THX® TECHNOLOGY AND QUALITY ASSURANCE

THX is a technology and quality assurance system created by George Lucas. It is now recognized as the gold standard for home theater systems. THX is designed to ensure the best possible performance from DVD-Audio, DVD Video, and audio CDs.

MULTI-ZONE PLAYBACK THROUGH POWERED ZONE 2 AND ZONE 3

Powered Zone 2 and Zone 3 bring multi-zone entertainment to your home. With Powered Zone 2, you can enjoy one input source in the main room and a different source in another room through two different connection methods using a THX-Extender amp in Zone 2, or using only a pair of speakers in Zone 2. In the former case, you can enjoy 7.1-channel surround sound in the main room and play a different AV source in Zone 2. In the latter case, you can have 5.1-channel surround sound in the main room and play a different (stereo) AV source in Zone 2. With the THX-Extender, it’s possible to connect a receiver/intermediate amp in a third zone (Zone 3) to enjoy distributed entertainment in Zone 2 and Zone 3.

COLOR-CODED SPEAKER TERMINALS

These color-coded speaker terminals take the guesswork out of matching wires to the correct terminals. Simply attach the color-coded label to the speaker cable, and attach the cable to the same-colored speaker terminal for easy speaker connection.

CROSSOVER ADJUSTMENT

Precise crossover frequency set at 80 Hz. With crossover adjustment, you can set the frequency at which the subwoofer and other speakers begin to play. This lets you more accurately match the performance characteristics of the subwoofer to your front speakers.

ONKYO’S MICRO FIBER AND ADVANCED MICRO FIBER (A-MF)

The original Onkyo Micro Fiber (OMF) speaker cone utilizes a pure cotton weave to absorb vibrations. Also, a thin yet rigid fabric reinforcement offers greater strength and an accurate response. A new development, A-OMF, incorporates a PEN (polyethylene naphthalate) layer with a flexible cotton weave, making cones even stronger and more resistant to heat. Both cones achieve improved midrange clarity and imaging for an astonishingly vivid, natural sound.

Due to a policy of continuous product improvement, Onkyo reserves the right to change the technical and performance specifications without notice.

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"THX Select2," "THX Select," "THX Ultra2," "THX Ultra" and "THX Surround EX" are trademarks of THX Ltd. THX may be registered in some jurisdictions. All rights reserved.

"Dolby" is a registered trademark of Dolby Laboratories.

"DTS" (Digital Theater Systems) Technologies

DTS offers premium sound quality with optimal channel separation and sound quality. Like Dolby Digital, DTS offers high-definition 5.1-channel sound, but it uses less compression. DTS Neo:6 decodes a 6-channel sound from a stereo (2-channel) soundtrack and DTS Neo:6 creates an additional channel from the left and right surround channels. DTS 96/24 offers the sound quality of the 96/24 master. This format can be encoded on DVD-Video or on DVD-Audio to provide the highest audio fidelity.

CinemaFILTER™

The tonal balance of a film soundtrack can be edgy and bright when played back over audio equipment in your home. THX cinema soundtracks are designed to be played back in large theaters, using commercial equipment. CinemaFilter™ is a solution that restores the tonal balance of a movie soundtrack in the smaller environs of your home theater.

192 kHz/24-bit DACs

These high-performance digital-to-analog converters for all main channels in our top receivers. They not only boast a dynamic range of 120 dB, they process information faster and are virtually resistant to clock jitter, to ensure the best possible performance from DVD-Audio, DVD Video, and audio CDs.

We include these extremely effective digital-to-analog converters for all main channels in our top receivers. They not only boast a dynamic range of 120 dB, they process information faster and are virtually resistant to clock jitter, to ensure the best possible performance from DVD-Audio, DVD Video, and audio CDs.

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The real challenge for the home theater and audio industries is to reproduce movies and music exactly as the artist wanted you to hear them. It might be the highly charged emotion of a close-up shot; an accomplished orchestral soundtrack through a surround sound system; or the adrenaline rush following a crunching subwoofer explosion. Creating that perfect moment cannot be achieved through generic circuit design, technological gimmickry and cheap, inferior parts. With Onkyo’s approach, build quality, audio engineering excellence and practical design take precedence. Would you place your trust in an industry newcomer desperately searching for the “next big thing” or a name with a track record of producing industry firsts for over 50 years? We think the answer speaks for itself.
Premium Digital Surround Receivers—Superior Options in Home Theater

The Onkyo Mission Defined

At Onkyo, we feel we have a responsibility to deliver—a responsibility to deliver audio that cannot be simply rated in watts or by a number on the volume dial. We think of sound more metaphorically—sound that spans the entire audio range, from the subtlest nuances to the most awe-inspiring thunderous booms. By building our proprietary technologies and innovations with other sound-enhancing subwoofers, we have created our own “sound harmony”—a sound that you can confidently feel in the books you’ve felt and experienced.

Incorporating Our Own Proprietary Technology

We’re not interested in second best, which is why we have developed exclusive technologies such as WRAT (Wide Range Amplifier Technology), VLSC (Vector Linear Shaping Circuitry) and a massive High Current Power Supply (H.C.P.S.) transformer for our most expensive high-end receivers and for the audio requirements of digital formats and technologies. Today, you can find these features in every receiver in our Onkyo range.

3 Significant Benefits You Get From WRAT

**Benefit 1: Uncommonly Low-Noise/Feedback Design**—Get clearer, quieter sound. NFB (negative feedback) is the most cost-effective way to reduce noise at lower levels, but it severely limits an amplifier’s ability to respond to large signals (e.g. explosions and musical crescendos) and to produce sound at high frequencies. We use a low noise-level feedback loop with sophisticated feed-forward compensation to achieve a frequency response out to 100 kHz for high-resolution formats such as DVD-Audio and Super Audio CD as well as for regular CDs and DSD.

**Benefit 2: Closed Ground-Loop Circuits—Enjoy greater maximum volume without distortion**

If an amplifier’s ground potential (voltage) fluctuates during playback, you can expect noise in an open-loop circuit design where all circuits are connected to the power supply via one loop (like in any amplifier), the noise multiplies exponentially. Onkyo’s sophisticated closed-loop circuit design enables each circuit to go in and return directly to the power supply, which contains an individual circuit noise and keeps the ground potential free of distortion.

**Benefit 3: High Instantaneous Current Capability—Experience film soundtracks with greater impact**

After an amplifier outputs audio signals, speakers accumulate energy before and send energy back to the amplifier. The amplifier must immediately cancel the speaker’s influence and send energy back to the amplifier, decreasing the amount of energy in the circuit. The same current is also necessary to handle speaker impedance fluctuations, which can form an amplifier to provide four to six times its usual current during these situations. The instantaneous current capability of an Onkyo’s high-end digital amplifiers, which is the maximum current capability of even Onkyo’s small head units, is far below the power required to reproduce the wide dynamic range of movie soundtracks.

Auto Speaker Set-up with Microphone

On your RX-NR1000 A/V Home Network Receiver, you can use a microphone to optimize the sound system. With your RX-NR1000, you can use a microphone to optimize the sound system. You can also use it in a global radio, programming from Internet radio and Internet radio streams, and optimized up to your network-ready receiver.

