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You can read the recommendations in the user guide, the technical guide or the installation guide for MITSUBISHI LT-46244. You'll find the answers to all your questions on the MITSUBISHI LT-46244 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MITSUBISHI LT-46244
User guide MITSUBISHI LT-46244
Operating instructions MITSUBISHI LT-46244
Instructions for use MITSUBISHI LT-46244
Instruction manual MITSUBISHI LT-46244



LCD FLAT PANEL HDTV

MODELS

LT-46244

LT-52244

OWNER'S GUIDE

- For questions:
 - Visit our website at www.mitsubishi-tv.com;
 - E-mail us at MDEAservice@mdea.com;
 - Call Consumer Relations at 800-332-2119.
- For information on **System Reset**, please see the back cover.
- To order replacement or additional remote controls or Owner's Guides, visit our website at www.mitsubisuparts.com or call 800-553-7278.
- Guidelines for setting up and using your new widescreen TV start on page 12.



x.v.Color



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Manual abstract:

com. - Call Consumer Relations at 800-332-2119. For information on System Reset, please see the back cover. @@@@The model and serial numbers are on the back of the TV. Refer to this page when requesting assistance with the TV. @9351 Jeronimo Road Irvine, CA 92618-1904 (800) 332-2119 Telephone:

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN 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 the 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.

Changes or modifications not expressly approved by Mitsubishi could cause harmful interference and would void the user's authority to operate this equipment. **CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.** The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product. **WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.** **TV WEIGHT:** This TV is heavy! Exercise extreme care when lifting or moving it. Lift or move the TV with a minimum of two adults. To prevent damage to the TV, avoid jarring or moving it while it is turned on. Always power off your TV, unplug the power cord, and disconnect all cables before moving it. **WARNING:** This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm. Contents Important Information About Your TV Installation Notes . . .

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..... Important Information About Your TV Installation Notes Wall Mount Requirements For wall-mounting, see "Stand Removal Instructions." Use with other than the authorized accessories may cause the TV to become unstable, which can cause damage to the product or possible injury. Custom cabinet installation must allow for proper air circulation around the television.

NOTE TO 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 THE 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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Cleaning Recommendations Normally, light dusting with a dry, non-scratching duster will keep your TV clean. If cleaning beyond this is needed, please use the following guidelines: First, turn off the TV and unplug the power cord from the power outlet. Top and Sides of the TV · Occasionally clean dust build-up from the air-intake grilles on the back and sides of the TV. Clean using a vacuum cleaner with a brush attachment. Gently wipe down your TV with a soft, non-abrasive cloth such as cotton flannel or a clean cloth diaper, lightly moistened with water. Dry with a second dry, soft, non-abrasive cloth. For oily dirt, add a few drops of mild liquid detergent, such as dishwashing detergent, to the water used to moisten the cloth. Rinse with a second cloth moistened only with water.

Dry with a third dry, soft, non-abrasive cloth.

· · If Your TV Gets Damaged Crystalline liquid may leak from the LCD panel and broken glass may be scattered. CAUTION: The crystalline liquid is toxic. Avoid contact with your skin, eyes, or mouth. DO NOT touch the broken glass or crystalline liquid. DO NOT get glass fragments or crystalline liquid into eyes or mouth.

Should either contact with your eyes or mouth, rinse the contacted area thoroughly with water and consult your doctor. LCD Screen Cleaning IMPORTANT DO NOT apply any type of liquid to the surface of the TV screen. · · · Disposal of Your TV The LCD panel contains a small amount of crystalline liquid and the fluorescent tube in the panel contains mercury. Both are toxic and should not be touched. DO NOT dispose of the TV with general household waste.

THE LAMPS INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE, AND FEDERAL LAWS. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance at www.eiae.org. Only use a soft, dry cloth to clean the LCD screen. Do not use any liquids. Wipe the screen gently with an up and down motion. Clean the entire screen evenly, not just sections of the screen. General Cleaning Precautions · · · DO NOT allow liquid to enter the TV through the ventilation slots or any crevice. DO NOT use any strong or abrasive cleaners, as these can scratch the surfaces.

DO NOT use any cleaners containing ammonia, bleach, alcohol, benzene, or thinners, as these can dull the surfaces. DO NOT spray liquids or cleaners directly on the TV's surfaces. DO NOT scrub or rub the TV harshly. Wipe it gently. Internal Fan This TV has an internal cooling fan that may be audible while the TV is powered on. · · TV Guide Daily Access Requirements TV Guide Daily listings are not provided by Mitsubishi Digital Electronics America, Inc.

Operation of TV Guide Daily requires over-the-air or direct cable (no cable box) access to stations carrying TV Guide Daily program listings. If listings are not available in your area or become discontinued by the local provider, TV Guide Daily will not operate. TV Guide Daily does not provide program listings for satellite TV systems. TV Software Do not attempt to update the software of this TV with software or USB drives not provided by or authorized by Mitsubishi Digital Electronics America, Inc.

Nonauthorized software may damage the TV and will not be covered by the warranty. Please read the following safeguards for your TV and retain for future reference. Always follow all warnings and instructions marked on the television. 1. Read, Retain and Follow All Instructions.

Read or electric shock. ANTENNA DISCHARGE UNIT Never spill liquid of any kind on or into the TV. (NEC ARTICLE 810-20) ELECTRIC SERVICING Outdoor Antenna Grounding. If an outside antenna or cable system is connected to the TV, be GROUNDED EQUIPMENT CONDUCTORS sure the antenna or cable system is grounded so as to provide some protection against voltage (NEC ARTICLE 810-21) surges and built-up static charges. GROUNDED LAMPS Article 810 of the National Electric Code, ANSI/NFPA No.

70-2002, provides information with POWER SERVICING GROUNDED ELECTRODES SYSTEM respect to proper grounding of the mast and supporting structure, grounding of the lead in wire to NEC -- NATIONAL ELECTRICAL CODE (NEC ART 250, PART H) an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Service. Do not attempt to service this TV yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. Damage Requiring Service. Unplug the TV from the wall outlet and refer servicing to qualified service personnel under the following conditions: (a) When the power-supply cord or plug is damaged. (b) If liquid has been spilled, or objects have fallen into the TV. (c) If the TV has been exposed to rain or water. (d) If the TV does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to its normal operation. (e) If the TV has been dropped or the cabinet has been damaged.

