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You can read the recommendations in the user guide, the technical guide or the installation guide for MITSUBISHI WD-65833. You'll find the answers to all your questions on the MITSUBISHI WD-65833 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MITSUBISHI WD-65833
User guide MITSUBISHI WD-65833
Operating instructions MITSUBISHI WD-65833
Instructions for use MITSUBISHI WD-65833
Instruction manual MITSUBISHI WD-65833



DLP® HIGH-DEFINITION TELEVISION

MODELS

WD-57833

WD-65833

WD-73833

OWNER'S GUIDE

- For questions:
 - Visit our website at www.mitsubishi-tv.com.
 - E-mail us at MDEAservice@midea.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, lamp cartridges, or Owner's Guides, visit our website at www.mitsuparts.com or call 800-553-7278.
- Guidelines for setting up and using your new widescreen TV start on page 11.



x.v.Color



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....	<i>Standard Cable Box, Satellite Receiver, or Other Device with S-Video</i>
.....
....	<i>Wall Outlet Cable (no cable box)</i> .
.....
.....	<i>Antenna with a Single Lead</i>
.....
..	<i>Antennas with Separate UHF and VHF Leads</i>
	<i>DVD Player with Component Video</i>
.....	<i>DVI Video Device (Cable Box, Satellite Receiver, DVD Player, or Other Device)</i>
.....
.....	<i>VCR to an Antenna or Wall Outlet Cable</i> .
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	<i>VCR to a Cable Box (Audio & Video)</i>
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Clean using a vacuum cleaner with brush attachment. Glossy Surfaces Use the soft cleaning cloths supplied with the TV. · Clean the cloth before each use by shaking or brushing to remove any residual dirt particles. · Gently wipe down the glossy surfaces of your TV with the soft cloth.

Do not apply pressure while wiping. · If necessary, lightly dampen the soft cloth with water. Do not use chemical or abrasive cleaners. · Wash the soft cloth by hand or machine. Use only mild soap. Top and Sides of the TV (non-glossy surfaces) · 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.

Operating Notes Internal Fans Internal cooling fans maintain proper operating temperatures inside the TV. It is normal to hear the fans when you first turn on the TV, during quiet scenes while viewing the TV, and for a short time after turning off the TV. TV Guide On Screen Access Requirements TV Guide On Screen® listings are not provided by Mitsubishi Digital Electronics America, Inc. Operation of TV Guide On Screen requires over-the-air or cable access to stations carrying TV Guide On Screen program listings. If listings are not available in your area or become discontinued by the local provider, TV Guide On Screen will not operate.

TV Guide On Screen does not provide program listings for satellite TV systems. · Screen · Follow the instructions for the top and sides, wiping · · gently in an up and down motion. Clean the entire screen evenly, not just sections of the screen. Do not allow liquid to drip down the screen, as some liquid may enter the TV through the gap between the screen and screen frame. You may purchase Mitsubishi Screen Cleaner, part number CLEANER-VSS, by calling (800) 553-7278.

Lamp Replacement For lamp-replacement instructions, see Appendix B. To Order a Replacement Lamp Under Warranty Call (800) 553-7278. Please have model number, serial number, and TV purchase date available. Important: All lamps replaced under warranty must be returned to Mitsubishi where they will be inspected for defect verification. To Purchase a Replacement Lamp After Warranty Visit our website at www.mitsuparts.com or call (800) 553-7278. Order new lamp part number 915P061010. · General Cleaning Precautions · · · DONOT allow liquid to enter the TV through the ventilation slots or any crevice. DONOT use any strong or abrasive cleaners, as these can scratch the surfaces.

DONOT use any cleaners containing ammonia, bleach, alcohol, benzene, or thinners, as these can dull the surfaces. DONOT spray liquids or cleaners directly on the TV's surfaces. DONOT scrub or rub the TV harshly. Wipe it gently. 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. Non-authorized 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 all safety and operating instructions before operating the TV. Retain the safety and operating instructions for future reference. Follow all operating and use instructions. 2. Heed Warnings.

Adhere to all warnings on the appliance and in the operating instructions. 3. Cleaning.

Unplug the TV from the wall outlet before cleaning. Do not use liquid, abrasive or aerosol cleaners.

Cleaners can permanently damage the cabinet and screen. Use a lightly dampened cloth for cleaning. 4. Attachments and Equipment.

Never add any attachments and/or equipment without approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury. 5.

Water and Moisture. Do not use the TV where contact with or immersion in water is possible. Do not use near a bath 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 has 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 products 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. 3. 4. 5. 6.

