number (PIN)

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.

The message "Enter PIN" will appear. Enter your 4 digit PIN number.

Note

- The default PIN number of a new TV set is "0-0-0-0".
- 3 The "V-Chip" screen will appear. Press the ▲ or ▼ button to select "Change PIN", then press the ENTER button.





The Change PIN screen will appear.
Chaose any 4 digits for your PIN and enter them.
As soon as the 4 digits are entered, the "Confirm new PIN" screen appears. Re-enter the same 4 digits.
When the Confirm screen disappears, your PIN has been memorized.

Press the MENU button to exit.

Note

If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0 : Power Off. → Mute → 8 → 2 → 4 → Power On.

How to Enable/Disable the V-Chip

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "V-Chip", Ihen press the ENTER button.
The message "Enter PIN" will appear.
Enter your 4 digit PIN number.



The "V-Chip" screen will appear. To enable the V-Chip feature, press the ENTER button so that the "V-Chip Lock" field is "On". (Pressing the ▲ or ▼ button will alternate between "On" and "Off".)

Press the ENTER button.



Press the MENU button to exit.

How to Set up Restrictions using the "TV Parental Guidelines"

First, set up a personal identification number (PIN), and enable the V-Chip. (See previous section.)

Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

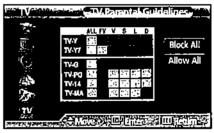


Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.

The message "Enter PIN" will appear. Enter your 4-digit PIN number.

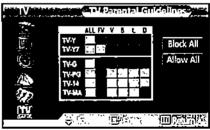


3 The "V-Chip" screen will appear. Press the ▲ or ▼ button to select "TV Parental Guidelines", then press the ENTER button.



The "TV Parental Guidelines" screen will appear. Press the ▲ or ▼ button to select one of the six ages based categories:

TV-Y TV-Y7	Young children Children 7 and over	
TV-G	General audience	
TV-PG	Parental guidance	
TV-14	Viewers 14 and over	
TV-MA	Mature audience	



At this point, one of the TV-Ratings is selected.

Press the ENTER button. Depending on your existing setup, a symbol ① will be selected.

(Blank = Unblocked, ①= Blocked)

While "☐" is selected, press the ENTER button to block or unblock the category.

To select a different TV-Rating, press the ▲ or ▼ button and then repeat the process.



Note 1: The TV-Y, TV-Y7, TV-G, TV-PG, TV-14 and TV-MA have additional options. See the next step to change any of the following sub-ratings:

FV: Fantasy violence

D: Sexually Suggestive Dialog

L: Adult Language

S: Sexual situation

V: Violence

Note 2: The V-Chip will automatically block certain categories that are "more restrictive". For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked [TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-MA]. The sub-ratings (D, L, S, V) work together similarly. (See next section.)

How to set the FV, D, L, S and V sub-ratings.

First, select one of these TV-Ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA (See Step 4, on previous page), and press the ▶ button.

A symbol " 3" will be displayed for each sub-rating.

While "I" is selected, press the ENTER button to go to a sub rating.

Press ENTER to block the sub rating. To select a different TV-Rating, press the ▲ or ▼ button and then repeat the process.

Note: The V-chip will automatically black certain categories that are "More restrictive" For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

Press the MENU button to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPAA codes.)

Note

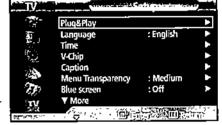
 These categories cansist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else).

The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X, NR

The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.

The message "Enter PIN" will appear. Enter your 4 digit PIN number.

The "V-Chip" screen will appear. Press the ▲ or ▼ bullon to select "MPAA Rating", then press the ENTER bullon.



The "MPAA Rating" screen will appear.

Repeatedly press the ▲ or ▼ button to select a particular MPAA category.

Pressing the ▲ or ▼ button will cycle through the MPAA categories:

G General audience (no restrictions)

PG Parental guidance suggested.

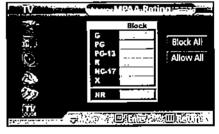
PG-13 PG-13 (Parents strongly cautioned).

R R [Restricted, Children under 17 should be accompanied by an adult].

NC-17 No children under age 17.

X X (Adults only).

NR Not rated.





While a particular category is selected, press the ENTER button to activate it. A selected symbol " \mathfrak{D} " will be displayed.

