

Your Television's Directions for Use

55PL9224 55PL9524 62PL9524

Highlights

- Liquid-crystal-on-silicon (LCOS) High-definition Imaging
- High-resolution Display—1280 x 720 pixels

Features

- Digital Natural Motion[™]
- Active Control[™]—analyzes and adjusts incoming signal
- Two-tuner, Double-window PIP (Picture-in-Picture)
- Dolby[®] Virtual Surround, 30-watt RMS
- 3D Y/C Comb Filter
- HD Component and DVI Input
- Side AV Convenience Jacks
- Matching stand and swivel available

















Return your Product Registration Card today to get the very most from your purchase.

Registering your model with PHILIPS makes you eligible for all of the valuable benefits listed below, so don't miss out. Complete and return your Product Registration Card at once to ensure:

*Proof of Purchase

Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.

*Product Safety Notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

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Congratulations on your purchase, and welcome to the "family!"

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

Most importantly, you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome - and thanks for investing in a PHILIPS product.

P.S. To get the most from your PHILIPS purchase, be sure to complete and return your Product Registration Card at once.



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _

Serial No. __

Visit our World Wide Web Site at http://www.philips.com

IMPORTANT SAFETY INSTRUCTIONS Read before operating equipment

- 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 a dry cloth.
- 7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **9.** Do not defeat the safety purpose of the polarized or groundingtype plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When 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 a 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 apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- **15.** This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
- **16. Damage Requiring Service** The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or

- **B.** Objects have fallen, or liquid has been spilled into the appliance; or
- C. The appliance has been exposed to rain; or
- **D.** The appliance does not appear to operate normally or exhibits a marked change in performance; or
- E. The appliance has been dropped, or the enclosure damaged.
- **17. Tilt/Stability** All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.

• Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.

• Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.

- **18.** Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- **19. Power Lines** An outdoor antenna should be located away from power lines.
- **20. Outdoor Antenna Grounding** If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
- **21. Object and Liquid Entry** Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

a) Warning: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

- 22. Battery Usage CAUTION To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
 Install all batteries correctly, with + and aligned as marked on the unit.
 - Do not mix batteries (old and new or carbon and alkaline, etc.).
 - Remove batteries when the unit is not used for a long time.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



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Compact design with low weight

The unique Philips single-panel liquid-crystal-on-silicon (LCOS) technology allows for a large screen TV with a very low depth and low weight. This TV will find a place in any living room without occupying a large area, and it can be easily handled by two persons.

Philips Single-panel LCOS Imaging System

The Philips single-panel LCOS technology produces unmatched high-resolution and flicker-free video with superb brightness. This technology enables a large-screen-size TV with low weight and shallow depth without any concerns for convergence or image retention.

Digital Natural Motion[™]

Digital Natural Motion[™] offers razor-sharp reproduction of movement and motion. Its unique and highly advanced processing calculates motion trajectories of moving picture elements. It corrects jerky movement from both studio programs or movie material.

ActiveControl[™] Plus

Active ControlTM Plus automatically analyzes the incoming signals from the Tuner, AV1, AV2, and Side video inputs 50 times per second and adjusts key picture settings. In addition to measuring picture noise, this feature uses an ambient light sensor to adjust the picture settings according to viewing conditions in the room.

Dolby* Virtual Surround

Dolby processing circuitry provides an enhanced cinema surround sound effect without the need for rear speakers.

Double-window, Two-Tuner PIP

Your TV features double-window, two-tuner PIP with second tuner double window. The TV also has single PIP (free positioning), as well as threefold and sixfold side PIPs. In addition, you get photo finish, freeze Main, and freeze PIP. Replay lets you play back the previous few seconds in a PIP screen-if you missed the action, replay it as much as you want.

Audio/Video (A/V) Jack Panel

The A/V jack panel allows direct connections with VCRs, DVDs, high-definition receivers, or other devices, providing quality TV picture and sound playback.

Audio Volume Leveler (AVL) Control

AVL keeps the TV sound at an even level. Peaks and valleys that occur at commercial breaks or during program changes are reduced, providing a more consistent, comfortable sound.

V-Chip (with Channel Lock)

The V-Chip feature (with Channel Lock) will allow you to block the viewing of channels or programs with certain ratings, and thus prevent your children from watching inappropriate materials.

Autoprogramming

The TV's Autoprogram feature searches (when activated) for all available channels from regular antenna or cable signals and stores active broadcast stations in the TV's memory.

Surf Button

Philips Auto Surf[™] allows you to easily switch between only the channels that are of interest to you. Surf allows two-channel surfing or nine-channel surfing.

Items Included with This TV

As you unpack your TV, please note the included items:

- Quick Use and Setup Guide to help you set up your new TV.
- Directions for Use manual—contains information on safety, set maintenance, Factory Service Center locations, and product warranty
- · Warranty Registration Card
- Remote Control (with supplied batteries).

Please take a few minutes to complete your registration card. The serial number for the TV is on the rear of the set. For your future reference, please write down the serial and model number of this television in the space provided on the warranty page at the back of this manual. (In the unlikely event you should need to place a service call, these numbers will be needed.)

End-of-Life Disposal

Your new television and its packing contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts that need to be properly disposed of. Your product also uses batteries that should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.

When you replace your existing equipment, please find out about the local regulations regarding disposal of your old television, batteries, and packing materials.



As an Energy Star® Partner, Philips Consumer Electronics has determined this product meets the Energy Star® guidelines for energy efficiency. Energy Star® is a U.S. registered mark. Using products with the Energy Star® label can save energy. Saving energy reduces air pollution and lowers utility bills.

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Ways TV Signals Can Come to Your Home



High-definition television offers a picture with unprecedented crispness and clarity. The TV broadcast industry is moving toward high definition as the signal standard. Currently, the number of programs being broadcast in high definition is limited, but this is changing. To view high-definition programs on your TV, you will need to connect a satellite receiver, cable box, or set-top box that can decode HD signals.

Resolution information

Image resolutions are commonly referred to by a number followed by a letter: 480i, 480p, 720p and 1080i. The number in each format refers to the number of lines of resolution, so for example both 480i and 480p offer 480 lines of resolution. The "i" or "p" refers to whether the signal is displayed using respectively interlaced or progressive scan. Interlaced scan breaks each frame of video into 2 fields, one made up of even lines and one made up of odd lines. The image is reproduced by drawing all odd lines first (1,3,5,...479) than all the even ones (2,4,6,...,480). Progressive scan, on the other hand reproduces an image by drawing all lines in succession 1,2,3,4,...480).



Descriptions of Jacks, Cables, and Connectors

This page contains descriptions and illustrations of jacks, cables, and connectors you might use in making connections. The cables and connectors are not supplied with your TV, but you can purchase at your electronics dealer. Or you can order them by calling our Customer Care Center at 1-800-531-0039.

DVI-D Input Jack Cable used: DVI-D

This jack works only with DVI TMDS (Transition Minimized Differential Signaling) digital video. Allows encrypted transmissions of uncompressed digital content. The DVI-D jack used in this product is not for computer connections.