7. 8. Television Overview High-Definition Video Inputs Component Video Inputs. Also called Y/Pb/Pr inputs, these inputs receive standard analog video format 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 HDMI 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, high-definition connections for maximum flexibility in your choice of home theater products. The HDMI inputs are HDCP copy-protection compatible. IEEE 1394 Digital Interfaces that receive and send compressed digital signals, including high definition signals, along with digital audio and control signals between end devices such as the TV, a digital cable box, an A/V disc, and a D-VHS digital video recorder. 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 TV Guide On Screen® Interactive Program Guide User's Manual

9. Cleaning Cloth for Glossy Surfaces (see instructions under "Cleaning Recommendations"). AA AA 2 1 7 9 Special Features of Your TV Your new high-definition wide screen television has many special features that make it the perfect center of your home entertainment system, including: 1080p High-Definition DLP Display System Your Mitsubishi HDTV uses Texas Instruments Digital Light Processing TM technology for rear-projection TVs to create the picture you see on screen. All images are displayed at 1080p. The TV uses Plush 1080p® to convert lower-resolution signals to 1080p for display. The TV can also accept 1080p original signals and maintain them at 1080p through all processing until displayed. Easy Connect Auto Input Sensing

Easy Connect TMAuto 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.

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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 new video game console support this widescreen format. 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 non-scrambled digital cable broadcasts, including non-scrambled HDTV cable programming. 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 Guide On Screen® Interactive Program Guide System A night-day on-screen program guide for cable and over-the-air reception. This subscription-free guide system lists regular, digital, and high-definition programming. Note that when the system is first setup, it may take up to 24 hours to begin to receive TV program listings and then it may take up to one week to receive all eight days of TV program listings. TV Front Panel Control Panel Buttons on the front control panel duplicate Flip down cover to commonly used key on use buttons and the remote control.

The inputs on the front upper label show control panel functions when no TV menus are displayed; the lower labels indicate functions when TV menus are displayed or when a special

function has been activated. See chapter 4, "TV Operation and Features," for the functions of these buttons. Front Inputs ·

INPUT/COMPONENT 3 is an easily accessible set of input jacks for a camcorder, game, or other audio/video device. A USB photo port lets you view JPEG images. A convenient fourth HDMI input is provided. If connecting a DVI device to the front HDMI jack, connect an analog audio cable to the INPUT 3 L and R AUDIO jacks. I N P U T 3 · L-AUDIO-R VIDEO/Y Pb Pr USB DVI AUDIO HDMI 4 VOL ADJ CH ADJ FORMAT MENU GUIDE INPUT SYSTEM RESET ENTER MENU CANCEL Front inputs. When using a standard video device, connect the single (yellow) video cable to the VIDEO/Y jack. Front Panel Indicators and Power Button 1.

POWER button. Turns TV on and off; works the same as the POWER key on the remote control. 2. POWER/TIMER indicator. Lit when TV is powered on; flashes when TV is powered off and the auto-on TV timer is set; blinks rapidly when TV is first plugged into an AC outlet.

3. STATUS indicator. Off during normal TV operation. 4. LAMP indicator shows lamp condition (usually off during normal TV operation). See the next page for more on front-panel indicators. Indicator LED lights and POWER button Front Control Panel. Buttons on the front panel duplicate some keys on the remote control. System Reset Button If the TV fails to respond to the remote control, front panel controls, or will not power on/off, press the SYSTEM RESET button on the front panel. The green LED on the front panel will flash quickly for about one minute. When the green LED stops flashing, you may turn on the TV. Recent setting changes you made before using SYSTEM RESET may be lost. 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 front panel at the same time. · To reset the defaults for individual inputs, use the Reset selection on the AV menu. 4 3 2 1 8 1.

Television Overview Front-Panel Indicators Off Steady On Slow Blinking Fast Blinking POWER/TIMER Indicator LED Color TV Condition None Green Green Green TV is powered off. TV is powered on. 1. TV just plugged into AC outlet. Additional Information Normal operation. Normal operation. TV powered off, auto-timer is set. Normal operation. TV can be turned on at any time. Wait approximately one minute for blinking to stop before returning 2.

AC just restored after power failure. on. Normal operation. 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 Yellow Normal TV on or standby condition.

TV is too hot. Additional Information Normal operation. The TV will display a warning message and shut off if it overheats. · Ambient room temperature may be too high. Turn off the TV and wait until the room temperature drops. · Clear blocked air vents. Ensure at least a four-inch clearance on all sides of the TV. · Clean the lamp-cartridge air filter. See Appendix B. Turn off the TV and unplug these from the AC power source.

Wait one minute and then plug these 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. Red TV may require service. LAMP Indicator LED Color TV Condition None Green Normal TV on or standby condition. TV just powered off and lamp is cooling. 1.

Lamp access door is open or not secure. 2. No lamp installed. Red Lamp no longer illuminates and has reached the end of the lamp life. Additional Information Normal operation.

Start to blink 30 seconds after turning off TV. TV can be turned back on before blinking starts or after blinking stops, but not while the indicator is blinking. Normal operation. TV will not operate until lamp access door is secure. See Appendix B for installation information.

