



GLOSSARY

THX™ TECHNOLOGY AND QUALITY ASSURANCE

Filmmaker George Lucas originally created THX™ as a studio-reference monitoring tool, and THX Ltd. is now recognized as the leading provider of product and venue certification for the cinema and home entertainment industries. THX™ Surround EX™ extends the 5.1-channel format by adding a back surround channel matrixed from the left and right surround channels. THX™ Select2™ (for small- to medium-sized rooms) is a certification standard that features THX listening modes, including THX Cinema, THX Music and THX Games modes, as well as Adaptive Speaker Array (ASA) technology for optimizing playback of multichannel movies, music and video games in the home. THX™ Ultra2™ is designed for larger, dedicated home theater environments. Both certification programs include THX features such as Timbre Matching™, Bass Management™, Adaptive Decorrelation™ and Re-Equalization (Re-EQ™).



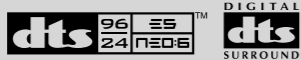
DOLBY® DIGITAL TECHNOLOGIES

Dolby is a recognized pioneer of multichannel audio reproduction. And with the upcoming Dolby® Digital Plus and Dolby® TrueHD codecs (back-compatible with Dolby® Digital-enabled A/V receivers), they have also shown that they are a vital leader in home entertainment. Among their current formats, Dolby® Digital EX™ creates six full-bandwidth channels from 5.1-channel sources, using a matrix decoder to create an extra surround channel. Dolby® Pro Logic® IIx transforms any stereo or 5.1 signal into a 6.1- or 7.1-channel output, with modes that enable the listening experience to be tailored to the source material. Game mode, for example, can deliver full-impact special effects signals to the surround speakers. Dolby® Virtual Speaker and Dolby® Headphone are virtual surround technologies.



DTS® (DIGITAL THEATER SYSTEMS) TECHNOLOGIES

DTS offers premium sound quality with optimal channel separation. Like Dolby, DTS has two new back-compatible codecs for high-definition formats: DTS®-HD Master Audio and DTS®-HD, both of which will work with standard DTS®, a discrete 5.1-channel system. DTS® Neo:6 derives 6-channel sound from a stereo (2-channel) soundtrack (and DTS® Neo:6 5.1 derives 5.1-channel sound). DTS®-ES™ comprises DTS®-ES™ Discrete, which provides a 6.1-channel system with a discrete back surround channel; and DTS®-ES™ Matrix, which provides a 6.1-channel system with a matrix-encoded back surround channel. DTS® 96/24 offers you the sound quality of the 96/24 master, which can be encoded on DVD-Video or in the video zone of DVD-Audio.



CinemaFILTER™

The tonal balance of a film soundtrack can be edgy and bright when played back over audio equipment in your home—this is because film soundtracks are designed to be played back in large theaters, using commercial equipment. Onkyo has developed its own solution that restores the correct tonal balance of a movie soundtrack in the smaller environs of your home theater.



192 kHz/24-BIT DACs

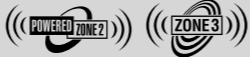
We include these extremely effective digital-to-analog converters for all main channels in our top receivers. They not only boast a dynamic range of 120 dB, they process information faster and are virtually resistant to clock jitter, to

ensure the best possible performance from DVD-Audio, DVD-Video, Super Audio CD and audio CD.

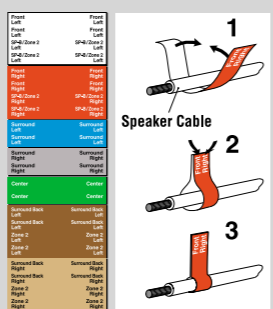


MULTI-ZONE PLAYBACK THROUGH POWERED ZONE 2 AND ZONE 3

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 receiver/integrated amp in Zone 2, or using only a pair of speakers in Zone 2. In the former case, you can enjoy 7.1 surround sound in the main room and play a different A/V source in Zone 2. In the latter case, you can have 5.1 surround sound in the main room and play a different (stereo) A/V source in Zone 2. With the TX-NR1000, it's possible to connect a receiver/integrated amp in a third zone (Zone 3) to enjoy distributed entertainment as in Zone 2. This way, you can enjoy a full 7.1-channel source in the main room, while playing two separate stereo sources 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

Depending on your choice of Onkyo A/V receiver, you can set the subwoofer crossover at different frequencies. Being able to choose where the subwoofer takes over bass-producing responsibilities from the front speakers gives you more precise reproduction of movie soundtracks. It also means you can select from a wider range of speaker packages, and match speakers with differing crossover frequencies to your home theater system.

ONKYO'S MICRO FIBER AND ADVANCED MICRO FIBER (A-OMF)



The original Onkyo Micro Fiber (OMF) speaker cone utilizes a pure cotton weave to absorb vibrations. Also, a thin yet rigid flexing diaphragm enables an extremely fast and 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. We then added an aramid

layer to create New A-OMF. All three cones achieve improved midrange clarity and imaging for an astonishingly vivid, natural sound.



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DTS, DTS-ES Extended Surround, DTS 96/24 and Neo:6 are trademarks of Digital Theater Systems, Inc.

iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

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DivX® is a registered trademark of DivX, Inc.

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For the latest updates covering Asia, Oceania and South America, we cordially invite you to visit www.intl.onkyo.com. Here you can find out what's new at Onkyo and get useful information on our product range. You can also find out how to contact us and where to buy our quality components in your country.



A New Reality
Innovative Home Theater by Onkyo

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 display. We think of sound more realistically—sound that spans the entire audio range, from the subtlest nuances to the most awe-inspiring thunderous booms. By bundling our proprietary technologies and innovations with other sound-enhancing exclusives, we have created our own “sound harmony”—a sound that we’re confident you’ll feel is the best you’ve heard, felt and experienced.