Component Video Jacks

Cables Used: Component

Video with RCA-type

Phono Plugs

S-VIDEO Jack

Cable Used: S-Video

() s-video

Component Video Input Jacks Cables used: component video with RCA-type phono plugs

Allow you to connect accessory devices such as DVD players. Separating the video into three signals, these inputs provide excellent quality. Be sure to connect the left and right audio cables, because the Y, Pb, Pr jacks receive only the picture signal.

NOTE: See the "Helpful Hint" on page 13 for more information.

S-Video Input Jacks Cable used: S-Video

Provide a higher quality picture than the Video (composite) jacks because the color part of the picture is separated from the black and white portion. Be sure to connect the left and right audio cables, because the S-Video jacks receive only the picture signal.

RGB+HV Input Jack Cable used: HD DB15

Allows you to connect equipment with RGB or VGA output.



VGA/HD15 Jack

Video (called "CVBS" or "composite") Input Jacks Cable used:Video with RCA-type phono plugs

Provide better picture performance than the antenna RF input. Be sure to connect the audio cables, because the video jacks receive only the picture signal.

Your TV also has a monitor output ("MON OUT") video ("V") jack. Use a video cable with RCA-type phone plugs to make connections.

Tuner (RF) Input Jack

Cables used: RF coaxial cable (75 Ω)

Allows you to connect an antenna, cable TV, or components having RF outputs to the antenna input on the TV. RF coaxial cables are available in push-on or screw-on type.

Antenna RF Jack Cable Used: RF Coaxial (75Ω)



Push-on Type Cable Or

Screw-on Type Cable

Signal Splitter

Allows you to route an antenna or cable TV signal to two inputs.

Signal Splitter Cables Used: RF Coaxial (75Ω)



300- to 75-ohm Twin-lead Adapter

Accepts twin-lead wires from an antenna and allows connection to the antenna input on the TV. If your antenna is already equipped with an RF coaxial cable you will not need this adapter.



300- to 75-ohm



Audio Jacks

Cables Used:

Audio with RCA-

type Phono Plugs

Audio Input Jacks Cables used:Audio with RCA-type phono plugs

Provide sound for the video inputs. If your accessory device has only one output for audio, connect it to the left (color coded white) audio jack on the TV.

Your TV also has monitor output ("MON OUT") audio ("L" and "R") jacks and a subwoofer output ("SUB OUT") jack. Use an audio cable with RCAtype phone plugs to make connections.

3.5mm Stereo Mini Phone Plug to RCA Jack Adapter

Allows a connection between the 3.5mm stereo audio out jack on a computer and the left and right audio inputs on the television. Connect A/V cables with RCA-type phono plugs to the adapter, then to the TV.



3.5mm Stereo Mini Phone Plug to RCA Jack Adapter









Panel Jack Compatibility Information

AV 1 Input Jacks

Signals accepted: NTSC (480i). Inputs available: YPbPr, S-Video (Y/C), and CVBS, plus audio left and right.

Use only one of the video signal inputs at a time. If you should forget and have more than one type of signal connected, the set will automatically show the one of better quality: CVBS—good, S-Video—better, and YPbPr—best. For sound, connections must be made to the AV1 audio inputs.

MON OUT Output Jacks

Provide video and audio output signals from all TV when those sources are being viewed on the main screen. Output from the audio L/R jacks is at a fixed volume level; changing the TV volume does not affect them. Adjust the volume at your external home cinema system.

2

AV 2 Input Jacks

Signals accepted: NTSC (480i). Inputs available: S-Video (Y/C) and CVBS, plus audio left and right.

Use only one of the video signal inputs at a time. If you should forget and have both types of signal connected, the set will automatically show the S-Video, since it is of better quality than CVBS. For sound, connections must be made to the AV2 audio inputs.

SUB OUT Output Jack

Provides a signal to an external powered subwoofer.

AV3 Input Jacks

Signals accepted: NTSC (480i), 480p, 720p, and 1080i, plus audio left and right. Inputs available: YPbPr, plus audio. For sound, connections must be made to the AV3 audio inputs.

AV4 Input Jacks

Signals accepted: NTSC (480i), 480p, 720p, and 1080i, plus audio left and right. Inputs available: YPbPr, plus audio. For sound, connections must be made to the AV4 audio inputs.

TUNER Input Jack

Signals accepted: RF modulated NTSC. Inputs available: 75Ω RF coaxial.

AV5 Input Connectors

Signals accepted: NTSC (480i), 480p, 720p, 1080i, and VGA plus audio left and right. Inputs available: RGB+HV. For sound, connections must be made to the AV5 audio inputs.

AV6 Input Connectors

Signals accepted: Digital only (TMDS [Transition Minimized Differential Signaling] encoded, uncompressed); DVI 480i, 480p, 720p, and 1080i, plus audio left and right.

Inputs available: DVI TMDS, plus audio. For sound, connections must be made to the AV6 audio inputs.

Intended use of the input: digital set-top boxes and inputs from other digital video devices. **NOTE: This DVI jack is not for computer con**

NOTE: This DVI jack is not for computer co nections. VGA cannot be connected.



Definitions:

NTSC-National Television System Committee.

CVBS—labeled "V," provides a small step up in quality from the Tuner (RF) input. Called Composite Video.

S-Video (Y/C)—provides better picture quality than CVBS. Separates the signal into color and brightness.

 \bigcirc

YPbPr—provides the best quality video signal. Called Component Video Input, the signal is split into three parts, two color and one brightness.

SIDE JACK PANEL

Signals accepted: NTSC (480i). Inputs available: S-Video (Y/C) and CVBS, plus audio left and right.

Output available: Headphone. Only one of the inputs can be used at a time. Select the Side source, and the TV detects the input to which you have connected. Connections must be made to the audio inputs for sound.

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Pre-connection Recommendations



Before connecting accessory devices—VCR, DVD player, or HD satellite receiver, for example—please keep the following in mind:

- Place the TV on a flat surface. An unlevel surface may adversely affect picture performance.
- Do not place the TV on shag carpet or any surface that will block the ventilation openings at the bottom of the set. Blockage will cause the TV to overheat and shut down.
- Allow 4 to 6 inches of space behind the TV for ventilation.
- An optional swivel and an optional stand are available for use with your TV. See your electronics dealer.
- Test various locations in the room to find the optimal spot to locate the set for best viewing.
- Do not place the TV in direct sunlight or near a heating appliance.
- Do not expose the TV to rain or moisture.
- To prevent any unsafe situations, do not place objects on top of the TV.

Providing Protection Against Power Surges

- Connect all accessory devices before you plug any of their power cords into the wall outlet or power strip. NEVER plug your TV into an outlet that is controlled by a wall switch.
- Turn off the TV and/or accessory devices before you connect or disconnect any cables.
- Ensure that all antennas and cables are properly grounded. See page 3, "Important Safety Instructions."

Protecting Accessory Devices from Overheating

- Arrange accessory devices so that air can circulate freely around them.
- Don't stack the accessory devices. Arrange them to allow for good ventilation. The optional Philips stand provides enough room for two accessory devices, side by side.
- If you connect an audio receiver or amplifier, place it on the top shelf so the heated air from it will not flow around other components.

Connecting Cables

Be sure to insert each cable firmly into the correct jack.

Using the Connection Examples in This Manual

The accessory device jack panels shown are for example purpose only. The jack panels on your accessory devices may look different. Also, note that connections can be made in various ways. The examples are presented only as guides.