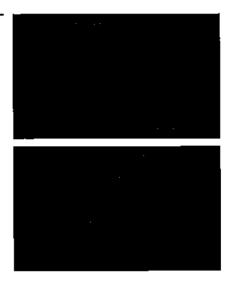
Press the ENTER button to block or unblock the category.

Note: The V-Chip will automatically block any category that is "more restrictive". For example, if you block the "PG-13" category, then "R", "NC-17" and "X" will automatically be blocked also.

How to Reset the TV after the V-Chip Blocks a Channel ("Emergency Escape")

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear:

Enter your PIN number.



To resume normal viewing, tune to a different channel using CH/Page ① or CH/Page ② button. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels. In this case, use the V-Chip function for an "emergency escape":

- Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
- Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.
- Enter your PIN number, and press the ▲ or ▼ button to temporarily disable the V-Chip Lock.

Plasiia Display



Using the CableCARD

This menu works with a CableCARD provided by a local cable service provider.

Prior to accessing this menu, a CableCARD should be connected to the rear panel of the TV.

For detailed connection instructions refer to the "Connecting CableCARD" section of this manual.

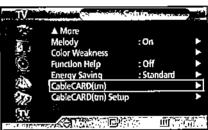
Displaying CableCARD related information

Accessing information on Status, Pairing, Network Setup of the CableCARD provided by the service provider in CableCARD menu.

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "CableCARD(tm)", then press the ENTER button.



Press the EXIT button to exit.



Using the CableCARD Setup Function

Sets up the relevant options for CableCARD.

CableCARD Reset

Resets CableCARD when the channels provided by CableCARD are not available.

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "CableCARD(Im) Setup", Then press the ENTER button.



Press the ENTER button to select "CableCARD"(Im) Resel".



Plasma Display

Channel List Reorganization

Deletes and reorganizes the channel list provided by CableCARD.

Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



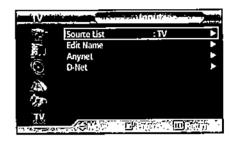
Press the ▲ or ▼ button to select "CableCARD(im) Setup", then press the ENTER button.



3 Press the ENTER button to select "Channel List Reorganization".



Using the D-Net



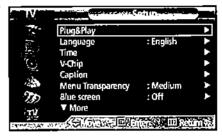
Plasma Display



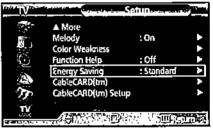
Using the Energy Saving Feature

This feature adjusts the screen brightness automatically depending on the surrounding lighting conditions.

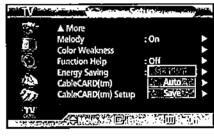
Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select "Energy Saving", then press the ENTER button.



- Press the ▲ or ▼ button to select submenu(Standard, Auto or Save) on want, then press the ENTER button.
 - Standard :
 - Auto :
 - Save :



4

Press the MENU button to exit.



PLASMA DISPLAY PANEL

Appendix ?

Troubleshooting	128
Care and Maintenance	
Specifications	
Dimension	

? Troubleshooting

Before you call a service technician, please scan this list of problems and possible solutions. It may save you time and money.

Problem	Possible Solution		
Poor picture.	Check all wire connections.		
No picture or sound.	Try another channel. Press the SOURCE button. Make sure the TV is plugged in. Check the antenna connections.		
Poor sound quality.	Try another channel. Adjust the volume.		
Your remote control does not operate the TV.	Press the "MODE" button to put your remate control in the "TV" mode.		
The TV won't turn on.	Check if the power plug is connected.		
There is no screen image.	Check to see that both the TV and the source are plugged in and turned on.		
The image is too light or too dark.	Adjust the Brightness or Contrast settings.		
The image is too large or too small.	Adjust the Size settings.		
Digital broadcasting screen problem.	Please check the digital signal strength and input antenna.		



Care and Maintenance

With proper care, your TV will give you many years of service. Please follow these guidelines to get the maximum performance from your TV.

Identifying Problems

- Do not put the TV near extremely hot, cold, humid or dusty places.
- Do not put the TV near appliances that create magnetic fields.
- · Keep the ventilation openings clear.
- Do not place the TV on a rough and slanted surface, such as cloth or paper.

Liquids

· Do not place liquids near or on the TV.

Cabinet

- · Never open the cabinet or touch the parts inside.
- . Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

Temperature

If your TV is suddenly moved from a cold to a warm place, unplug the power cord for at least two
hours so that maisture that may have formed inside the unit can dry completely.