TV will not operate without a lamp. See Appendix B for installation information. Replace the lamp. The TV will not operate when the lamp no longer illuminates. See Appendix B for installation information. Yellow 1. Television Overview 9 TV Back Panel 12 11 10 Y Pb Pr (480i/480p/720p/1080i) 9 Y COMPONENT 1 Pb Pr L (MONO)- AUDIO - R COMPONENT 2 3D GLASSES EMITTER RECORD OUTPUT VIDEO AUDIO LEFT AUDIO RIGHT DVI / PC AUDIO INPUT AVR AUDIO OUTPUT INPUT 1 IEEE 1394 INPUT 2 S-VIDEO VIDEO L (MONO) - AUDIO - R ANT 2 / AUX ANT 1 / MAIN DIGITAL AUDIO OUTPUT RS-232C IR EMITTER NetCommand HDMI 1 (LEFT) , 2 (MIDDLE) , 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA / 720p / 1080p 1 2 3 4 5 6 7 8 1. ANT 1/MAIN, ANT 2/AUX (Antenna) If you are reconnecting an antenna or direct cable without a cable box, connect the main antenna or cable source to ANT 1/MAIN. Use ANT 2/AUX for a second 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.

4. 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. 5. IEEE 1394 (also known as Firewire®) These jacks allow the TV to connect to external IEEE 1394 digital products by means of a single cable. See chapter 6, "NetCommand" for information regarding IEEE 1394 connections and recording. 2. DIGITAL AUDIO OUTPUT This output sends Dolby Digital or PCM digital audio to your digital A/V surround sound receiver.



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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. 6.

INPUT (audio and video; front and rear) INPUT jacks 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. The INPUT group on the back of the TV 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 front of the TV for convenience.

3.

RS-232C Use the RS-232C interface to receive control signals from compatible home-theater control devices. 10 1. Television Overview TV Back Panel, continued 7.

HDMI M Inputs The HDMI 1.3 (High Definition Multimedia Interface) supports uncompressed standard and high-definition digital video formats and PCM digital stereo audio format.

Use the HDMI input 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. 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 inputs. To connect a DVI input, use an HDMI-to-DVI adapter or cable plus analog audio cables. Connect the analog audio cable to the DVI/PC AUDIO INPUT on the TV to receive left and right stereo audio from your 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 A 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™. 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. 9.

DVI/PC AUDIO INPUT Use the DVI/PC 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 your computer or other DVI device to the TV. 10. COMPONENT (audio and video; front and rear) 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. A third set of component jacks is located on the front of the TV and shares the left/right audio jacks and VIDEO/Y jack with the INPUT 3 composite input.

See Appendix A specifications for signal compatibility. 11. RECORD OUTPUT Use these composite video and left/right audio jacks to send analog video and audio signals to an external recording device such as a VCR. To make recordings from this output, the TV must be in normal full screen mode rather than in Split Screen mode. · You can watch another device while recording, but not another channel. · From this output you can record audio and video signals from ANT 1, ANT 2, INPUT 1-3, and IEEE 1394 devices. · Digital signals from ANT 1, ANT 2, and IEEE 1394 devices are converted to analog video and audio signals. · Some signals cannot be recorded because of copy-protection flags in the content. 12. 3D GLASSES EMITTER The 3D GLASSES EMITTER jack is in place for future gaming devices equipped with FX gaming 3D and dual view features.

Use this jack to connect a special IR emitter (supplied with the 3D glasses) that will synchronize your 3D glasses with the screen display. 8. AVR AUDIO OUTPUT Use AVR AUDIO OUTPUT 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 A/V receiver or stereo system, this is the only audio connection needed between it and the TV. 2 Getting Started 11 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."

· Channel View™/TV Guide On Screen®. Press GUIDE to see channel listings for programs on ANT 1 and ANT 2. To override Channel View and use the TV Guide On Screen 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 Net Command-controlled devices, see "Using Net Command." 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 as well as shortened lamp life. · Avoid locations where light may reflect off the screen. · See the stand requirements under "Important Information About Your TV." 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 green LED on the front of the TV will start blinking rapidly. After the green 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, "Net Command," to perform Net Command 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 a custom list 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 On Screen. Setup and enable the TV Guide On Screen system. See the Inputs > Guide menu. 12 · 2. TV Setup Parental Locks. Restrict TV viewing by program rating, by channel, or by time of day.

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You can also disable the front-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 adjustment to get the best picture for your viewing conditions. See "AV Menu." When You First Power On the TV 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. · 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 Net Command control, see Appendix D, "Programming the Remote Control."