Do not place the TV on a surface that will block the air filters located underneath the set.



Connecting a VCR

- Connect the incoming antenna or cable TV signal to the ANT IN jack on the back of the VCR.
- Using a coaxial cable, connect to the OUT jack on the back of the VCR and to the TUNER jack on the back of the TV.
- Using A/V cables, connect from the AUDIO and VIDEO OUT jacks on the back of the VCR to the corresponding AV2 audio (L and R) and video (V) jacks on the back of the TV.
 - Press the AV+ button on the remote control to access the Source list.
 - Press the Cursor Up or Down button to select the AV2 input source.
- Press the OK button to confirm your choice. The set is now switched to the AV2 input source for the viewing of programs from the VCR.
 - NOTE: Since you've connected the cable TV signal directly to the TV's tuner (step 2 above), you can watch the unscrambled programs by simply tuning to the desired channel. To store channels in the TV's memory, you must use Autoprogram, which you can access through "Install" in the TV's on-screen menu. See the Autoprogram section in the Quick Use and Setup Guide that came with the TV. If you use Autoprogram, you can select channels by pressing the CH + or – buttons on the TV remote control (in TV mode). Otherwise, you must press the digit (number) buttons to tune directly to the channel you desire.

HELPFUL HINT

Color Coding Used on Jacks and Plugs to simplify connections: Yellow: Video (Composite Video) Red: Right Audio White: Left Audio.



Connecting a VCR and Cable Box



NOTE: A cable box with AUDIO OUT jacks such as the one used in the example on this page might pass stereo sound to the TV. Check with your cable TV company. The RF jack output jack on a cable box (commonly labeled "OUT TO TV," "OUTPUT," or "OUT") will not pass stereo sound to your TV.

Connect the incoming cable TV signal to a two-way signal splitter. The signal splitter enables you to route the cable signal to the TV without using the OUT TO TV jack on the cable box, which will not pass stereo sound to the TV.

2 Using a coaxial cable, connect to one of the connectors on the signal splitter and to the TUNER jack on the back of the TV.

Using a coaxial cable, connect to the other connector on the signal splitter and to the CABLE IN jack on the back of the cable box.

Using Audio/Video cables, connect to the AUDIO and VIDEO OUT jacks on the back of the cable box and to the corresponding AUDIO and VIDEO IN jacks on the back of the VCR.

Using Audio/Video cables, connect to the AUDIO and VIDEO OUT jacks on the back of the VCR and to the corresponding AV2 audio (L and R) and video (V) input jacks on the back of the TV.

Press the AV+ button on the remote control to access the Source list.

Press the Cursor Up or Down button to select the AV2 input source.

Press the OK button to confirm your choice. The set is now switched to the AV2 input source for the viewing of programs from the cable box or the VCR.

HELPFUL HINT

Color Coding Used on Jacks and Plugs to simplify connections: Yellow: Video (Composite Video) Red: Right Audio White: Left Audio.



the unscrambled programs by simply tuning to the desired channel. To store channels in the TV's memory, you must use Autoprogram, which you can access through "Install" in the TV's on-screen menu. See the Autoprogram section in the *Quick Use and Setup Guide* that came with the TV. If you use Autoprogram, you can select channels by pressing the CH + or – buttons on the TV remote control (in TV mode). Otherwise, you must press the digit (number) buttons to tune directly to the channel you desire.

6

(4) (5) (6)

0 0 0

Connecting an S-Video Device

- Using S-Vio
 - Using an S-Video cable, connect to the S-Video output on the back of the S-Video device and to the AV2 S-VIDEO input.
 - Using Stereo Audio cables, connect to the AUDIO OUT jacks on the back of the

S-Video device and to the corresponding AV2 audio inputs (L and R).

Press the AV+ button on the remote control to access the Source list.

Press the Cursor Up or Down button to select the AV2 input source.

Press the OK button to confirm your
 choice. The set is now switched to the AV2 input source for the viewing of programs from the S-Video device.

HELPFUL HINT

To simplify making connections, the connectors on audio and video cables are often color coded to match the colors on TV jacks, red for right, and white for left.





Connecting a Standard DVD Player

- Using Audio/Video cables, connect to the YPbPr jacks on the back of the standard DVD player and to the AV1 YPbPr jacks on the back of the TV.
- Using Stereo Audio cables, connect to the AUDIO OUT jacks on the back of the DVD player and to the corresponding AV1 audio (L and R) jacks on the back of the TV.

Press the AV+ button on the remote control to access the Source list.

Press the Cursor Up or Down button to select the AV1 input source.

Press the OK button to confirm your choice. The set is now switched to the AV1 input source for the viewing of programs from the DVD player.

HELPFUL HINTS

- If you do not know whether your DVD player is standard or progressive scan, you can connect it to either AV3 or AV4, and the TV will automatically determine the type of output.
- To simplify making connections, the connectors on audio and video cables are often color coded to match the colors on TV jacks: green for Y, blue for Pb, and red for Pr; also red for right audio, and white for left audio.
- The names for the component video jacks may differ depending on the DVD player or accessory digital source equipment used. For example, besides YPbPr, you may see R-Y/B-Y/Y; or CrCbY. Although abbreviations and terms may vary, the letters *B* and *R* stand for the blue and red color component signal connectors, respectively, and *Y* indicates the luminance signal. If necessary, refer to the user manual for your DVD or digital accessory for more information.
- If you experience difficulties receiving sound with a DVD disc, check the sound settings through the DVD disc's menu.



Connecting a Progressive-scan DVD Player

Using Audio/Video cables, connect to the YPbPr jacks on the back of the progressive-scan DVD player and to the AV3 or AV4 YPbPr jacks on the back of the TV.

Using Stereo Audio cables, connect to the AUDIO OUT jacks on the back of the DVD player and to the corresponding AV3 or AV4 audio (L and R) jacks on the back of the TV.

If your DVD player has an I/P switch on the back, be sure it is set to the "P" position for progressive-scan mode. NOTE: Some DVD players have an I/P switch on the back, while others may allow the user to change the mode by pressing a button on the DVD player's remote control or by using the DVD player's on-screen menu. Also, some DVD players have dedicated progressive-scan output jacks that are labeled as such and require no switching by the user. See the user manual for your DVD player for more information on placing the player in progressivescan mode.

Press the AV+ button on the remote control to access the Source list.

Press the Cursor Up or Down button to select the AV3 input source.

Press the OK button to confirm your choice. The set is now switched to the AV3 input source for the viewing of programs from the DVD player.

HELPFUL HINT

Inputs AV3–AV6 allow horizontal and vertical picture panning using the Cursor Left, Right, Up, and Down buttons. The Side input allows vertical picture panning; left and right panning with the Side input is possible when the input has been labeled "Game." See pages 18 and 19 for details on side panel connections and source labeling.



