



Yamaha htr 6130 user manual

•Explanation of graphic symbols The flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of a non-isolated dangerous voltage within the product housing, which may be of sufficient size to pose a risk of electric shock to persons. The exclamation mark within an equilateral triangle is intended to alert you to the presence of important operating and maintenance instructions (maintenance) instructions - All safety and operating instructions should be read before operating the product. 2Keep Instructions -The safety and operating instructions should be maintained for future references. 3Heed Warnings - All warnings on the product from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. 6Attachments -- Do not use attachments not recommended by the product manufacturer, as these may cause hazards. 7Water and moisture – Do not use this product near water – for example, near a bathtub, washing bowl, sink or laundry tray; in a wet cellar; or near a swimming pool; and the like. 8Accessories – Do not place this product on an unstable cart, stand, tripod, holder or table. The product may fall, which can result in serious injury to a child or adult and serious damage to the product. Use only with a manufacturerrecommended shopping cart, stand, tripod, holder, or table sold with the product. Each assembly of the product should follow the manufacturer's instructions and use a mounting accessory recommended by the manufacturer. 9A product and car combination should be moved with caution. Fast stops, excessive force and uneven surfaces can cause the product and car combination to overturn. 10Ventilation – Slots and openings in the cabinet are designed for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, carpet or other similar surface This product should not be placed in a built-in installation such as a bookshelf or rack unless proper ventilation is available or the manufacturer's instructions have been followed. 11Power Sources – This product should only be operated by the power source indicated on the label. If you are not sure what kind of power supply to your home dealers or local energy companies. For products intended for use with battery power or other sources, refer to the operating instructions. 12Grounding or Polarization – This product may be equipped with a polarized AC plug (one connector with one blade wider than the other). This plug only fits in one direction into the socket. This is a security feature. If you cannot fully plug the plug into the outlet, try reversing the plug. If the plug still doesn't fit, contact your electrician to replace your outdated power outlet. Do not defeat the safety purpose of the polarized plug. 13Power-Cord Protection – Power cables should be laid in such a way that they are unlikely to be entered or clamped by objects placed on or against them, paying particular attention to cables on connectors, comfort containers and the point at which they exit the product. 14Lightning – For added protection for this product during a flash, or if it is unattended and unused for long periods of time, disconnect it from the power outlet and disconnect the antenna or cable system. This prevents damage to the product due to lightning and power lines urges. 15Power Lines – An external antenna system should not be near overhead power lines or other electrical light or circuits, or should be able to fall into such power lines or circuits. When installing an external antenna system, extreme caution should be exercised to prevent such power lines or circuits from being touched, as contact with them can be fatal. 16Overcharging – Do not overload sockets, extension cables or integrated comfort containers as this can lead to fire or electric shocks. 17Object and Liquid Entry – Never push objects of any kind through openings into this product as they may touch dangerous voltage points or short-circuit parts that may cause a fire or electric shock. Never spill liquid of any kind on the product. 18Maintenance – Do not attempt to maintain this product yourself, as opening or removing covers can expose you to dangerous voltages or other hazards. Refer all maintenance to gualified service personnel. 19Damage Requiring Service – Remove this product from the power cord or plug is damaged, b) If liquid has been spilled or items have fallen into the product, c) If the product has been exposed to rain or water, d) If the product is not functioning normally by using the Followed. If only the controls covered by the operating instructions are adjusted as improper adaptation of other controls, may result in damage and often require extensive work by a qualified technician to bring the product back to normal operation, e) If the product has been dropped or damaged in any way, and f) If the product has been shows a significant change in the perfor- mance - this shows a need for service. 20 Spare parts - If spare parts are needed, make sure that the service technician has used spare parts specified by the manufacturer or has the same characteristics as the original part. Unauthorized substitutions can lead to fires, electric shocks or other hazards. 21Security Check - After completing a service or repair, ask the service technician to perform security checks to determine whether the product is in perfect operating condition. 