"TV Care - Lamp Cartridge. When the lamp cartridge needs replacement, replace the lamp yourself and save the cost of a service call. See Appendix B for instructions. General Cleaning. See the cleaning recommendations under "Important Information About Your TV." When you first power on the TV, the Welcome screen lets you change the menu language. · 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. Assistance · For troubleshooting, service, and product support, see Appendix E. For warranty information, see the TV warranty in the back of this book. Installing the Remote Control Batteries 1. 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 Setup menu highlighted in TV Main menu 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 button. Alternatively, press the POWER button on the front panel of the TV. If You Turn Off the TV by Mistake 1. Press POWER again within about 30 seconds, while the lamp is still hot, to have the TV come back on immediately. 2.

If the LAMP indicator starts blinking (about 30 seconds after you shut off power), wait about one minute for the LAMP indicator to stop blinking and press POWER to turn the TV on again. 2 The remote control requires two AA alkaline batteries. 2. TV Setup 13 Initial TV Setup, continued Change the Menu Language Choose to display on-screen menus in either English or Spanish (Español). 5.

When memorization is complete you can: · Press MENU once to return to the top row of icons. · 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. Select a menu language in the Setup menu. 1. 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. 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. · Select a lamp brightness mode Memorize Channels For ANT 1/MAIN and ANT 2/AUX 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) Setting Up TV Inputs When You First Connect a Device This TV's Easy Connect TMA Auto Input Sensing feature detects most connections automatically. When you first connect a device, the TV will: a. detect the connected device b. prompt you to identify the device type c. promptly auto perform Net Command set-up for the device, if available d. repeat these steps for any additional newly detected devices

The tables below state which connection triggers Auto Input Sensing. Auto Detection Active INPUT video jacks COMPONENT video jacks HDMI DIGITAL AUDIO OUT AVR AUDIO OUTPUT (analog) USB (USB photo port on front) No Auto Detection ANT 1 and ANT 2 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. * * Start channel memorization from the Setup menu. 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.

14 2. TV Setup perform Net Command IR "learning" to add functions. 4 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. Setting Up TV Inputs, continued 1. See chapter 3, "TV Connections," for recommendations on connecting your devices. 2. Connect your devices to the TV, making note of which TV inputs are used for each device. The TV and the devices can be either on or off when connecting. 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" Net Command IR codes will be erased, however. If you wish to change devices on 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 Net Command IR control, perform Net Command "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 Net Command 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 Net Command IR "learning" now or at a later time. To perform now, highlight the Learn icon and press ENTER. See chapter 6, "Net Command" for more. A/V Receiver: The TV can detect audio connections on the DIGITAL AUDIO OUT 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, "Net Command" for more. HDMI Devices Compatible with the TV's Net Command 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 desired. Program the TV's remote control or 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.



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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 Net Command Control of an A/V Receiver · Setup Net Command 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, "Net Command." · Use any of the methods described for the standard TV setup. 2. TV Setup 15 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 3D GLASSES EMITTER COMPONENT 1 COMPONENT 2 Y Pb Pr (480i/480p/720p/1080i) Y Pb Pr L (MONO)- AUDIO - R Video Connection ANT 2 / AUX Audio Connection AUDIO RECORD OUTPUT VIDEO LEFT DVI / PC AUDIO INPUT AVR AUDIO OUTPUT AUDIORIGHT ANT 1 / MAIN DVI-to-HDMI cable Stereo audio or an HDMI cable cables with an HDMI-to-DVI adapter IEEE 1394 DIGITAL AUDIO OUTPUT RS-232C IR EMITTER Net Command INPUT 1 INPUT 2 S-VIDEO VIDEO L (MONO) - AUDIO - R Note: If the computer's audio output is a single mini jack, a mini audio-to-RCA-male "Y" adapter cable is also required.

HDMI HDMI-to-HDMI cable No additional audio connection is required. 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, HDMI SXGA / 720p / 1080p IMPORTANT This TV accepts digital computer signals only. 1. See the TV specifications in Appendix A to confirm that your computer signal is compatible with the TV. 2. Connect the computer's digital signal output to one of the TV's HDMI jacks. See the connection diagrams for the methods suited to your equipment. 3. Connect the computer's audio output using one of these options: · For digital DVI signals, connect an analog left/right audio to the TV's DVI/PC AUDIO INPUT jack. · For HDMI signals, no additional audio connection is required. 4. Power on the TV and computer. The TV will detect the connection and display the Auto Input Sensing screen. 3D GLASSES EMITTER A DVI connection from a personal computer requires a separate audio connection. Computer connected to the TV back panel (above) and TV front panel (below).