Connecting an HD Satellite Receiver to YPbPr

- Using Component Video cables, connect to the YPbPr jacks on the back of the HD satellite receiver and to the corresponding AV3 or AV4 YPbPr jacks on the back of the TV.
- Using Stereo Audio cables, connect to the AUDIO OUT jacks on the back of the HD satellite receiver and to the corresponding AV3 or AV4 audio (L and R) jacks on the back of the TV.
- Refer to the user manual for the HD satellite receiver to complete the connections to the HD satellite receiver and to use the HD satellite receiver's on-screen setup menus.
- After completing HD satellite receiver connections and setup through the onscreen setup menus, press the AV+ button on the TV remote to access the Source list.
- Press the Cursor Up or Down button to select the AV4 input source.
- Press the OK button to confirm your choice. The set is now switched to the AV4 input source for the viewing of programs from the HD satellite receiver.

HELPFUL HINTS

- To simplify making connections, the connectors on audio and video cables are often color coded to match the colors on TV jacks: green for Y, blue for Pb, and red for Pr; also red for right audio, and white for left audio.
- The names for the component video jacks may differ depending on the DVD player or accessory digital source equipment used. For example, besides YPbPr, you may see R-Y/B-Y/Y; or CrCbY. Although abbreviations and terms may vary, the letters *B* and *R* stand for the blue and red color component signal connectors, respectively, and *Y* indicates the luminance signal. If necessary, refer to the user manual for your DVD or digital accessory for more information.
- Inputs AV3–AV6 allow horizontal and vertical picture panning using the Cursor Left, Right, Up, and Down buttons. The Side input allows vertical picture panning; left and right panning with the Side input is possible when the input has been labeled "Game." See pages 18 and 19 for details on side panel connections and source labeling.



Connecting an HD Satellite Receiver to DVI

Using a DVI cable, connect to the DVI Back of TV jack on the back of the HD satellite receiver and to the corresponding AV6 DVI jack on the back of the TV. **(**) Using Stereo Audio cables, connect to the AUDIO OUT jacks on the back of ۲ the HD satellite receiver and to the ۲ ۲ corresponding AV6 audio (L and R) ۲ jacks on the back of the TV.) Refer to the user manual for the HD satellite receiver to complete the connections to the HD satellite receiver STANDARD/ HD INPUTS ۲ $(\bigcirc$ () and to use the HD satellite receiver's STANDARD ® ۲ on-screen setup menus. After completing HD satellite receiver connections and setup through the onscreen setup menus, press the AV+ but-۲ ton on the TV remote to access the 間 Source list. 704 Press the Cursor Up or Down button to Back of HD Satellite Receiver select the AV6 input source. (example only) Press the OK button to confirm your AV5:0th Source 🛞 AV6:Othe choice. The set is now switched to the SIDE:Othe AV6 input source for the viewing of ° programs from the HD satellite receiver. **HELPFUL HINTS** To simplify making connections, the connectors on audio cables are often color coded to match the colors on TV jacks: red for right audio, and white for left audio. Mar Jser fol HD Satellit • Because DVI is such new technology, the electronics industry is still working toward a decision on one standard. Philips testing has determined that compatibility issues exist with respect to a limited number of high-definition (MENU) receivers when they are connected to the DVI input on this television. If you + P should experience difficulties, please contact our Customer Care Center at 1- \bigcirc 2 3 800-531-0039. 4 (4) **(5) (6)** Inputs AV3-AV6 allow horizontal and verti- $(\overline{})$ ③ cal picture panning using the Cursor Left, ∞ ⊙ ⊙ Right, Up, and Down buttons. The Side input allows vertical picture panning; left and right panning with the Side input is possible when the input has been labeled "Game." See pages 18 and 19 for details on side panel connections and source labeling.

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Connecting Surround Sound Equipment



the MON OUT L and R jacks on the back of the TV and to the corresponding TV IN jacks on the back of the receiver. Using an Audio cable, connect to the SUB OUT jack on the back of the TV and to the Audio Input jack on the back of a powered subwoofer. Using speaker wires, connect to the R and L Front Speakers terminals and to the corresponding terminals on the backs of the front speakers. Using speaker wires, connect to the Surround Speakers terminals (+, -) on the back of the receiver and to the corresponding terminals (+, -) on the back of the surround speakers. Press the Menu button on the remote control to display the on-screen menu. Press the Cursor Down button to select "Settings." Press the Cursor Right button to select "General." Press the Cursor Down button repeatedly until "Subwoofer" is selected. Press the Cursor Right or Left button to select "Yes."

NOTE: "Yes" must be activated for the Subwoofer menu selection before the SUB OUT jack will supply output. This is because the subwoofer's low frequencies are redirected to the main TV speakers when "No" is selected.

Using Stereo Audio cables, connect to



and white for left audio.

Connecting to the Side Inputs: Video Game System

Using the Audio/Video cable supplied with your video game system, connect to the back of the game system and to the corresponding S-VIDEO and AUDIO (L and R) jacks in the Side Panel on panel of the TV. Side of NOTE: If your game system cable TV does not have an S-Video plug, you can instead make a regular Video connection. Press the Source button on the TV ۲ remote control to access the Source \bigcirc list. ۲ رە Press the Cursor Up or Down button to 6 select the Side input source. \odot Press the OK button to confirm your choice. The set is now switched to the You can label the Side Audio/Video Side input source for the viewing of input source "Game" if you would like. your video game system. See page 19 for details on labeling. **HELPFUL HINTS** AV6:Other Source 🛞 SIDE:Other ⊙⊫ To simplify making connections, the connectors on audio and video cables are Back of Game System often color coded to match the colors on (example only) TV jacks: yellow for video (composite), red for right audio, and white for left audio. Inputs AV3-AV6 allow horizontal and vertical picture panning using the Cursor Left, Right, Up, and Down buttons. The Side input allows vertical picture panning; left and right panning with the Side input is 6 possible when the input has been labeled "Game." See page 19 for details on source Ō Ò labeling. MENU The side panel is also Ρ convenient for connecting equipment (1) (2) (3)such as camcorders or 4 5 6 cameras. If the equip- \bigcirc (3) ment has an S-Video ∞ 0 ⊙ output jack, it is the Camcorder suggested one to use for your connection to receive the best picture. Otherwise, you can make a regular Video connection. You must also make an audio connection (L and R for stereo or L for mono) to receive sound. Neither an S-Video or Video cable carries a sound signal.