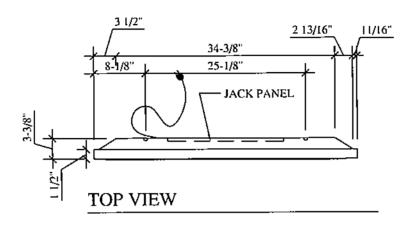
? Specifications

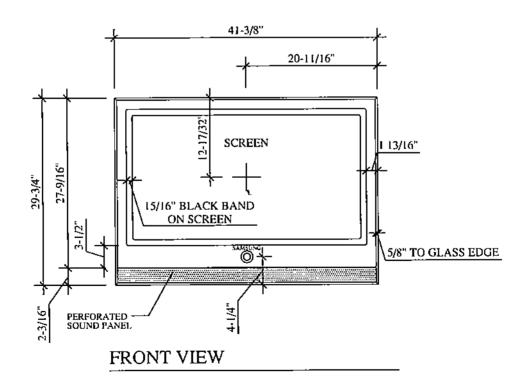
Exterior design and product specifications are subject to change without prior notice to improve the performance of this product.

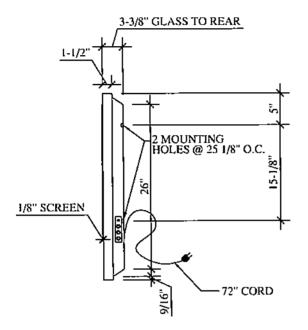
Model		HP-R4272		
Dimensions Display		1425 (W) x 114 (D) x 825.4 (H) mm / 56.10 (W) X 4.49 (D) X 32.50 (H) inches (Without Stor		
		1425 (W) x 490 (D) x 921 (H) mm / 56.10 (W) X 19.29 (D) X 36.26 (H) inches (With Stand)		
Weight Display		59.2 Kg / 130.5 lbs (Without Stand)		
		68 Kg / 149.9 lbs (With Stand)		
Vollage		AC 100 ~ 240 V, 60 Hz		
Power Consumption		530 W		
Number of Pixels		1366 (H) × 768 (V)		
Screen Size	· · -	141 Cm / 55 inches		
ANTENNA input		VHF, UHF (75Ω unbalanced)		
VIDEO input		AVI		
		AV2 (SIDE)		
		S-VIDEO1		
		S-VIDEO2 (SIDE)		
		COMPONENT1 480i/480p/720p/1080i		
		COMPONENT2-480i/480p/720p/1080i		
		PC		
		HDMI 1 (DVI Compatible)		
		HDMI 2 (DVI Compatible)		
AUDIO input		AV1		
		AV2 (SIDE)		
		S-VIDEO1		
		S-VIDEO2 (SIDE)		
		COMPONENT1-480i/480p/720p/1080i		
		COMPONENT2-480i/480p/720p/1080i		
		PC		
		DVI		
Monitor Output		AUDIO (L/R)		
		VIDEO		
Audio Outpu	1	SUB WOOFER		
'		OPTICAL		
		COAXIAL		

Plesina Display

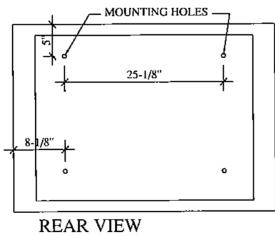
? Dimension







SIDE VIEW



NOTE: All drawings not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to dimensions on each unit prior to performing any carpentry. Not responsible for typographical or printed errors.

② 2004 Samsung Electronics America, Inc.

Plasma Display

? Memo



1-800-SAMSUNG (1-800-726-7864)

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Samsung Electronics Canada Inc. Samsung Customer Care 7037 Financial Drive Mississauga, Ontario L5N 6R3 www.samsung.ca

Regulatory and Safety Compliance Guide



(Please read the approproate section that corresponds to the marking on your Samsung product before attempting to install the product.)



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



This sysmbol indicated high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alreits you that important literature concerning operation and maintenance has been included with this product.