(f) When the TV exhibits a distinct change in performance - this indicates a need for service. Replacement Parts. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards. Safety Check. Upon completion of any service or repair to the TV, ask the service technician to perform safety checks to determine that the TV is in safe operating condition. Heat. The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat. 16. 17.

18. 19. 20. 6 1 1. 2.

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8. 9. Television Overview Integrated HDTV Tuner Your widescreen Mitsubishi HDTV has an internal HDTV tuner able to receive both over-the-air HDTV broadcasts (received via an antenna) and digital cable broadcasts, including HDTV cable programming (when authorized by the CableCARD provider).

Package Contents Please take a moment to review the following list of items to ensure that you have received everything. Remote Control Two AA Batteries Owner's Guide Quick Reference Guide Quick Connect Guide Product Registration Card Four-Ended IR Emitter One Cable Tie One Cable Clamp AA AA 2

High-Definition Video Inputs 1 7 Special Features of Your TV Your new high-definition widescreen television has many special features that make it the perfect center of your home entertainment system, including: 1080p High-Definition LCD Display System Your Mitsubishi LCD Flat Panel HDTV uses a full 1920 x 1080 LCD panel to create the picture you see on the screen.



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All images are displayed at 1080p. The TV uses Plush 1080p™ to convert lower-resolution signals to 1080p for display. HDMI 1080p signals are displayed without overscan when received on inputs named Game (if Picture Mode Game is selected) or on inputs named PC. Smooth120Hz™ Operation Smooth120Hz™ enables the display of more fluid and smoother fast-moving images, free from motion blur. In these LCD Flat Panel HDTVs, Smooth120Hz™ doubles the traditional progressive scan frame rate and creates new frames of video in between each of the traditional frames, providing the panel with additional information to smooth moving images.

Component Video Inputs. Also called Y/Pb/Pr inputs, these inputs receive standard analog video formats of 480i, 480p, 720p, and 1080i high-definition signals. This provides a high level of flexibility when connecting DVD players/recorders, cable boxes, and satellite receivers. **HDMI 1.3 Inputs.** These inputs accept digital 480i, 480p, 720p, 1080i, and 1080p video signals plus PCM digital stereo signals. The HDMITM inputs can also accept a variety of PC signals and resolutions. These inputs are compatible with Deep Color and x.v.Color.

Used with an adapter, these inputs also accept compatible digital DVI video signals. HDMI inputs provide additional high-performance, highdefinition connections for maximum flexibility in your choice of home theater products. The HDMI inputs are HDCP copy-protection compatible. Easy Connect Auto Input Sensing Easy Connect™ Auto Input Sensing automatically recognizes when you plug in an input and prompts you to assign a name to it. The TV ignores any unused inputs, so the result is an uncluttered Input Selection menu where you can easily find and select connected devices by name. Home Theater Control NetCommand with IR Learning Your Mitsubishi HDTV offers a new level of networking that seamlessly integrates selected older A/V products with new and future digital products. NetCommand® supports IR (infrared) control of products such as VCRs, DVD players, cable boxes, and satellite receivers. NetCommand can "learn" remote control signals directly from many devices, allowing you to create a customized NetCommand-controlled home-theater system. 16:9 Widescreen Picture Format Enjoy a full theatrical experience in the comfort of your home. View pictures as film directors intended them.

Digital TV broadcasts, DVDs and newer video game consoles support this widescreen format. 1. Television Overview NetCommand for HDMI Devices Some newer HDMI devices may be compatible with the TV's NetCommand for HDMI feature. Compatible devices can receive control signals through the HDMI connection. The TV's remote control may be able to operate some functions of these devices without any further setup. 7 TV Front Panel Indicator Lights Lights (located on the front left) indicate whether the TV is on or off, a timer is set, and the overall functional status of the TV. See chapter 4, "TV Operation and Features," for more information. Side Panel (Controls and Inputs) Swivelling Stand The included stand allows the TV to be manually swiveled up to 30 degrees left or right to the best viewing angle. TV Guide Daily Interactive Program Guide TV Guide Daily is a subscription-free guide system. It lists regular, digital, and high-definition programming being broadcast in your area over the next twenty-four hours.

Remote Control IR Sensors Decorative Blue Light (see options in the AV > Global > Blue Glow menu) Power and Status Indicators Off Steady On Slow Blinking Fast Blinking POWER/TIMER Indicator LED Color TV Condition None Blue Blue Blue Standby condition. TV is powered on. TV powered off, auto-on timer is set. 1. TV just plugged into AC outlet. Additional Information Normal operation. Normal operation. Normal operation. TV can be turned on at any time. Wait approximately one minute for blinking to stop before turning on.

Normal operation. 2. AC just restored after power failure. 3. TV rebooting after System Reset used.

4. TV rebooting after power fluctuation or receiving abnormal digital signals from a digital channel or digital device. 5. You have begun the procedure to update software from an authorized flash memory device. STATUS Indicator LED Color TV Condition None Red Normal TV on or standby condition. TV may require service. Additional Information Normal operation. Turn off the TV and unplug the set from the AC power source. Wait one minute and then plug the set back in. See Appendix E. If the LED is still on, contact your dealer or a Mitsubishi Authorized Service Center. Go to www.mitsubishi-tv.com or call 1-800-332-2119 to receive Authorized Service Center information. 8 1.

Television Overview TV Side Panel The side panel contains TV control buttons and additional input jacks. System Reset Button (see more information below)

Side Panel Buttons duplicate some keys on the TV remote control See chapter 4, "TV Operation and Features" Side Panel Input Jacks 1 COMPONENT 3 Jacks (five jacks) 2 INPUT 3 (lower three jacks) Side Panel Jacks 3 See chapter 3, "TV Connections" 4 System Reset Button If the TV does not respond to the remote control, side panel controls, or will not power on/off, press the SYSTEM RESET button on the side panel with a pointed object, such as the point of a pencil or end tip of a paperclip. The blue POWER LED will flash quickly for about one minute. When the blue POWER LED stops flashing, you may turn on the TV. Recent setting changes you made before using SYSTEM RESET may be lost. 1. COMPONENT 3 Inputs (Audio and Video) Y Pb Pr (480i/480p/720p/1080i) COMPONENT 3 is a third set of component inputs. Use these jacks to connect devices with component video outputs, such as DVD players, external HDTV receivers, or compatible video game systems. See Appendix B, "Specifications," for signal compatibility. 2.

