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Manual Library / MarantzAV Surround Receiver (2017) add a review SpecificationsTuning range: FM, MWPower output: 50 watts per channel into 8Ω (stereo)Surround output: 50W (front), 50W (center), 50W (rear)Frequency response: 10Hz to 100kHzTotal harmonic distortion: 0.08%/Input sensitivity: 130mV (line)Signal to noise ratio: 98dB (line)Speaker load impedance: 4Ω to 16ΩDigital inputs: coaxial, optical, LAN, WIFI, BTVideo Connections: HDMI, component, compositeDimensions: 440 x 105 x 376mmWeight: 8.3kgFinish: black, silverAccessories: RC034SR remoteControlYear: 2017 Downloads Please log in to view available downloads for this model Audio Section Video Section Network & Tuner Functions USB/AirPlay/Bluetooth Integration Multiroom Audio Playback Remote & App Control Convenience Features Audio Section 7-Channel Discrete Amplifier: The Marantz NR1608 is equipped with a power amplifier that reproduces high-fidelity sound in surround mode with equal quality and power for all channels true to the original sound. The amplifier amplified circuit adopts a discrete configuration that achieves high-quality surround sound playback. The Seven Channel Amplifier is rated 50 watts with 2 drive channels (20-20kHz, 8-ohm, 0.08% THD). NR1608 has low-impedance drive capabilities, excellent speaker control and is compatible with 4-16 Ω speakers. Amplifier Assignment: NR1608's seven discrete channels can be configured to fit the home theater setup type. Surround Back: Av receiver amplifier channels can be configured as front left/right, center, surround left/right, and Surround back left/right to play Dolby TrueHD & DTS-HD 7.1ch. Front height: Receiver amplifier channels can be configured as front left/right, left/right front height, center, and surround left/right for more front effects when playing 7.1ch. Upper front/middle: This amplifier configuration provides playback of 5.1.2ch using the upper front or upper front of the Dolby Atmos or DTS:X mid-speakers. Dolby Front/Surround: This amplifier configuration provides 5.1.2-heron playback via front or surround Dolby Atmos speakers. Bi-Amp: You can configure the amplifier for front two-amp amp to achieve high quality dual-channel sound by connecting the front and surrounding rear channels to the main front speakers (if compatible). The receiver will be limited to a 5.1ch surround. Zone 2: Amplifier channels NR1608 can be configured as front left/right, center, surround left/right, and dolby digital & DTS 5.1ch playback area in the main zone and 2ch PCM playback in the second zone. Front B: A second set of front speakers can be powered by the surround amplifier back; the receiver will be limited to 5.1ch surround. It is useful when you want to have a special pair of 2-ch speakers, in addition to home theater speakers. If you choose to play both Front A and Front B speakers at the same time, the Front B will play the same and audio signal as front A without mixing downwards. Compatible digital audio formats: The AV receiver supports the following stereo & DTS; digital audio formats through their HDMI jacks and optical/coaxial digital inputs. Digital audio signal audio type audio signal format HDMI 2ch Lyneen PCM 2ch, 32-192kHz, 16/20/24-bit multi-channel band PCM 6ch, 32-192kHz, 16/20/24-bit stream dolby digital, digital ex. DTS, DTS ES, DTS 96/24 High Definition Audio Bitstream Dolby Atmos, Dolby Digital Plus, Dolby TrueHD, DTS: X, DTS-HD Master Audio, DTS-HD High Definition, DTS Express Optical/Coaxial 2Ch Line PCM 2ch, 32-96kHz, 16/20/24-Bit Multichannel Line PCM 6ch, 32-96kHz, 16/20/24-bit Bit Dolby Digital, Dolby Digital EX, DTS, DTS ES, DTS 96/24 Immersive Surround Sound: Marantz NR1608 AV receiver goes beyond the usual surround with the latest immersive surround sound formats – such as Dolby Atmos or Dolby Surround and DTS: X, DTS Neural: X or DTS Virtual: X (future firmware update). Dolby Atmos: Dolby Atmos surround sound technology comes with channel programming in favor of more advanced object encoding, giving the soundtrack the designer the ability to accurately place sounds anywhere in 3D space. Now you can enjoy the same technology that is at home, with NR1608, which allows you to connect a 5.1 surround sound system and 2 additional speakers or 2 Dolby Atmos speakers for the best home cinema. Dolby Surround: Dolby Surround offers an improved cinema experience on your 2-cycle or multi-channel soundtracks using existing 5.1ch, 7.1ch or Dolby Atmos speakers. Dolby Surround improves sound definition by improving spatial size and overall audio definition of movie soundtracks. This is done through four different surround zones that provide greater control over the exact location of each detail in an audio recording, so that the audio can be more accurately reconciling with the video on the screen. This means more depth and more realism for your films. As a result, individual sounds are clearer and sharper. It also improves surround sound throughout the theater by expanding listening to a sweet spot. DTS: X: The latest surround sound immersion system. DTS: X features object-based audio encoding, allowing a soundtrack designer to place sound elements anywhere in 3D acoustic sound space and provides aerial speakers to deliver