- The stots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
 - Do not cover the slots and openings with a cloth or other materials.
 - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
 - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilations is provided.
- Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
- po not place the sources of heat on this apparatus, such as a candle, ash tray, incense or other similar material.
- Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water(near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this appratus accidentally gets wet, unplug it and contact an authorized dealer immediately.
 You can clean this apparatus with damp cloth when necessary, but be sure to unplug the apparatus first.
- Do not expose this apparatus set to extreme temperature conditions or to extreme humidity conditions.
- This appratus use batteries. In your community there might be regulations that require you to dispose these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- To cut off the power source, unplug this apparatus from the wall outlet.
- Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adapter outlet, make sure the voltage designation of the DC adapter corresponds the the local electrical supply.
- were insert anything metallic into this appratus openings. Doing so many create the danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus's case.
- Be sure to hold the plug, not the cord, when disconnecting this apparatus from an electric socket.
- Locate this apparatus near an easily acessible AC outlet.
- (If this appratus does not operate normally in particular, if there are any unusual sounds or smells coming from it unplug it immediately and contact an authorized dealer or service center.
- Unplug this apparatus from the AC outlet before any service.

.

Regulatory Compliance Statements

Your Samsung product is marked to indicate its compliance class:

- Federal Communications Commission (FCC) USA
- Industry Canada Equipment Standard for Digital Equipment (ICES-003) Canada
- Voluntary Control Council for Interference (VCCI) Japan
- Bureau of Standards Metrology and Inspection (BSMI) Taiwan
- Ministry of Information and Communication (MIC) Republic of Korea
- Italian Post Ministry (Homologation) Italy

FCC Information

FCC Class A Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Class B Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no

guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -- 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.

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult with your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office. Washington, DC 20402, Stock Number 004-000-00345-4.

The party responsible for product compliance: SAMSUNG ELECTRONICS CO., LTD. America QA Lab of Samsung 3351 Michelson Drive Suite #290, Irvine, CA92612 USA

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product. Provided with this monitor 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.

This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules.(TV broadcast receivers with picture screens 13 inches or larger in diameter models only)

ICES-003 Class A Notice - Avis NMB-003, Classe A

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

ICES-003 Class B Notice - Avis NMB-003, Classe B

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

VCCI Class A Notice

この裝置は `情報處理裝置等電波障害自主規制協議會(VCCI)の基準に基づくクテスA情報技術 装置です °この裝置を家庭環境で使用すると電波妨害を引き起こすことがあります °この場合 には使用者が適切な對策を講ずるよう要求されることがあります °

VCCI Class B Notice

この装置は `憐報處理裝置等電波障害自主規制協議會(VCCI)の基準に基づくクテスB情報技術 裝置です °この裝置は `家庭環境で使用することを目的としていますが `この 裝置がラジオ やテレビジョン受信機に近接して使用されると `受信障害を引き起こすことがあります ° 取級説明書に従って正しい取り扱いをして下さい °

BSMI Class A Notice

The following statement is applicable to products shipped to Taiwan and marked as Class A on the product compliance label.

警告使用者:

這是甲類資訊類產品, 在居住環境中使用時, 可能會造成射頻干擾, 在這種情況下, 使用者會被要求採取某些適當的對策 °

European Notice(Europe Only)

Products with the CE marking comply with the EMC Directive(89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive(73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- -EN55022: Radio Frequency Interference
- -EN55024: Electromagnetic Immunity of Information Technology Equipment
- -EN61000-3-2: Power Line Harmonics
- -EN61000-3-3: Voltage Fluctuations
- -EN55013: Radio disturbance characteristics of broadcast receivers and associated equipments
- -EN55020: Electromagnetic immunity of broadcast receivers and associated equipments

European Class A Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. (Class A product only)

정보통신기기 A급 기기(MIC Class A Notice)

이 기기는 업무용으로 전자파적합등록을 한 기기이오나 판매자 또는 사용자는 이 정을 주의하시기 바라며 만약 잘못 판매 또는 구입하였을 때에는 가정용으로 교환하시기 바랍니다.

정보통신기기 B급 기기(MIC Class B Notice)

이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Italian Homologation Notice

Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548 ed in particolare a quanto specificato nell Art.2, comma 1. Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548 Art.2, comma 1 ed al D.M.26.03.92 Art.1

- -. For products produced in countries except European Community

 Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548

 ed in particolare a quanto specificato nell Art.2, comma 1.
- For products produced in European Community
 Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548
 Art.2, comma 1 ed al D.M.26.03.92 Art.1

Important Safety Instructions(TV Only)

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELEC TRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.



Warning: To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

(EPA applied model only)

As an ENERGY STAR Partner. Samsung has determined that this product or product models meets the ENERGY STAR guidelines for energy efficiency.