The Onkyo auto-speaker set-up with microphone is the most popular feature in a receiver. This feature is perfect for anyone who wants to enjoy the full potential of their audio system. The RX-NR1000 features a powerful, easy-to-use set-up that will make your listening experience even better. The system will automatically optimize the sound system for your listening space, adjusting the sound pressure level and time delay of each channel. This ensures that your listening experience is the best possible, no matter where you are in the room.

Speaker A and B Mode for 7.1 Channels

For the ultimate in flexibility, the RX-NR1000 offers a unique mode that allows you to control each channel independently. The speaker A and B mode is ideal for those who want to optimize the sound system for different listening positions in the room. This mode allows you to adjust the levels of each speaker individually, ensuring that every listener in your home enjoys the same high-quality sound. The RX-NR1000 also offers a speaker B mode that allows you to control the sound system from another room, making it perfect for those who want to enjoy their music from multiple areas in their home.

Vector Linear Shaping Circuitry (VLSC™)

In conventional digital-to-analog methods, it is impossible to completely remove noise, which is the analog signal and ultimately degrades the sound emitted by your speakers. Onkyo’s VLSC™ circuit is designed to continuously balance between two discrete points (via a signal comparison generator) and the difference is joined with analog vectors in real-time to produce a smooth output waveform. This RX-NR1000 is a shining example of the future of networked home entertainment.

HDMI Video Upconversion with TBC (Time Base Corrector)

Incorporating Our Own Proprietary Technology

With Onkyo’s RI capabilities, you can connect your receiver to one of our exclusive network-ready receivers via a broadband router. Simply download Net-Tune™—Bring a World of Music into Your Home.

Transforming Your Surround Receivers—THX™ Ultra2 Certified TX-NR1000

As Onkyo’s flagship home network receivers, the TX-HD22 and TX-NR1000 are a pure expression of upgradable functionality, forward-thinking technology and unrivalled high-end audio quality that will effortlessly drive the most demanding home theater. With easily replaceable modules and upgradable software, the TX-NR1000 is prepared for virtually any future developments in the industry.

Net-Tune™—Bring a World of Music into Your Home

To enliven your MP3, WMA or WAV digital music files, you can connect your computer to one of our exclusive network-ready receivers via a broadband router. Simply download Net-Tune™—Bring a World of Music into Your Home.

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The lesser-used controls are neatly tucked away behind the drop-down panel.

**TX-SR803**  
THX™ Select2™ Certified 7.1-Channel A/V Surround Home Theater Receiver

- 180 W/Ch, Continuous 6 Ω, 1 kHz, JEITA
- THX™Select™Certified
- THX™Surround EX™, DTS®-ES™Discrete/Matrix, DTS®Neo:6, DTS®96/24, Dolby®Digital EX™, Dolby®Pro Logic®IIx
- VLSC (Vector Linear Shaping Circuitry) (L/C/R)
- Net-Tune™Function with MP3/WMA/WAV Decoding
- Ethernet Cable Plug-in Capability*
- WRAT (Wide Range Amplifier Technology)
- Dual 32-Bit Processing DIP Chips
- 192 kHz/24-Bit DAC x 6
- 96 kHz/24-Bit DAC x 2
- 2 Wideband Component Video Inputs and 1 Output
- Component Video Upconversion
- Powered Zone 2 and 12 V Trigger
- IR Input and Output
- DirectPure Audio Mode
- RS-232 Port for Interface Control
- A-Form Listening Mode Memory
- Color-Coded Dual Banana Plug-Compatible Transparent Speaker Posts
- Color-Coded 7.1 Multichannel Inputs and Pre Outs
- Crossover Adjustment (40/60/70/80/90/100/120/150/200 Hz)
- Compatible with RI Dock for the iPod
- Auto Speaker Set-up with Microphone
- Compatible with RI Dock for the iPod

* For copyright protection purposes, it is not possible to make a digital output signal from Ethernet input signals.

**TX-NR901**  
Integra THX™ Select Certified 7.1-Channel A/V Surround Home Network Receiver

- THX™ Select Certified
- THX™Select2™Certified
- THX™Surround EX™, DTS®-ES™Discrete/Matrix, DTS®Neo:6, DTS®96/24, Dolby®Digital EX™, Dolby®Pro Logic®IIx
- VLSC (Vector Linear Shaping Circuitry) (L/C/R)
- 192 kHz/24-Bit DACs for All Channels
- 7 Digital Inputs (5 Optical/2 Coaxial) and 1 Output (Optical)
- 5 S-Video Inputs and 3 Outputs
- RS232 Port for Interface Control
- Powered Zone 2 and 12 V Trigger
- IR Input and Output
- Pure Audio Mode
- A-Form Listening Mode Memory
- Color-Coded 7.1 Multichannel Inputs and Pre Outs
- Color-Coded Dual Banana Plug-Compatible Transparent Speaker Posts
- Color-Coded 7.1 Multichannel Inputs and Pre Outs
- Color-Coded Dual Banana Plug-Compatible Speaker Posts
- High-Performance Crossover Adjustment for HCS/38
- Auto Speaker Setup with Microphone
- Compatible with RI Dock for the iPod
- Backlit/Preprogrammed RI (Remote Interactive) Learning Remote with 3 macros and Mode Key LEDs

To create an A/V home theater receiver of exceptional quality, the challenge lies in incorporating the delicate processing circuits and amplifier components into the same chassis. When they both draw on the same power source, the amplifier dominates at peak moments. In a good design, it all works smoothly—as with the THX Select2 Certified TX-SR803 7.1-channel A/V surround home theater receiver. You have the best connections available—HDMI and component video—for the all-time, high-bandwidth transfer of video and audio signals to the latest HDMI displays. And to get the best out of today’s entertainment technologies, we’ve included Vector Linear Shaping Circuitry (VLSC) on all channels to ensure you’re getting the clearest possible signal from digital sources. This receiver is built to last, but also built to serve. Powered Zone 2 with a 12 V trigger enables you to activate stereo entertainment in another room of your choice, while you enjoy multichannel movies in your main room. You’ll also find a series of other refinements that enable this receiver to demonstrate its class. Besides all the digital connections you’ll ever need, you have a full range of onboard Dolby Digital and DTS® surround sound decoders and interface control (including with the latest touchscreen control units) via the RS232 port on the rear. A powerful blend of superb engineering design and functionality, the TX-SR803 is in a league of its own.
TX-SR703
THX™ Select2™ Certified 7.1-Channel A/V Surround Home Theater Receiver

As the latest incarnation of one of Onkyo’s most popular receivers, the THX Select2 Certified TX-SR703 looks set to excel in the mid-range category. In keeping with its impressive legacy, the TX-SR703 boasts high-grade parts and immaculate construction. With its THX Select2 certification, this receiver will effectively “correct” the idiosyncrasies of surround sound to suit your home theater environment. With a noticeably powerful 160 watts per channel, you want your digital movies and music delivered free of any noise picked up in digital-to-analog conversion—this is achieved by the inclusion of Onkyo’s VUIC (Vector Linear Shaping Circuitry) for all channels. All video signals are upconverted to component video for effortless connectivity with high-definition displays and improved quality (with any timing errors corrected in the process). And why confine yourself to one room? With Powered Zone 2, you can immerse yourself in multichannel bliss while sending stereo sources to another room—a satisfying compromise in the family home. With 7.1 multichannel inputs and pre outs, the TX-SR703 handles high-resolution playback of audio formats (Super Audio CD and DVD-Audio) and enables connection to external amplifiers. Add independent crossover adjustment from 40 Hz to 200 Hz with 10 Hz steps, and you have powerful low frequencies that recreate the floor-quaking impact of the cinema, right in your own home.