L-AUDIO-R VIDEO/Y Pb Pr I N P U T 3 USB DVI AUDIO HDMI 4 Y Pb Pr (480i/480p/720p/1080i) Y COMPONENT 1 Pb Pr L (MONO)- AUDIO - R COMPONENT 2 AUDIO- LEFT RECORD OUTPUT VIDEO DVI / PC AUDIO INPUT AVR AUDIO OUTPUT AUDIORIGHT 5. 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. ANT 2 / AUX ANT 1 / MAIN DIGITAL AUDIO OUTPUT RS-232C IR EMITTER Net Command INPUT 1 IEEE 1394 INPUT 2 S-VIDEO VIDEO L (MONO) - AUDIO - R 6. Press EXIT to close the Auto Input Sensing screen. HDMI 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA / 720p / 1080p 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. An HDMI-to-HDMI connection carries all video and audio on a single cable. 16 2. TV Setup Using the TV with a Personal Computer Computer Video Adjustments Tip: Set the computer's screen saver to display a pattern after several minutes of inactivity. This acts as a reminder that the TV is powered on and the lamp is in use. The lamp is in use whenever the TV is powered on, even if the screen appears dark. 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, move the highlight to the PC icon, and press ENTER. 3. Working from the computer, change the resolution of the computer image. View the computer image on the TV and maximize the computer resolution while maintaining a suitable aspect ratio for the image. 4. Perform TV video adjustments. Press Computer Display Formats VIDEO repeatedly to access video. Press the FORMAT key repeatedly to cycle through the TV display adjustment options. The following are available for your computer's video signal. additional adjustments are 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.

Computer Signal Original Format VGA 640X480 WVGA 848X480 SVGA 800X600 WSVGA 1064X600 Original Format XGA 1024X768 PC 720p 1280X720 WXGA 1360X768 SXGA 1280X1024 Original Format PC 1080p 1920X1080 Standard Reduce Standard Zoom As Displayed on TV Screen 4X3 Standard 16 X 9 Standard Zoom Distortion in Computer Images Computer images may show distortion when viewed on the TV, e.g., lines that should be straight may appear slightly curved. Image Resolution Your Mitsubishi TV can display resolutions from standard VGA (640x480) through 1920x1080 signals at a refresh rate of 60 Hz. The resolution of 1920x1080 is supported at refresh rates of 24, 30, and 60 Hz. See Appendix A 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.

3 Picture Quality TV Connections 17 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 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.

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. 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.

1. 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.



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2. Connect RCA-type cables from the Y Pb Pr outputs on the HDTV cable box or satellite receiver to COMPONENT on the TV backpanel, 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 AUDIO L (MONO) and R on the TV backpanel. 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. ANT 2 / AUX ANT 1 / MAIN DIGITAL AUDIO OUTPUT Y Pb Pr (480i/480p/720p/1080i) Y COMPONENT 1 Pb Pr L (MONO)- AUDIO - R COMPONENT 2 3D GLASSES EMITTER RECORD OUTPUT VIDEO AUDIO LEFT AUDIO RIGHT DVI / PC AUDIO INPUT AVR AUDIO OUTPUT INPUT 1 Figure 1. Connecting an external HDTV receiver with component video connections IEEE 1394 INPUT 2 RS-232C IR EMITTER NetCommand HDMI 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA / 720p / 1080p S-VIDEO VIDEO L (MONO) - AUDIO - R 18 3.

TV Connections HDMI Device (Cable Box, Satellite Receiver, DVD Player, or Other Device) Required: HDMI-to-HDMI cable. Connect an HDMI cable from the TV backpanel to the HDMI device output. HDMI devices provide video and audio through the single cable.

Mitsubishi recommends you use category 2 HDMI cable to connect HDMI 1.3 source devices. High speed category 2 cables bring you the full benefits of Deep Color and xv.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 backpanel to INPUT S-VIDEO on the TV backpanel. 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 backpanel. Note: Refer to the cable box or satellite receiver Owner's Guide for cable or dish antenna connection to the receiver. Y Pb Pr (480i/480p/720p/1080i) Y COMPONENT 1 Pb Pr L (MONO)- AUDIO - R COMPONENT 2 3D GLASSES EMITTER RECORD OUTPUT VIDEO AUDIO LEFT AUDIO RIGHT DVI / PC AUDIO INPUT AVR AUDIO OUTPUT INPUT 1 IEEE 1394 DIGITAL AUDIO OUTPUT RS-232C IR EMITTER NetCommand INPUT 2 S-VIDEO VIDEO L (MONO) - AUDIO - R 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA / 720p / 1080p HDMI 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 · 3. TV Connections 19 Wall Outlet Cable (no cable box) It is very important to connect the incoming cable for your primary viewing source to ANT 1/MAIN. 1. Connect the primary incoming coaxial lead cable to ANT 1/MAIN on the TV backpanel.