stunning surround sound. Along with DTS: X decoding, NR1608 features DTS-HD decoding of audio and other DTS audio technologies. DTS Neural: X: Additionally, DTS:X includes neural: X, the latest spatial rendering technology from DTS that provides a fully immersive output for all types of source content; this includes DTS bitstreams and unocoded (PCM) data. Neural:X delivers an exciting feeling of immersive sound to the layout of the regardless of the original source format. DTS Virtual:X: Virtual:X bridges the gap between DTS:X and the reality of most users' homes, allowing you to enjoy multi-dimensional sound regardless of speaker size, layout, or configuration. DTS Virtual: X delivers unprecedented acoustic performance, regardless of speaker configuration or room layout with improved bass, crystal clear dialog box, and enveloping sound thanks to Virtual Height & Virtual Surround processing based on psychoacoustics (no reflective surfaces). It will provide an immersive sound experience regardless of room layout or speaker configuration (stereo, 2.1, 3.1, 5.1, 7.1, etc.). The best of DTS Virtual:X supports any content from DVD, Blu-ray, UHD Blu-ray and more. Other listening modes: You can also choose one of the following listening modes. Stereo Playback: Sound is output from the front left and right speakers, as well as from the powered rebuffer. If multi-channel signals are introduced, they are mixed to two-channel sound. Tone settings can be adjusted. Virtual surround: Enjoy surround effects using only front speakers or headphone set. Multi-channel stereo: Left and right stereo channels are distributed to all speakers so that stereo sound can be heard from all directions in any listening position. Source Direct: Direct source mode provides playback of 2ch or multichannel audio in its original form without any surround or tone processing. Pure Direct: Pure Direct Mode goes a step further by turning off the receiver display and analog video circuits to minimize the ability to add any notified to the audio signal. Audyssey Bronze Bronze: NR1608 features the Audyssey Bronze Pack with powerful DSP features - including MultiEQ speaker/room calibration, Dynamic Volume and Dynamic EQ. MultiEQ: Through the supplied measuring microphone, Audyssey MultiEQ measures all speakers in home theater during setup, including the subwoofer, and generates multiple acoustic filters for high-precision DSP acoustic corrections that together provide the smoothest and most natural tonal balance, regardless of the make or model of the different speakers. Up to six listening positions can be measured, configured, and recorded. MultiEQ compensates for both time and listening frequency based on audyssey setup measurement results. The selection is made by three types of compensation curves - Reference (default and recommended, L/R Bypass, Flat, and Off). Dynamic Volume: Audyssey Dynamic Volume has advanced psycho-acoustic processing to provide clear dialogue and wide sound range at reduced sound levels so you can enjoy clarity at the theater level at whatever level you choose. Dynamic EQ: Audyssey EQ also has advanced DSP processing to provide a full range of wide range, even at reduced volume levels. Dynamic off at EQ level provides three bookmarks of reference at the film level (5 dB, 10 dB and 15 dB) that can be selected when the content mixing level is within the standard. Audio enhancements: The Marantz NR1608 receiver provides various audio enhancements to ensure high quality listening each time. Cinema EQ: Cinema EQ gently reduces the level of extreme high frequencies, compensating for the overly vivid sound of soundtrack sound. Select this function if the sound from the front speakers is too bright. This feature only works in Dolby Digital, DTS, Dolby Pro Logic and DTS Neo6 modes. M-DAX: Compressed audio formats such as MP3, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by removing signal components that are difficult to hear from the human ear. The M-DAX function generates the signals eliminated by compression, restoring sound to conditions close to those of the original sound before compression. It also adjusts the bass volume sensation to get richer sound with compressed audio signals. Dynamic Compression Range (DRC): Motion picture soundtracks have a huge dynamic range (the contrast between very soft and very loud sounds). For late-night listening, or when the maximum sound level is lower than usual, Dynamic Range Compression allows you to hear all sounds in the soundtrack with reduced dynamic range. DRC works when it plays program sources saved in Dolby Digital or DTS. Level fixes: NR1608 provides the following level adjustments. Source level: This feature adjusts the playback level of the currently selected audio input of the input source. Use this function if there are differences in input volume levels between different sources. You can adjust the playback level of the audio input from -12 to +12dB. Dialogue level: You can adjust the baseline (+/-12dB) to clarify the outcome of the central channel dialog. Subwoofer level: You can set the receiver subwoofer output level (+/-12dB) regardless of the levels of other speakers and the main sound of the system. Sound settings: NR1608 offers the following sound