22Wall or ceiling as recommended by the manufacturer. 23Heat – The product should be away from heat sources such as radiators. heat registers, ovens or other products (including amplifiers) that generate heat. Note for CATV system installer: This reminder is provided to draw the CATV system installer: This reminder is provided to draw the cable bottom must be connected to the grounding system of the building, as close to the point of the cable entry, as it is practical. IMPORTANT SAFETY INSTRUCTIONS 24Outdoor Antenna Grounding – When an outdoor antenna or cable system is connected to the product, make sure the antenna or cable system is grounded to provide some protection against voltage surges and built-in static charges. Article 810 of the National Electrical Law, ANSI/NFPA 70, contains information on the proper grounding of the mast and the supporting structure, the grounding of the lead cable to an antenna discharge unit. the size of the grounding conductors, the position of the antenna discharge unit, the connection to grounding electrodes and the requirements for the grounding electrode. ANTENNA GROUNDING MAST ANTENNA LEAD IN WIRE GROUND CLAMP ANTENNA DISCHARGE UNIT (NEC NEC 810-20) ELECTRIC SERVICE EQUIPMENT GROUNDING CONDUCTORS (NEC SECTION 810-21) GROUND CLAMPS POWER SERVICE GROUNDING ELECTRICAL CODE FCC INFORMATION This product, if installed as specified in the instructions in this guide, meets the FCC requirements. Changes not expressly approved by Yamaha may invalidate your FCC's authority to use the Product. 2IMPORTANT: If you are connecting this product to accessories and/or any other product, use only high guality shielded cables. cables/s supplied with this product MUST be used. Follow all installation instructions. If you do not follow the instructions, Your FCC permission to use this product in the United States expires. 3NOTE: This product has been tested and complies with FCC regulations, Part 15 for Class B digital devices. Compliance with these requirements an appropriate level of assurance that your use of this product in a residential environment will not cause harmful interference with other electronic devices. This device generates/uses radio frequencies and, if not installed and used in accordance with the instructions in the User's Manual, may cause interference affecting the operation of other electronic devices. Compliance with FCC regulations does not guarantee that faults do not occur in all facilities. If it turns out that this product is the source of interference that can be determined by turning the OFF and ON device, please try to resolve the issue by using one of the following measures; Move either this product or the device that is affected by the fault. Use power outlets that are on different branch circuits (circuit breaker or fuse) or install AC line filters/s. In the case of radio or TV interference, install/reorient the antenna. If the antenna is 300 Ohm tape cable, change the lead-in to coaxial cable. If these corrective actions do not produce satisfactory results, please contact the local dealer authorized to distribute this type of product. If you can't find the dealer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave., Buena Park, CA 90620. The above statements apply ONLY to the products sold by Yamaha Corporation of America or its subsidiaries. Caution: Read this before operating your device. 1To ensure the best performance, please read this manual carefully. Keep it in a safe place for future references. 2 Install this sound system in a well-ventilated, cool, dry, clean place – away from direct sunlight, heat sources, vibrations, dust, moisture and/or cold. Allow a ventilation space of at least 30 cm on the top, 20 cm left and right and 20 cm on the back of this device. 3Search this device away from other electrical devices, motors or transformers to avoid buzzing noise. 4Do not set this device to sudden temperature changes from cold to hot and do not locate this device in a high humidity environment (i.e. a room with humidifier) to prevent condensation in this device, which may cause electric shock, fire, damage to this device and/or personal injury. 5Avoid the installation of this device if foreign objects may fall on this device and/or this device, not –Other components as they can cause damage and/or discoloration on the surface of this device. -Burning objects (i.e. candles) as they can end fire, damage and/or personal injury. -Container with liquid in them as they can fall and liquid can cause electric shock to the user and/or damage to this device. 6Do not cover this device with a newspaper, tablecloth, curtain, etc. to Radiation. If the temperature in this device rises, it may cause fire, damage to this device and/or personal injury. 7 Do not connect this device to a power outlet until all connections are complete. 8 Do not turn this device upside down. It can overheat and possibly cause damage. 9Do not use force on switches, buttons and/or cables. 10 When you disconnect the power cord from the power outlet, grab the plug; do not pull the cord. 11 Do not clean this device with chemical solvents; this can damage the finish. Use a clean, dry cloth. 12Only the specified voltage shall be used on this device. The use of this device with a