Incorporating Our Own Proprietary Technology

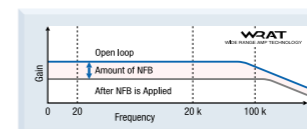
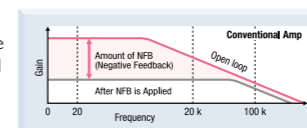
We’re not interested in second best, which is why we have developed exclusive technologies such as Wide Range Amplifier Technology (WRAT), Vector Linear Shaping Circuitry (VLSC) and a massive High Current Power Supply (H.C.P.S.) transformer for our most expensive high-end receivers and for the audio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

3 Significant Benefits You Get From WRAT

Benefit 1: Uncommonly Low Negative-Feedback Design— Get cleaner sounds on program peaks

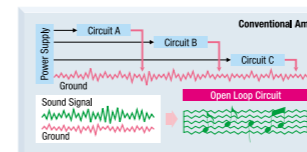
NFB (negative feedback) is the most cost-effective way to reduce noise at lower frequencies, but it will severely inhibit an amplifier’s ability to respond to large signal gains (e.g. explosions and musical finales) and to produce sound at high frequencies. We use a low negative-feedback design with audiophile-grade, close-tolerance components at critical points in the signal path 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 DVDs.

WRAT
WIDE RANGE AMP TECHNOLOGY



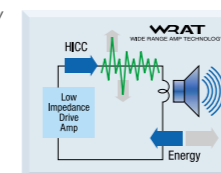
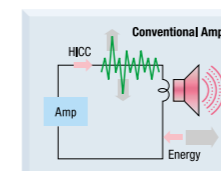
Benefit 2: Closed Ground-Loop Circuits—Enjoy greater maximum volume without distortion

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 on many amplifiers), the noise multiplies exponentially. Onkyo’s sophisticated closed-circuit design enables each circuit to go and return directly to the power supply, which cancels any individual circuit noise and keeps the ground potential free of distortion.



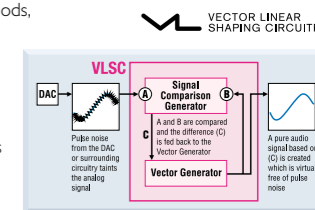
Benefit 3: High Instantaneous-Current Capability—Experience film soundtracks with greater impact

After an amplifier outputs audio signals, speakers accumulate energy, reflex and send energy back to the amplifier. The amplifier must immediately cancel the speakers’ reflex energy and instantaneously send out the next signal. The same high current is also necessary to handle speaker impedance fluctuations, which can force an amplifier to provide four to six times its usual current load. The instantaneous current capability of even Onkyo’s least expensive WRAT receivers exceeds that of most conventional units because they commonly have less than half the current capability. An Onkyo receiver will deliver movie soundtracks with dynamics and clarity like you experience in the theater.



Vector Linear Shaping Circuitry (VLSC™)

In conventional digital-to-analog methods, it is impossible to completely remove noise, which taints the analog signal and ultimately degrades the sound emitted from your speakers. With Onkyo’s VLSC, data is continuously sampled 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 wave form. The VLSC digital-to-analog conversion method results in a smooth, virtually pulse-noise-free audio signal that faithfully reproduces the acoustic detail and subtle nuances of all your audio sources.



Auto Speaker Set-up with Microphone

Do you want each audio channel delivered synchronously, so you get the most accurate frequency response from the listening spot of your choice? Onkyo’s Auto Speaker Set-up with Microphone uses a high-sensitivity microphone to pick up test tones from your favorite listening spot, and then uses an acoustic analyzer to adjust the sound pressure level and time delay of each channel.



Video Upconversion with TBC (Time Base Corrector)

During component video upconversion—where connectivity to compatible displays is conveniently simplified—each video signal incorporates a synchronization pulse (sync) that represents the beginning of each video signal. These syncs need to be highly precise in amplitude and timing to eliminate clock jitter, which can degrade the picture substantially, particularly on high resolution display devices. By incorporating a time-base corrector (TBC) in the conversion process, inconsistencies in the signal’s timing can be corrected, thereby ensuring the highest-quality picture possible.

High Current Power Supply (H.C.P.S.) Transformer

Under the anti-resonant cover of any Onkyo receiver, you’ll instantly notice the High Current Power Supply (H.C.P.S.) transformer. With a huge isolated power supply design that works in tandem with high-capacity filter capacitors, you’ll always have ready the large amounts of power necessary for reproducing the wide dynamics of movie soundtracks and the detail and clarity of your music.



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 to your PC and, through the Net-Tune Central application, you’re ready to liberate your music files. Also, you’ll be able to revel in global radio programming from Internet radio. Simply hook up your network-ready receiver to a router connected to your broadband modem via a high-speed Ethernet cable. Press the Net Audio button on the front of your receiver, and kick back to the best Internet radio content on offer.



Exclusive RI (Remote Interactive) System Capability

With Onkyo’s RI system, you can integrate and operate all compatible components through a single remote control. What’s more, RI capability enables you to simply connect the iPod to your receiver through Onkyo’s RI Dock for the iPod (DS-A1). Your iPod effectively becomes another Onkyo component from which you can relish a fuller sound that just can’t be experienced through headphones. RI capability will also give you remote operability of your iPod for hands-off control over your digital music.



As home entertainment enters its next phase—the delivery of a high-definition video and audio experience from digital media and broadcasts to HDTV displays—we envisage the most accomplished components incorporating high-powered, precise design and engineering with the latest advances in digital technology. We see a full range of aural expression supporting the best video images. By that, we mean a quaking bass you actually feel, that doesn’t rely solely on loudness; subtle nuances that define the moment and don’t go unnoticed; and a musical quality that rivals the best performances and that isn’t manipulated beyond recognition.

2006 marks Onkyo’s 60th year in the audio and A/V industry. With a legacy of industry firsts, we’re excited about introducing yet more A/V components that make home entertainment a more engaging, “real” experience. And as high-definition home theater becomes the norm, we look forward to merging the latest high-definition technologies with our own “Imaginative Sight and Sound” to bring you a whole new reality.