INPUT 3 (Audio and Video) The INPUT 3 jacks have multiple uses. The Y/VIDEO jack can serve either as a yellow composite video jack or as a green component video jack. The audio jacks can be used with either the composite or component inputs nearby on the side panel. The audio jacks also work with a DVI source connected to HDMI 4. 3.

HDMI 4 HDMI 4 is an HDMITM input located on the TV's side panel for convenience. See item 6, "HDMI Inputs" for description and use. When you connect a DVI device to HDMI 4, connect analog audio cables to the nearby INPUT 3 L and R audio jacks to hear analog audio from the device. 4. USB Photo Port The USB port is used for viewing JPEG images.

See chapter 4, "TV Operation and Features" for more information. A/V Reset If you wish to reset the A/V (Audio/Video) settings back to the factory defaults: · To reset all settings at once, press GUIDE and FORMAT on the side panel at the same time. · To reset the defaults for individual inputs, use the Reset selection found in the AV menu. 1.



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Television Overview 9 TV Back Panel 10 TV Back Cover 9 Back Panel #1 4 Label for Back Panel #2 Back Panel #2 ANT 1/MAIN (jack at rear of recessed area) ANT 2/AUX (jack closest to you) 8 1 7 Dealer Use Only 5 6 2 3 1. ANT 1/MAIN, ANT 2/AUX (Antenna) If you are connecting an antenna, direct cable without a cable box, or are using cable with a CableCARD™, connect the main antenna or cable source to ANT 1/MAIN. Use ANT 2/AUX for a secondary source. ANT 1/MAIN and ANT 2/AUX can each receive digital and analog over-the-air channels from a VHF/UHF antenna or non-scrambled digital/analog cable source. ANT 1/MAIN and CableCARD Use ANT 1/MAIN to receive premium subscription cable TV service authorized by the CableCARD™ access card. The CableCARD access card is provided by your local cable company.

ANT 2/AUX can continue to receive over-the-air or non-scrambled cable signals when ANT 1 is used for CableCARD™ service. 2. COMPONENT Inputs (Audio and Video) Y Pb Pr (480i/480p/720p/1080i) Use these jacks to connect devices with component video outputs, such as DVD players, external HDTV receivers, or compatible video game systems. See Appendix B specifications for signal compatibility. 3. PC/DVI AUDIO INPUT Use the PC/DVI AUDIO INPUT when connecting a DVI device to one of the TV's HDMI inputs using a DVI-to-HDMI cable. These jacks allow you to send left and right analog audio from a PC or DVI device to the TV. 4. AVR AUDIO OUTPUT Use the AVR AUDIO OUTPUT jacks to send analog audio of the program currently shown on the screen to an A/V surround sound receiver or stereo system. Digital audio from digital channels and HDMI devices is converted to analog audio by the TV. If using an analog 10 1. Television Overview TV Back Panel, continued A/V receiver or stereo system, this is the only audio connection needed between it and the TV. HDMI Cable Categories HDMI cables are available as Category 1 and Category 2 versions. · Category 2 Cables. Newer, HDMI 1.

3-compliant DVD players, video games, and set-top boxes require Category 2 cables. Use category 2 cables for these high-speed HD signals carrying extended color encodings (i.e., 30 or more bits, also called Deep Color). Category 2 cables are also suitable for standard HDTV signals. · Category 1 Cables. Unmarked cables are category 1 cables and are suitable for standard HDTV signals, including 1080p signals. 5. INPUT 1, 2 (Audio and Video) INPUT 1 and 2 can be used to connect a VCR, Super VHS (S-VHS) VCR, DVD player, standard satellite receiver, or other A/V device to the TV. Each TV INPUT group consists of jacks for composite video, S-Video, and analog stereo audio. Note that when you connect to the S-video jack, the composite video jack is automatically disabled. INPUT 3 is a third set of composite video and stereo audio jacks located on the side of the TV for convenience. 6. HDMI Inputs The HDMITM 1.3 (High Definition Multimedia Interface) supports uncompressed standard and high-definition digital video formats and PCM digital stereo audio format.

Use the HDMI inputs to connect to CEA-861 HDMI compliant devices such as a high-definition receiver or DVD player. These inputs support 480i, 480p, 720p, 1080i, and 1080p video formats, plus PCM digital stereo audio. Mitsubishi recommends you use category 2 HDMI cables to connect HDMI 1.3 source devices. High-speed category 2 cables bring you the full benefits of Deep Color and x.v.Color. These inputs can also accept digital DVI video signals. To connect a DVI source, use an HDMI-to-DVI adapter or cable plus analog audio cables. Connect the analog audio cables to PC/DVI AUDIO INPUT on the back of the TV to receive left and right stereo audio from your PC or DVI device.

The TV's HDMI inputs are compatible with many DVI-D and HDMI computer video signals. See chapter 2, "TV Setup" and Appendix B for additional information on PC compatibility. These inputs are HDCP (High-Bandwidth Digital Copy Protection) compliant. These inputs are certified for proper interoperability with other products certified by Simplay™. 8.

IR Emitter NetCommand® IR Emitters connected to this jack are used by the TV's NetCommand system to control external IR remote controlled analog devices such as cable boxes, VCRs, DVDs, satellite receivers and audio receivers. 9. RS-232 Port Use this port with external control systems for the control of TV power, channel, format, volume, and mute. For detailed information and control codes, please visit our website at www.mitsubishi.com.

10. CableCARD Slot Insert the CableCARD™ access card into the slot located behind the CableCARD access door. When inserting the card, ensure that the top of the card faces in the direction indicated by CARD TOP. If your cable company is not currently offering CableCARD access cards, use the cable box provided and authorized by your local cable company to view scrambled channels. When using a CableCARD, make sure the incoming Cable-TV cable is connected to the TV's ANT1/MAIN jack on the back of the TV (Back Panel #2). This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable operator.

7. DIGITAL AUDIO OUTPUT This output sends Dolby Digital or PCM digital audio to your digital A/V surround sound receiver. Analog audio from analog channels and devices is converted by the TV to PCM digital audio. If you have a digital A/V receiver, in most cases this is the only audio connection needed between the TV and your A/V receiver. 1. Television Overview 11 Stand Removal Instructions CAUTION At least TWO PEOPLE are needed to safely remove the stand. One person must hold the TV while the other person removes the stand. Failure to follow these recommendations may result in personal injury, as well as damage to the product. Stand Removal Procedure: 1. 2.