2. For an optional secondary antenna source, connect an antenna (or cable) to ANT 2/AUX. 3D GLASSES EMITTER 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 backpanel. Y Pb Pr (480i/480p/720p/1080i) Y Pb Pr L (MONO)- AUDIO - R COMPONENT 1 COMPONENT 2 RECORD OUTPUT VIDEO AUDIO L (MONO) AUDIO RIGHT DVI / PC AUDIO INPUT AVR AUDIO OUTPUT 3D GLASSES EMITTER INPUT 1 ANT 2 / AUX ANT 1 / MAIN IEEE 1394 DIGITAL AUDIO OUTPUT RS-232C IR EMITTER NetCommand INPUT 2 S-VIDEO VIDEO L (MONO) - AUDIO - R 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA HDMI ANT 2 / AUX ANT 1 / MAIN DIGITAL AUDIO OUTPUT RS-232C IR EMITTER NetCommand Figure 4. Wall Outlet Cable 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 lead to the 300-ohm-to-75-ohm transformer. A2. Push the 75-ohm side of the transformer onto ANT 1 on the TV backpanel. B. For cable or antenna with coaxial lead Connect the coaxial lead directly to ANT 1 on the TV backpanel.

Figure 5. Connecting separate UHF and VHF Antennas 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. Y Pb Pr (480i/480p/720p/1080i) Y COMPONENT 1 Pb Pr L (MONO)- AUDIO - R COMPONENT 2 3D GLASSES EMITTER RECORD OUTPUT VIDEO AUDIO L (MONO) AUDIO RIGHT DVI / PC AUDIO INPUT AVR AUDIO OUTPUT INPUT 1 ANT 2 / AUX ANT 1 / MAIN IEEE 1394 DIGITAL AUDIO OUTPUT RS-232C IR EMITTER NetCommand INPUT 2 S-VIDEO VIDEO L (MONO) - AUDIO - R HDMI 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA Figure 6.

Connecting a Single Antenna Lead 20 3. TV Connections 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 jacks on the TV backpanel, 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 AUDIO L (MONO) and AUDIO R on the TV backpanel. 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 backpanel to the TV's HDMI jack.

Note: If you are using a DVI/HDMI adapter, it is important to connect the adapter to the DVI device for best performance. 2. Connect a set of audio cables from AUDIO OUT on the DVI device backpanel to the DVI/PC AUDIO INPUT on the TV backpanel.



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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. Y Pb Pr (480i/480p/720p/1080i) Y Y Pb Pr (480i/480p/720p/1080i) COMPONENT 1 Pb Pr L (MONO)- AUDIO - R Y COMPONENT 1 Pb Pr L (MONO)- AUDIO - R COMPONENT 2 COMPONENT 2 3D GLASSES EMITTER RECORD OUTPUT VIDEO AUDIO LEFT AUDIO RIGHT 3D GLASSES EMITTER RECORD OUTPUT VIDEO DVI / PC AUDIO INPUT AVR AUDIO OUTPUT AUDIO LEFT AUDIO RIGHT DVI / PC AUDIO INPUT ANT 2 / AVR AUX AUDIO OUTPUT IEEE 1394 DIGITAL AUDIO OUTPUT RS-232C IR EMITTER NetCommand INPUT 1 INPUT 1 INPUT 2 S-VIDEO VIDEO L (MONO) - AUDIO - R IEEE 1394 L T RS-232C INPUT 2 S-VIDEO VIDEO ANT 1 / MAIN Figure 7.

Connecting a DVD player with component video IR EMITTER NetCommand HDMI 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA / 720p / 1080p L (MONO) - AUDIO - R 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA / 720p / 1080p HDMI 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 A 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 3. TV Connections 21 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 I on the RF splitter. 2. Connect one coaxial cable from OUT on the RF splitter to ANTENNA I 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 On Screen and Split Screen features. 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. Optional Perform these two additional steps: · Use the TV Guide On Screen recording feature · Record high-definition digital channels converted to analog standard-definition video and analog stereo audio 6. Connect left (white) and right (red) audio cables from AUDIO I on the VCR to RECORD OUTPUT AUDIO LEFT and AUDIO RIGHT on the TV back panel. If your VCR is mono (non-stereo), connect only the white (left) cable.

7. Connect a composite video cable from VIDEO I on the VCR back panel to RECORD OUTPUT VIDEO on the TV back panel. Y Pb Pr (480i/480p/720p/1080i) Y COMPONENT 1 Pb Pr L (MONO)- AUDIO - R COMPONENT 2 3D GLASSES EMITTER RECORD OUTPUT VIDEO AUDIO LEFT AUDIO RIGHT DVI / PC AUDIO INPUT AVR AUDIO OUTPUT INPUT 1 ANT 2 / AUX ANT 1 / MAIN IEEE 1394 DIGITAL AUDIO OUTPUT RS-232C IR EMITTER NetCommand INPUT 2 S-VIDEO VIDEO L (MONO) - AUDIO - R HDMI 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA / 720p / 1080p Figure 9. Connecting a VCR to an Antenna or Wall Outlet Cable 22 3. TV Connections VCR to a Cable Box (Audio & Video) Required: Two-way RF splitter, three coaxial cables, right 6.