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TX-NR1000 **Integra** THX™ Ultra2™ Certified 7.1-Channel AV Surround Home Network Receiver

As Onkyo's flagship home network receiver, the THX Ultra2 Certified TX-NR1000 is a pure expression of upgradeable functionality, forward-thinking technology and unrivalled build quality that will effortlessly drive the most demanding home theater. With easily replaceable modules and upgradeable software, the TX-NR1000 is prepared for virtually any future developments in the industry. It will handle hardware upgrades; advances in digital broadcasting and networking; and changes to surround sound formats, processing circuits or interface standards. But even by today's standards, this receiver is undeniably advanced—its standard functions include High-Definition Multimedia Interface (HDMI) and i.LINK ports to carry high-resolution, high-bandwidth digital video and audio signals. Also, an Ethernet port enables Onkyo's exclusive Net-Tune™ client processor to distribute digital music files on your PC or Internet radio to up to 11 clients on the same network. And with three-zone capability, 12-volt triggers, IR inputs/outputs and a bi-directional RS232 port, the TX-NR1000 is a shining example of the future of networked home entertainment.



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

- 240 W/Ch, Continuous 6 Ω, 1 kHz, JEITA
- THX™ Ultra2™ Certified
- THX™ Surround EX™, DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic® IIx, Dolby® Headphone, Dolby® Virtual Speaker
- VLSC (Vector Linear Shaping Circuitry)
- WRAT (Wide Range Amplifier Technology)
- Net-Tune™ Function with MP3/WMA/WAV Playback
- Ethernet Cable Plug-in Capability*
- 2 High-Quality HDMI Inputs and 1 Output
- HDMI Video Upconversion with TBC (Time Base Corrector)
- Component Video Upconversion with TBC (Time Base Corrector)
- 2 i.LINK Digital Ports
- Speaker A and B Mode for 7.1 Channels
- BTL and Bi-Wiring Connectable for FL/FR with SBL/SBR
- Dual 32-Bit Processing DSP Chips
- 192 kHz/24-Bit DACs for All Channels
- 4 Wideband Component Video Inputs (3 RCA/1 BNC) and 2 Outputs (RCA/BNC)
- Powered Zone 2 and Zone 3
- 5 12V Trigger Outputs and 3 IR Inputs/Outputs
- Bi-Directional RS232 Port for Interface Control
- Color-Coded 7.1 Multichannel Inputs (Ready for Upcoming Dolby® Digital and DTS® Audio Formats for High-Definition Discs) and Pre Outs
- 2 Sets of Color-Coded Dual Banana Plug-Compatible Transparent Speaker Posts
- Compatible with RI Dock for the iPod
- Elegant Aluminum-Faced RI (Remote Interactive) Remote Control with Scroll Wheel and LCD Display

WHAT HI-FI? SOUND AND VISION ★★★★★
 "...stupendous...world class...★★★★★"
 (What Hi-Fi? review of TX-NR1000 sister model, TX-NR5000E)
 (April Issue 2005)

TX-NR901 **Integra** THX™ Select™ Certified 7.1-Channel AV Surround Home Network 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)
- WRAT (Wide Range Amplifier Technology)
- Net-Tune™ Function with MP3/WMA/WAV Playback
- Ethernet Cable Plug-in Capability*
- Dual 32-Bit Processing DSP 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 12V Trigger
- IR Input and Output
- Direct/Pure Audio Mode
- RS232 Port for Interface Control
- A-Form Listening Mode Memory
- Color-Coded 7.1 Multichannel Inputs (Ready for Upcoming Dolby® Digital and DTS® Audio Formats for High-Definition Discs) and Pre Outs
- Color-Coded Dual Banana Plug-Compatible Transparent Speaker Posts
- Crossover Adjustment (40/60/80/100/120/150 Hz)
- A/V Sync Control Function
- Compatible with RI Dock for the iPod
- Elegant Aluminum-Faced RI (Remote Interactive) Remote Control with Scroll Wheel and LCD Display

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



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



TX-SR803 **Integra** THX™ Select2™ Certified 7.1-Channel AV Surround Home Theater Receiver

- 170 W/Ch, Continuous 6 Ω, 1 kHz, JEITA
- 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) for All Channels
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- 192 kHz/24-Bit DACs for All Channels
- 2 High-Quality HDMI Inputs and 1 Output
- Component Video Upconversion with TBC (Time Base Corrector)
- WRAT (Wide Range Amplifier Technology)
- Advanced 32-Bit Processing DSP Chip
- 3 Wideband Component Video Inputs and 1 Output
- 7 Digital Inputs (5 Optical/2 Coaxial) and 1 Output (Optical)
- RS232 Port for Interface Control
- Powered Zone 2 and 12V Trigger
- IR Input and Output
- Pure Audio Mode
- A-Form Listening Mode Memory
- Color-Coded 7.1 Multichannel Inputs (Ready for Upcoming Dolby® Digital and DTS® Audio Formats for High-Definition Discs) and Pre Outs
- Color-Coded Dual Banana Plug-Compatible Speaker Posts
- Independent Crossover Adjustment for F/C/S/SB (40/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control Function
- Auto Speaker Set-up with Microphone
- Compatible with RI Dock for the iPod
- Backlit/Preprogrammed RI (Remote Interactive) Learning Remote with 3 Macros and Mode-Key LEDs