settings. Sound scale: You can choose to display an absolute volume scale (0-98) or a relative volume scale (-7.5 to 18dB). Volume limit: You can set a maximum sound level of 0, -10, or -20 dB to limit the overall output of the receiver sound. Power level: You can set the volume setting that is active when the power is on (0, -1.98, -79 to +18dB or Last) Mute: You can set the amount of mute audio circuit decay; -40dB or -20dB below the current volume, or full shutdown (sound is turned off completely). Audio outputs: The Marantz AV receiver features colour-coded connectors, dual output and a headphone jack front panel. Colour Speaker Terminals: The receiver has connecting post terminals for all speaker connections. Connecting terminals can accept bare wires, and banana plugs (single only). The receiver will receive speaker impedances from 4 to 16 ohm. The AV receiver comes with colour-coded labels to the speaker cable must be connected to. Since speaker cables have labels in the same colors as nr1608 rear panel connectors, there is no longer any confusion about the terminals to be connected to. Dual sub outputs: For compatibility with dual home theater systems with subwoofer, NR1608 has two non-discrete subwoofer outputs. With double subwoofers that can be placed in different parts of the room, you will benefit from the averaging of the reaction, which helps to provide smoother and more detailed deep bass than the conventional single speaker system for subwoofer. The same signal is output by each subconductor. Front outputs: This receiver has front channel outputs to connect an external power amplifier to the front speakers for greater power. Headphone jack: When the headset is plugged into a 1/4 full-size jack on the front panel, all speakers are automatically muted. VIDEO SECTION HDMI 2.0b: Eight HDMI inputs (including one conveniently located on the front panel) and one HDMI output, NR1608 includes an extended video section that features the latest HDMI 2.0b specification, including support for 4K/60 Hz Ultra HD video, 4:4:4 Color Selection, BT.2020 Wide Color Gamut, & High Dynamic Range (HDR). NR1608 also has HDCP 2.2 compatibility, a requirement for 4K Ultra HD content protected from copying. 4K/60Hz Pass-Through: NR1608 supports up to 4K (3840x2160 pixels) video @ 60 frames per second for all HDMI inputs and outputs (pass-through only). It will also switch to 480i, 480p, 720p, 1080i or 1080p video signals via HDMI. HDCP 2.2: All HDMI jacks on the receiver support HDCP 2.2, which fully meets the latest copyright protection standard for 4K video transmission. 4:4:4 Color sledding: All the receiver's HDMI rear panels support RGB, YCbCr 4:4:4, YCbCr 4:2: 2 and YCbCr 4:2:0 color sub-book module (@60Hz or 50Hz). With 4: 4: 4: 4 color subseed, brightness (brightness) and chromium (color) are taken at the same speed; As a result, the RGB color palette is as large as the video dial speed for a video image with more colors, plus greater color accuracy and detail. HdmI on the front panel supports only 4K 60/50Hz YCbCr 4:2:0 format. Wide color gamut (BT.2020). The BT.2020 color standard provides a much wider color gamut and represents about 75% of the total visual color spectrum, while the current Rec. 709 color standard selected as color space for HDTV and 4K Ultra HDt covers only 35% of the total visual color spectrum. HDR Compatibility: HDR provides improved picture quality while allowing for greater details for both dark and bright parts of the image. HDR reproduces a larger dynamic range of illumination or brightness levels, creating greater contrast. This increased contrast fine shades of the image, from detailed blacks and shadows to the brightest whites and colors, plus plus depth. The receiver supports HDR 10, Dolby Vision and HLG (via firmware update 2017). HDR 10: HDR 10 is an open standard and is currently the most popular HDR format on the market. Supports 10-bit color and 1000 nits. It uses static metadata at the beginning of the movie to tell your receiver and TV that the video content is encoded using HDR. HLG (via Firmware Update 2017): HLG (Hybrid Log Gamma) is primarily designed for live video and airborne broadcasting. It does not use pre-coded metadata and is backwardly compatible with SDR. HLG's built-in compatibility allows much of today's existing SDR infrastructure to be reused for HDR in the future. Dolby Vision: Unlike HDR 10, which contains static metadata, and HLG that doesn't use metadata, Dolby Vision uses dynamic metadata that adjusts brightness, color, and contrast automatically for each scene. Dynamic metadata contains information that maps each image to the ability to display your TV, so you'll see more of what the content creator wanted. Dolby Vision supports 12-bit color and 10,000 nits. 4K video inclination: The AV receiver is equipped with a 4K video board that allows standard resolution (480/480p) high definition sources and sources (720p/1080/1080p) to be converted to 4K Ultra HD (3840x2160 pixels) for high-resolution video images from any video source. This allows you to connect all your analog (composite/component) or digital (HDMI) video sources to NR1608 and then connect to the TV with only one HDMI cable. Other HDMI features: HDMI connection of HDMI on marantz NR1608 AV also offers 3D video pass through, ARC (Audio Return Channel), Deep Color & as well as an automatic LipSync function. 