higher voltage than specified is dangerous and may cause accidental, damage to this device and/or personal injury. Yamaha shall not be liable for any damage caused by the use of this device with a voltage other than the specified voltage. 13 To avoid damage caused by lightning, keep the power cord and outdoor antennas disconnected from a power outlet or device during a flash. 14 Do not attempt to modify or repair this device. Contact Qualified Yamaha Service is required. The Cabinet should never be opened for any reason. 15If you do not plan to use this device for an extended period of time (i.e. vacation), disconnect the power plug from the power outlet. 16Install this device near the power plug is easy to reach. 17 Be sure to read the Frequently Frequently Used Operational Errors troubleshooting section before you conclude that this device is faulty. 18 Before moving this device, press ASTANDBY/ON to put this device into standby mode and disconnect the power outlet. 19VOLTAGE SELECTOR (Asia and General Models only) The VOLTAGE SELECTOR on the back of this device must be set for your local main voltage before plugging into the AC socket. The voltages are 110-120/220-240 V AC, 50/60 Hz. 20The batteries must not be exposed to excessive heat such as sunshine, fire or the like. 21 Excessive sound pressure from headphones and headphones can lead to hearing loss. WARNING TO REDUCE THE RISK OF FIRES OR STROMS, DO NOT USE THIS DEVICE. This device is not disconnected from the AC power source as long as it is connected to the power outlet, even if this device itself is switched off by ASTANDBY/ON. This state is called standby mode. In this state, this device is designed to consume a very small amount of power. FOR CANADIAN CUSTOMERS To Schlag zu verhindern, passen breite Klinge des Steckers zu breiten Schlitz und vollst-ndig einf-gen. Dieses digital Geret der Klasse B entspricht dem kanadischen ICES-003. FOR CANADIENS CONSUMERS To avoid electric shocks, insert the widest blade of the plug into the corresponding terminal of the socket and push to the bottom. This Class B digital device complies with Canada's NMB-003 standard. WICHTIG Bitte notieren Sie die Seriennummer dieses Gerets im im Below. MODEL: Serial number: The serial number is 45 2 Input .....ii List of remote control codes ......iii About this manual •y gives a tip for your operation •Some operations can be performed either via the buttons on the front or on the remote control. If the key names differ between the front panel and the remote control, the button name on the remote control is indicated in parentheses. •This manual is printed before production. Design and specifications may change in part due to improvements, etc. If there are differences between the manual and the product, the product is a priority. •ASTANDBY/ON or 3DVD (example) specifies the name of the parts on the front panel or remote control. on the attached sheet or pages at the end of this manual. •The symbol with page number(s) indicates the corresponding reference page(s). INTRODUCTION PREPARATION OPERATION ADVANCED INFORMATION ADDITIONAL APPENDIX English Built-in 5-channel power amplifier Minimal RMS output RMS output [U.S.A. and Canada Models] (1 kHz, 0.9% THD, 8 Ω) Front: 100 W/ch Center: 100 W Surround: 100 W/ch [Other models] (1 kHz, 0.9% THD, 6 Ω) Front: 100 W/ch SCENE Selection Function Preset SCENE Templates for Different Situations SCENE Templateizing Capability Decoder and DSP Circuits Proprietary Yamaha Technology for Creating Multi-Channel Surround Sound Compressed Music Enhancer Mode Dolby Pro Logic/Dolby Pro Logic II Decoder DTS Decoder Virtual CINEMA DSP SILENT CINEMA<sup>™</sup> Sophisticated FM/AM Tuner 40 Station Random and Direct Preset Tuning Automatic Preset Tuning HDMI (High-Definition Multimedia Interface) HDMI Interface for Standard, advanced or high-definition video (including 1080p video signal transmission) DOCK terminal DOCK terminal for connecting a Yamaha iPod UniversalDock (such as YDS-10, sold separately) or Bluetooth adapter (e.g. B. YBA-10, sold separately). Additional features 192-kHz/24-bit D/A converter 6 additional input jacks for discrete multi-channel input component video input/output capability (3 COMPONENT VIDEO INs and 1 MONITOR OUT) iPod control function Sleep timer cinema and music night listening mode remote control with preset remote control codes Manufactured under license from Dolby Laboratories. Dolby, Pro Logic and the double D symbol are trademarks of Dolby Laboratories. SILENT CINEMA is a trademark of Yamaha Corporation. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. iPod<sup>™</sup> iPod is a trademark of Apple Inc. registered in the United States and other countries. Bluetooth<sup>™</sup> Bluetooth is a registered trademark of Bluetooth SIG and is used by Yamaha in accordance with a license agreement. DTS and DTS Digital Surround are registered trademarks of DTS. Inc. We want you to listen for life Yamaha and the Consumer Electronics Group of the Electronic Industries Association want you to get the most out of your equipment by playing it at a safe level. One that lets the sound get through loud and clear without annoying flames or distortions - and above all, without compromising your sensitive hearing. Because hearing damage caused by loud noises is often undetectable until it is too late, Yamaha and the Consumer Electronics Group