Before starting to remove the stand, make sure to disconnect AC power cord from AC power outlet. Spread the protective sheet that was wrapped around the TV on a flat, even surface (such as a sturdy table). The protective sheet will help prevent the display from being damaged. IMPORTANT: To avoid damaging the screen, make sure there are no foreign objects under or on top of the protective sheet. With two people firmly grasping the left and right sides of the TV, gently place TV face down on the protective sheet with the display stand hanging over the edge of the table.

See the illustration to the right. Use a magnetic philips screwdriver to remove the four stand screws from the recessed holes (see illustration to right).



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Note: A regular screwdriver can be used with a separate magnetic pickup tool. With one person holding the TV with both hands, grasp the plastic portion of the stand (see illustration to the right) and remove the stand by pulling it away from the TV in the direction of the large arrow shown in both illustrations. The TV is now ready for wall mounting.

See Wall Mount Kit below. 3. 4. 5. 6. Wall Mount Kit (purchased separately) To order a Wall Mounting Kit, please contact Peerless Industries, Inc. at (800) 473-3753 or visit www.peerlessmounts.com. Use wall mounting kit Model ST650.

Note: Complete instructions are included with the kit. To order a Wall Mounting Kit from Mitsubishi Digital Electronics America, Inc., please visit www.mitsuparts.com or call (800) 553-7278. CAUTION: Use with other than the authorized accessories may cause the TV to become unstable, which can cause damage to the product or possible injury. IMPORTANT Before attaching the wall mount kit to the TV, be sure to connect all necessary cables to jacks on the back of the TV. After wall-mounting, these jacks will not be accessible. If you plan to connect a PC to the TV, before wall-mounting be sure to connect an HDMI cable and sound cable (if required) to the proper inputs on the back of the TV. You can also use the HDMI 4 jack on the side panel.

12 2 Getting Started TV Set-Up Guidelines for Setting Up and Using Your New Widescreen TV TV Operation 1. Review chapter 4, "TV Operation and Features," for TV features including: · Input Selection (viewing source). Select a connected program source to watch, such as a VCR, DVD player, or antenna. Press INPUT on the remote control to select from icons for the TV inputs. See "Choosing a Viewing Source.

" · ChannelView™/TV Guide Daily. Press GUIDE to see channel listings for programs on ANT 1 and ANT 2. To override ChannelView and use the TV Guide Daily system, see Chapter 5, "TV Menu Settings" and the Inputs menu Guide options. · Picture Formats. Press FORMAT to cycle through picture sizes and shapes to find the one best suited to the current program.

See "TV Signals and Display Formats." 2. To understand use of the Input Selection menu with NetCommand-controlled devices, see "Using NetCommand." 3. To view JPEG photo files on the TV, see "Viewing Camera Files." 1. Review the important safety, installation, and operating information at the beginning of this book. 2. Choose a location for your TV. · Allow at least four inches of space on all sides of the TV to help prevent overheating.

Overheating may cause premature failure of the TV. · Avoid locations where light may reflect off the screen. · If wall-mounting the TV, see "Stand Removal Instructions" in chapter 1, "Television Overview." 3. Install the batteries in the remote control. See the following page. See chapter 4, "TV Operation and Features" for more on use of the remote control. 4. Plug your TV into a power outlet. The LED on the front of the TV will start blinking rapidly.

After the LED stops blinking, press the POWER key to power on the TV. 5. When the Welcome screen appears the first time you power on the TV, select a language for TV menus. You can later change the language through the Setup menu. 6.

Connect your audio/video (A/V) devices to the TV and perform initial setup. · See chapter 3, "TV Connections" for connection diagrams. · See the following pages for initial TV setup and use of the Auto Input Sensing feature. · See chapter 6, "NetCommand," to perform NetCommand IR "learning" for control of your home theater. 7.

Mitsubishi recommends you perform a channel scan for channels received on ANT 1 and ANT 2. See "Initial TV Setup" on the following pages. 8. You can now start watching TV or you can perform additional setup and customization through the TV menus. Additional TV Setup 1. Review chapter 5, "TV Menu Settings," to customize TV operation. Press the MENU key to enter the menu system. Some examples of settings you may wish to change include: · Fav. Use an on-screen menu to create custom lists of your favorite channels from ANT 1 and ANT 2. See Setup > Edit.

· Order. Rearrange the device icons in the Input Selection menu to put frequently used icons near the front. See Inputs > Order. · Name. Change the device names that appear in the Input Selection menu. See the Inputs menu Name options. · TV Guide Daily. Set up and enable the TV Guide Daily system. See the Inputs > Guide menu. 2.

TV Setup · Parental Locks. Restrict TV viewing by program rating, by channel, or by time of day. You can also disable the side-panel buttons if you have small children. See the Lock > Parent menu, the Lock > Front Panel menu, and Setup > Edit > Lock. Video Settings.

Change video adjustments to get the best picture for your viewing conditions. See "AV Menu." 13 When You First Power On the TV Turning the TV On or Off To turn the TV on or off, point the remote control at the front of the TV and press the POWER key. Alternatively, press the POWER button on the side panel of the TV. · Note: You may wish to change the Picture Mode from the default Brilliant to either Bright or Natural, which are suitable for most home viewing.

2. To program the remote control to operate A/V devices not under NetCommand control, see Appendix D, "Programming the Remote Control." Choosing a Language for Menus 1. Power on the TV for the first time. 2. Press to select either English or Spanish for all menus. You can later change the language selection through the Setup menu Language option. TV Care General Cleaning. See the cleaning recommendations under "Important Information About Your TV." Assistance · · For troubleshooting, service, and product support, see Appendix E.

For warranty information, see the TV warranty in the back of this book. When you first power on the TV, the Welcome screen lets you change the menu language. Installing the Remote Control Batteries Remove the remote control's back cover by gently pressing in the tab and lifting off the cover. 2. Load the batteries, making sure the polarities (+) and (-) are correct. For best results, insert the negative (-) end first. 3. Snap the cover back in place. 1 1. Initial TV Setup Use the Setup menu for basic TV setup options.

1. Press MENU to open the Main menu. 2. Press to highlight the Setup icon and display the Setup menu. 2 Setup menu highlighted in TV Main menu The remote control requires two AA alkaline batteries.

14 2. TV Setup 3. Press to highlight the on-screen START button. 4. Press ENTER to start automatic channel memorization.