3D Ready: The AV receiver NR1608 supports 3D video passes (only 720p/1080p) from connected 3D compatible Blu-ray, games and broadcast devices to 3D-compatible HDTV (all 3D components must be connected via HDMI). A special eye will be required to watch 3D content. ARC (Audio Return Channel): This hdmi monitor output feature NR1608 allows audio to be sent from your compatible HDTV receiver via the same HDMI cable that is already used to send audio and video to your HDTV. This eliminates the need for additional cables connected to your TV. Deep Color & Color Support: The AV receiver supports deep and x.v.Color content that can display a larger color range than standard definition schemes. The result is a more realistic, vivid picture. LipSync: This feature adjusts the delay between audio and video output. You can do this manually or have the receiver set up LipSync automatically. When connected to a TV using the HDMI receiver, the receiver automatically adjusts the audio output if the TV supports lipsync automatic function. You can also manually postpone the sound output up to 500ms to sync it to the video. Standby pass-through mode and HDMI mode pass-through: When the AV receiver is in standby mode and is activated as audio/video streams from receivers, HDMI input will be output to your TV by exiting the HDMI monitor on the AV receiver. Once the receiver is turned on, only video will pass through the monitor output to your TV and the sound will head to the speaker outputs of the receiver. HDMI input: Selects the HDMI input for which the HDMI standby function is enabled. Last: The TV standby function is enabled on the input source selected when setting the AV receiver in Standby mode. Off: HDMI standby is turned off. Analog video inputs: The receiver has three composite video inputs and one composite video output monitor. There are also two video input components and one video output component. Composite and composite video jacks support only 480i video signals. Video selection feature: This receiver may display video from another source on your connected TV during playback of audio from a tuner or HEOS music apps. Advanced ISFCC video calibration: NR1608 is certified by the Science Imaging Foundation to provide the highest video quality, and the device also has advanced ISFccc video calibration tools that allow precise fine-tuning of the connected HDTV, even if it is not an ISF certified set. You can choose from different picture modes – standard, movies, bright, streaming, ISF day, ISF night, optional or Off. Custom mode allows you to manually adjust contrast, brightness, saturation, noise reduction, and amplifier (sharpness). Network & Tuner: Wired or wireless network connectivity features: The Marantz NR1608 receiver is equipped with an RJ-45 Ethernet port to connect the receiver to your home network. The unit also offers built-in WiFi (IEEE 802.11 a/b/g/n; 2.4/5GHz) for wireless network connection; SUPPORTS WPS, WEP, WPA-PSK (TKIP), WPA-PSK (AES), WPA2-PSK (AES) protection. Or the network connection gives the receiver access to HEOS music apps (such as Pandora, Spotify, Tidal, etc.), TuneIn, your music library on your Apple iOS or Android device, and music content on your Windows PC or DLNA music server. The wireless network setup can be done using a WPS button, access point scanning, manual setup, PIN code, or even using your Apple iOS device (5.0+). Note: Network setup requires the receiver to be connected to the TV via HDMI to display the OSD menu. The receiver's network setup cannot be accessed through its front panel. TuneIn Internet Radio: Marantz NR1608 includes access to more than 100,000 free internet radio streams from all over the world through the built-in online music service TuneIn. Simply select TuneIn from the receiver's ON-SCREEN menu using the included remote controls and browse among 100,000 stations neatly organized into popular categories and station that you like. Spotify Connect: If you subscribe to Spotify Premium and have the Spotify app on your Apple iOS or Android Android you can stream Spotify to the Marantz AV receiver. Spotify is a digital music service that gives you on-demand access to one of the world's largest music libraries (over 15 million songs and counting). Spotify makes it easy to discover, manage, and share music with your friends. You can view music by artist, album, song, or most popular; and create your own music library with custom playlists. Heos Music apps: With built-in HEOS technology and the HEOS app on your Apple iOS 7.0 or Android OS 4.0 devices, you'll be able to stream a wide variety of online music services. As well as the music library on your mobile device through the marantz AV receiver. Online music services: Using the HEOS app, you'll be able to stream your favorite online music service like Pandora, iHeart Radio, SiriusXM, TIDAL, Napster, TuneIn, Spotify Connect and Amazon Music. The HEOS app on your Apple iOS or Android device will serve as a controller for these apps and provide track/artist information with album art. You can create a list of Favorite Stations so you can quickly access your favorite radio stations and