TX-SR603
7.1-Channel A/V Surround Home Theater Receiver

A tremendous gap exists between entry-level and seriously high-end home theater receivers. Where can you find a powerful, versatile, yet affordable 7.1-channel workhorse that can transform music and movies into something truly spectacular? Enter the TX-SR603—a receiver that houses the consistent power and superior signal processing necessary for uncompromised sound quality. If you’ve already made the move to HDTV—or are planning to—the TX-SR603’s ability to switch or upconvert to component video will enable transmission of pristine images through a single cable, no matter what video format you have connected. A time base corrector (TBC), meanwhile, alleviates “clock jitters”—short-term variations in the digital signal that can seriously degrade picture quality. And don’t think your entertainment is limited to one room. With Powered Zone 2, you can have a surround sound movie in your main room while a separate audio/video source is sent to another room. The TX-SR603 also carries extras that have proved popular in our more advanced receivers: Auto Speaker Set-up with Microphone, CinemaFILTER, and RI capability. Combining everything you need to move into a better league of home theater—the TX-SR603 by Onkyo.
Experience Cinema—The Way Movies and Music Are Supposed to Be

ExperienCinema™

Our over 50 years of expertise in immersive Sight & Sound allow you to experience pure listening and viewing pleasure through our ExperienCinema™ concept. Onkyo not only provides you with the highest picture quality available; it also makes high-quality sound from 192 kHz/24-bit digital-to-analog converters and Super Audio CDs and cleaner sound from your regular DAXs and CDAs.

192 kHz/24-Bit Audio DAC

Performing at a full 192 kHz/24-bit level of resolution, these state-of-the-art digital-to-analog converters deliver audio performance that is second to none. They boast a higher dynamic range than standard DAXs and CDAs and are capable of connecting to digital audio sources, which means you’ll enjoy the best possible performance from DVD-Audio discs and Super Audio CDs.

Exclusive Dual Direct Digital Path (DV-SP1000)

Unlike other DVD players that use inexpensive PC-board copper traces to transfer the digital audio signal, the DV-SP1000 employs dual high-quality heavy-gauge, shielded cables to directly output digital signals to your components. This protects the audio signal against potential noise from nearby microprocessors and power supplies. So if you use the optical or coaxial digital output to send multi-channel Dolby® Digital, DTS®, and more to your compatible receiver, you’re starting off with the cleanest possible signal.

Video Circuit On/Off Control

For the best audio quality possible, you can turn off the video circuitry when using the DV-SP1000 and DV-SP800 as audio-only players, eliminating the possibility of interference between the player’s video and audio circuitry.

BNC Component Video Output (DV-SP1000)

This three-pin video output gives you highest-quality video cable connection to the latest TVs, projectors, and monitors so you can get the best picture possible. The DV-SP1000 also supports advanced video harbors, which eliminates the usual artifacts such as dot crawl and moiré (wavelike or watered appearance), and gives stunning color fidelity with virtually no discernable video noise.

Picture CD Capability

Insert a disc containing picture files into a compatible Onkyo DVD player and enjoy the memories in a new and different way. With the DV-SP1000, you can enjoy the CD-quality sound from Dolby Digital, DTS, and more to your compatible receiver, you’re starting off with the cleanest possible signal.

Super Audio CD and DVD-Audio—Unprecedented Clarity (DV-SP1000, DV-SP800, DV-SP502)

Super Audio CD gives you all-channel performance of up to 100 kHz frequency response and a sampling rate of 2.822 MHz—64 times that of a regular CD. DVD-Audio gives you data-loss-free rendering of audio 4.3 times greater than an audio CD. Both give you the next step in the evolution of pristine surround sound.

HDMI™ (High-Definition Multimedia Interface) (DV-SP1000)

The DV-SP1000 incorporates the latest interface technology with the inclusion of HDMI (High-Definition Multimedia Interface) capability. The bandwidth interface supports not only remarkable amounts of uncompressed digital video, but also audio as well. Up to 5 Gbps of data more than twice what’s needed for a high-definition movie with surround sound can be handled, with room for any future requirements. All this is kept in the digital domain, where there are no D/A or A/D conversions needed—all of which ensures the highest picture and sound quality available.

Unprecedented Clarity (DV-SP1000, DV-SP800, DV-SP502)

Experience Cinema—The Way Movies and Music Are Supposed to Be

Analog Devices 216 MHz/14-Bit NSV® Video DAC (DV-SP1000)

A crucial factor in achieving clear, pristine digital video playback is the video D/A converter in your DVD player. The state-of-the-art 216 MHz/14-bit video DAC from Analog Devices featured in the DV-SP1000 gives you the highest picture quality possible. It takes the digital video signal straight from the disc to the back panel. This protects the audio signal against potential noise from nearby microprocessors and power supplies. So if you use the optical or coaxial digital output to send multi-channel Dolby® Digital, DTS®, and more to your compatible receiver, you’re starting off with the cleanest possible signal.

Video Circuit On/Off Control

For the best audio quality possible, you can turn off the video circuitry when using the DV-SP1000 and DV-SP800 as audio-only players, eliminating the possibility of interference between the player’s video and audio circuitry.

BNC Component Video Output (DV-SP1000)

This three-pin video output gives you highest-quality video cable connection to the latest TVs, projectors, and monitors so you can get the best picture possible. The DV-SP1000 also supports advanced video harbors, which eliminates the usual artifacts such as dot crawl and moiré (wavelike or watered appearance), and gives stunning color fidelity with virtually no discernable video noise.

Picture CD Capability

Insert a disc containing picture files into a compatible Onkyo DVD player and enjoy the memories in a new and different way. With the DV-SP1000, you can enjoy the CD-quality sound from Dolby Digital, DTS, and more to your compatible receiver, you’re starting off with the cleanest possible signal.

Super Audio CD and DVD-Audio—Unprecedented Clarity (DV-SP1000, DV-SP800, DV-SP502)

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Unprecedented Clarity (DV-SP1000, DV-SP800, DV-SP502)

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Video Circuit On/Off Control

For the best audio quality possible, you can turn off the video circuitry when using the DV-SP1000 and DV-SP800 as audio-only players, eliminating the possibility of interference between the player’s video and audio circuitry.