Labeling the Audio/Video Input Sources





Select (CBLVCR DVD SAT AMP) and Backlight Press this button to cycle across the accessory mode dial. Stop pressing when the mode you desire is lighted. The light will stay on for 2 seconds and then begin blinking to indicate the remote is in your desired mode. As POWER long as the button blinks, the remote is in the accessory mode. (See pages 22-25 for programming the remote) Pressing and holding the Select button for 2 seconds backlights the remote control buttons. The buttons remain lighted for 5 seconds after you press Select. VCR DVD TV SAT AMP Information Plus ... Press to show information (when available) about the current channel, pro-INFC SELECT gram, source, number or name, local time, CC availability, SAP availability, program ratings, display format, sound mode, and remaining length of a HD Sleeptimer setting. SCREE TV ((SUR Press to directly set the TV into the TV Mode of operation. **CC** (Closed Captioning) Press to turn Closed Captioning off, on, or on during mute. (See page 47 in the Directions for Use manual.) Surf If you set the Surf control in the TV's on-screen menu to two channels, this MENU button will allow you to toggle between the current channel and the last viewed channel. If you choose the nine-channel Surf, pressing this button allows you to add and scroll up to nine of your favorite channels. See page 57 in the Directions for Use manual. P ОК Press to activate or confirm menu choices. **Dual Screen/PIP (Picture-in-Picture)** 3 2 Press to turn the PIP dual screen on or off. Continuing to hold the Dual Screen/PIP button down will cycle through the Dual Screen/PIP options. 6 (See page 58 in the Directions for Use manual.) VOL (Volume) 9 Press + or - to adjust the volume. Mute 0 AV Press to interrupt or restore sound. Source (AV+) Press to display a list of source options-TV, AV1, AV2, AV3, AV4, AV5, AV6, or Side. Use the Cursor Up/Down buttons to select the next item, then press the OK button to confirm or press the Source Select button to select the next item in the list. Alternate Audio (SAP) When you tune to a channel where SAP (Second Audio Program) is available, you can toggle between Main and SAP. If SAP is not available, only Main can be selected. (See page 42 in the Directions for Use manual.) AutoSound™ Press to select the next item in the AutoSoundTM menu. The factory-set options are Speech, Music, Movies, and Multimedia, each corresponding with specific settings of treble and bass. You can also select the Personal option, which is based on the adjustments you make through the Sound menu. (See page 46 in the Directions for Use.)

Active Control[™] Plus

NOTE: Active Control[™] Plus is not available for use with the AV3, AV4, AV5, and AV6 input sources.

Press to toggle the options Off, Minimum, Medium, and Maximum. Maximum is the recommended option. (See page 28 in the *Directions for Use* manual.) Active Control, AutoSurf, Incredible Surround, are trademarks of Philips Consumer Electronics. Copyright 2004 Philips Consumer Electronics. All rights reserved.

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





Standby-On (Power)

Press to turn the TV on or off.

NOTE: The TV is never powered off completely unless it is physically unplugged from the power source.

DNM

Press to turn the Digital Natural Motion function on or off.

VCR/DVD Mode

When in the remote control is in the VCR (DVD) mode of operation, these buttons will allow you record, rewind, stop playback, play, or fast-forward playback.

Surround Sound

Press to display a list of available sound modes. Choose from Incredible SurroundTM and Dolby* Virtual settings. (See page 41 in the *Directions for Use* manual)

HD

Press to activate the AV6 (High Definition) jacks and place the TV into the High Definition Mode of operation.

Screen Format

Press to display a list of available picture formats for showing video images in the traditional 4:3 proportions. Press this button repeatedly to select a picture format. Choose from Automatic, Super zoom, Panoramic, 4:3, Movie expand 14:9, Movie expand 16:9, 16:9 subtile, and Wide screen. See pages 35–36 in the *Directions for Use* manual. **NOTES:**

- With AV3–AV6 connections, the Automatic picture format option is not available.
- In Dual Screen mode, press the Picture Format button to switch between a full or 4:3 letterbox picture format.

Cursor Up, Down, Right, Left

Use to navigate the on-screen menu and make control adjustments or settings.

Additionally, use these buttons to pan the screen up or down to show any excluded parts of the picture.

Menu On/Off

Press to display the TV's on-screen menu or to turn it off.

CH (Channel Selection)

Press to browse through the TV channels.

Digit (Number Buttons)

Press to directly access a specific TV channel. For a two- or three-digit channel, enter all numbers. Press a single- digit button and hold a bit longer to directly access a single-digit channel. These buttons can also be used to enter values in certain on-screen menu controls.

Clock (Time Display)

Press to display the current time on the TV screen. (See page 65 in the *Directions for Use* manual to set the clock)

AutoPicture™

Press to select the next item in the AutoPictureTM menu. The factory-set options are Rich, Natural, Soft, Multimedia, and Eco, each corresponding with specific factory settings of Contrast, Color, Sharpness, DNR, Dynamic Contrast, and Color enhancements. You can also select the Personal option, which is based on the adjustments or settings you make through the Picture menu. (See page 34 in the *Directions for Use*.)

Sleeptimer

Press to set the sleeptimer feature to turn the TV off automatically. You can choose—5 minutes up to 180 minutes in 5-minute increments.



Programming the Remote Control

Your TV remote control can operate accessory devices such as cable boxes, VCRs, DVD players, satellite receivers, and amplifiers.

Normally, the remote is in TV mode. You must press the Select button to switch the remote to one of the accessory modes—CBL, VCR, DVD, SAT, or AMP.

It is likely you will need to program you remote, but, before you do, try this test:

• Press the Select button repeatedly until the mode you desire lights up. When the light begins blinking, point the remote toward the accessory device, then press the Standby–On button. If the device responds you do not need to program the remote. If not, follow the steps below to program the remote.

Look up the number for the device on the list below:

- 1 Cable (CBL)
- 2 VCR
- 3 DVD
- 4 Satellite (SAT)
- 5 Amplifier (AMP).

Look up the number for the manufacturer on pages 24–25.

Press the Select and Standby–On buttons at the same time, then release.

Press the number for the device followed by the manufacturers code. The green Standby-On light will blink, indicating the code is valid. If the light does not blink, start again at step 1 using another code (if available).



Programming the Remote Control

Now try to use the remote control with the accessory device to see if it is correctly programmed.



Press the Select button on the remote to select the type of device. When the mode you desire lights up, stop pressing the button. When the light begins blinking the remote is ready for use with the device.



Press the Standby–On button. As long as the light keeps blinking, you can use the remote with the selected device. Once the light disappears, the remote is back in TV mode.

If the device does not respond to the Standby–On command, repeat steps 1-6 using a different code. If there are no other for the type and brand of accessory device, the remote likely will not operate your particular model of accessory device.

NOTE: Your TV remote is not necessarily capable of operating all models of the brands of accessory devices listed on pages 24–25. You may want to try the programming process again. Try using the number(s) that are listed for your type and brand of device to be sure you did not make a mistake in inputting the digits during your first attempt at programming.





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You can change the duration of the time-out mode by simultaneously pressing the Select button and a digit button, 1–4. Using digit 1 will set the time-out to 15 seconds; digit 2, 30 seconds; digit 3, 60 seconds; and digit 4, 120 seconds. The default time-out setting after you replace the batteries in the remote is 60 seconds. All modes will have the same timeout setting.

HELPFUL HINT

If the remote control is in one of the accessory modes (a mode light is flashing)— CBL, VCR, DVD, SAT, AMP—and you don't press any of the remote buttons for sixty seconds, a "time-out" occurs, returning the remote to TV mode.