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



TX-SR703 THX™ Select2™ Certified 7.1-Channel AV Surround Home Theater Receiver

- 160 W/Ch, Continuous 6 Ω, 1 kHz, JEITA
- 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) for All Channels
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- 192 kHz/24-Bit DACs for All Channels
- Component Video Upconversion with TBC (Time Base Corrector)
- WRAT (Wide Range Amplifier Technology)
- Advanced 32-Bit Processing DSP Chip
- 3 Wideband Component Video Inputs and 1 Output
- 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 12V Trigger
- IR Input
- Pure Audio Mode
- A-Form Listening Mode Memory
- Optimum Gain Volume Circuitry
- Color-Coded 7.1 Multichannel Inputs (Ready for Upcoming Dolby® Digital and DTS® Audio Formats for High-Definition Discs) and Pre Outs
- Color-Coded Dual Banana Plug-Compatible Speaker Posts
- Independent Crossover Adjustment for F/C/S/SB (40/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control Function
- Auto Speaker Set-up with Microphone
- Compatible with RI Dock for the iPod
- Backlit/Preprogrammed RI (Remote Interactive) Learning Remote with 3 Macros and Mode-key LEDs



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



TX-SR603 7.1-Channel AV Surround Home Theater Receiver

- 155 W/Ch, Continuous 6 Ω, 1 kHz, JEITA
- DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic® IIx
- VLSC (Vector Linear Shaping Circuitry) for Front L/R Channels
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- 192 kHz/24-Bit DACs for All Channels
- HDTV-Capable (50 MHz) Component Video Switching
- Component Video Upconversion with TBC (Time Base Corrector)
- WRAT (Wide Range Amplifier Technology)
- Advanced 32-Bit Processing DSP Chip
- 3 Wideband Component Video Inputs and 1 Output
- 6 Digital Inputs (4 Optical/2 Coaxial) and 1 Output (Optical)
- 5 S-Video Inputs and 3 Outputs
- Subwoofer Pre Out
- CinemaFILTER™
- Powered Zone 2 and 12V Trigger
- Pure Audio Mode
- A-Form Listening Mode Memory
- Optimum Gain Volume Circuitry
- Color-Coded 5.1 Multichannel Inputs
- Color-Coded Dual Banana Plug-Compatible Speaker Posts (Except Zone 2 Speakers)
- Crossover Adjustment (60/80/100/120/150 Hz)
- Auto Speaker Set-Up with Microphone
- Compatible with RI Dock for the iPod
- Preprogrammed RI (Remote Interactive) Learning Remote with 3 Macros and Mode-Key LEDs



TX-SR504 7.1-Channel AV Surround Home Theater Receiver

Besides the usual Onkyo trademarks—on-demand power for all seven channels; highly effective processing capabilities; and proprietary technologies like Wide Range Amplifier Technology (WRAT)—the TX-SR504 will delight you with its versatility. This home theater control center is ready to accommodate all your existing components, as well as any new high-definition additions to your system, like DVD recorders, universal players, set-top/cable boxes and gaming consoles. You'll even be ready for the upcoming high-definition discs, with their next-generation Dolby® Digital and DTS® audio technologies, by simply connecting any compatible player through the 7.1 multichannel inputs on the rear. Not that you're short of contemporary surround sound formats: you've got a full range of Dolby® Digital and DTS® decoders that'll take your movie experience to truly cinematic standards. As with audio, so with video. The TX-SR504 will deliver the sharpest of images to today's displays—including the latest HDTVs—through its component video output. Such versatility even extends to speakers. With a crossover adjustment that extends from 40 Hz to 200 Hz, you'll have greater scope to match and tune your home theater to the speaker system of your choice. And just like its predecessor, the TX-SR504 has been designed for simplified connection to multiple components, with color-coded inputs, outputs, speaker posts and pre out. Whatever way you look at it, the TX-SR504 removes a lot of uncertainties and sets you up for the best home theater entertainment yet.

- 130 W/Ch, Continuous 6 Ω, 1 kHz, JEITA
- 160 W/Ch, Continuous 6 Ω, 1 kHz, 1 Channel Driven, JEITA
- DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic® IIx
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- 192 kHz/24-Bit DACs for All Channels
- HDTV-Capable (50 MHz) Component Video Switching
- WRAT (Wide Range Amplifier Technology)
- Advanced 32-Bit Processing DSP Chip
- 3 Wideband Component Video Inputs and 1 Output
- 4 Digital Inputs (3 Optical/1 Coaxial)
- 3 S-Video Inputs and 2 Outputs
- Subwoofer Pre Out
- CinemaFILTER™
- Pure Audio Mode
- A-Form Listening Mode Memory
- Optimum Gain Volume Circuitry
- Color-Coded 7.1 Multichannel Inputs (Ready for Upcoming Dolby® Digital and DTS® Audio Formats for High-Definition Discs)
- Speaker A/B Drive
- Color-Coded Dual Banana Plug-Compatible Speaker Posts (Except Speaker B)
- Crossover Adjustment (40/50/60/80/100/120/150/200 Hz)
- A/V Sync Control Function (Up to 100 ms)
- Compatible with RI Dock for the iPod
- Preprogrammed RI (Remote Interactive) Remote Control

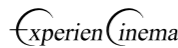


Experience Cinema—The Way Movies and Music Are Supposed to Be



ExperienCinema™

A home theater system is only as good as the signal it's fed. Our ExperienCinema design concept for players provides exceptional audio and video reproduction by incorporating only the best parts and technologies, alongside our own exclusives like Vector Linear Shaping Circuitry (VLSC) and Direct Digital Path. By focusing on build quality and stable signal support, Onkyo players bring to your entertainment system playback quality worthy of the highest cinematic standards.



Vector Linear Shaping Circuitry (VLSC™) (DV-SP1000, DV-SP800)

Our proprietary VLSC significantly reduces pulse noise from digital signals. If you think of your player as the first link in your home entertainment chain, it makes sense to ensure that the signal is delivered in all its purity. That way, you'll add more depth and clarity to all your music sources (including digital music files) and movie soundtracks.



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-purity, heavy-gauge, shielded cables to directly output digital or PCM bit-streams straight from the disc to the back panel. This way, the cable 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 multichannel or stereo sources to your compatible receiver, you're starting off with the cleanest possible signal.