of the Electronic Industries Association recommend avoiding prolonged exposure due to excessive volume. Getting started . Check the supplied accessories Check that you have received all of the following parts. Remote Control Batteries (2) (AAA, R03, UM-4) AM Loop Antenna Indoor FM Antenna (Asia and General Models Only) Attention The VOLTAGE SELECTOR on the back of this device must provide for your local voltage plugging the power cord into the AC socket. Improper setting THE VOLTAGE SELECTOR may cause damage to this unit and pose a potential fire hazard. Select the switch position (top or bottom) according to your local voltage with a straight slotted screwdriver. Voltages are 110-120/220-240 V AC, 50/60 Hz. VOLTAGE SELECTOR 110V- 120V 220V- 240V - Built-in batteries in the remote control 1 3 2 1 Remove the battery compartment cover. 2Insert the two supplied batteries (AAA, R03, UM-4) according to the polarity markings (+ and -) on the inside of the battery compartment. 3Snap the battery compartment cover back in place. Notes •Change all batteries if you notice the following condition: - the operating range of the remote control decreases. •Do not use an old and a new battery together. •Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries can have the same shape and color. •When the batteries have run out, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries. •Do not dispose of them properly in accordance with your local regulations. •If the remote control is without batteries for more than 2 minutes or exhausted batteries remain in the remote control, the contents of the memory can be deleted. When the memory is cleared, insert new batteries and set up the remote control code. Quick Start The following steps describe the easiest way to enjoy playing DVD movies in your home theater. Front Right Speaker Video Monitor Subwoofer Front Left Speaker Surround Right Speaker Center Speaker DVD Speaker Step 1: Set up your speakers. P. 5 Step 2: Connect your DVD player and other components. 6 Step 3: Turn on the power supply and press THE SCENE 1 P. 7 Prepare ANTENNA SPEAKERS OUT DVD DTV/CBL SURROUND CENTER FRONT B HDMI R L R L DOCK COMPONENT VIDEO DVD DTV/CBL DVR MONITOR OUT AM PR GND DIGITAL INPUT VIDEO PB DVD DTV/CBL DVR MONITOR FM IN OUT OUT OUT OUT OUT OPTICAL 75 UNBAL. Y CD 3 MULTI CH INPUT DVD AUDIO OUTPUT DTV/CBL DVR CD IN MD/ OUT DTV/ FRONT SURROUND CENTER IN OUT (PLAY) CD-R (REC) CBL 2 SUB L L WOOFER DVD 1 R R COAXIAL SUBWOOFER R FRONT A L 1Place your speakers and subwoofer in the room. 2Connect speaker cables on each speaker. Quick start Guide Make sure you connect the left channel (L), the right channel (R), + (red), and - (black) correctly. Front Speaker INTRODUCTION Loosen Insert Tighten Forward Right To the Front Left Speaker Speaker Center and Surround Speaker Press Insert Release down Cables are differently. colored or shaped, perhaps with a strip, groove or ridge. Close the striped (grooved, etc.) Connect the cable to the + (red) terminals of your speaker. Connect the simple cable to the (black) terminals. 3 Connect each speaker cable to the appropriate speaker connection on this device. To the middle speaker To the surround right speaker on the left speaker 1 2 3 4 4 Connect the subwoofer cable to the input jack on the SUBWOOFER OUTPUT jack on this device. 1Make sure that this device and the subwoofer are disconnected from the AC outlets. 2Rotate the exposed wires of the speaker cables to avoid short circuits. 3Don't be touched by the bare speaker wires. 4Let the bare speaker wires do not touch a metal part of this device. Subwoofer AV Receiver SUBWOOFER Input Jack OUTPUT Jack Quick Start Guide Step 2: Connect your DVD player and other components ANTENNA SPEAKERS OUT DVD DTV/CBL SURROUND CENTER FRONT B HDMI R L L DOCK COMPONENT VIDEO DVD DTV/CBL DVR MONITOR OUT AM PR GND DIGITAL INPUT VIDEO PB DVD DTV/CBL DVR Y CD 3 MULTI CH INPUT DVD AUDIO OUTPUT DTV/CBL DVR CD IN MD/ OUT DTV/ FRONT SURROUND CENTER IN OUT (PLAY) CD-R (REC) CBL 2 SUB L L WOOFER DVD 1 R R COAXIAL SUBWOOFER R FRONT A L 3Connect the video cable with the video input jack on your video monitor and the VIDEO MONITOR OUT jack on this device. Video monitor AV receiver Make sure that this device and the DVD player are disconnected from the power outlets. 1Connect the digital coaxial audio output jack of your DVD player and the DVD DIGITAL INPUT COAXIAL jack on this device. DVD Player AV Receiver Digital Coaxial Audio Output Jack COaxial audio cable DVD DIGITAL INPUT COAXIAL jack 2Connect the video cable to the composite video output jack of your DVD player and the DVD-VIDEO jack on this device. DVD Player AV Receiver Composite Video Output Jack Video Cable DVD VIDEO Jack Video Input Video Input Video cable VIDEO MONITOR OUT Jack 4Connect the power plug of this device and other components into the AC socket. For further connections • Use the other speaker combinations P. 10 • Connect a video monitor and ONE DVD player P. 15 • Connect a cable TV/satellite tuner and DVD recorder P. 15 • Connect to the HDMI jacks P. 16 • Connect to component VIDEO jacks P. 16 • Use the VIDEO AUX jacks on the front P. 18 • Connect a CD player and an MD recorder P. 17 • Connect a DVD player via analog multi-channel audio connection P. 17 • Connect an FM/AM outdoor antenna P. 19 • Connect an iPod/Bluetooth dock P. 18 Check the type of connected speakers. If the speakers are 6 Ohm speakers, set SP IMP. 6MIN before using this device (see page 12). 