To use the TV speakers with the VCR, connect left (white) and right (red) audio cables from AUDIO OUT and left audio cables, S-Video or composite video cable, plus component or S-Video cables and audio cables on the VCR back panel to INPUT AUDIO L (MONO) and required to connect the TV to the cable box.

On the TV back panel. If your VCR is mono (non-stereo), connect only the white (left) cable. 1. Connect the incoming cable to I on the RF splitter.

7. Connect either an S-Video or composite video cable 2. Connect one coaxial cable from OUT on the RF split from VIDEO OUT on the VCR back panel to INPUT / tert to CABLE I on the cable box. VIDEO or INPUT S-VIDEO on the TV back panel. 3.

Connect one coaxial cable from OUT on the RF Connect only one type of video cable. S-Video is splitter to ANT 1/MAIN on the TV back panel. This recommended, if available. connection also allows you to use the TV Guide On Optional Screen and Split Screen features. 8.

To use the TV Guide On Screen recording feature to 4. Connect one coaxial cable from OUT on the cable record to the VCR from ANT 1 or ANT 2: box to ANTENNA I on the VCR back panel. a. Connect left (white) and right (red) audio cables 5. Connect the cable box output to the TV as shown from AUDIO I on the VCR back panel to in one of the options listed below. This connection RECORD OUTPUT / AUDIO LEFT and AUDIO RIGHT allows the TV to receive the best available signal on the TV back panel. directly from the cable box. See thereferenced b. Connect a video cable from VIDEO I on the VCR figures in this chapter, "TV Connections." back panel to RECORD OUTPUT VIDEO on the TV · Figure 1: Component video output to the TV's back panel.

COMPONENT Y Pb Pr jacks; analog stereo audio Note: When using this connection configuration with the content to the associated AUDIO jacks.

nections used in step 5, it is possible to view live cable · Figure 2: HDMI output to the TV's HDMI jack. program through the VCR device. For best picture · Figure 3: S-Video output to the TV's quality always view live cable programs directly from the INPUT S-VIDEO jack; analog stereo audio to the

TV input connected to the cable box device. associated AUDIO jacks. Y Pb Pr (480i/480p/720p/1080i) Y Pb Pr L (MONO)- AUDIO - R COMPONENT 1 COMPONENT 2 3D GLASSES EMITTER RECORD OUTPUT VIDEO AUDIO LEFT AUDIO RIGHT DVI / PC AUDIO INPUT AVR AUDIO OUTPUT INPUT I ANT 2 / AUX ANT 1 / MAIN IEEE 1394 DIGITAL AUDIO OUTPUT RS-232C IR EMITTER NetCommand INPUT 2 S-VIDEO VIDEO L (MONO) - AUDIO - R HDMI 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA / 720p / 1080p Figure 10. Connecting a VCR to a cable box 3. TV Connections 23 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 available as output in digital stereo format on the DIGITAL AUDIO OUT jack. Digital incoming audio is available as analog output on the AVR AUDIO OUTPUT / AUDIO L (MONO) and AUDIO R jacks.

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 / AUDIO L (MONO) and AUDIO R on the TV back panel 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 OUT on the back of the TV.

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



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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 copy-protected digital 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 I Noncable box. 2. Connect one coaxial cable from OUT on the cable box to ANT 1 / MAIN on the TV back panel. Y COMPONENT 1 COMPONENT 2 Y Pb Pr (480i/480p/720p/1080i) Pb Pr L (MONO)- AUDIO 3D GLASSES EMITTER RECORD OUTPUT VIDEO AUDIO LEFT AUDIORIGHT INPUT 1 IEEE 1394 ANT 2 / AUX ANT 1 / MAIN INPUT 2 S-VIDEO VIDEO DIGITAL AUDIO OUTPUT RS-232C IR EMITTER NetCommand HDMI 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA / 720p / 1080p L (MONO) - AUDIO Y Pb Pr (480i/480p/720p/1080i) Y COMPONENT 1 Pb Pr L (MONO)- R COMPONENT 2 3D GLASSES EMITTER RECORD OUTPUT VIDEO AUDIO LEFT AUDIORIGHT DVI / PC AUDIO INPUT AVR AUDIO OUTPUT INPUT 1 IEEE 1394 INPUT 2 S-VIDEO VIDEO L (MONO) - AUDIO - R ANT 2 / AUX ANT 1 / MAIN DIGITAL AUDIO OUTPUT RS-232C IR EMITTER NetCommand HDMI 1 (LEFT), 2 (MIDDLE), 3 (RIGHT) VIDEO: 480i / 480p / 720p / 1080i / 1080p AUDIO: LINEAR PCM PC: VGA, W-VGA, SVGA, W-SVGA, XGA, W-XGA, SXGA / 720p / 1080p Figure 12. Connecting an older cable box Figure 11. Connecting the TV to an A/V receiver 24 3. TV Connections Camcorder Inputs on the front of the TV offer the most convenient way to connect a camcorder. Use jacks on the TV front panel 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 the TV's INPUT 3 COMPONENT jacks on the front panel. 2.