To stop channel memorization before completion, press CANCEL. 5. When memorization is complete you can: · Press MENU once to return to the top row of icons.



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· Press MENU again to return to the Main menu. · Press EXIT to watch TV. After channels have been memorized: · To tune to memorized channels, press CH / while watching TV on the ANT 1 or ANT 2 inputs. · Use the Setup > Edit menu for additional channel options, such as adding or deleting channels from memory, naming channels, and saving favorite channels in custom memory banks. Initial TV Setup, continued Change the Menu Language Choose to display on-screen menus in either English or Spanish (Español). Select a menu language in the Setup menu. With the Setup menu displayed, press to highlight the Language icon.

2. Press to highlight either English or Spanish. 3. Press MENU to return the highlight to the top row of icons. 1. Additional TV Setup Using the Setup Menu See chapter 5, "TV Menu Settings," to: · Edit channel options · Set the TV clock · Set the TV Timer · Select an Energy Mode to manage power use while the TV is off. Memorize Channels (Channel Scan) For ANT 1/MAIN and ANT 2/AUX Setting Up TV Inputs When You First Connect a Device This TV's Easy Connect™ Auto Input Sensing feature detects most connections automatically. When you first connect a device, the TV will: a. detect the connected device and automatically switch to it b. prompt you to identify the device type c.

prompt you to perform NetCommand set-up for the device d. repeat these steps for any additional newly detected devices The tables below state which connections trigger Auto Input Sensing. Auto Detection Active INPUT video jacks COMPONENT video jacks HDMI DIGITAL AUDIO OUT AVR AUDIO OUTPUT, right (red) analog audio jack only USB (USB photo port on side) If the device is powered off when connected, detection occurs when the device is next powered on. Note: For connection and setup of a personal computer, see the information later in this chapter. No Auto Detection ANT 1 and ANT 2 Start a channel scan (memorization) from the Setup menu.

Note: If using a CableCARD, the TV will automatically acquire the complete list of available channels from the service provider. Perform channel memorization for ANT 1 CableCARD service only if you need to reacquire the channel list. To start channel memorization 1. With the Setup menu displayed, press to highlight the Scan icon. 2.

Press to highlight an input selection based on your connections: Input Ant 1 Air Ant 2 Air Ant 1 Cable Ant 2 Cable Condition When connected to an indoor or outdoor antenna When connected to direct cable (no cable box) * * 2. TV Setup 15 Setting Up TV Inputs, continued See chapter 3, "TV Connections," for recommendations on connecting your devices. 2. Connect your devices to the TV, making note of which TV input is used for each device. The TV and the devices can be either on or off when connecting. 1. 4 desired. Program the TV's remote control or perform NetCommand IR "learning" to add functions. Press EXIT to close the Auto Input Sensing screen. The TV will then display the Auto Input Sensing screen for the next connection it finds.

More About Auto Input Sensing · · Choose a different name for each input. Antenna inputs (ANT 1/ANT 2) are never detected, although you can turn off unused antenna inputs in the Inputs > Name menu. You can change the device type at a later time using the Inputs > Name menu. Any "learned" NetCommand IR codes will be erased, however. If you wish to reset an HDMI input: 1. Disconnect the HDMI device. 2. Turn off the HDMI input in the Inputs > Name menu. 3. Connect the new device and the Auto Input Sensing screen will display.

If you want the device under NetCommand IR control, perform NetCommand "learning" for the new device. · · First select a device type. Next perform IR "learning." Auto Input Sensing screen for most device types. 3.

Power on the TV if not already on. When the TV detects a connection, the Auto Input Sensing screen opens. · Most Device Types: Specify the device type and then, if desired, proceed directly to NetCommand setup. a. In the Auto Input Sensing screen, press to move through the device list to select the device type connected to the input.

The device type you select here will appear in the Input Selection menu. b. You can perform NetCommand IR "learning" now or at a later time. To perform now, highlight the Learn icon and press ENTER. See chapter 6, "NetCommand" for more. A/V Receiver: The TV can detect audio connections on the DIGITAL AUDIO OUTPUT jack and the right (red) analog AVR AUDIO OUTPUT jack. Note for Analog A/V Receivers: When you disconnect an analog A/V receiver, be sure to change the Speakers setting manually to TV to hear sound from the TV speakers. You can perform "learning" for the A/V receiver now or at a later time. To perform now, highlight the Learn icon in the Auto Output Sensing screen and press ENTER. See chapter 6, "NetCommand" for more.

HDMI Devices Compatible with the TV's NetCommand for HDMI Feature: Compatible HDMI devices are often recognized automatically by the TV. The TV's remote control may operate some device functions without further setup. You can add more control functions if Controlling A/V Receiver Sound Volume Although the TV detects when you connect an A/V receiver, you must use one of the methods below to control sound volume from the A/V receiver. With a Standard TV Setup · Recommended Method: Program the TV's remote control for your A/V receiver and enable the Audio Lock feature. See Appendix D, "Programming the Remote Control." · Program the TV's remote control for your A/V receiver and set the TV remote's slide switch to the AUDIO position to control volume. Set the switch back to the TV position to control the TV. · Use the remote control that came with the A/V receiver. With NetCommand Control of an A/V Receiver · Set up NetCommand control of the A/V receiver's volume functions in the Inputs > AVR menu. The TV's remote will then automatically control A/V receiver volume.

See chapter 6, "NetCommand." · Use any of the methods described for the standard TV setup. · · 16 2. TV Setup Using a CableCARD The CableCARD™ system allows your TV to receive, decode, and unscramble the premium digital channels included in your cable TV subscription without the use of a cable box. The system is unidirectional, meaning that certain digital cable services, such as requests for video-on-demand and pay-per-view programs, a cable operator's enhanced program guide, and dataenhanced television services may require use of a settop box instead.

For more information, call your local cable operator. Note: CableCARD requires the TV's Fast Power On setting. If you insert a CableCARD, the TV will automatically override a Low Power setting and change to the Fast Power On setting.



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Displaying CableCARD Information To display information needed by your service provider to start cable service, press MENU and when the Main menu appears, press 9 9 9. In order to start cable service for this device, please contact your cable provider 1-800-xxx-xxxx CableCARD(tm): xxx-xxx-xxx-xxx-xxx-x Host: xxx-xxx-xxx-xxx-x Data: xxx-xxx-xxx-xx UnitAddress: xx-xxxxx-xxxxx-xxx Press EXIT to exit.