1Turn the video monitor, and then set the video monitor's input source selection to this device. 2Press ASTANDBY/ON on the front. 3Press PSCENE 1. DVD Viewing appears in the front panel display, and this device automatically optimizes its own status for DVD playback. y The display on the selected SCENE button lights up while this device is in SCENE mode. 4Start playing the DVD you want on your player. Quick Start 5 Rotate HVOLUME to adjust the volume. INTRODUCTION Note If you change the input source or sound field program, SCENE mode is deactivated and the indicator on the SCENE button turns off. . The SCENE function Only by pressing a SCENE key you can turn on this device and retrieve your preferred input source and sound field program according to the SCENE template assigned to the SCENE key. The SCENE templates are combinations of input sources and sound field programs. y If you connect a Yamaha product that has the ability of the SCENE control signals, that device can automatically activate the component and start playback. For more information, refer to the DVD player's user manual. • Use the other SCENE keys Standard The name of the SCENE and its description key SCENE DVD Viewing 1 - Input source: DVD - Sound field program: STRAIGHT For if you want to listen to a music disc from the connected DVD player as background music for this room. SCENE Disc Listening 2 - Input Source: DVD - Sound Field Program: 5ch Stereo For if you want to listen to a music disc from the connected DVD player as background music for this room. SCENE TV Viewing \*1 3 - Input source: DTV/CBL - Sound field program: STRAIGHT In case you want to watch a TV program. SCENE Radio Listening \*2, \*3, \*4 4 - Input Source: TUNER – Sound field program: Music Enh. 5ch For if you want to listen to a music program from the FM radio station Quick Start Guide Notes \*1 You need to connect a cable TV or satellite tuner to this device in advance. Connect. Page 16 for details. \*2 You must connect the supplied FM and AM antennas to this device in advance. For more information, see page 19. \*3 You need to tune in to the desired radio station. The tuning information can be found on pages 37 to 39. \*4 To achieve the best possible reception, set up the connected AM loop antenna or adjust the position of the end of the indoor FM antenna. y If you can't find the situation you want, you can select and modify the assigned SCENE template for the SCENE buttons. For more information, see page 24. • After using this device... Press ASTANDBY/ON on the front panel to put this device into standby mode. To turn this device on from standby mode, press ASTANDBY/ON (or DPOWER) on the front panel. For more information, see page 19. Note In standby mode, this device consumes a small amount of power to receive infrared signals from the remote control. • Customizing scene templates P. 24 • Using different input sources • Basic controls of this device P. 29 • FM/AM radio programs P. 37 • Using your iPod with this device P. 40 • Using the Bluetooth component P. 41 • Using different sound functions • Using different sound field programs P. 34 • Adjusting the parameters of this device • Optimizing the parameters of your listening room .P. 22 • Manual adjustment of various parameters of this device P. 43 • Setting the remote control P. 51 • Setting the advanced parameters P. 54 • Additional functions • Automatic switching off of this device P. 33 ANTENNA SPEAKERS OUT DVD DTV/CBL SURROUND CENTER FRONT B PREPARATION D TV / 2 FRONT SURROUND CENTER (PLAY) CD-R (REC) IN OUT HDMI R L R L DOCK COMPONENT VIDEO DVD DTV/CBL DVR MONITOR OUT AM PR GND DIGITAL INPUT VIDEO PB DVD DTV/CBL DVR MONITOR FM IN OUT OUT 75 OPTICAL UNBAL, Y CD 3 MULTI CH INPUT DVD AUDIO OUTPUT DTV/CBL DVR CD IN MD/ OUT CBL SUB L L WOOFER DVD 1 R R COAXIAL SUBWOOFER R FRONT A L 7 8 9 0 Name See page 1 DOCK terminal 18 2 COMPONENT VIDEO sockets 16 3 HDMI jacks 15 5 ANTENNA terminals 19 6 SPEAKERS terminals 19 6 SPEAKERS terminals 11 7 DIGITAL INPUT jacks 15, 17 8 MULTI CH INPUT Sockets 17 9 AUDIO Sockets 15, 17 0 SUBWOOFER OUTPUT Female 11 English Connectors Placement adjustable speaker layout below shows the speaker setting, which we recommend. You can use it to enjoy CINEMA DSP and multichannel audio sources. C SR Front Left and Right Speakers (FL and FR) The front speakers are used for the main source sound plus effect sounds. Place these speakers equal distance from the ideal listening position. The distance of each speaker from each side of the video monitor should be the same. Center Speaker (C) The center speaker is for the center channel sounds (dialogue, vocals, etc.). If for some reason it is not practical to use a center speaker, you can do without it. However, the best results are with the full system. Surround left and right speakers (SL and SR) The surround speakers are used for effect and surround sounds. Subwoofer (SW) The use of a subwoofer with built-in amplifier, such as the Yamaha Active Servo Processing Subwoofer System, is effective not only for amplifying bass frequencies from all or all channels, but also for the playback of the LFE channel (low-frequency effect) with high frequency playback (the position of the subwoofer is not so critical, since deep bass sounds are not very directional. But it is better to place the subwoofer near the front speakers. Rotate it slightly toward the center of the room to reduce wall reflections. Connections Connection speaker Make sure you connect the left channel (L), the right channel (R), + (red) and – (black) correctly. If the connections are faulty, this device cannot accurately reproduce the input sources. Caution •Use speakers with the specified impedance that appears on the back of this device. •If you want to use 6 Ohm speakers, make sure you use SP IMP before using this device. 