Programming the Remote Control: Setup Codes

Amplifier

Carver
Curtis Mathes
GE
JVC
Linn
Magnavox
Marantz
Optimus
Philips
Pioneer
Polk Audio
RCA
Realistic
Sony
Soundesign
Victor
Wards
Yamaha

Cable Box

Ca	
ABC	
BellSouth	
Century	
Citizen	
Comtronics	
Contec	
General Instrument	
Goodmind	
Hamlin	0047, 0036, 0286, 0061
NSC	
Pioneer	
RCA	
	0042, 0910, 0342, 0824
Recoton	
Regal	
	0035, 0504, 0904
Signal	
Sprucer	
Starcom	
Stargate	0067, 0042, 0824
Starquest	
TV86	

Teleview
Tocom
Toshiba
Tusa
Unika
United Artists
Universal
Viewstar
Zenith
Zentek

Surround Sound Receiver

	ound Receiver
ADC	
Aiwa	
Capetronic	
Carver	0069, 1116, 1216
JVC	
Kenwood	.1054, 0069, 0213, 1340
Magnavox	
Marantz	
Modulaire	
	.1050, 0213, 0558, 0069
Philips	
RCA	
Technics	.0066, 1335, 1545, 1336

Satellite Receiver

AlphaStar
Echostar
Expressvu
GE
General Instrument
HTS
Hitachi
Hughes Network Systems
JVČ
Jerrold
Magnavox
Memorex
Next Level
Panasonic
Philips
Primestar
Fillesial

RCA	0170, 0419, 0882
Radio Shack	
Samsung	
Sony	
Star Choice	
Toshiba	0776, 0817
Uniden	0751, 0749
Zenith	

VCR

	VCR	
Admiral		.0075, 0236
Adventura		
		,
America Action		0305
American High		0062
	· · · · · · · · · · · · · · · · · · ·	
Bell & Howell .		0131
Broksonic	.0148, 0211, 0029	0236 0506
Carver		0108
Cineral		0305
		,
	.0064, 0099, 0074	
Curtis Mathes .		. 0087. 0189
- ,		
Denon		0069
Dvnatech		0027
Emerex		0059
Emerson	0211, 0029,	0236, 0305,
	0148, 0506,	0027.0064.
Funai		0027
GE	0062, 0087,	0075.0267.
	· · · · · · · · · · · · · · · · · · ·	
GoldStar		.0064, 0065
Harwood		0099
Hitachi		. 0027. 0068
	k Systems	
KEC		.0064, 0305
Kenwood		0094 0065
Lloyd's		0027
•		
•		
	ıy	
MTC		.0027, 0267
Magnavoy	.0062, 0108, 0027	0066 0176
magnav0x		, 5000, 0170

Programming the Remote Control: Setup Codes



VCR (continued)		
	.0064.0075, 0062, 0267	
	.0066, 0189, 0236, 1189	
	0070, 0075, 0094	
	.0065, 0068, 0094, 0131	
	.0189, 1189, 0075, 0064,	
	.0506, 0029, 0211, 0236	
	.0062, 0189, 1189, 0643	
	0267, 0064, 0069, 0065	
Proscan		
Protec		
	0087, 0176, 0069, 0062,	

Realistic
Runco
STS
Samsung
Sanky
Sansui0068, 0506, 0027, 0094, 0236, 0298
Sanyo
Scott
Sears
Sharp
Shintom
Shogun
Singer
Sony
Sylvania
Symphonic
Tatung
Teac
Technics
Teknika
Thomas
Tivo
Toshiba
Unitech
Vector
Vector Research
Video Concepts
Videosonic
Wards
White Westinghouse0099, 0305, 0236

XR-1000	
Yamaha	
Zenith	.0066, 0027, 0236, 0506

Digital Video Disc (DVD)

Digital video Disc (DVD)		
Apex		
Denon		
Fisher		
GE		
Hitachi		
Hiteker		
JVC		
Kenwood0709, 0561		
Konka		
Magnavox		
Marantz		
Mitsubishi		
Onkyo		
Optimus		
Oritron		
Panasonic		
Philips		
Pioneer		
Proscan		
RCA0549, 0598		
Samsung		
Sharp		
Sony		
Technics		
Theta Digita		
Toshiba		
Yamaha		
Zenith		

Operating Accessory Devices with the TV Remote

(700)

Once you have programmed your TV remote, refer to page 27 to see how the remote functions with accessory devices.

Before the remote will operate an accessory device, you must select the correct mode: CBL (cable box), VCR, DVD, SAT (satellite), or AMP (amplifier).

Press the Select button to cycle through the accessory modes. When the mode you want lights up, stop pressing the button. After a few seconds, the light will begin blinking. The blinking means that the remote is in the accessory mode you have selected.

NOTE: The remote is in accessory mode as long as the light keeps blinking. If you do not use the remote for 60 seconds the light will switch off, and the TV will go back to TV mode. The 60-second timer restarts each time you use the remote in an accessory mode.

Point the front of the remote toward the front of the accessory device, then press the button to perform the desired function.

HELPFUL HINT

- Press the Select button once to return the remote to the TV mode.
- Press the Select Button twice to select another device by cycling through the accessory mode choices.

You can change the duration of the time-out mode by simultaneously pressing the Select button and a digit button, 1-4. Using digit 1 will set the time-out to 15 seconds; digit 2, 30 seconds; digit 3, 60 seconds; and digit 4, 120 seconds. The default time-out setting after you replace the batteries in the remote is 60 seconds. All modes will have the same timeout setting.



Point the front of the remote toward the front of the accessory device, then press the necessary buttons to perform the functions you desire. Refer to pages 27 to see the functions of the buttons in the respective accessory modes.

To backlight the remote control buttons, press and hold the Select button for two seconds. If you do not press any remote buttons for five seconds, the backlight switches off. Each time you press a remote button while the backlight is on, the five-second time-out function is reset. After the backlight switches off, you must press and hold the

Select button for two seconds to

turn it back on.



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Operating Accessory Devices with the TV Remote



*Point remote at TV when using this button.

*Point remote at TV when using this button.



Using Active Control[™] Plus

Active ControlTM Plus monitors incoming video signals from the Tuner, AV1, AV2, and Side inputs and adjusts key picture settings for best picture quality. In addition to measuring picture noise, this feature uses an ambient light sensor (located on the front of the TV) to adjust the picture settings according to viewing conditions in the room. When you choose to turn Active ControlTM Plus on, you have the options Minimum, Medium, or Maximum. Maximum is the recommended option.

NOTE: Active ControlTM Plus is disabled with the AV3–AV6 input sources.

Press the Active Control[™] button on the remote control to display the "Active Control" menu.

Press the Cursor Up or Down button to select one of the options: "Minimum," "Medium," "Maximum," or "Off."

Press the Cursor Right button to display the Active ControlTM information window. You will notice how the values constantly change while Active ControlTM is working.

NOTE: The Active ControlTM values shown in the information window will based on the current AutoPictureTM setting: Personal, Rich, Natural, Soft, Multimedia, or Eco.



Press the OK button to return to the Active Control Menu or the Menu button to remove the on-screen menu from the TV screen.

HELPFUL HINTS

Active ControlTM Plus Settings

Minimum—Sharpness, Dynamic Contrast, and Noise Reduction are controlled automatically.

Medium—Sharpness, Color, Dynamic Contrast, and Noise Reduction are controlled automatically.

Maximum—Sharpness, Color, Dynamic Contrast, Noise Reduction, and Contrast are controlled automatically.





Selecting an AutoPicture[™] Option

Whether you're watching a movie or playing a video game, your TV has automatic video control settings to match your current program source or content. AutoPictureTM quickly resets your TV's video controls for a number of different types of programs and viewing conditions that you may have in your home. The Personal AutoPictureTM settings are the same as the Picture control adjustments made within the on-screen menu.

Press the Menu button on the remote to display the on-screen menu.

Press the Cursor Right button to select "Picture."