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

The DV-SP1000 incorporates the latest interface technology with the inclusion of HDMI (High-Definition Multimedia Interface) to transfer uncompressed digital video (up to 5 Gbps) to the new generation of high-definition displays. Quite simply, there is no better alternative for a cost-effective, easy-to-use connectivity interface that enables the lossless transfer of digital video.



i.LINK® (DV-SP1000)

The DVD-Audio and Super Audio CD formats deliver both ultra-high-quality stereo and 5.1-multichannel audio. The DV-SP1000's ultra-high-speed i.LINK—based on the IEEE1394 transport—transfers the signals from these formats at a rate of up to 400 Mbps, all in the digital domain. i.LINK is a welcome connectivity option for those who want to experience the sublime sound quality that has made these discs the formats of choice for audiophiles.



Oplus® FlexScale™ Video Scaling Capability (DV-SP1000)

Oplus Flexscale will take NTSC 480i or PAL 576i DVDs beyond normal progressive scan players and scale them to 720p and 1080i (via HDMI), thereby eliminating the need for external scalars. By upscaling to a 1080i signal—the most common HDTV format—you can deliver on the promise of 1080p high-definition displays (the most advanced HDTV available today). Naturally, a 720p signal will enable the best possible image on a 720p display.



PAL/NTSC Veridic Progressive Scan (DV-SP1000)

Most DVDs are "progressive"—meaning they produce video in complete frames. But to be compatible with all TVs, the DVD signal must be interlaced—a method where the picture is split into two fields and then blurred together to look like one. Progressive Scan, however, retrieves the original progressive signal, and on such compatible displays as HDTVs and high-end projectors, "paints" all the visible lines on the screen in a single pass—so you'll enjoy a scan-line-free image, with spectacularly clear color; no motion artifacts, and details so sharp they seem as if they're etched onto the screen.



Multi-Format Playback Capability*

Broadening your entertainment options beyond DVD videos and PCM audio CDs, our players enable playback of a range of formats. With expanded content and audiophile quality, DVD-Audio offers stereo sound with data-loss-free 192 kHz/24-bit reproduction—far superior to a normal PCM CD. It also provides six discrete channels of 96 kHz/24-bit multichannel audio, for an engaging musical experience. Super Audio CD delivers a similar blend of stereo and surround music options. Based on a digital audio technology called Digital Stream Data (DSD), it employs a sampling rate 64 times faster than PCM CD. On a different level, MP3- and WMA-encoded music discs can be played back with a fuller sound, and with energy lacking on PCs and portable music devices. Also, you can easily transfer DivX®-encoded video files from your computer to your home theater. Likewise, your JPEG/Picture CDs look stunning when played back on your enlarged viewing screen.



* Capability depends on specific model.

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

A crucial factor in achieving clear, pristine digital video playback is the video digital-to-analog converter in your DVD player. The state-of-the-art Analog Devices 216 MHz/14-bit video DAC gives you the finest artifact-free picture available. Features such as 4x oversampling and Noise Shaped Video (NSV®) dramatically reduce noise interference to the video signal, so you can enjoy even the most subtle of nuances in your favorite movies.



192 kHz/24-Bit Audio DACs

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 ideal for today's audio formats. They boast a higher dynamic range than standard D/A converters, and are virtually resistant to clock jitter—which means you'll enjoy the best performance possible.



BNC Component Video Output (DV-SP1000)

This three-jack video output gives you higher-quality single cable connection to the latest TVs, projectors and monitors than you get from standard RCA connections. It also brings out the full potential of your DVDs by sending three extremely clean, separate RGB (red, green, and blue) signals to your TV. This eliminates the usual artifacts such as dot crawl and moiré (wavelike or watered appearance), and gives stunning color fidelity with virtually no discernible video noise.



Video Circuit On/Off Control (DV-SP1000, DV-SP800)

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.



DV-SP1000 Integra THX™ Ultra™ Certified Universal DVD-Audio/Super Audio CD Player

Even though the receiver drives your home theater, the delivery of precise 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, rock-solid build quality 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. It can even take an older source, such as a VCR connected via a composite or S-Video input, for HDMI video upscaling. And to bring the best out of video formats, Oplus' FlexScale™ enables video scaling of PAL and NTSC discs—up to 720p and 1080i—to better fit the resolutions of today's high-definition displays. Progressive/interlaced scan processing for both PAL and NTSC are further enhanced by parts like an Analog Devices 216 MHz/14-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 RS232 port, 12V trigger 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.

- THX™ Ultra™ Certified
- DTS® and Dolby® Digital Decoders Built in
- Plays DVD-Audio and Video, DVD-R/RWs, Super Audio CDs, MP3 CDs, CD-R/RWs, Video CDs, Audio CDs, and JPEG-Encoded CDs*
- Oplus® FlexScale™ Video Scaling Capability
- HDMI Video Upscaling via External Inputs (Composite and S-Video)
- 216 MHz/14-Bit Analog Devices NSV® Video DAC
- Wolfson® 192 kHz/24-Bit Audio DACs
- Dual Direct Digital Path
- VLSC (Vector Linear Shaping Circuitry)
- Optical & Coaxial Digital Outputs
- High Quality HDMI Output
- 2 i.LINK Digital Ports
- 2 Component Video (RCA/BNC), S-Video & Composite Video Outputs/S-Video & Composite Video Inputs
- 12V Trigger Input
- IR Input and Output
- Bi-Directional RS232 Port for Interface Control
- Aluminum Front/Side Panels with Brass Stabilizers
- PAL/NTSC Veridic Progressive Scan
- Video Circuit On/Off Control
- Color-Coded 5.1 Multichannel Audio Outputs
- On-Screen Display (English/Chinese)
- Aluminum-Faced Backlit/Preprogrammed RI (Remote Interactive) Learning Remote Control

* Discs that have not been properly finalized may only be partially playable or not playable at all.