6MIN (see page 12). •Before connecting the speakers, make sure that the power outlet. •Do not let the bare speaker wires touch or let them touch a metal part of this device. This may damage this device and/or speaker. •Use magnetically shielded speakers. If this type of speaker still generates interference with the monitor, place the speaker Front Speaker (B) Right Left Center Speaker DOCK DIGITAL INPUT OPTICAL CD DTV/ CBL DVD COAXIAL ANTENNA SPEAKERS OUT DVD DTV/CBL SURROUND CENTER FRONT B HDMI R L L COMPONENT VIDEO DVD DTV/CBL DVR MONITOR OUT AM PR GND VIDEO DVD DTV/CBL DVR MONITOR FM IN OUT Y 3 MULTI CH INPUT DVD DTV/CBL AUDIO MD/ OUTPUT DVR CD IN OUT 2 FRONT SURROUND CENTER IN OUT (PLAY) CD-R (REC) L L SUB WOOFER 1 R R SUBWOOFER R FRONT A L. Before connecting to the SPEAKERS terminal a speaker cable is actually a pair of insulated cables that run side by side. Cables are colored or shaped differently, perhaps with a strip, a groove or ridges. Close the striped (grooved, etc.) Connect the cable to the + (red) terminals of this device and your speaker. Connect the simple cable to the (black) terminals. Subwoofer Right Left Front Speakers (A) Remove approx. 10 mm (3/8) insulation from the end of each speaker cable and then rotate the bare wires of the cable to avoid short circuits. 10 mm (3/8) English connectors - connection to front A terminals 2 Red: positive (-) 3 1Loosen the bare end of the speaker wire into the slot at the terminal. 3Pull the button to secure the wire. connection of the banana plug (except Europe, Russia, Russia, and Asia models) The banana plug is a single-pole electric plug that is often used to terminate speaker cables. First, tighten the button, and then insert the banana plug into the end of the corresponding terminal. Banana plug - Connection to the FRONT B, CENTER and SURROUND terminals Red: positive (+) Black: negative (-) 1Press down the tab. 2Insert the bare end of the speaker wire into the hole at the terminal. 3Remove the tab to secure the wire. Caution If you want to use 6 Ohm speakers, set SP IMP. 6MIN as follows. 1Make sure this device is turned off. For more information about turning this device on or off, see page 19. 2 Hold JTONE CONTROL, and then press ASTANDBY/ON to turn this device turns on, an advanced setup menu appears in the front panel. 3Press KPROGRAM I/ hrepeatedly to SP IMP. Select. The following display appears in the front panel display. SP IMP.- 8 MIN 4Press LSTRAIGHT repeatedly to select 6MIN. The following display appears in the front panel display. SP IMP.- 6 MIN 5Press ASTANDBY/ON to confirm your selection and put this device on standby mode. Note The setting you made will be displayed the next time you turn on this device. Audio jacks and cable connectors AUDIO DIGITAL AUDIO L R COAXIAL OPTICAL (White) (Red) (Orange) L R C O Left and Right Coaxial Optical s-analog Audio-Digital Cable Connector Cable Connector Audio Cable Connector Svideo Connectors Video Connectors and Cable Plug COMPONENT VIDEO Y PB PR (Yellow) (Green) (Blue) (Red) V Y PB PR PREPARATION Composite Component AUDIO jacks For traditional analog audio signals transmitted over left and right analog audio cables. Connect red connectors to the right jacks and white connectors to the left jacks. DIGITAL AUDIO COAXIAL jacks For digital audio signals transmitted via coaxial digital audio cables. DIGITAL AUDIO OPTICAL Jacks For digital audio signals transmitted via optical digital audio cables. Notes •You can use the digital jacks to enter PCM, Dolby Digital, and DTS bitstreams. All digital input jacks are compatible with digital signals with up to 96 kHz sampling frequency. •This device processes digital and analog signals independently of each other. Thus, the audio signals on the digital jacks are not output to the analog AUDIO OUT (REC) jacks. Video jacks This unit has two types of video jacks. The connection depends on the availability input jacks on your video monitor. VIDEO jacks For traditional composite video signals transmitted over composite video cables. COMPONENT VIDEO Jacks For component signals separated into luminance (Y) and chrominance (PB, PR) video signals that are transmitted on separate wires of component videos Video signal flow for MONITOR OUT Input Output (MONITOR OUT) COMPONENT PR PB PB VIDEO Y VIDEO Connections Information about HDMI<sup>™</sup> audio signals entered on the HDMI jack are not output by speaker terminals, but by the connected video monitor. To enjoy the sound of speakers connected to this device, connect to the HDMI port by analog or digital (see page 16). -mute the volume of the connected video monitor. You can play back images by connecting your video monitor and video source