Press the Cursor Down button repeatedly until the "Auto picture" control is selected.

Press the Cursor Right button to enter the AutoPictureTM submenu.

Press the Cursor Down or Up button to select one of the AutoPicture[™] options: "Personal," "Rich," "Natural," "Soft," "Multimedia," or "Eco."

Press the Menu button to remove the on-screen menu from the TV screen.

You can also select the AutoPictureTM settings directly by pressing the AutoPictureTM button on the remote control.

HELPFUL HINTS

AutoPicture[™] Options

Personal settings are based on your personal choice or viewer control preferences.

Rich emphasizes very vibrant colors. (This is a good choice when AV mode is used in a brightly lighted room.)

Natural sets picture controls at mid-level settings for consistent viewing conditions.

Soft emphasizes warm colors. (This is a good choice for dimly lighted room. It gives a cine-ma-like effect when the light is switched off.)

NOTE: This option can also be used with the PixelPlus[™] control to soften the appearance of harsh screen elements that can show with certain types of DVD playback conditions. See page 30 for information about PixelPlus[™].

Multimedia emphasizes soft colors. (This is a good choice for playing computer games, for example.)

B&W optimizes brightness and contrast settings for viewing black and white programs.



NOTE: The Personal option shows the personal settings made in the Picture submenu. When you select one of the preset AutoPictureTM options, those settings become the Personal settings.

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Adjusting/Setting the Picture Controls

To adjust your TV picture controls, select a channel and follow these steps.

1

Press the Menu button on the remote control to show the on-screen menu.

Press the Cursor Right button to select "Picture."

Press the Cursor Down button to select one of the picture adjustments: "Contrast," "Brightness," "Color," "Sharpness," "Color temperature," or "Tint."

NOTE: The menu will show only four items at a time, so you will need to continue scrolling with the Cursor Down button to adjust the color temperature and tint.

4

Press the Cursor Left or Cursor Right button to adjust the selected control. Or, if color temperature is chosen, press the Cursor Right button to choose from the options "Normal," "Warm," or "Cool."

Press the Menu button to remove the onscreen menu from the TV screen.

HELPFUL HINTS

• The tint control is not available with the AV3 - AV6 input sources.

Picture Control Settings

- **Brightness** adds or subtracts light from the darkest part of the picture.
- Color adds or eliminates color.
- **Sharpness** improves the detail in the picture.
- **Tint** adjusts the picture to obtain natural skin tones.
- Color temperature offers "Normal," "Cool," or "Warm" picture preferences.
- Normal keeps whites, white.
- Cool makes whites, bluish.
- Warm makes whites, reddish.



Selecting a Digital Processing Option





Selecting a Dynamic Contrast Option



Selecting a DNR (Dynamic Noise Reduction) Option





Turning on Color Enhancement

The Color Enhancement control can improve the picture quality of pictures with a high saturation of color. This control works in four ways:

Dynamic Blue Stretch corrects the white colors toward a more bluish-colored white without changing the other colors. Improves the sharpness of the picture.

Green Enhancement offers a more saturated green color in case of low green broadcasts, giving landscapes a fresher and brighter look. **Color-dependent Sharpness** improves the sharpness of the picture through the color information. Gives the picture more details, especially in red colors.

Skin-tone Correction adjusts for over saturation of red that often appears in skin tones.



Press the Menu button on the remote to display the on-screen menu.

Press the Cursor Right button to select "Picture."

- Press the Cursor Down button repeatedly until the "Color enhancement" control is selected.
- 4

Press the Cursor Right button to turn the color enhancement control on or off.

5

Press the Menu button to remove the on-screen menu from the TV screen.

HELPFUL HINT

The color enhancement control is not available for use with inputs AV3–AV6.



Selecting a Picture Format Option

Your TV's wide screen (16:9 aspect ratio) delivers a home-cinema experience that isn't possible with a conventional (4:3 aspect ratio) set. The 16:9 format of high-definition (HD) programs and other widescreen-format video sources appear more lifelike, dramatic, and theatrical. Black or gray bars are diminished or eliminated. As the television industry moves toward the high-definition format standard and more HD broadcasts become available, you will be able to see the broadcasts as they were intended—in 16:9 format.

For flexibility in viewing conventional 4:3format video sources on your TV's wide screen, you have the options Automatic," "Super zoom," "Panoramic," "4:3," "Movie expand 14:9," "Movie expand 16:9," "16:9 subtitle," or "Wide screen."

NOTE: The Automatic picture format is disabled for AV3–AV6.

Page 36 explains how to select a picture format option.

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Inputs AV3–AV4 allow horizontal and vertical picture panning using the Cursor Left, Right, Up, and Down buttons. The Side input allows vertical picture panning; left and right panning with the Side input is possible when the input has been labeled "Game." See pages 18 and 19 for details on side panel connections and source labeling.

HELPFUL HINT

The term aspect ratio refers to the relationship between the width and height of a TV screen. Historically, TV screen width has been 33 percent greater than its height, amounting to a 4:3 aspect ratio. The width of your widescreen TV, however, is nearly 80 percent greater than its height, which means its aspect ratio is 16:9. This screen corresponds well with the tendency of the eves to feel more comfortable with fields of view and action planes that are horizontally oriented. The wide screen is also proportionally truer to the formats in which movies are filmed and presented in theaters. However, many widescreen DVDs will still display black bars to preserve the true theatrical format.

Conventional 4:3 Screen Size

Your TV's 16:9 Screen Size

Your TV's Picture Format Options

Automatic (not depicted) Makes the picture fill the screen as much as possible when the presence of black or gray bars is detected.



Super zoom Removes the black or gray bars on the sides of a 4:3-format picture with minimal distortion. Part of the top and bottom portions of the picture are excluded from the screen.



4:3 Displays a conventional 4:3 picture without change. Black or gray bars will show at the left and right sides.



Movie expand 16:9 Alters the image both horizontally (stretched) and vertically (cropped) to fill the TV's wide screen. Part of the top and bottom portions of the picture will be excluded from the screen.



Panoramic Evenly stretches the edges of the picture to fill the TV's wide screen.



Movie expand 14:9 Expands the picture to 14:9 movie aspect ratio. Part of the top and bottom portions of the picture are excluded from the screen. Black or gray bars are shown at the left and right sides.



16:9 subtitle Zooms the picture for a full view of subtitles or other information displayed at the bottom of the picture. Part of the top portion of the picture is excluded from the screen.



Wide screen Evenly stretches the width of the picture to fill the screen.