Connect left (white) and right (red) audio cables from AUDIO OUT on the camcorder to AUDIO L and AUDIO R on the TV. 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 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. L-AUDIO-R VIDEO/Y Pb Pr I N P U T 3 USB L-AUDIO-R VIDEO/Y Pb Pr I N P U T 3 USB Figure 14. Component video connections for a camcorder HDMI Connection Required: HDMI cables supplied with the camcorder.

Connect the camcorder to the TV's HDMI 4 jack on the front panel. L-AUDIO-R VIDEO/Y Pb Pr I N P U T 3 USB DVI AUDIO HDMI 4 Figure 13. Composite video connections for a camcorder Figure 15. HDMI connection for a camcorder. 3.

TV Connections 25 IEEE 1394 Devices Compatible IEEE 1394 Devices Compatible A/V devices include some, but not all, cable boxes, D-VHS VCRs, A/V discs, camcorders, and future products. Some devices may have IEEE 1394 connectors but are not compatible with the TV. Areas of compatibility to consider are: 1. Digital Video Signals This TV can decode HDV (high-

definition MPEG2 resolution) as provided by cable boxes and some camcorders. The TV cannot decode DV (standard-definition resolution video).

If the TV is unable to decode the digital signals supplied by your camcorder, connect the camcorder to the TV using analog audio plus composite video, S-video, or component video, or use HDMI audio/video. Other types of digital video, such as PC video provided by some computers, must be decoded by the source device and sent to the TV as analog video, S-video, or DVI/HDMI video. 2. Digital Audio Signals When received with video signals, the TV can decode Dolby Digital signals and MPEG audio signals. The TV may be unable to pass incompatible digital audio signals on the coaxial digital audio output. These signals may pass to other devices, however, on IEEE 1394 cables. 3. Digital Control Signal The TV can serve as the control center for IEEE 1394 audio/video devices, such as VCRs, A/V discs, tuners, and cable boxes that are compatible with the following IEEE 1394 control standards. · CEA-775. Designed for tuning devices such as cable boxes, allowing the device to send simple graphics.

This standard does not, however, allow the TV to control the cable box by IEEE 1394. AV/C (Audio Video Control). Designed to provide basic control such as play, stop, channel selection, and volume, as appropriate for the device. electrical power from another 6-pin device, there are several ways to provide electrical power to the device: · Connect the camcorder directly to the household AC. · Use the camcorder's battery for power. ·

Connect the camcorder directly to another 6-pin device in the network that can provide power. 4-pin connector 6-pin connector 6-pin-to-4-pin adapter Connection Methods There are two connection methods for IEEE 1394 devices. Use the method that fits your network of audio/video products. Direct Device-To-Device Method The IEEE 1394 interface allows you to chain devices, unlike audio and video connections that require you to connect each individual device directly to the TV. For example, you can connect your D-VHS to your 1394 A/V disc and then connect the 1394 A/V disc to the TV.

The resulting IEEE 1394 chain allows you to add more devices to the chain. You will see an icon for each device in the TV's Input Selection menu and can also send information from many IEEE 1394 devices to other compatible devices. · Four-Pin and 6-Pin Connections There are two different types of connectors used for IEEE 1394 terminals and cables: a 4-pin and a 6-pin type. Both types send the same digital audio, video, and control signals, but the 6-pin connectors can also supply low-voltage electrical power to connected devices. This TV uses only 4-pin type connectors.

A 6-pin connector cannot be connected directly to a 4-pin jack, and vice versa. To connect a 6-pin device to a 4-pin device, use a 6-pin-to-4-pin adapter or adapter cable. These cables are available from electronics and computer stores. If you wish to connect a 6-pin device to the TV (such as a camcorder), and the device is designed to receive Hub Connection Method The IEEE 1394 standard allows you to use the TV as a hub within the audio/video network. Each device can send information, which may include audio and video, to any other device in the network.

26 3. TV Connections IEEE 1394 Devices, continued Tips for Connecting IEEE 1394 Devices · Do not loop the last device in the chain back to the TV. When the device chain is looped, the TV may not be able to work with the other devices. Place devices that have only a mechanical (two position) power switch at the end of the chain or leave the power switch in the on position. When turned off, IEEE 1394 signals may not be able to pass through the device to other devices.

Place devices with the slowest communication speed at the end of the chain. Sometimes the communication speed is marked near the IEEE 1394 connector with an "S" number. The higher the number, the faster the communication speed. This TV has a communication speed of 400.



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