DV-SP800 Integra THX™ Ultra™ Certified Universal DVD-Audio/Super Audio CD Player

- THX™ Ultra™ Certified
- DTS® and Dolby® Digital Decoders Built in
- Plays DVD-Audio and Video, DVD-R/RWs, Super Audio CDs, MP3 CDs, CD-R/RWs, Video CDs, and Audio CDs*
- PAL/NTSC Progressive Scan
- 108 MHz/12-Bit Analog Devices NSV® Video DAC
- 192 kHz/24-Bit Audio DACs
- Direct Digital Path
- VLSC (Vector Linear Shaping Circuitry)
- 3 Digital Outputs (2 Optical/1 Coaxial)
- 96 kHz or 48 kHz Selectable Digital Output
- Component Video, S-Video & Composite Video Outputs
- Color-Coded 5.1 Multichannel Audio Outputs
- Video Circuit On/Off Control
- On-Screen Display (English/Chinese)
- Brushed Hairline Aluminum Front Panel
- Backlit/Preprogrammed RI (Remote Interactive) Learning Remote Control with Macros and Mode-Key LEDs

* Discs that have not been properly finalized may only be partially playable or not playable at all.



DV-SP502 Universal DVD-Audio/Super Audio CD Player

- DTS® and Dolby® Digital Decoders Built in
- Plays DVD-Audio and Video, DVD-R/RWs, Super Audio CDs, MP3 CDs, WMA CDs, CD-R/RWs, Video CDs, Audio CDs, and JPEG-Encoded CDs*
- DivX® Video Playable
- PAL/NTSC Progressive Scan
- 192 kHz/24-Bit Audio DACs
- 108 MHz/12-Bit Video DAC
- Optical & Coaxial Digital Outputs
- 96 kHz or 48 kHz Selectable Digital Output
- Component Video, S-Video & Composite Video Outputs
- Color-Coded 5.1 Multichannel Audio Outputs
- On-Screen Display (English/French/Spanish/Chinese)
- Brushed Hairline Aluminum Front Panel
- Full-Function RI (Remote Interactive) Remote Control

* Discs that have not been properly finalized may only be partially playable or not playable at all.



DV-SP303 DVD/CD/MP3 CD Player

- Plays DVDs, DVD-R/RWs, MP3 CDs, WMA CDs, CD-R/RWs, Video CDs, Audio CDs and JPEG-Encoded CDs*
- DivX® Video Playable
- PAL/NTSC Progressive Scan
- 192 kHz/24-Bit Audio DAC
- 54 MHz/10-Bit Video DAC
- Parallel Outputs—All Outputs Active
- Optical & Coaxial Digital Outputs
- 96 kHz or 48 kHz Selectable Digital Output
- Component Video, S-Video & Composite Video Outputs
- On-Screen Display (English/Chinese)
- Full-Function Remote Control

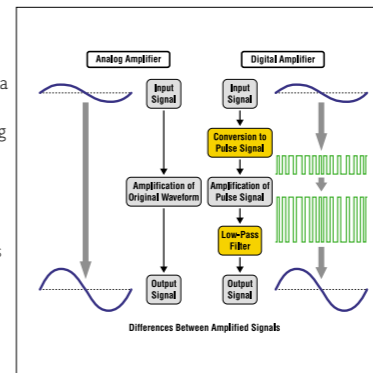
* Discs that have not been properly finalized may only be partially playable or not playable at all.



VL Digital—A Quest for the Perfect Digital Sound

The Difference Between Analog and Digital Amplifiers

Understanding the amplification process helps to explain the difference between analog and digital amplifiers. In an analog amplifier, the analog input signal is amplified without any modification. In a digital 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 capacitors) 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 amplifier signals continuously change: the transistor must adjust the size of the "valve" opening to match the constantly changing input signal. On the other hand, with a digital amplifier, the signal consists of either a pulse (1) or no pulse (0)—there are no intermediate values. The "switches" in a digital amplifier are completely open (switch is on) 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 elements function as variable resistors that adjust the amount of electricity supplied by the power supply to match the input level. Electricity that does not flow through when the amplifier elements are closed is lost. For this reason, analog amplifiers can only achieve a maximum power efficiency (relative to the power supply) of about 70%. This 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 with two states, ON and OFF. The amount of power loss is very small. Consequently, digital amplifiers typically have very high efficiency—90% or so. Very little energy is generated, so heat-dissipating parts such as heat sinks can be smaller and the amplifiers can be more compact.

Possibilities of the Digital Amplifier

At Onkyo, we are not only interested in higher efficiency and a more compact size, we also believe that there is a great opportunity to build a digital amplifier with improved sound. When a digital amplifier's signal value is 1 (the current is flowing from the power supply to the speakers), the amplification 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. In contrast, with analog amplifiers, there is always some resistance between the power supply and speakers because of the manner in which the amplifier operates.

Furthermore, since the output elements are used as switches in a digital 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.

Another potential attraction is that low-frequency reproduction places little load on 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 bass 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 far exceeds that of analog amplifiers. If we go back to the basics of amplification, we want to reproduce sound that you can feel, not just hear. For this purpose, we need a power supply with the lowest possible impedance and superior transient response. Very few 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 our digital amplifiers, we have taken this concept even further by including large-capacity transformers.

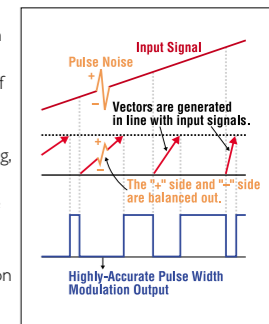
Pulse Width Modulation (PWM) and Onkyo's VL (Vector Linear) Digital

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 analog amplifier, a lot of NFB will negatively affect the sound.