BNC Component Video Output (DV-SP1000)

This three-pin video output gives you highest-quality video cable connection to the latest TVs, projectors, and monitors so you can get the best picture possible. The DV-SP1000 also supports advanced video harbors, which eliminates the usual artifacts such as dot crawl and moiré (wavelike or watered appearance), and gives stunning color fidelity with virtually no discernable video noise.

Picture CD Capability

Insert a disc containing picture files into a compatible Onkyo DVD player and enjoy the memories in a new and different way. With the DV-SP1000, you can enjoy the CD-quality sound from Dolby Digital, DTS, and more to your compatible receiver, you’re starting off with the cleanest possible signal.
Even though the receiver drives your home theater, the delivery of precision audio and video signals is paramount in realizing the benefits of high-resolution audio and video formats. This is where the DV-SP1000 steps up: advanced circuitry and connectivity options that bring the best out of the full range of disc formats. With HDMI (High-Definition Multimedia Interface) enabling a pure video signal stream, the DV-SP1000 is the perfect partner for the latest HDTV displays. And to bring the best out of HD video formats, Oplus’ FlexScale™ enables video scaling of PAL and NTSC discs—up to 720p and 1080i—giving this player the edge that others fail to match. Progressive/interlaced scan processing for both PAL and NTSC is further enhanced by ports like an Analog Devices 216 Mb/64-bit video D/A converter and dedicated component video connections. DVD-Audio and Super Audio CD playback, delivered through two i.LINK ports, give you the best multichannel audio on offer—especially when the DV-SP1000 is paired with a receiver of comparable quality. A bi-directional RS-232 port, 12 V triggers and IR input/output enable compatibility with control systems. Such a remarkable universal player can’t go without recognition, which is why it’s THX Ultra Certified for its superb standards in home theater audio and video playback.
HT-S580  5.1-Channel AV Surround Home Theater Receiver/Speaker Package

HTF-430  5.1-Channel AV Surround Home Theater Receiver
- 120 W/channel (4Ω) / 1 Hz to 20 kHz / 0.09% THD • Onkyo DSP Dolby Digital, DTS / 24-bit / 96 kHz DAC / HCPS™ / WRAT / Neo:6 / Dolby®Digital, Dolby®Pro Logic®II / 108 dB Signal-to-Noise Ratio / 28 dB Dynamic Range
- 10 cm cone woofer / 2.5 cm balanced-dome tweeter / Onkyo AEET construction (ABS infused with wooden grain) / High-gloss finish / Aero Acoustic Drive for powerful and natural sound / Color-coded speaker terminals & speaker cables / Impedance: 8Ω

HTP-420  5.1-Channel Home Theater Speaker System
- 100 W/Ch, continuous 8Ω • Magnetically shielded  • Frequency response: 60 Hz–100 kHz  • WHD: 514 x 154 x 195 mm  • 13.8 kg
- 8 cm A-OMF cone woofer / 2.5 cm balanced-dome tweeter • Onkyo AEET construction (ABS infused with wooden grain) / High-gloss finish / Aero Acoustic Drive for powerful and natural sound / Color-coded speaker terminals & speaker cables / Impedance: 6Ω

HT-F670  5.1-Channel AV Surround Home Theater Receiver/Speaker Package

HTF-430  5.1-Channel AV Surround Home Theater Receiver
- 120 W/channel (4Ω) / 1 Hz to 20 kHz / 0.09% THD • Onkyo DSP Dolby Digital, DTS / 24-bit / 96 kHz DAC / HCPS™ / WRAT / Neo:6 / Dolby®Digital, Dolby®Pro Logic®II / 108 dB Signal-to-Noise Ratio / 28 dB Dynamic Range
- 10 cm cone woofer / 2.5 cm balanced-dome tweeter / Onkyo AEET construction (ABS infused with wooden grain) / High-gloss finish / Aero Acoustic Drive for powerful and natural sound / Color-coded speaker terminals & speaker cables / Impedance: 8Ω

HTP-420  5.1-Channel Home Theater Speaker System
- 100 W/Ch, continuous 8Ω • Magnetically shielded  • Frequency response: 60 Hz–100 kHz  • WHD: 514 x 154 x 195 mm  • 13.8 kg
- 8 cm A-OMF cone woofer / 2.5 cm balanced-dome tweeter • Onkyo AEET construction (ABS infused with wooden grain) / High-gloss finish / Aero Acoustic Drive for powerful and natural sound / Color-coded speaker terminals & speaker cables / Impedance: 6Ω

SKF-L500  2-Way Bass Reflex Speakers
- 48 cm A-OMF cone woofer x 2  • 25 cm balanced-dome tweeter / Onkyo HT-R330 (Advanced Extrusion Engineering Technology) construction / Magnetically shielded / Onkyo AEET construction (ABS infused with wooden grain) / High-gloss finish / Aero Acoustic Drive for powerful and natural sound / Color-coded speaker terminals & speaker cables / Impedance: 8Ω
- Frequency response: 45 Hz–150 Hz / WHD: 248 x 185 x 144 mm (with speaker stand) / 9.3 kg (without speaker stand)

SKR-L500  Surround Back Speaker
- 48 cm A-OMF cone woofer / 2 cm balanced-dome tweeter / Onkyo HT-R330 (Advanced Extrusion Engineering Technology) construction / Magnetically shielded / Onkyo AEET construction (ABS infused with wooden grain) / High-gloss finish / Aero Acoustic Drive for powerful and natural sound / Color-coded speaker terminals & speaker cables / Impedance: 8Ω
- Frequency response: 45 Hz–150 Hz / WHD: 248 x 185 x 144 mm (with speaker stand) / 9.3 kg (without speaker stand)

SKS-L500  Center/Surround Speaker Package
- 8 cm A-OMF cone woofer / 2 cm balanced-dome tweeter / Onkyo HT-R330 (Advanced Extrusion Engineering Technology) construction / Magnetically shielded / Onkyo AEET construction (ABS infused with wooden grain) / High-gloss finish / Aero Acoustic Drive for powerful and natural sound / Color-coded speaker terminals & speaker cables / Impedance: 8Ω
- Frequency response: 45 Hz–150 Hz / WHD: 248 x 185 x 144 mm (with speaker stand) / 9.3 kg (without speaker stand)

SKF-4600  2-Way Bass Reflex Speakers
- 48 cm A-OMF cone woofer x 2  • 25 cm balanced-dome tweeter / Onkyo HT-R330 (Advanced Extrusion Engineering Technology) construction / Magnetically shielded / Onkyo AEET construction (ABS infused with wooden grain) / High-gloss finish / Aero Acoustic Drive for powerful and natural sound / Color-coded speaker terminals & speaker cables / Impedance: 8Ω
- Frequency response: 45 Hz–150 Hz / WHD: 248 x 185 x 144 mm (with speaker stand) / 9.3 kg (without speaker stand)

SKR-4600  Surround Back Speaker
- 48 cm A-OMF cone woofer / 2 cm balanced-dome tweeter / Onkyo HT-R330 (Advanced Extrusion Engineering Technology) construction / Magnetically shielded / Onkyo AEET construction (ABS infused with wooden grain) / High-gloss finish / Aero Acoustic Drive for powerful and natural sound / Color-coded speaker terminals & speaker cables / Impedance: 8Ω
- Frequency response: 45 Hz–150 Hz / WHD: 248 x 185 x 144 mm (with speaker stand) / 9.3 kg (without speaker stand)