Selecting a Picture Format Option

Choose a picture format size to match the type of program you're watching. Select the Picture Sound Features Channels TV normal 4:3 aspect ratio or a variety of Settings Picture Sound Features Channels widescreen formats. TV . Demo Contrast Install Press the Menu button on the remote to Brightness display the on-screen menu. Color Sharpness Press the Cursor Right button to select "Picture." Press the Cursor Down button repeat-Pictur edly until the "Picture format" control TV **311118** 40 is selected. Contrast ((U) Brightness Press the Cursor Right button to enter VCR DVD TV SAT AMP Color the picture-format submenu. Sharpness Press the Cursor Down button to select one of the seven screen formats: Picture "Automatic," "Super zoom," TV • "Panoramic," "4:3," "Movie expand Color enhancement ОК 14:9," "Movie expand 16:9," "16:9 Tint subtitle," or "Wide screen." Auto picture The Automatic option senses the pres-Picture format Automatic Super zoon ence of black or gray bars around the Panoramic picture and zooms the picture to reduce Ρ ()⊿ or eliminate the bars. Picture **NOTE:** The Automatic picture format (2)3 τv [1] option is not available with AV5 (com-(4)(5) 6 puter) connections. $\overline{7}$ (8) (9) Press the Menu button to remove the 🗑 Automatic AV+) \bigcirc \bigcirc Picture format on-screen menu from the TV screen. Super zoor Panoramic You can also select a picture format simply by pressing the Screen Format Picture τν button on the remote control. Automatic Picture format Super zoom Panoramic 4:3

Adjusting the TV and Headphone Volume

Besides the normal volume level control, your TV also has a headphone volume control. This control can be adjusted when using headphones without having to adjust the main volume control for the TV cabinet speakers.

To control the television volume:

Press the Volume + button on the remote control to increase the television volume level.

Press the Volume - button on the remote control to decrease the television volume level.

NOTES:

- The Volume scroll will not appear on screen if the on-screen display is set to "Minimum." See page 62 for details.
- The Volume level can also be adjusted within the on-screen menu. Select the Sound menu and cursor down to the Volume control. Use the Cursor Left and Right buttons to adjust.

To control the Headphone volume:

Press the Menu button on the remote control to display the on-screen menu.

Press the Cursor Right button to select "Sound."

Press the Cursor Down button repeatedly until the "Headphone volume" control is selected.

Press the Cursor Right button to increase the headphone volume level.

Press the Cursor Left button to decrease the headphone volume level.

Press the Menu button on the remote control to remove the on-screen menu from the TV screen.





Plug your headphones into the headphone 3.5mm mini-jack in the TV's Side



Movies provides a balance between voices

Multimedia provides sound balance best suited for gaming consoles or interactive

Personal presents the TV's sound according to the settings you make within the sound

and music.

media.

menu.

Selecting an AutoSound[™] Option

AutoSoundTM allows you to select from four Picture Sound Features Channels factory-set controls and a personal control. TVG The personal control consists of settings you Settings Sound Features Channels adjust through the on-screen Sound menu. τv Demo The four factory-set controls-Speech, Volume Install Music, Movie, or Multimedia-enable you to Equalizer Balance tailor the TV sound to enhance the particular Loudness program you are watching. Follow these steps Headphone volume to select any of the options. Press the Menu button on the remote Picture to display the on-screen menu. POWER AVL Press the Cursor Right button repeat-((U) Delta volume edly to select "Sound." Auto sound Personal VCR DVD TV SAT AM Speech Press the Cursor Down button repeat-Music Movies edly until the "Auto sound" control is Multimedia selected. Picture Press the Cursor Right button to enter τv the AutoSoundTM submenu. 0K Persona Press the Cursor Up or Down button to Speech Auto sound select an option: "Speech," "Music," Music Movies "Movies," "Multimedia," or Multimedia "Personal." Ρ Press the Menu button to remove the (3) (2)on-screen menu from the TV screen. (4) 6 (5) You can also select the AutoSoundTM (7)(8) 9 settings directly by pressing the AV+) \bigcirc C AutoSoundTM button on the remote control. SAP CONTROL SLEEP (LUCK) **HELPFUL HINTS** AutoSound[™] Options Speech brings voices to the forefront and emphasizes them. Moves music to the background. Music emphasizes music over voices.

NOTE: The Personal option shows the personal settings made in the Sound submenu. When you select one of the preset AutoSound[™] options, those settings become the Personal settings.

Selecting a TV Equalizer Option

Sound Features Channels

The Equalizer control will change the dynamics of the sound being heard through the TV. You can adjust the settings for the Personal Equalizer option. The other options have been preset at the factory and cannot be changed.

Press the Menu button on the remote to display the on-screen menu.

Press the Cursor Right button repeatedly to select "Sound."

Press the Cursor Down button repeatedly until the "Equalizer" control is selected.

Press the Cursor Right button to enter the equalizer submenu. Continue to press the Cursor Right button to select one of the options: "Speech," "Music," "Movie," "Multimedia," or "Personal."

5 If you select the Personal option and want to make adjustments, press the Cursor Down button to select an adjustment, then press the Cursor Left or Right button to adjust the slider control to the desired position.

NOTE: If you attempt to change the settings for the factory preset options Speech, Music, Movie, or Multimedia, the Equalizer control will default to the Personal option.



Press the Menu button to remove the on-screen menu from the TV screen.







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Adjusting TV Speaker Balance

You can adjust the balance of the TV speaker sound.

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Press the Menu button on the remote to display the on-screen menu.

Press the Cursor Right button repeatedly to select "Sound."

Press the Cursor Down button repeatedly until the "Balance" control is selected.

Press the Cursor Right or Left button to adjust speaker balance.

Press the Menu button to remove the on-screen menu from the TV screen.





Turning Loudness on or off

Turning the Loudness control on provides a volume-dependent bass-boost effect to the speakers. Follow the steps here to turn the Loudness control on.

Press the Menu button on the remote to display the on-screen menu.

Press the Cursor Right button repeatedly to select "Sound."

Press the Cursor Down button repeatedly until the "Loudness" control is selected.

Press the Cursor Right to toggle loudness on or off.

Press the Menu button to remove the on-screen menu from the TV screen.





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Selecting a Sound Mode Option

TVO

Picture Sound Features Channels

The Sound Mode control allows you to place the TV sound into either Incredible Surround[™] or Dolby* Virtual mode. The steps below explain how to select one of those options.

Press the Menu button on the remote to display the on-screen menu.

Press the Cursor Right button repeatedly to select "Sound."

Press the Cursor Down button repeatedly until the "Sound mode" control is selected.

Press the Cursor Right button to enter the sound mode submenu.

Press the Cursor Up or Down button to select one of modes, either "Incr. Surround" or "Dolby Virtual."

Incr. Surround enhances stereo programs by making the sound broader and fuller.

Dolby Virtual creates a virtualized surround-sound experience from two speakers. Dolby Virtual retains all the original multichannel audio information and provides the listener with the sensation of being surrounded by additional speakers.

6

When finished, press the Menu button to remove the on-screen menu from the TV screen.

You can also select a sound mode option simply by pressing the Surround Sound button on the remote control.





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Using Alternate Audio (SAP)

For broadcasts that contain SAP (Secondary Audio Program) information, the Alt Audio Control can be set to SAP. Sent as a third audio channel, SAP is an additional part of the stereo broadcast system that can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes.

If an SAP signal is not present with a selected program, the "Alt Audio" option in the TV's on-screen menu cannot be selected and will appear grayed out.

If SAP is available on the tuned channel:



Press the Menu button on the remote to display the on-screen menu.

Press the Cursor Right button repeatedly to select "Sound."

Press the Cursor Down button repeatedly until the Alt Audio control is selected.

Press the Cursor Right button to toggle and select either "Main" or "SAP."

Press the Menu button to remove the on-screen menu from the TV screen.

You can also select SAP by simply pressing the Alternate Audio button on the remote control.