Sample CableCARD information screen. Write down the information before contacting your cable provider. Installing a CableCARD 1. Connect your primary incoming cable to ANTI/MAIN on the back of the TV. CableCARD Menu CableCARD menu Network Setup CableCARD(tm) Status CableCARD(tm) Pairing Conditional Access Sample CableCARD menu To display the CableCARD menu with links to applications from your cable provider: 1. While watching CableCARD, press INPUT to open the Input Selection menu. 2. With the CableCARD icon highlighted, press MENU to open the CableCARD menu. 3. Press to highlight a link, then press ENTER to access the linked page.

4. To redisplay the CableCARD menu, repeat steps 1 and 2. 5. Press EXIT to return to TV viewing. If there are technical problems with the CableCARD, an error screen automatically displays with information that may be needed by your cable provider when you call them for assistance. Moving Through Other CableCARD Screens In addition to CableCARD menus, other CableCARD application screens may display and require you to make additional selections. When using these screens on your Mitsubishi television: · Blue text denotes a function. Press ENTER to perform the function. · You cannot move backward through the links. To exit the CableCARD system, press EXIT.

The CANCEL key may not work with some CableCARD screens. Contact your cable provider if you have any problems with the application screen displays. Back of TV 2. Power on the TV. 3.

Open the access door and insert the CableCARD into the CableCARD slot with the top of the card oriented as shown in the diagram below. Location of CableCARD access door Orient the CableCARD as shown before inserting it into the slot. 4. Wait a few moments while the CableCARD initializes. A message will display on screen when initialization is complete.

2. TV Setup 17 Using the TV with a Personal Computer Connecting a Computer to the TV Use one of the connection methods listed below based on your computer's video output. Computer Video Output Digital DVI Video Connection DVI-to-HDMI cable or an HDMI cable with an HDMI-toDVI adapter Audio Connection Stereo audio cables 1. 2. IMPORTANT This TV accepts digital computer signals only. See the TV specifications in Appendix B to confirm that your computer signal is compatible with the TV. Connect the computer's digital signal output to one of the TV's HDMI jacks. See the connection diagrams for the method suited to your equipment. Connect the computer's audio output using one of these options: · For digital DVI signals, connect analog left/right audio to the TV's PC/DVI AUDIO INPUT jack. · For HDMI signals, no additional audio connection is required.

Power on the TV and computer. The TV will detect the connection and display the Auto Input Sensing screen. In the Auto Input Sensing screen, press to highlight PC in the list of device types. You can change the type at a later time using the Inputs > Name menu. Press EXIT to close the Auto Input Sensing screen. 3. Note: If the computer's audio output is a single mini jack, a mini audio-toRCA-male "Y" adapter cable is also required. HDMI HDMI-to-HDMI cable No additional audio connection is required. 4. 5.

6. DVI-to-HDMI connection with analog audio cables. Above: Connection to the TV back panel. Below: Connection to the TV side panel. Pr Pb HDMI connection to TV Back Panel #2.

An HDMI-toHDMI connection carries all video and audio on a single cable. Note: If your computer provides digital audio output (coaxial or digital), you can connect it directly to a digital A/V receiver and bypass the TV. 18 2. TV Setup Using the TV with a Personal Computer, continued Computer Video Adjustments 1. Power on the computer if it is not already on.

2. Select PC from the Input Selection menu. To do this, press INPUT to open the Input Selection menu, Tip: move the highlight to the PC icon, and press ENTER. Set the computer's screen saver to display a pattern 3. Working from the computer, change the resolution after several minutes of inactivity. This acts as a of the computer image. View the computer image reminder that the TV is powered on. on the TV and maximize the computer resolution while maintaining a suitable aspect ratio for the image. Computer Display Formats 4. Perform TV video adjustments.

Press VIDEO repeatedly to access Press the FORMAT key repeatedly to cycle through the TV displays availvideo-adjustment options. The folable for your computer's video signal. lowing additional adjustments are Computer Signal As Displayed on TV Screen available for computer video: Horiz Position (Horizontal Position). Manually adjust the horizontal position. Vert Position (Vertical Position). Manually adjust the vertical position. 5. Press FORMAT repeatedly to find the picture format best suited to the image. See the chart on this page showing how different computer resolutions are displayed on the TV. Original Format VGA 640 X 480 WVGA 848 X 480 SVGA 800 X 600 WSVGA 1064 X 600 Format XGA 1024 X 768 PC 720p 1280 X 720 WXGA 1360 X 768 SXGA 1280 X 1024 Standard Zoom 4X3 Standard 16 X 9 Standard Zoom Image Resolution Your Mitsubishi TV can display resolutions from standard VGA (640 x 480) through 1920 x 1080 signals at a refresh rate of 60 Hz.

The resolution of 1920 x 1080 is supported at refresh rates of 24, 30, and 60 Hz. See Appendix B in this book for more on compatible screen resolutions. In most cases, the computer will select the best resolution match to display on the TV. You can override this setting if you wish. Refer to your computer operating system's instructions for information on changing the screen resolution.

You may need to restart the computer for changes to take effect. Format PC 1080p 1920 X 1080 Standard 3 Picture Quality TV Connections 19 Before you Begin Auto Input Sensing The TV's Auto Input Sensing feature automatically recognizes most connections and prompts you to identify the type of device connected. See chapter 2, "TV Setup," for more on Auto Input Sensing. Connection Types Review the connection types available on your input devices and use connections that will give the best video quality. For example, choose HDMI over component video, and choose component video over S-video or composite video.

For best picture quality, route video signals directly from the input device to the TV; avoid routing video signals through an A/V receiver, for example. Sound Quality For best surround sound audio quality, route audio signals from the input device directly to your A/V receiver or sound system whenever possible.



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IMPORTANT Accessory items such as cables, adapters, splitters, or combiners required for TV connections are not supplied with the TV. These items are available at many electronics stores. Cable Management One cable tie and one cable clamp are supplied loose and one cable tie is already attached (see illustration below). Use the clamp and ties to keep cables properly organized and connected. This is especially important if you need to swivel the TV on its stand. Use the clamp and ties as needed to control cables used in your set-up. Pre-installed cable tie with rivet (attached to case at factory) Cable Clamp with Rivet Y S-VIDEO VIDEO L (MONO) Cable Tie with Rivet Pb Pr L (MONO) R L AV R OUT AUDIO R 1 INPUT 2 1 2 R R L DVI IN COMPONENT INPUTS (MONO) The TV can be swiveled up to 30 degrees left or right. Note: One cable clamp (round) and one cable tie (flat) are provided in the accessories bag.