online music channels. Mobile streaming: Using the HEOS app on your Apple iOS or Android mobile device, you can stream your device's music library to the Marantz AV receiver. You'll be able to view your music library by artist, album, genre, and song; manage music playback features such as play/pause and Previous/Next recording; and view track/artist information with album art from the app on your compatible mobile device. You can even enter an artist name or song title to find music in the library on your mobile device. Heos Account: Before using the HEOS system, you'll need to set up your free HEOS account. Your HEOS account remembers all your settings and preferences, like all your music login services and HEOS playlists. When you want to add multiple smartphone or tablet controllers to your system, just sign in to any new device with a HEOS username and password. Immediately, all HEOS music services and playlists are also available on the new controller. If you prefer, several heos accounts are maintained in one household. In this way, each family member can enjoy their Pandora, Spotify, or other online music account settings and still share all the same speakers in the home. DLNA 1.5 Certified: NR1608 is DLNA (Digital Living Network Alliance) 1.5 and Windows 7/8 compatible for audio and photo network. This means it's easier for you to access and enjoy digital music and static images (JPEG) stored on your Windows PC. Use your computer to play high-speed content using the AV receiver and view still images on your connected TV, or use the NR1608 remote control to view music & photo files on your hard disk. The recipient also supports ID3-Tag (version 2) and meta tag information; the name of the song, the artist's name, and the album so that the of the OSD menu. In addition, the device will display the album cover on connected TV. Marantz NR1608 supports the following audio formats, sampling frequencies, and bit frequencies through its wired network connection. Resolution compatible audio formats Frequency Bit rate Bit rate extension Hi-Res WAV (PCM) 32/44.1/48/96/176.4/192 kHz 16/24-bit .wav FLAC (Free lossless audio code) 32/44.1/ 48 /96/176.4/192 kHz 16/24-bit .flac ALAC (Apple Lossless Audio Code) 32/44.1/48/96/192 kHz 16/24-bit .m4a DSD 2 8/8/1 5.6 MHz 1-bit .dsf/.dff Compressed MP3 (MPEG-1 Audio Layer-3) 32/44.1/48 kHz 32-320 kbps .mp3 WMA (Windows Media Audio) 32/44.1/0 HZ 48 - 192 kb/kbb .wma AAC (MPEG-4) 32/44.1/48 kHz 16-320 kbps .aac/m4a Note: Your computer must meet the following system requirements— a Windows Media Player network sharing service or Windows Media DRM10. Album art only appears when you use Windows Media Player (version 11/12). AM/FM tuner: The Marantz AV receiver has a built-in AM/FM tuner with 56 station automatically preset memory settings. You can also set your presets manually. You can create an 8-character name for each predefined station. You can even directly enter a station number using the receiver's OSD menu and remote control. Software updates: Using the receiver's network/Internet connection, you can check for and update the latest firmware from the online marantz server. Visit Marantz Circle to access downloads to support the current Marantz receiver. USB/AirPlay/Bluetooth front panel USB port integration: This AV receiver is equipped with a USB (Type-A) port on the front panel that allows you to enjoy various music files from a USB mass storage device; usb memory device or portable digital audio player. Compatible USB storage devices must be formatted in FAT 16 or FAT32. The device can recognize up to 500 folders/5,000 files. You can use the receiver's OSD menu (via HDMI) and remote control to navigate stored music files on the connected USB device. Song/artist information will be displayed on your HDMI-connected TV and on the front panel monitors. USB portable audio devices that can be charged via USB will be charged when plugged into the USB port of the AV receiver (5V/1A); even in standby mode. Resolution compatible audio formats Frequency Bit rate Bit rate extension Hi-Res WAV (PCM) 32/44.1/48/96/176.4/192 kHz 16/24-bit .wav FLAC (Free lossless audio code) 32/44.1/ 4 8/96/176.4/192 kHz 16/24-bit .flac ALAC (Apple Lossless Audio Code) 32/44.1/48/96/192 kHz 16/24-bit .m4a DSD 2 8/5.6 MHz 1-bit .dsf/.dff Compressed MP3 (MPEG-1 Audio Layer-3) 32/44.1/48 kHz 32-320 kbps AAC (MPEG-4) 32/44.1/48 kHz 16-320 kbps .aac/m4a Note: RECEIVER USB port is not compatible with Apple iPod/iPhone/iPad or Android smartphones . AirPlay 2 (via available firmware update): Through an available firmware update, the mARantz AV receiver will support AirPlay AirPlay AirPlay 2 is a modern and easy-to-use wireless multi-sweet audio platform for iTunes, Apple Music and other compatible Apple iOS apps. With AirPlay 2, you can play any sound from your Apple iOS (running iOS 11.4 or later) or Mac pc (with OS X 10.13.2) on the Marantz receiver and other compatible AirPlay 2 speakers in your home. You'll also be able to ask Siri for devices (such as the Apple iPhone, iPad, or Watch) to control apple music playback on the Marantz receiver. With AirPlay 2, you can see song/artist information and album art through the receiver's OSD menu (via HDMI). You can choose to play audio in the same