SKS-4600  Center/Surround Speaker Package
- 8 cm A-OMF cone woofer / 2 cm balanced-dome tweeter / Onkyo HT-R330 (Advanced Extrusion Engineering Technology) construction / Magnetically shielded / Onkyo AEET construction (ABS infused with wooden grain) / High-gloss finish / Aero Acoustic Drive for powerful and natural sound / Color-coded speaker terminals & speaker cables / Impedance: 8Ω
- Frequency response: 45 Hz–150 Hz / WHD: 248 x 185 x 144 mm (with speaker stand) / 9.3 kg (without speaker stand)
VL Digital—A Quest for the Perfect Digital Sound

Understanding the amplification process helps to explain the difference between analog and digital amplifiers. In an analog amplifier the analog input signal is converted into a pulse (digital) signal, and then converted back into an analog signal using a low-pass filter. An analog signal is constantly changing within a range extending from zero to a maximum value. However, a digital signal is comprised of “pulses”—a series of zeros and ones. The significant difference between analog and digital amplifiers is the basic principle used for amplification.

In an amplifier the power supply circuitry (actually the capacitor) collects electricity. A transistor (valve) opens when an input signal is received causing some of the collected energy to flow out through the output jacks. This process simply defines how amplification works. Analog amplifiers continuously change the transistor to adjust the size of the “valve” (opening) to match the changing input signal. On the other hand, digital amplifiers represent a pulse (open or closed switch) when there is a pulse or completely closed (switch is off) when there is no pulse.

Why the Interest in Digital Amplifiers?
First of all, we should consider an analog amplifier where the signal always lies between zero and a maximum value. Therefore, the amplifier functions as variable resistors that adjust the amount of electricity supplied by the power supply to match the input signal. Electricity that does not flow through the amplifier when the elements are closed is lost. For this reason, analog amplifiers suffer from a maximum power efficiency (relative to the power supply) of about 70%. The large amount of energy loss means that a substantial amount of heat is generated.

In a digital amplifier the signal level is either 0 or 1, and the amplifier elements function as switches. When connected to a power supply, the components are either on (positive) or off (negative). Consequently, digital amplifier elements always have very high efficiency—90% or better. So high, in fact, that small amplifiers can be compact and efficient.

Possibilities of the Digital Amplifier
At Onkyo, we are not only designing higher efficiency and a more compact size, we also believe there is a great opportunity to build a digital amplifier with improved sound. When a digital amplifier’s signal is 1 (the current is flowing from the power supply to the speaker), the amplifier elements in the output stage remain completely open. Broadly speaking, there is little resistance that consumes power between the power supply and the speakers. Consequently, there is no loss of power to heat. In contrast, with analog amplifiers, there is always some resistance between the power supply and speakers because of the manner in which the amplifiers operate.

Furthermore, since the output elements are used as switches in a digital amplifier, their properties such as linearity (a key issue in an analog amplifier) are not particularly significant. By reducing the number of parameters that the amplifier must control it is easier to ensure that the elements will be driven as intended in all circumstances. We believe that the potential of digital amplifiers lies in more accurate signal reproduction.

Another potential advantage is that digital, software-based reproduction allows more fine-tuning of the power supply. Analog recording techniques have limitations when recording low-frequency sounds. However, digital recording, which has become the dominant method for storing and reproducing audio data, has eliminated these limitations. For this reason, more and more of today’s music is based on powerful low-frequency sounds. These recordings contain less power in all its intensity.

Onkyo’s Approach to Digital Amplifiers
Based on the research of Onkyo’s development team, we believe power supply is essential to achieving quality sound from digital amplifiers even though their efficiency exceeds that of an analog amplifier. If we go back to the basics of amplification, we want an amplifying circuit that we can listen to—actually a sound that we can “feel.” For this purpose, we need a power supply with the lowest possible impedance and superior transient response. Very low manufacturers are building digital amplifiers with power supplies that follow our concept.

A great deal of attention has been given to power supply performance in every Onkyo digital amplifier. In fact, in the A-933 digital amplifier we have taken this concept even further by including two large-capacitor trans-formers—quite different from any other amplifier in its class.

Pulse Width Modulation (PWM) and Onkyo’s VL (Vector Linear) Technology
In digital amplifiers there are two methods of pulse conversion: pulse-width modulation (PWM), in which analog quantity is represented by the width of the pulse, and pulse density modulation (PDM), in which analog is represented by the number of pulses. Onkyo uses the PWM approach for a number of reasons:

1) PWM produces far less digital noise in the higher frequencies than PDM.
2) PWM is more efficient than PDM in terms of delay relative to the pulse input.
3) PDM is dependent on a large amount of negative feedback (NFB)—approaching 100%. Even in an open-loop amplifier, properties such as linearity (crucial in an analog amplifier) are not particularly significant. By reducing the number of parameters that the amplifier must control it is easier to ensure that the elements will be driven as intended in all circumstances. We believe that the potential of digital amplifiers lies in more accurate signal reproduction.

Onkyo’s VL (Vector Linear) Digital technology comprises a vector generator—an integrator (like a charger) and an integrator trigger generator. When the analog input signal is received, the vector generator outputs a current proportional to the size of the analog input. The current is sent to the integrator where it is “charged.” When the charge quantity reaches a specified value, the trigger operates and inverts the output pulse. Circuits charge and invert alternately producing pulse width modulation proportional to the analog signal.

The upper and lower portions of the spike noise waveform are symmetrical, so they have the same area. Therefore, if the signal analog spike noise, their charge quantities will cancel each other out. This will ensure accurate pulse width modulation at all times. Onkyo’s third-generation VL Digital technology includes an inverted Darlington circuit that can bypass earlier versions to accurately produce a current flow based on the input voltage.
Discs that have not been properly finalized may only be partially playable or not playable at all.