■ Optional ■

Do not place the apparatus in a rack or bookcase. Ensure that there is adequate ventilation and that you've followed that manufacturer's instructions for mounting. (For PDP or Projection TV apparatus)

If you place the apparatus in a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions.

Wiring the Mains Power Supply Plug(UK Only)

IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS 11362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer. If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative to cut off the plug, remove the fuse and then safety dispose of the plug. Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL (), OR COLOURED GREEN OR GREEN AND YELLOW.

Russia Only - PCT Notice



MPR II Compliance

TCO'95-Ecological requirements for personal computers (TCO'95 applied model only) TCO'99-Ecological requirements for personal computers (TCO'99 applied model only) TCO'03-Ecological requirements for personal computers (TCO'03 applied model only) TCO'03 Recycling Information (TCO'03 applied model only) Medical Requirement (Medical applied model only)

MPR il Compliance

This monitor complies with SWEDAC(MPR II) recommendations for reduced electric and magnetic fields.

TCO'95-Ecological regulrements for personal computers (TCO'95 applied model only)



AB general regulrements

AB2 Written Eco-document acompanying the products

Congratulations! You have just purchased a TCO'95 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and to the further development of environmentally-adapted electronic products.

Why do we have environmentally-labelled monitors?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem as far as monitors and other electronic equipment are concerned is that environmentally harmful substances are used both in the products and during their manufacture. Since it has not been possible so far for the majority of electronic equipment to be recycled in a satisfactory way, most of these potentially damaging substances sooner or later enter Nature.

There are also other characteristics of a monitor, such as energy consumption levels, that are important from both the working and natural environment viewpoints. Since all types of conventional electricity generation have a negative effect on the environment (acidic and climate-influencing emissions, radioactive waste, etc.) it is vital to conserve energy. Electronic equipment in offices consumes an enormous amount of energy, since it is often routinely left running continuously.

What does labelling involve?

This product meets the requirements for the TCO'95 scheme, which provides for international environmental labelling of monitors. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industrial and Technical Development in Sweden).

The requirements cover a wide range of issues: environment, ergonomics, usability, emission of electrical and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands concern among other things restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons), and chlorinated solvents. The product must be prepared for recycling and the manufacturer is obliged to have an environmental plan, which must be adhered to in each country where the company conducts its operations policy. The energy requirements include a demand that the monitor after a certain period of inactivity shall reduce its power consumption to a lower level, in one or more stages. The length of time to reactivate the monitor shall be reasonable for the user.

Labelled products must meet strict environmental demands, for example in respect of the reduction of electric and magnetic fields, along with physical and visual ergonomics and good usability.

TCO Development Unit 1996-11-29

On the page this folder you will find a brief summary of the environmental requirements met by this product.

The complete environmental criteria document may be ordered from:

TCO Development Unit S-11494 Stockholm

Sweden

Fax: +46 8 782 92 07

E-mail (Internet): development@tco.se

Current info ion regarding TCO'95-approved and labelled products may also

be obtained via the Internet, using the address:

http://www.tco-info.com/

TCO'95 is a co-operative project between(3 logos)

Environmental Requirements

Brominated flame retardants are present in printed circuit boards, cables, wires, casings and housings. In turn, they delay the spread of fire. Up to thirty percent of the plastic in a computer casing can consist of flame retardant substances. These are related to another group of environmental toxins, PCBs, which are suspected to give rise to similar harm, including reproductive damage in fish eating birds and mammals, due to the bioaccumulative processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

TCO'95 demand requires that plastic components weighing more than 25 grams must not contain organically bound chlorine and bromine.

Lead

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning.

TCO'95 requirement Permits the inclusion of lead since no replacement has yet been developed.

Cadmium

Cadmium is present in rechargeable batteries and in the colour generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses.

TCO'95 re्विक्षें ement states that batteries may not contain more than 25 ppm (parts per million) of cadmium. The colour-generating layers of display screens must not contain any cadmium.

Mercury

Mercury is sometimes found in batteries, relays and switches. Mercury damages the nervous system and is toxic in high doses.

TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of mercury. It also demands that no mercury is present in any of the electrical or electronics

components concerned with the display unit.

CFCs (freons)

CFCs (freons) are sometimes used for washing printed circuit boards and in the manufacturing of expanded foam for packaging. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on Earth of ultraviolet light with consequent increased risks of skin cancer (mailgnant melanoma).