Up to now, Pulse Width Modulation (PWM) has been used as an efficient method of amplifying audio signals.

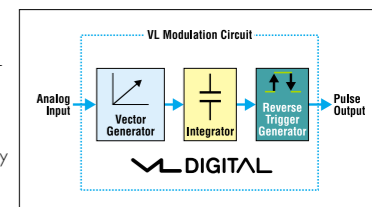
Theoretically, this method should result in accurate analog-to-digital conversion. In reality, a digital amplifier generates a lot of "noise spikes" from sources external to the modulator circuitry. This spike noise introduces errors into the inversion timing, making accurate conversion into pulse widths impossible. So, to further improve the precision of amplifiers, we've had to push even further. Our response is a highly accurate analog-to-digital conversion circuit—VL Digital—that is unaffected by noise in the analog signal.



Onkyo's VL (Vector Linear) Digital technology comprises a vector generator, an integrator (like a charger) and an inversion trigger generator. When the analog input signal is received, the vector generator outputs a current proportional to the size of the analog input. This 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, performing 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 analog signal contains 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 goes beyond earlier versions to accurately produce a current flow based on the input voltage.



A-9755 Integrated Digital Amplifier

- 300 W/Ch into 4 Ω , 1 kHz, JEITA
- Exclusive Onkyo VL Digital Technology
- Pure Stream Power Supply (2 Transformers)
- All Discrete Output Stage Circuitry
- Low-Impedance, Thick Bus Plate
- Optimum Gain Volume Circuitry
- Audiophile-Grade Capacitor
- Precision Motor-Driven Volume Control
- Tone Control (Bass, Treble, Loudness On/Off)
- Pure Direct Mode
- Discrete Phono Equalizer Circuitry
- 6 Gold-Plated Audio Inputs and 2 Outputs
- Phono Input
- Main In Terminals
- Blue Illuminated Volume Control
- High-Rigidity, Anti-Resonant Chassis and Brass Stabilizers
- Extruded Aluminum Volume and Selector Knobs
- Speaker A/B Drive
- Gold-Plated Banana Plug-Compatible Transparent Speaker Posts
- Heavy-Duty Power Cord (Inlet Type)
- Compatible with RI Dock for the iPod
- RI (Remote Interactive) Remote Control



DIGITAL RI

A-9555 Integrated Digital Amplifier

- 200 W/Ch into 4 Ω , 1 kHz, JEITA
- Exclusive Onkyo VL Digital Technology
- Pure Stream Power Supply
- All Discrete Output Stage Circuitry
- Low-Impedance, Thick Bus Plate
- Optimum Gain Volume Circuitry
- Precision Motor-Driven Volume Control
- Tone Control (Bass, Treble, Loudness On/Off)
- Pure Direct Mode
- Discrete Phono Equalizer Circuitry
- 6 Audio Inputs and 2 Outputs
- Phono Input
- High-Rigidity, Anti-Resonant Chassis
- Aluminum Volume and Selector Knobs
- Speaker A/B Drive
- Banana Plug-Compatible Speaker Posts
- Compatible with RI Dock for the iPod
- RI (Remote Interactive) Remote Control



DIGITAL RI

DX-7555 CD Player

- Plays Audio CDs, MP3 CDs, CD-R/RWs
- VLSC (Vector Linear Shaping Circuitry)
- Super Precision Clock (± 1.5 ppm)
- Digital Filter and Phase Control
- Massive Power Transformer
- Wolfson® 192 kHz/24-Bit DAC
- Direct Digital Path
- 2 Digital Outputs (Optical/Coaxial)
- Headphone Jack with Volume Control
- Quick Navigation for MP3 CD Playback
- 25-Step Memory Playback and 4 Repeat Modes
- 4-Mode Dimmer
- High-Rigidity, Anti-Resonant Chassis
- Brushed Hairline Aluminum Front Panel
- RI (Remote Interactive) Remote Control



MP3 192/24 VL VECTOR LINEAR SHAPING CIRCUITRY DIRECT DIGITAL PATH RI

A-9211 Integrated Amplifier

- 60 W/Ch, at 4 Ω , 1 kHz, DIN
- High-Current, Low-Impedance Drive
- Discrete Output Stage Circuitry
- Shielded Heavy-Duty Power Supply
- Aluminum-Extruded Heat Sink
- Speaker A/B Terminals
- Direct Source/Tone Bypass Switch
- 5 Audio Inputs
- Phono Input
- Brushed Hairline Aluminum Front Panel
- Full-Function RI (Remote Interactive) Remote Control
- WHD: 435 x 120 x 331 mm
- 6.7 kg



RI

TX-8511 FM/AM RDS Stereo Receiver

- 130 W/Ch, at 6 Ω , JEITA
- Low-Impedance Drive Output Stage
- Discrete Output Stage Circuitry
- Massive Power Transformer
- 3 Audio and 2 A/V Inputs
- Phono Input
- Multi-Room and Multi-Source Capability
- Video-1 to Video-2 Dubbing
- 30 FM/AM Presets
- 2-Mode APR (Automatic Precision Reception)
- RDS (PS/PTY/RT/TP)
- High-Quality Filter Capacitors
- Speaker A/B Terminals
- Selective Tone Control
- Brushed Hairline Aluminum Front Panel
- Full-Function RI (Remote Interactive) Remote Control
- S/N Ratio: 76 dB (FM Mono), 70 dB (FM Stereo), 40 dB (AM)
- WHD: 435 x 150 x 322 mm
- 8.9 kg



RI RDS

TX-8211 FM/AM RDS Stereo Receiver

- 100 W/Ch, at 6 Ω , JEITA
- Discrete Output Stage Circuitry
- Massive Power Transformer
- 3 Audio Inputs
- Phono Input
- 30 FM/AM Presets
- 2-Mode APR (Automatic Precision Reception)
- RDS (PS/PTY/RT/TP)
- Speaker A/B Terminals
- Selective Tone Control
- Brushed Hairline Aluminum Front Panel
- Full-Function RI (Remote Interactive) Remote Control
- S/N Ratio: 76 dB (FM Mono), 70 dB (FM Stereo), 40 dB (AM)
- WHD: 435 x 150 x 322 mm
- 8.3 kg