- CD-to-Tape Synchro Recording
- Rec Level Control
- Auto Tape-Bias Selector
- Auto-Space and Rec Mute
- High Speed Dubbing
- 8-Segment Peak Level Meters
- Peak Hold
- Remote Control
- Dolby® B and C Noise Reduction
- RI (Remote Interactive) System Compatible

Double Auto-Reverse Cassette Deck:

- DAR (Direct Access Recording)
- Direct Digital Path
- 2 Digital Outputs (Optical/Coaxial)
- Headphone Jack with Volume Control
- Quick Navigation for MP3 CD Playback
- 5-Stop Memory Playback and 4 Repeat Modes
- High Direct Path
- High-Rigidity, Anti-Resonance: Classic and Brass Stabilizers
- Extruded Aluminum Chassis and Selector Knobs
- Speaker A/B Posts
- Gold-Plated Banana Plug-Compatibel Speaker Posts
- Heavy-Duty Power Cord (Inlet Type)
- RI (Remote Interactive) Remote Control

Integrated Amplifier:

- 48 WOH, 5 W/L, 1 kHz, JEITA
- Pure Stream Power Supply
- All Direct Output Stage Circuitry
- Low-Impedance, Thick Bus Plate
- Optimum Gain Volume Circuitry
- Pre-Mono/On-Stereo Volume Control
- Tone Control (Bass, Treble, Loudness On/Off)
- Pure Direct Mode
- Discrete Phantom Power Circuitry
- 6 Gold-Plated Audio Inputs and 2 Outputs
- Phone Input
- High-Rigidity, Anti-Resonance: Classic and Brass Stabilizers
- Extruded Aluminum Chassis and Selector Knobs
- Speaker A/B Posts
- Gold-Plated Banana Plug-Compatible Speaker Posts
- Heavy-Duty Power Cord (Inlet Type)
- RI (Remote Interactive) Remote Control

CD Player:

- Plays Audio CDs, MP3 CDs, CD-R/RWs*
- VLSC (Vector Linear Shaping Circuitry)
- Plays Audio CDs, MP3 CDs, CD-R/RWs*
- VQA (Vector Quantizer Audio)
- Frequency Response: 5 Hz–20 kHz
- THD: 0.005% (1 kHz)
- S/N ratio: 90 dB
- Dynamic Range: 96 dB
- WHD: 435 x 91 x 308 mm
- 4.1 kg

FM/AM RDS Stereo Receiver:

- Plays Audio CDs, MP3 CDs, CD-R/RWs*
- VLSC (Vector Linear Shaping Circuitry)
- Plays Audio CDs, MP3 CDs, CD-R/RWs*
- VQA (Vector Quantizer Audio)
- Frequency Response: 5 Hz–20 kHz
- THD: 0.005% (1 kHz)
- S/N ratio: 90 dB
- Dynamic Range: 96 dB
- WHD: 435 x 150 x 322 mm
- 8.9 kg

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Amalgamate two great Onkyo components, the TX-L55 6.1-channel digital A/V receiver and the DV-L55 DVD/CD/MP3 CD player, and you have the basis for an exceptionally productive home theater system that also plays back music sources with precision and reliability. The SKS-HT230 speaker package also impresses with its striking design and well-defined sound. With PAL progressive video scan, multichannel playback and all the surround sound decoders you’ll be likely to need, the L-MS55 is a versatile, technologically dedicated package presented in a strikingly slick but low-profile design.


Perfectly Packaging Cinema and Sound in Your Home

Combining universal playback capability with an ergonomic design is no easy feat. The L-UN7 is ready for all your movies and music—including high-resolution Super Audio CD and DVD-Audio, as well as MP3 and WMA digital audio files. Unbelievable, such a versatile system wouldn’t look out of place even in the smaller rooms of your home. Naturally, audio quality also your concern. YSLC (Vector Linear Shaping Circuitry) and our latest speaker developments support a crystal-clear, nuanced sound rarely found in compact entertainment systems.

L-UN7, D-N7

2-Way Bass Reflex Loudspeakers

• 13 cm A-OMF diaphragm woofer
• 2.5 cm soft-dome tweeter
• Aero Acoustic Drive for powerful and natural sound
• V-Line for linear dispersion, reduced panel vibrations
• MDF cabinet
• Frequency response: 55 Hz–35 kHz
• Max input power: 70 W
• WHD: 167 x 268 x 250 mm
• 4.0 kg
A Class Balancing Act of Space-Saving and Inspiring Sound

Reflecting a design approach that regards performance and compactness as complementary, the CS-420 can't help but be noticed. Whether you're playing CDs, MP3s or radio, WRAT (Wide Range Amplifier Technology), discrete output stage circuitry and optimum volume output create the shortest, cleanest possible signal path—a significant factor in ensuring quality sound from CD receiver systems. Also, the high-gloss, piano-finish speakers not only look smart, they incorporate a raft of innovations that help enliven any musical genre.

Liverpool CS-210FX

CR-305FX

Amplifier Features
• 25 W/Ch, at 4 Ohm, JEITA  • WRAT (Wide Range Amplifier Technology)  • Frequency response: 10 Hz–50 kHz (±3 dB)  • High-current, low-impedance drive  • Discrete output stage circuitry  • 4-mode acoustic presence and super bass functions  • 4 audio inputs and 2 outputs

CD Player Features
• Plays audio CDs, CD-R/RWs  • Optical digital output  • DLX Link2 (sets peak levels when one-touch recording to an Onkyo MD/CD recorder)  • 20-track programming  • 4 play modes (Track/Full/Random/Memory)  • Repeat mode

Tuner & Other Features
• 4 timer mode settings (Play or Rec/Once or Every)  • Sleep timer  • 30 FM/AM presets  • Automatic FM scan tuning  • Usable sensitivity: 12.8 dBf, 1.0 µV (FM mono, 75 Ohm, IHF)/30 µV (AM)  • Capture ratio: 2.0 dB (FM)  • Image rejection ratio: 85 dB (FM)/40 dB (AM)  • IF rejection ratio: 90 dB (FM)/40 dB (AM)  • Aux input: 3.5 mm jack input  • Front panel: Composite with RI Dock for the iPod  • Remote control  • WHD: 205 x 103 x 362 mm  • 4.0 kg

D-N5FX

2-Way Bass Reflex Speakers
• 12 cm cone woofer  • 2.0 cm balanced-dome tweeter  • Magnetically shielded  • S-Line Edge for responsive, hi-fidelity sound  • Impedance: 5 Ohm  • Max. input power: 70 W  • Frequency response: 50 Hz–40 kHz  • WHD: 147 x 253 x 250 mm  • 3.4 kg

CS-210FX

An Elegant Blend of Quality and Style for When Space is at a Premium

Liverpool CS-220

CR-B8

Amplifier Features
• 26 W/Ch into 4 Ohm, JEITA  • WRAT (Wide Range Amplifier Technology)  • High-current, low-impedance drive  • Discrete output stage circuitry  • Optimum gain volume circuitry  • Tone control (Bass/Treble)  • 2-step super bass control  • 3 audio inputs and 2 outputs  • Subwoofer pre out

CD Player Features
• Plays audio CDs, MP3 CDs, CD-R/RWs  • Optical digital output  • 25-track programming  • 4 play modes (Normal/Random/Memory/Group)  • 2 repeat modes (Track/All)

Tuner & Other Features
• 4 timer mode settings (Play or Rec/Once or Every)  • Sleep timer  • 30 FM/AM presets  • Automatic FM scan tuning  • Usable sensitivity: 12.8 dBf, 1.0 µV (FM mono, 75 Ohm, IHF)/30 µV (AM)  • Capture ratio: 2.0 dB (FM)  • Image rejection ratio: 85 dB (FM)/40 dB (AM)  • IF rejection ratio: 90 dB (FM)/40 dB (AM)  • Aux input: 3.5 mm jack input  • Front panel: Composite with RI Dock for the iPod  • Remote control  • WHD: 155 x 241 x 354 mm  • 4.6 kg