component to this device via HDMI connections. At this point, audio/video signals emitted by the connected component (e.g. DVD player, etc.) will only be output to the connected video monitor if this device is turned on and set to the input source (DVD or DTV/CBL). In addition, the available audio/video signals depend on the specification of the connected video monitor. Read the user manual of each connector HDMI how a cable connector y • We recommend using an HDMI cable shorter than 5 meters (16 feet) printed with the HDMI logo. • Use a conversion cable (HDMI jack  $\leftrightarrow$  DVI-D jack) to connect this device to other DVI components. y You can also connect a video monitor, DVD player, digital TV and cable TV to this device via the HDMI or COMPONENT VIDEO connection (see page 16). •Connect a video monitor and DVD Player Connections Make sure that this device and other components are disconnected from the power outlets. Connection of a cable TV/satellite tuner and a DVD recorder OUT DVD DTV/CBL HDMI OUT DVD DTV/CBL HDMI DOCK COMPONENT VIDEO DOCK COMPONENT VIDEO DVD DVD DVD DTV/CBL DVR MONITOR DVD DTV/CBL DVR MONITOR OUT PR DIGITAL INPUT VIDEO DIGITAL INPUT DVD DTV/CBL DVR MONITOR PB DVD DVD DTV/CBL DVR AUDIO FRONT SURROUND CENTER DVR FRONT SURROUND CD DTV/ IN OUT DTV/ CENTER IN OUT CBL 2 CBL 2 L L DVD 1 DVD 1 R R R R COAXIAL COAXIAL SUBWOOFER SUBWOOFER V L R V O V L R V L R R Player Videomonitor\* Cable TV or DVD-Recorder if you are using the TV's internal tuner as the input source, connect the TV's digital or analog audio output jacks and digital or analog audio input jacks to this device. Connecting to the HDMI or COMPONENT VIDEO jacks You can enjoy high-quality images by connecting your video monitor and video source components to this device via HDMI or COMPONENT VIDEO connections. Note Make sure that you Connect video components the same way you connect your video to this device. For example, if you connect your video monitor to this device via an HDMI or COMPONENT VIDEO connection, connect your video components to this device via the HDMI or COMPONENT VIDEO connection. HDMI port audio signals on the HDMI jack are not output by speaker terminals, but by the connected video monitor. To enjoy the sound of speakers connected to this device, connect to the HDMI port by analog or digital (see page 15). -mute the volume of the connected video monitor. Video Monitor Cable TV or Satellite Tuner OMPONENT VIDEO TV/CBL DVR MONITOR OUT VIDEO DVD DTV/CBL DVR MONITOR IN OUT OUT MULTI CH INPUT AUDIO ANTENNA AM GND FM 75 UNBAL. Connect to the COMPONENT VIDEO jacks Video monitor DVD-Player Y PB PR-Out Video in Video Y PB PR PR OUT DVD DTV/CBL HD DOCK COMPONENT VIDEO DVD DTV/CBL DVR MONITOR OUT PR DIGITAL INPUT VIDEO PB DVD DTV/CBL DVR MON IN OUT O OPTICAL Y CD 3 MULTI CH INPUT DVD DTV/CBL D VR AUDIO CENTER C DTV/ IN OUT CBL 2 L DVD 1 R COAXIAL SUBWOOFER Y PB PR Y PB PR out Video out Video DVD player Cable TV or DVD Recorder Satellite Tuner Notes •Connect the input source components to the HDMI DVD or HDMI DTV/CBL jack to view the video monitor, connected to the HDMI OUT jack. •Audio/video signals emitted by the connected component (e.g. DVD player, etc.) are only output to the connected video monitor when this device is turned on and set to the input source (DVD or DTV/CBL). •Available audio/video signals depend on the specification of the connected video monitor. Read the user manual of each connected component. Connections Connection of audio components : Connecting a CD player and a CD burner/MD recorder Note If you connect your CD player via an analog and digital connection, the signal input is preferred at the DIGITAL INPUT jack. Make sure that this device and other components are disconnected from the AC outlets. GND DIGITAL INPUT VIDEO PB DVD DTV/CBL DVR MONITOR FM IN OUT OUT 75 OPTICAL UNBAL. Y CD 3 MULTI CH INPUT DVD AUDIO OUTPUT FRONT SURROUND CENTER DTV/CBL DVR CD IN MD/ OUT DTV/ IN OUT (PLAY) CD-R (REC) CBL 2 L SUB WOOFER DVD 1 R R COAXIAL SUBWOOFER O L R L R L R Audio out Audio out Audio out Audio out Audio audio in CD-Player CD-Recorder or MD-Recorder indicates recommended connections. CENTER and SUBWOOFER) for discrete multi-channel inputs from a multi-format player, external decoder or sound processor. Connect the output jacks of your multiformat player or external decoder to the MULTI CH INPUT jacks. Make sure that the left and output jacks for the front and surround channels. CD 3 MULTI CH INPUT DVD DTV/CBL DVR FRONT FRONT CENTER DTV/ IN CBL 2 L L DVD 1 R R COAXIAL SUBWOOFER L R outFront L outSurround outSubwoofer Center R out Notes •If you select the component connected to the MULTI CH INPUT jacks as the input source (see page 30), this device automatically turns off the digital sound field processor and you cannot select sound field programs. •This device does not redirect the signal input to the MULTI CH INPUT jack to accommodate missing speakers. It is recommended that you connect a speaker system with 5.1 channels before using this feature. Multi-format player or external decoder Connects a Yamaha iPod<sup>™</sup> UniversalDock and Bluetooth<sup>™</sup> adapter Make sure this device and other components are disconnected from the AC outlets. This device is equipped with the DOCK terminal on the back, which allows you to connect a Yamaha iPod