The relevant TCO'95 requirement: Neither CFCs nor HCFCs may be used during the manufacturing of the product or its packaging.

TCO'99-Ecological requirements for personal computers (TCO'99 applied model only)



Congratulations!

You have just purchased a TCO'99 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

This product meets the requirements for the TCO'99 scheme which provides for an international environmental and quality labelling labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO(The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen(The Swedish Society for Nature Conservation), Statens Energimyndighet(The Swedish National Energy Administration) and SEMKO AB.

The requirements cover a wide range of issuse: environment, ergonomics, usability, reduction of electric and magnetic fields, energy consumption and electrical safety.

Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labelling involve?

The environmental demands has been developed by Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation). These demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs(freons)and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development

SE-114 94 Slockholm, Sweden

Fax: +46 8 782 92 07

Email (Internet): development@tco.se

Current information regarding TCO'99 approved and labelled products may also be obtained via the Internet, using the address: http://www.tco-info.com/

Environmental requirements

Flame retardants

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride, and those flame retardants are chemically related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the blo-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

The relevant TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmlum**

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit. There is however one exception. Mercury is, for the time being, permitted in the back light system of flat panel monitors as today there is no commercially available alternative. TCO aims on removing this exception when a Mercury free alternative is available.

CFCs (freens)

The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing Increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO'99 requirement permits the inclusion of lead since no replacement has yet been developed.

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TCO'03-Écological requirements for personal computers (TCO'03 applied model only)



Congratulations

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements:

Ergonomics

Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

Energy

Energy-saving mode after a certain time – beneficial both for the user and the environment Electrical safety

Emissions

- Electromagnetic fields
- Noise emissions

Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 000
- Restrictions on
- o chlorinated and brominated flame retardants and polymers o heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in cooperation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, Please visit www.tcodevelopment.com

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TCO'03 Recycling information (TCO'03 applied model only)

[European Residents Only]

For recycling information for TCO'03 certified monitors, for the residents in the following countries, please contact the company corresponding to your region of residence. For those who reside in other countries, please contact a nearest local Samsung deater for recycling information for the products to be treated in environmentally acceptable way.

	[U.S.A. Residents Only]	[European Residents Only]			
	U.S.A.	SWEDEN	NORWAY	GERMANY	
COMPANY	Solid Waste Transfer & Recycling Inc	ELKRETSEN	Elektronikkretur AS	vfw AG	
ADDRESS	442 Frelinghuysen Ave Newark, NJ 07114	ELKRETSEN Box 1357, 111 83 Stockholm Barnhusgatan 3, 4 tr.	6454 Etterstad 0602 Oslo Fyrstikkalin 3B	Max Plank Strasse 42 50858 Collogne Germany	
TELEPHONE	973-565-0181	08-545 212 90	23 06 07 40	49 0 2234 9587 - 0	
FAX	Fax; 973-565-9485	0B-545 212 99	23 06 07 41	1	
E- MAIL	none	info@el-kretsen.se	adm@clektronikkrctur.no	vfw.info@vfw-ag.de	
HOME PAGE	http://www.bcua.org/Solid Waste_Disposal.htm	http://www.el- kretsen.se/	http://www.elretur.no/		

Medical Requirement (Medical applied model only)



Classifications:

In accordance with UL 2601-1/IEC 60601-1, the product is essified as Continuous duty Class I equipment, which is not protected against ingress of liquids. The product is not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.

EMC

This equipment has been tested and found to comply with the limits for medical devices to the IEC 601-1-2:1994. These limits are designed to provide reasonable protection against harmful interference in a typical medical 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 other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, 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 device.
- . Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device (s) are connected.
- Consult the manufacturer or field service technician for help.

Video In / RS 232 / Video Out

Accessories equipment connected to the analog and digital interfaces must be certified to the respective IEC standards (i.e. IEC 950 for data processing equipment and IEC 601-1 for medical equipment.) Furthermore all configurations shall comply with the system standard IEC 601-1-1. Everybody who connects additional equipment to the signal input part or signal output part configures a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC 601-1-1. If in doubt, consult the technical services department or your local representative.

Transport and Storage Limitations: Temperature Range of -40°C to +70°C Relative Humidity of 10 -95%, non-condensing

Bio-accumulative is defined as substances which accumulate within living organisms.

^{**} Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.