D-B8

2-Way Bass Reflex Speakers
• 13 cm cone woofer  • 2.5 cm soft-dome tweeter  • Magnetically shielded  • V-Line Edge to minimize unnecessary vibrations  • MDF Cabinet with high gloss piano finish  • Impedance: 5 Ohm  • Max input power: 70 W  • Frequency response: 50 Hz–35 kHz  • WHD: 150 x 241 x 263 mm  • 3.6 kg

CS-420

2005-2006 Liverpool Mini Components

CR-505

Amplifier Features
• 25 W/Ch, at 4 Ohm, JEITA  • WRAT (Wide Range Amplifier Technology)  • Frequency response: 10 Hz–50 kHz (±3 dB)  • High-current, low-impedance drive  • Discrete output stage circuitry  • Tone control (Bass/Treble)  • Tone direct  • 3 audio inputs and 2 outputs

CD Player Features
• Plays audio CDs, CD-R/RWs  • Optical digital output  • 20-track programming  • 4 play modes (Normal/Tap/Tap/Tap)  • Repeat mode

Tuner & Other Features
• 4 timer mode settings (Play or Rec/Once or Every)  • Sleep timer  • 40 FM/AM presets  • Automatic FM scan tuning  • Usable sensitivity: 12.8 dBf, 1.0 µV (FM mono, 75 Ohm, IHF)/30 µV (AM)  • Capture ratio: 2.0 dB (FM)  • Image rejection ratio: 85 dB (FM)/40 dB (AM)  • IF rejection ratio: 90 dB (FM)/40 dB (AM)  • Aux input: 3.5 mm jack input  • Front panel: Composite with RI Dock for the iPod  • Remote control  • WHD: 155 x 241 x 354 mm  • 4.6 kg

D-76GFX(W)
**R-805TX(SH)**

Hi-Fi FM/AM Receiver

- 24 W/Ch, at 4 Ω, JEITA
- WRAT (Wide Range Amplifier Technology)
- Frequency response: 10 Hz–100 kHz (+0, -3 dB)
- High-current, low-impedance drive
- Discrete output stage circuitry
- 4-mode acoustic presence circuitry
- Full-function RI (Remote Interactive) remote control
- S/N ratio: 73 dB (FM mono, IHF)
- WHD: 155 x 94 x 285 mm
- 2.9 kg

**C-701A**

CD Player

- DLA Link2 (sets peak levels when one-touch recording to an Onkyo MD/CD recorder)
- Specified track dubbing
- 2-mode one-touch CD recording (Album/Fade)
- 2 optical digital inputs
- Frequency response: 10 Hz–20 kHz (±0.5 dB)
- S/N ratio: 100 dB
- Dynamic range: 95 dB
- WHD: 155 x 76 x 286.5 mm
- 2.3 kg

**D-022A**

2-Way Bass Reflex Speakers

- 12 cm OMF cone woofer
- 2.5 cm soft-dome tweeter with neodymium magnet
- Magnetically shielded
- High-purity copper speaker cable supplied
- Impedance: 4 Ω
- Max. input power: 70 W
- Frequency response: 60 Hz–40 kHz
- WHD: 136 x 244 x 227 mm
- 3.0 kg

**C-701A**

CD Player

- 2 optical digital outputs
- DLA Link (sets peak levels when one-touch recording to an Onkyo MD/CD recorder)
- 25-track one-touch recording
- Frequency response: 5 Hz–20 kHz
- S/N ratio: 80 dB
- Dynamic range: 92 dB
- WHD: 155 x 76 x 281.5 mm
- 2.0 kg

**D-022A**

2-Way Bass Reflex Speakers

- 13 cm OMF diaphragm woofer
- 2.5 cm soft-dome tweeter
- Magnetically shielded
- High-purity copper speaker cable supplied
- Impedance: 4 Ω
- Max. input power: 70 W
- Frequency response: 55 Hz–35 kHz
- WHD: 162 x 284 x 232 mm
- 3.9 kg
Wondered About the Future of Sound and Vision?—Here It Is

Liverpool AV-4600

TX-SR603
7.1-Channel AV Surround Home Theater Receiver
- 150 W into 8 Ohms, 4 & 2 Ohms
- Dolby® Digital, DTS® Neo:6, DTS® Neo:12, and DTS® ES Surround Matrix
- Pure Direct mode
- Auto Bitstream de-emphasis
- Component video outputs
- 3 wideband component video inputs and 1 output
- 96/24, Dolby® Digital EX™, Dolby® Pro Logic® IIx
- H.C.P. S. (High Current Power Supply) massive high power transformer
- 2-ch link in/out (600 W at 4-8 ohms, 85% efficiency at 4 ohms)
- Magnetically shielded
- Max. input power: 130 W
- Frequency response: 60 Hz–35 kHz
- WHD: 161 x 288 x 93 mm
- 1.1 kg

Center Speaker
- 130 W/Ch, continuous(4 Ohm, 1 kHz, JEITA)
- DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® Neo:12
- VLSC (Vector Linear Shaping) for improved accuracy
- H.C.P. S. (High Current Power Supply) massive high power transformer
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Surround Back Speaker
- 10 cm cone woofer x 2  • 2 cm balanced-dome tweeter  • Wall-mounting bracket  • Maximum input power: 100 W  • Frequency response: 80 Hz–35 kHz
- WHD: 145 x 280 x 146 mm
- 1.9 kg

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Home Theater Speakers

Ske-6600
Center/Surround Speaker Package
- 130 W/Ch, continuous(4 Ohm, 1 kHz, JEITA)
- DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® Neo:12
- VLSC (Vector Linear Shaping) for improved accuracy
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You’ll Wonder How Home Theater Could Be So Complete

Liverpool AV-L500

TX-SR503
7.1-Channel AV Surround Home Theater Receiver
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- Dolby® Digital, DTS® Neo:6, DTS® Neo:12
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- Auto Bitstream de-emphasis
- Component video outputs
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- Max. input power: 130 W
- Frequency response: 60 Hz–35 kHz
- WHD: 161 x 288 x 93 mm
- 1.1 kg

Center Speaker
- 130 W/Ch, continuous(4 Ohm, 1 kHz, JEITA)
- DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® Neo:12
- VLSC (Vector Linear Shaping) for improved accuracy
- H.C.P. S. (High Current Power Supply) massive high power transformer
- 2-ch link in/out (600 W at 4-8 ohms, 85% efficiency at 4 ohms)
- Magnetically shielded
- Max. input power: 130 W
- Frequency response: 60 Hz–35 kHz
- WHD: 161 x 288 x 93 mm
- 1.1 kg

Center/Surround Speaker Package
- 130 W/Ch, continuous(4 Ohm, 1 kHz, JEITA)
- DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® Neo:12
- VLSC (Vector Linear Shaping) for improved accuracy
- H.C.P. S. (High Current Power Supply) massive high power transformer
- 2-ch link in/out (600 W at 4-8 ohms, 85% efficiency at 4 ohms)
- Magnetically shielded
- Max. input power: 130 W
- Frequency response: 60 Hz–35 kHz
- WHD: 161 x 288 x 93 mm
- 1.1 kg