Universal Dock (e.g. YDS-10, sold separately) or a Bluetooth adapter (e.g. YBA-10, sold separately). Connect a Yamaha iPod UniversalDock or Bluetooth adapter to the DOCK terminal on the back of this device using the dedicated cable. y See Using iPod<sup>™</sup> on page 40 to play your iPod and use Bluetooth<sup>™</sup> components on page 41 to play your Bluetooth components. COMPONENT VID DOCK DVD DTV/CBL DV PR DIGITAL INPUT PB OPTICAL CD Y 3 MULTI CH INP DTV/ FRONT SURRO 2 CBL L DVD 1 R COAXIAL Yamaha iPod Universal Dock or Bluetooth Adapter Use the VIDEO AUX jacks on the front to connect a game console or video camera to this device. Caution Be sure to turn down the volume of this device and other components before connecting. Notes •The audio signal input at the DOCK terminal on the back takes precedence over the input to the VIDEO AUX jacks. •To reproduce the source signals on these jacks, select V-AUX as the input source. •The audio signal input on the PORTABLE mini jack takes precedence over the input to the AUDIO L/R jacks. VOLUME STANDBY /ON EDIT PRESET/TUNING MEMORY TUNING AUTO/MAN'L SCENE 1 2 3 4 PROGRAM INPUT VIDEO AUX PHONES SPEAKERS LOUD CONTROL STRAIGHT NIGHT AUDIO SELECT VIDEO L AUDIO R PORTABLE A/B/OFF SILENT CINEMA EFFECT VIDEO AUX VIDEO L AUDIO R PORTABLE V 3.5 mm L R In general, these antennas should provide a sufficient signal strength. Connect each antenna correctly to the intended terminals. Notes •The AM loop antenna should be placed away from this device. •A properly installed outdoor antenna provides a clearer reception than an indoor antenna. If you experience poor reception quality, install an outdoor antenna. Contact the nearest Yamaha Authorized Dealer or Service Center outdoor antennas. •The AM loop antenna should always be connected, even if an AM outdoor antenna is am outdoor antenna to this device. Outdoor AM Antenna AM Loop Use a 5 to 10 m (16 to 32 antenna ft) Extended from vinyl-covered wire (supplied) outdoors from a window. DEO ANTENNA AM GND FM 75 UNBAL. Indoor FM antenna (supplied) floor For maximum safety and minimal interference, connect the antenna GND terminal to a good ground is a metal pile that is driven into moist soil. Connecting the wire of the AM loop antenna Open the insert Connect the lever lever y The wire of the AM loop antenna has no polarity and you can connect either end of the wire with AM or GND terminal. Connections Installation of the supplied AM-Loop antenna vary depending on the model. Connecting the power cord As soon as all connections are completed, connect the power cord to the power outlet. Power cable (U.S.A. model) On the AC socket, turn it on and off. Turn on this device Press ASTANDBY/ON (or DPOWER) to turn on this device. y When you turn on this device, there is a delay of 4 to 5 seconds before this device can reproduce den ton. • Set this device to standby mode, press ASTANDBY/ON (or ESTANDBY) to put this device into standby mode. Note In standby mode, this device consumes a small amount of power to receive infrared signals from the remote control. Connections Front Panel Display 1 2 3 4 5 6 7 8 9 t DVR V-AUX DTV/CBL DVD MD/CD-R TUNER CD VOLUME DOCK AUTO TUNED STEREO MEMORY VIRTUAL SP SILENT CINEMA PRESET ENHANCER A B NIGHT SLEEP MUTE dB qDIGITAL ft LFE q PL q PL L C R mS PCM SL SR dB 0 A B C 2 ENHANCER Display 3 VIRTUAL indicator Lights up when Virtual CINEMA DSP is active (see page 36), 4 SILENT CINEMA indicator Lights up when headphones are connected and a sound field program is selected (see page 36), 5 DOCK indicator •Lights up when you connect your iPod in a Yamaha iPod UniversalDock (e.g. YDS-10, sold separately) to this device's DOCK terminal (see page 18) when V-AUX is selected as the input source. •Flashes while the connected Yamaha Bluetooth adapter (e.g. YBA-10, sold separately) and the Bluetooth component in paring is in paring (see page 18) or the Bluetooth adapter scans the Bluetooth component (see page 41). •Light up while the connected Yamaha Bluetooth adapter is connected to the Bluetooth component (see page 18). 6 Input Source Indicator The corresponding cursor lights up to display the currently selected input source. 7 Tuner indicators Lights up when this device is in FM or AM tuning mode (see page 37). 8 MUTE indicator flashes while the MUTE function is on (see page 30). 9 VOLUME level indicator Displays the current volume level. 0 PCM indicator Lights up when this device PCM (Pulse Code Modulation) digital audio signals. A headphone indicator lights up when headphones are connected (see page 30). B SP A B indicators Light up according to the selected set of front speakers (see page 29). C NIGHT Indicator Lights up when you select a night listening mode (see page 31). D CINEMA DSP indicator Lights up when you select a sound field program (see page 34). E Multi-Information Display Displays the name of the current sound field program and other information when adjusting or changing settings. F SLEEP indicator Lights up while the sleep timer is on (see page 33). G Input channel and speaker indicators LFE LFE Display L C R Input channel indicators SL SR LFE Display Lights up when the input signal contains the LFE signal. Input channel indicator Enter the channel components of the current digital input signal. Signal.

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