room, play the same sound in grouped rooms, or play the same sound in each room (you can control and group directly from the Music App and Home on an Apple iOS device). You can even watch videos and movies from YouTube and Netflix on your compatible Apple iOS device or Mac pc with perfectly synchronized audio on the Marantz receiver. Built-in Bluetooth: Marantz NR1608 features built-in Bluetooth (version 3.0+EDR) with 98th wireless band for music streaming (A2DP 1.2) and control (AVRCP 1.5). You'll be able to wirelessly stream stored music and music apps from your smartphone, tablet, computer, laptop, and more. You'll also be able to control basic playback features (Play/Pause - Previous/Next Recording) using the receiver remote control. Advanced music and song/artist/album information will be done from your Bluetooth source device. Up to eight Bluetooth devices can be paired with NR1608, but only one device can be connected and used simultaneously. Note: Due to differences in Bluetooth technology, some Bluetooth devices may be incompatible, function incorrectly, or may not support all features when used with the Marantz AV receiver. Sound playback area for many rooms 2: Zone 2 allows you to play stereo audio from another source connected to the receiver in another room of your home via an RCA sound level output or a speaker level. When you use NR1608 to power the speakers in the second room of your home, the main area is limited to 5.1-channels. When using the receiver output terminals for the second room, you need an additional amplifier to power zone 2 speakers; the central area of the receiver remains 7.1-channel. The volume of Zone 2 can be controlled by the Marantz receiver by configuration or by the additional amplifier using the line output. Compatible sources: Analog audio inputs AM/FM tuner (you can't select different stations for each zone) US & Bluetooth Network Sources (AirPlay, TuneIn Internet Radio, Spotify Connect, HEOS Music apps, & Mac pc; DLNA); the same source is played in Zone 1 and Zone 2 Incompatible sources: HDMI & composite Video HDMI, Optical, & Coaxial digital audio DSD audio files Unfortunately, you can not choose USB, Bluetooth and network sources exclusively for each zone. For example, if you select a network source for Zone 2 when a USB source is selected for the main zone, the input source in the main zone also switches to the same network source as Zone 2. All stereo zones: The All Zone Stereo function allows you to enjoy the AV receiver's audio source in The Main Area in Zone 2 at the same time (regardless of the types of audio input signals - analog, digital or wireless). Only Multi Ch Stereo and Stereo sound modes can be selected during All Zone stereo mode. You will have independent volume control in each area. All Zone Stereo mode is useful when you want to enjoy the same music at the same time in several rooms during gatherings or parties. Heos Wireless Multiroom Audio: Built-in HEOS technology allows NR1608 to become part of the HEOS wireless audio ecosystem, allowing you to stream and manage all local and online music effortlessly from anywhere in your home with the HEOS app on your compatible Apple iOS or Android mobile device via a wireless WiFi connection. Heos system is a real multi-room audio system that automatically synchronizes audio playback between several HEOS devices, so your music (up to 24-bit / 192kHz Hi-Res audio) coming from different rooms is perfectly synchronized and always sounds amazing. You can play the same audio source (other than a connected TV) in any room or any combination of rooms you choose, including a different song in each room. Systems: The HEOS wireless multi-room audio system can support up to 32 speakers, receivers, amplifiers and/or preamplifiers (all sold separately) on one wireless network (IEEE 802.11 g/n; 2.4/5GHz). Sources: The following sources can be distributed through HEOS multi-room audio system - analog receiver inputs (HDMI & optical / coax digital is not supported); built-in AM/FM tuner and TuneIn Internet Radio, HEOS Music Apps & Spotify Connect & Music servers for windows computer & audio/usb; plus music libraries stored on your Apple iOS or Android mobile device. Heos wireless multi-room sound does not support AirPlay. Groups: You can join or group up to eight separate speakers or amplifiers into a group of speakers that function as a single speaker. The HEOS app is also flexible enough where you can create up to 16 groups (2 speakers/amplifiers per group). Party mode: You can easily group 16 rooms together in party mode using a pinch gesture. Note: Marantz AV receiver supports only one HEOS music stream. If you want a second HEOS music stream through the receiver's multi-zone output, you'll need to connect the HEOS Link to one of the analog inputs of the AV receiver. Remote & App Control AVR Remote App: The new Marantz AVR remote App: The new Marantz AVR remote app manage the Marantz AV receiver using your Apple (iOS 7.0) or Android (OS 4.0+). From this free app on your compatible Apple iOS or Android device, you will be able to control the basic features of the Marantz AV receiver; Like As sound, input, surround modes, and other settings. You'll also be able to control individual receiver areas, as well as