IMPORTANT Be sure there is enough slack in the cables below the cable clamps/ties to allow the TV to swivel freely. Without enough cable slack, there is risk of damaging the cables and the TV. 20 3. TV Connections HDTV Cable Box or Satellite Receiver with Component Video If your cable box or satellite receiver has an HDMI output, use the connections for HDMI devices described later in this chapter. Required: RCA component video cables, left/right analog stereo audio cables. Connect the cable from the outside cable or satellite service to CABLE IN or SATELLITE IN on the cable box or satellite receiver. See your device's owner's guide for instructions and cable compatibility. 2. Connect RCA-type cables from the Y Pb Pr outputs on the HDTV cable box or satellite receiver to COMPONENT INPUTS on the TV back panel #1, matching the colored green, blue, and red connections. 3.

Connect left (white) and right (red) audio cables from the HDTV cable box or satellite receiver to COMPONENT INPUTS L (MONO) and R on the TV back panel #1. Note: To hear digital surround sound, connect the digital audio output from your cable box or satellite receiver directly to your digital A/V receiver.

1. Figure 1. Connecting an external HDTV receiver with component video connections 3.

TV Connections 21 HDMI Device (Cable Box, Satellite Receiver, DVD Player, or Other Device) Required: HDMI-to-HDMI cable. Connect an HDMI cable from the TV back panel #2 to the HDMI device output. HDMI devices provide video and audio through the single cable. Mitsubishi recommends you use category 2 HDMI cables to connect HDMI 1.3 source devices.

Highspeed category 2 cables bring you the full benefits of Deep Color and x.v.Color. See chapter 1, "TV Overview," for more on HDMI cable types. Standard Cable Box, Satellite Receiver, or Other Device with S-Video Required: S-Video cable and left/right analog stereo audio cables. 1. Connect the cable from the outside cable or satellite service to CABLE IN or SATELLITE IN on the cable box or satellite receiver. 2. Connect an S-Video cable from S-VIDEO OUT on the cable box or satellite receiver back panel to INPUT S-VIDEO on the TV back panel #1. 3.

Connect left (white) and right (red) audio cables from AUDIO OUT on the cable box or satellite receiver to INPUT AUDIO L (MONO) and R on the TV back panel #1. Note: Refer to the cable box or satellite receiver Owner's Guide for cable or dish antenna connections to the receiver. Figure 2. Connecting an HDMI device. Note: HDMI inputs are certified for proper interoperability with other products certified by Simplay™. IMPORTANT HDMI and Audio Signals - Digital Surround Sound: The TV's HDMI inputs can receive digital stereo audio signals only. To hear digital surround sound from an HDMI device, connect the device's digital audio output directly to your A/V receiver. See the Owner's Guides for those devices for instructions. A/V Receiver with HDMI. If your A/V receiver has an HDMI input, use the audio connections described in "A/V Receiver (Sound System)" instead.

Figure 3. Connecting a device with S-Video - 22 3. TV Connections Direct Cable (no cable box) (can be used with a CableCARD™) You must connect the incoming cable for your primary viewing source to ANT 1/MAIN, especially for CableCARD™ use. 1. Connect the primary incoming coaxial lead cable to ANT 1/MAIN on the TV back panel.

2. For an optional secondary antenna source, connect an antenna (or cable) to ANT 2/AUX. 3. If you have subscribed to a CableCARD service, Insert the CableCARD into the CableCARD slot. Antenna with a Single Lead A.

For an antenna with flat twin leads Required: 300-ohm-to-75-ohm transformer. A1. For an antenna with flat twin leads, connect the 300-ohm twin leads to the 300-ohm-to-75-ohm transformer. A2. Push the 75-ohm side of the transformer onto ANT 1 on the TV back panel. B. For cable or antenna with coaxial lead Connect the coaxial lead directly to ANT 1 on the TV back panel. Figure 4. Connection for direct cable service Antennas with Separate UHF and VHF Leads Required: UHF/VHF combiner 1. Connect the UHF and VHF antenna leads to the UHF/VHF combiner.

2. Push the combiner onto ANT 1/MAIN on the TV back panel. Mitsubishi strongly recommends you avoid using antennas with flat twin leads. Flat twin lead antenna wires are subject to interference which may adversely affect the performance of the TV. We recommend using coaxial antenna cable. Figure 6.

Connecting a Single Antenna Lead Figure 5. Connecting separate UHF and VHF Antennas 3. TV Connections 23 DVD Player with Component Video Component video cables and analog audio cables are required. 1.

Connect the component video cables from Y Pb Pr VIDEO OUT on the back of the DVD player to the COMPONENT INPUTS jacks on the TV back panel #1, matching the green, blue, and red colored connections. 2. Connect left (white) and right (red) stereo audio cables from AUDIO OUT on the back of the DVD player to COMPONENT INPUTS L (MONO) and R on the TV back panel #1. DVI Video Device (Cable Box, Satellite Receiver, DVD Player, or Other Device) Connect DVI devices (digital only) to the TV's HDMI input jacks. Analog stereo audio cables and a DVI-to-HDMI cable or DVI/HDMI adapter and HDMI cable are required.

1. Connect the DVI-to-HDMI cable (recommended) or HDMI cable with DVI/HDMI adapter from the DVI device's back panel to the TV's HDMI jack. If you are using a DVI/HDMI adapter, it is important to connect the adapter to the DVI device for best performance. Note: 2. Connect a set of audio cables from AUDIO OUT on the DVI device back panel to the PC/DVI AUDIO INPUT on the TV back panel.

Connect the red cable to the R jack and the white cable to the L (MONO) jack. Note: The HDMI connection supports copy protection (HDCP). Some devices require connecting to an analog input first, in order to view on-screen menus and to select DVI as the output. Please review your equipment instructions for DVI connectivity and compatibility.



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Figure 7. Connecting a DVD player with component video Note: To hear digital surround sound from your DVD player, connect the digital audio output from the DVD player directly to your digital A/V receiver. **IMPORTANT** See Appendix B for component video signal compatibility information. For digital audio connections to your A/V receiver, see your DVD player and A/V receiver Owner's Guides. Figure 8. Connecting a digital DVI device 24 3.