Surround Back Speaker
- 10 cm cone woofer x 2  • 2 cm balanced-dome tweeter  • Wall-mounting bracket  • Maximum input power: 100 W  • Frequency response: 80 Hz–35 kHz
- WHD: 145 x 280 x 146 mm
- 1.9 kg

Surround Speaker
- 10 cm cone woofer x 2  • 2 cm balanced-dome tweeter  • Wall-mounting bracket  • Maximum input power: 100 W  • Frequency response: 80 Hz–35 kHz
- WHD: 145 x 280 x 146 mm
- 1.9 kg

Surround Speaker
- 10 cm cone woofer x 2  • 2 cm balanced-dome tweeter  • Wall-mounting bracket  • Maximum input power: 100 W  • Frequency response: 80 Hz–35 kHz
- WHD: 145 x 280 x 146 mm
- 1.9 kg

Home Theater Speakers

Ske-5500
Center/Surround Speaker Package
- 130 W/Ch, continuous(4 Ohm, 1 kHz, JEITA)
- DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® Neo:12
- VLSC (Vector Linear Shaping) for improved accuracy
- H.C.P. S. (High Current Power Supply) massive high power transformer
- 2-ch link in/out (600 W at 4-8 ohms, 85% efficiency at 4 ohms)
- Magnetically shielded
- Max. input power: 130 W
- Frequency response: 60 Hz–35 kHz
- WHD: 161 x 288 x 93 mm
- 1.1 kg

Center Speaker
- 130 W/Ch, continuous(4 Ohm, 1 kHz, JEITA)
- DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® Neo:12
- VLSC (Vector Linear Shaping) for improved accuracy
- H.C.P. S. (High Current Power Supply) massive high power transformer
- 2-ch link in/out (600 W at 4-8 ohms, 85% efficiency at 4 ohms)
- Magnetically shielded
- Max. input power: 130 W
- Frequency response: 60 Hz–35 kHz
- WHD: 161 x 288 x 93 mm
- 1.1 kg

Center Speaker
- 130 W/Ch, continuous(4 Ohm, 1 kHz, JEITA)
- DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® Neo:12
- VLSC (Vector Linear Shaping) for improved accuracy
- H.C.P. S. (High Current Power Supply) massive high power transformer
- 2-ch link in/out (600 W at 4-8 ohms, 85% efficiency at 4 ohms)
- Magnetically shielded
- Max. input power: 130 W
- Frequency response: 60 Hz–35 kHz
- WHD: 161 x 288 x 93 mm
- 1.1 kg

Home Theater Speakers
<table>
<thead>
<tr>
<th>FEATURES</th>
<th>TX-NR1000</th>
<th>TX-NR901</th>
<th>TX-SR803</th>
<th>TX-SR703</th>
<th>TX-SR603</th>
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### SPECIFICATIONS

#### AV Receivers

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<tr>
<th>Model</th>
<th>TX-NR1000</th>
<th>TX-NR901</th>
<th>TX-SR602</th>
<th>TX-SR703</th>
<th>TX-SR803</th>
<th>TX-SR903</th>
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<tbody>
<tr>
<td>Charcoal</td>
<td>300 W/CH</td>
<td>190 W/CH</td>
<td>110 W/CH</td>
<td>110 W/CH</td>
<td>110 W/CH</td>
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<tr>
<td>Silver</td>
<td>300 W/CH</td>
<td>190 W/CH</td>
<td>110 W/CH</td>
<td>110 W/CH</td>
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<tr>
<td>Black</td>
<td>300 W/CH</td>
<td>190 W/CH</td>
<td>110 W/CH</td>
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<tr>
<td>Dimensions</td>
<td>435 x 150 x 374 mm</td>
<td>17.2 dBf, 2.0 µV (75 Ω)</td>
<td>435 x 150 x 374 mm</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Weight</td>
<td>33 kg</td>
<td>30 kg</td>
<td>19 kg</td>
<td>30 kg</td>
<td>32 kg</td>
<td>33 kg</td>
</tr>
<tr>
<td>Number of Chanels</td>
<td>7.1 CH</td>
<td>7.1 CH</td>
<td>7.1 CH</td>
<td>7.1 CH</td>
<td>7.1 CH</td>
<td>7.1 CH</td>
</tr>
<tr>
<td>Input Sensitivity</td>
<td>200 mV, 470 Ω</td>
<td>0.08 % (All channels)</td>
<td>200 mV, 470 Ω</td>
<td>—</td>
<td>—</td>
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</tr>
<tr>
<td>Frequency Response</td>
<td>4 Hz-22 kHz (48 kHz)</td>
<td>THD (Rated Power)</td>
<td>4 Hz-22 kHz (48 kHz)</td>
<td>—</td>
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#### DVD Players

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<th>Model</th>
<th>DV-SP1000</th>
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<th>DV-SP502</th>
<th>DV-SP703</th>
<th>DV-SP903</th>
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<td>Model</td>
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<td>A-9555</td>
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</tr>
<tr>
<td>Frequency Range Digital Audio</td>
<td>4 Hz-22 kHz (48 kHz)</td>
<td>THD (Rated Power)</td>
<td>4 Hz-22 kHz (48 kHz)</td>
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<td>—</td>
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<tr>
<td>Audio CD</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>40 dB at 1 kHz</td>
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<tr>
<td>Audio QP</td>
<td>30 µV</td>
<td>30 µV</td>
<td>30 µV</td>
<td>30 µV</td>
<td>30 µV</td>
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<tr>
<td>Power Output</td>
<td>200 mV, 470 Ω</td>
<td>0.08 % (All channels)</td>
<td>200 mV, 470 Ω</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>1710/1611 kHz</td>
<td>THD (Rated Power)</td>
<td>1710/1611 kHz</td>
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</tr>
<tr>
<td>Dimensions</td>
<td>530 x 136 x 90.5 mm</td>
<td>0.08 % (All channels)</td>
<td>530 x 136 x 90.5 mm</td>
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<tr>
<td>Weight</td>
<td>8.5 kg</td>
<td>8.5 kg</td>
<td>8.5 kg</td>
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#### HDS V9-1500

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<td>Frequency Range Digital Audio</td>
<td>4 Hz-22 kHz (48 kHz)</td>
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<td>Audio CD</td>
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<td>Audio QP</td>
<td>30 µV</td>
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<td>Power Output</td>
<td>200 mV, 470 Ω</td>
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<td>Power Consumption</td>
<td>1710/1611 kHz</td>
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<td>Dimensions</td>
<td>530 x 136 x 90.5 mm</td>
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<td>Weight</td>
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**Notes:**

- Dimensions are measured at 0% moisture content.
- THD (1 kHz) is measured with a sweep of 1 kHz, DIN.
- THD (Rated Power) is measured using a sweep of 1 kHz, JEITA.
- THD (Dynamic Power) is measured using a sweep of 1 kHz, JEITA.
- Linear Velocity is measured with a sweep of 1 kHz, JEITA.
- Power Output (4 Ω) is measured with a sweep of 1 kHz, JEITA.