navigate from the AV receiver network application and Internet content. In addition, you get unique features such as landscape orientation screen control for tablets, the ability to create playlists, and control over marantz blu-ray player; Landscape Orientation Control Screen: With a landscape screen to control orientation for tablet devices, you can easily browse and navigate through your network music services or personal digital music collection with ease, while viewing playback information and cover art on one screen. Create playlists: The app's playback screen allows you to easily create your own personal music lists on the go with the ability to drag and drop files into your queue, or tap Play Now, Play Next, Play Next and Replace Queue or Add to the End of the Queue. You can then save the queue as a playlist for easy download. Marantz Blu-ray Player Control: The app allows control over Marantz Blu-ray (UD5007/7007 series) players that are connected to the AV receiver via HDMI. Note: This AV receiver is not compatible with the older Marantz Remote Application. Heos App: You'll need to download the HEOS app on your Apple iOS 7.0+ or Android OS 4.0 to enjoy the HEOS function of the NR1608 receiver. Using your mobile device and the HEOS app, you can set up, view, explore, and control the HEOS system directly in the palm of your hand, from anywhere in your home. Your compatible Apple iOS or Android device must be connected to the same home wireless (WiFi) network as the AV receiver and its entire HEOS system. The HEOS app consists of 4 control screens. Settings: The Settings screen allows you to connect one or more speakers, receivers, amplifiers, and/or pre-amplifiers to your home's wireless network. Rooms: From the app on your Apple iOS or Android device, you can choose which rooms you want to play. You can play the same music in multiple rooms by grouping the rooms together, or you can listen to a different source in each room. Music / Sources: You can choose what music and which source you want to listen to from the app. Choose from online music services such as Pandora, Spotify, TuneIn, Tidal, etc.; Your music library on your Apple iOS or Android device. Windows PC/DLNA server or USB memory device; analog and analog inputs; as well as Bluetooth to THE HEOS AB. You can also select music from the playlists you've created, Favorites you've recorded, and your recent listening. Now playing: The Now Playing screen displays information about a song, artist, and album; together with the album cover. You also receive playback controls such as Play/Pause and Previous/Next Recording, plus Volume controls Up/Down and Mute. In addition to now playback features unique to the selected online music service or music library. MultiEQ Editor App: Download the MultiEQ Editor app on your Apple iOS 8.0 or either OS 4.0+ devices for additional sound customization and detailed setup to adapt sound to your room and personal preferences. This app allows you to view the results of speaker detection to properly check the installation. View before and after audyssey calibration results, making it easy to identify problems in the room, edit the Audyssey target curve for each channel pair to suit your tastes, adjust the EQ frequency adjustment range for each channel pair, switch between two high frequency rolls, enable/disable midrange compensation to make the vocal region brighter or smoother, and record and load the results. Alexa Compatible (via firmware update): through a network firmware update, Heos and Amazon Alexa customers can now enjoy alexa voice control plus high-quality wireless home audio. In addition to controlling your HEOS components with the HEOS app on your mobile device or tablet, you can now control them with Amazon Alexa voice technology and amazon Alexa device (including Amazon Echo, Echo Dot, Tap and Echo Show - all sold separately). Voice control functions include - Alexa voice commands include Volume (up/down, specific sound number, & off); Playback (playback, pause, stop, next, previous, resume); and power on/off. Heos Bar and HEOS AVR even support HDMI switching (1-4) via Alexa voice control. You can group your devices with heos using the HEOS app with an alexa-friendly name. Once grouped, Alexa's voice commands will control the group as a whole. If you only want to play audio content from one heos device in the group, you need to ungroup the device in the HEOS app. You can use voice commands to search for songs, albums and artists, and even podcasts and internet stations from HEOS and Alexa-compatible music apps - such as Amazon Music, Pandora, TuneIn, iHeartRadio, Spotify Connect, & Siri; SiriusXM. For a list of current Alexa voice commands supported by the HEOS HomeEntertainment skill, click here. For setup instructions, click here. Note: You'll need an Alexa-enabled device (Amazon Echo, Echo Dot, Tap or Echo Show - all sold separately) to work with your HEOS products via the voice command. Heos components and Alexa-enabled devices must be on the same network. Google Assistant support (via firmware update): Ask google home, the Google app (for Apple iOS 10.0+ and Android OS 4.4+) or other devices with a GOOGLE Assistant-built HEOS content control system throughout the listening environment. After