TV Connections VCR to an Antenna or Wall Outlet Cable Required: Two-way RF splitter, two coaxial cables, right and left analog audio cables, either S-video or video cable. 1. Connect the incoming cable or antenna to IN on the RF splitter. 2. Connect one coaxial cable from OUT on the RF splitter to ANTENNA IN on the VCR back panel. 3. Connect one coaxial cable from OUT on the RF splitter to ANT 1/MAIN on the TV back panel. This connection also allows you to use the TV Guide Daily feature. 4. To use the TV speakers with the VCR, connect left (white) and right (red) audio cables from AUDIO OUT on the VCR to INPUT AUDIO L (MONO) and AUDIO RIGHT on the TV back panel.

If your VCR is mono (non-stereo), connect only the white (left) cable. 5. Connect either an S-Video or composite video cable from VIDEO OUT on the VCR back panel to INPUT VIDEO or S-VIDEO on the TV back panel. Connect only one type of video cable; S-Video is recommended, if available. Figure 9.

Connecting a VCR to an Antenna or Wall Outlet Cable 3. TV Connections 25 VCR to a Cable Box (Audio & Video) Required: Two coaxial cables, right and left audio cables, S-Video or composite video cable, plus cables required to connect the TV to the cable box. 1. Connect the incoming coaxial cable to CABLE IN on the cable box. 2.

Connect one coaxial cable from OUT on the cable box to ANTENNA IN on the VCR back panel. 3. Connect the cable box outputs to the TV as shown in one of the options listed below. This connection allows the TV to receive the best available signal directly from the cable box. See the referenced figures in this chapter, "TV Connections." Option 1 (see Figure 1: Component video output to the TV's COMPONENT INPUTS Y Pb Pr jacks; analog stereo audio to the associated AUDIO jacks. OR Option 2 (see Figure 2): HDMI output to the TV's HDMI jack. OR Option 3 (see Figure 3): S-Video output to the TV's INPUT S-VIDEO jack; analog stereo audio to the associated AUDIO jacks. 4. To use the TV speakers with the VCR, connect left (white) and right (red) audio cables from AUDIO OUT on the VCR to INPUT AUDIO L (MONO) and AUDIO R on the TV back panel #1.

If your VCR is mono (nonstereo), connect only the white (left) cable. 5. Connect either an S-Video or composite video cable from VIDEO OUT on the VCR back panel to INPUT VIDEO or INPUT S-VIDEO on the TV back panel #1. Connect only one type of video cable. S-Video is recommended, if available. Note:

When using this connection configuration with the connections used in step 3, it is possible to view live cable programs through the VCR Device. For best picture quality, however, always view live cable programs directly from the cable box device. Figure 10. Connecting a VCR to a cable box 26 3. TV

Connections A/V Receiver (Sound System) Most setups require either a digital audio cable or analog stereo audio cables.

The TV makes all audio available in digital and analog formats: Analog audio coming into the TV is output in digital stereo format on the DIGITAL AUDIO OUTPUT jack (TV back panel #2). Digital incoming audio is available as analog output on the AVR AUDIO OUTPUT, L and R jacks (TV back panel #1). Usually, only one of the following connections is required: · To connect an analog A/V receiver Connect left (white) and right (red) audio cables from AVR AUDIO OUTPUT, L and R on the TV back panel #1 to the TV AUDIO INPUT on the A/V receiver. · To connect a digital A/V receiver with Dolby Digital surround sound and PCM audio support: Connect one end of the digital audio cable to DIGITAL AUDIO OUTPUT on the back of the TV (back panel #2).

Connect the other end to the COAXIAL DIGITAL INPUT on the back of the A/V receiver.

Important A/V Receivers with HDMI Inputs If your A/V receiver has an HDMI input, use one of the audio connections described here instead of an HDMI connection. Note: On rare occasions, an HDMI signal may be copy-protected and cannot be output from the TV as a digital signal. To hear these copyprotected signals through the A/V receiver, use connections for analog A/V receivers. Check the A/V receiver's Owner's Guide for information concerning use of the digital input and switching between digital sound and analog stereo sound from the TV. Older Cable Box Required: One coaxial cable.

Note: This connection is not recommended. The other connections described in this chapter provide better quality audio and video to the TV and allow NetCommand to work with the cable box. 1. Connect the incoming cable to IN on cable box. 2. Connect one coaxial cable from OUT on the cable box to ANT 1/MAIN on the TV back panel. Figure 11. Connecting the TV to an A/V receiver Figure 12. Connecting an older cable box 3. TV Connections 27 Camcorder Inputs on the side of the TV offer the most convenient way to connect a camcorder.

Jacks on the TV side panel offer the most convenient way to connect a camcorder **Component Y Pb Pr Video Connection Required:** Analog stereo audio and component video cables supplied with the camcorder. 1. Connect component video cables from VIDEO OUT on the camcorder to one of the TV's sets of COMPONENT INPUTS jacks (TV Back Panel #1 or TV Side Panel). 2. Connect left (white) and right (red) audio cables from AUDIO OUT on the camcorder to COMPONENT 3, L and R jacks on the TV side panel. **Composite Video Connection Required:** Analog stereo audio and composite video cables supplied with the camcorder. 1. Connect a composite video cable from VIDEO OUT on the camcorder to INPUT 3/VIDEO or Y/VIDEO on the TV. 2. Connect left (white) and right (red) audio cables from AUDIO OUT on the camcorder to INPUT 3/ AUDIO L and AUDIO R on the TV.

Figure 14. Component video connections for a camcorder **HDMI Connection Required:** HDMI cable supplied with the camcorder. Connect the camcorder to the TV's HDMI 4 jack on the side panel. Note: Three additional HDMI inputs are located on Back Panel #2. Figure 13.

Composite video connections for a camcorder Figure 15. **HDMI connection for a camcorder.** 28 4 TV Operation and Features **Sleep Timer** The Sleep Timer turns the TV off after the length of time you set. **Setting the Sleep Timer** 1. Press SLEEP on the remote control.

An on-screen status display will appear and show the number of minutes before automatic shut-off. 2. Press SLEEP additional times to increase the time in 30-minute increments up to the maximum of 120 minutes. 3. Press EXIT or wait five seconds without pressing any keys for the message to disappear. 4. Press SLEEP to view the time remaining before the sleep timer turns off the TV.



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