you start the in the HEOS app, you can ask the Google Assistant to control the volume, play, pause, skip songs, and more. Once you've grouped your devices with heos using the HEOS app, you can use the Google Assistant and voice commands to control a group of HEOS devices in general. Make sure that the device has the latest HEOS software and firmware update installed. Notes: Firmware update (scheduled for 2019) will allow you to use the to load music services, on/off devices, switch inputs, etc. Click here for more on the Google HEOS Assistant. IR Remote: Marantz NR1608 comes with an infrared remote for wireless operation of the AV receiver. NR1608 can also be used to manage the selection of external audio/video components connected via HDMI that support HDMI control. The receiver can even be controlled by your HDMI connected Smart TV. HDMI-CEC: When you make an HDMI connection to a TV or Blu-ray player compatible with the NR1608 HDMI control function, you can perform the operations from the NR1608 remote control. Power off: Switch audio output devices. Switch audio input devices. Adjust volume and playback features. Smart TV control: When you connect NR1608 to your Smart TV, you have the option to control NR1608 via the TV remote control, allowing you to select an input, adjust the volume, and select surround sound mode. The receiver and TV must be connected via HDMI, with the HDMI-CEC function enabled on both components. Remote controls: Marantz NR1608 is equipped with the following custom remote inputs/outputs. Remote Input/Output: These RCA input output connectors allow you to connect NR1608 to the Marantz component equipped with remote control (RC-S) terminals. Exec B: This 3.5 mm input is used to control NR1608 from an external key pad (sold separately). DC shutter-release output: DC trigger output (3.5mm) allows you to connect an external device so that it can be turned on by NR1608. Network Management: You can manage this AV receiver from the web browser web control screen on your computer. NR1608 and your computer must be connected to the same home network. Convenience includes a slim design chassis with a contour front panel: The Marantz NR1608 AV surround receiver has a slim chassis design so that it can easily fit on a shelf or in a cupboard. NR1608 features a contour front panel that combines aluminum and glass resins for maximum shielding, dimensional stability and refined style. The front panel is clean, precise and welcoming. The volume and input selection buttons on the flank of the rectangular volume/source display, OSD w/ Setup Assistant (via HDMI): With the Marantz OSD and Setup Assistant, you can easily control, configure, and use the home theater system. The screen sensor and screen setup assistant have clear graphics and text that optimize critical system settings for the specific home theater setup. The OSD menu and setup assistant can only be displayed to your TV using HDMI. If you connect the receiver to the TV only via composite video, you will need to use the front panel display of the AV receiver to and the source. Note: The initial setting requires the receiver to be connected to the TV via HDMI to display the OSD menu. Many of the receiver setup features can only be found through the OSD menu and not on the front panel display. Smart Select: Select: Front panel and composite video control, you'll find four smart dial buttons that allow you to quickly choose from the most popular input sources. Smart Select NR1608 remembers not only your preferred inputs, but also your preferred audio settings, so you can enjoy precisely tailored sound with each of them. Source Name & Hide: You can change the display name (up to 8 characters) to a selected input source. If no login is used, you can hide it from the display so that you don't have to scroll past it when you change sources. Remote panel lock: To prevent this device from working accidentally, you can disable the operation of the front panel buttons and remote control. Sleep timer: This feature allows you to automatically set the power to standby after a preset time has expired; up to 120 minutes in increments of 10 minutes. Automatic standby: The device automatically enters standby mode when no commands are sent to the appliance for the specified time (15/30/60 minutes). Before entering standby mode, automatic standby is displayed on the front panel display and on the OSD menu. ECO mode: This receiver is equipped with ECO Mode function, which allows you to enjoy music and movies while reducing power consumption during use, Eco mode adjusts the maximum available power according to the sound level selected to reduce power consumption. 5-channel amplifier; 50 watts per 2-channel channel powered by built-in Wi-Fi allows wireless music playback from network computers, iPhones® via AirPlay® or music services such as Pandora® and Spotify® built into HEOS technology wirelessly connects compatible HEOS components for a complete 7-channel audio amplifier; 50 watts per channel with 2 channels powered Dolby Atmos® processing for use with speakers on the ceiling or height for more enveloping sound for a home theater with a double room/two source to connect the speakers in a second room

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