RDS RI

DX-7333 CD Player

- 2 Optical Digital Outputs
- Headphone Jack with Volume Control
- 36-Track Random Memory
- Memory Reverse (Program Delete)
- Next Selection Function
- Peak-Level Search
- 5 Repeat Modes (Full/Single/Memory/Shuffle/A-B)
- Brushed Hairline Aluminum Front Panel
- RI (Remote Interactive) Remote Control
- 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



RI

DX-C390 6-Disc CD Carousel Changer

- Plays Audio CDs, MP3 CDs, CD-R/RWs
- VLSC (Vector Linear Shaping Circuitry)
- VQA (Vector Quantizer Audio) Conversion Technology
- Change Up to 5 Discs During Play
- 192 kHz/24-Bit Audio DAC
- Optical & Coaxial Digital Output
- Direct Digital Path
- 40-Track Programming
- Next Selection Function
- 6 Repeat Modes (Entire Disc/All Discs/Random Tracks/Programmed Tracks/Random Memory/Single Track)
- Brushed Hairline Aluminum Front Panel
- RI (Remote Interactive) Remote Control
- WHD: 435 x 131 x 432 mm
- 6.9 kg



MP3 6 DISC 192/24 VL VECTOR LINEAR SHAPING CIRCUITRY VQA DIRECT DIGITAL PATH RI

TA-RW255 Double Auto-Reverse Cassette Deck

- Dolby® B and C Noise Reduction
- CD-to-Tape Synchro Recording
- Rec Level Control
- Auto Tape-Bias Adjustment
- Auto-Space and Rec Mute
- High Speed Dubbing
- 8-Segment Peak Level Meters
- Peak Hold
- Brushed Hairline Aluminum Front Panel
- RI (Remote Interactive) System Compatible
- Wow & Flutter: 0.13% (WRMS)
- Frequency Response: 30 Hz–15 kHz (Metal Tape)
- S/N Ratio: 56 dB
- WHD: 435 x 121 x 303 mm
- 4.9 kg



RI



HT-S590 5.1-Channel AV Surround Home Theater Receiver/Speaker Package

HT-R340

5.1-Channel AV Surround Home Theater Receiver

- 120 W/Ch, continuous 6 Ω 1 kHz JEITA • DTS®, DTS® Neo:6 5.1, Dolby® Digital, Dolby® Pro Logic® II • H.C.P.S. (High Current Power Supply) massive high power transformer • 192 kHz/24-bit DACs for all channels
- HDTV-capable (50 MHz) component video switching (3 inputs/1 output) • OR-EQ™ equalizer function • 32-bit processing DSP chip • 3 digital inputs (2 optical/1 coaxial)
- CinemaFILTER™ • Optimum gain volume circuitry • Non-scaling configuration • A-Form listening mode memory
- Color-coded speaker terminals • Crossover adjustment (40/50/60/80/100/120/150/200 Hz) • A/V sync control function (fixed at 0/20/40 ms) • Speaker A/B drive
- Compatible with RI Dock for the iPod • Full-function RI (Remote Interactive) remote control • WHD: 435 x 150 x 369 mm • 9.6 kg



OR-EQ RI

HTP-340

5.1-Channel Home Theater Speaker System

SKF-340F

2-Way Bass Reflex Front Speakers

- 8 cm cone woofer • 2 cm ceramic tweeter • Magnetically shielded • Impedance: 6 Ω • Max. input power: 120 W • Frequency response: 80 Hz–22 kHz • WHD: 116 x 218 x 127 mm • 0.9 kg

SKC-340C

2-Way Bass Reflex Center Speaker

- 8 cm cone woofer x 2 • 2 cm ceramic tweeter • Magnetically shielded • Impedance: 6 Ω • Max. input power: 120 W • Frequency response: 80 Hz–22 kHz • WHD: 300 x 128 x 118 mm • 1.5 kg

SKM-340S

2-Way Bass Reflex Surround Speakers

- 8 cm cone woofer • 2 cm ceramic tweeter • Impedance: 6 Ω • Max. input power: 120 W • Frequency response: 80 Hz–22 kHz • WHD: 116 x 218 x 127 mm • 0.7 kg

SKW-340

Bass Reflex Subwoofer

- 20 cm cone woofer • Max. power: 125 W • Frequency response: 30 Hz–150 Hz • WHD: 235 x 461 x 410 mm • 8.1 kg



HT-S670 5.1-Channel AV Surround Home Theater Receiver/Speaker Package

HT-R420

5.1-Channel AV Surround Home Theater Receiver

- 140 W/Ch, continuous 8 Ω 1 kHz JEITA • DTS®, Dolby® Digital, Dolby® Pro Logic® II • H.C.P.S. (High Current Power Supply) massive high power transformer • 96 kHz/24-bit DAC x 6 • WRAT (Wide Range Amplifier Technology)
- 24-bit processing DSP chip • 2 digital inputs (optical/coaxial) • CinemaFILTER™ • Optimum gain volume circuitry
- Dot matrix FL display • Color-coded speaker posts
- Crossover adjustment (60/80/100/120/150 Hz) • Double bass function • Compatible with RI Dock for the iPod
- Full-function RI (Remote Interactive) remote control • WHD: 435 x 150 x 374 mm • 8.8 kg



HTP-420

5.1-Channel Home Theater Speaker System

SKF-420F

2-Way Bass Reflex Front Speakers

- 10 cm cone woofer x 2 • 2.5 cm balanced-dome tweeter • Magnetically shielded • Impedance: 8 Ω • Max. input power: 100 W • Frequency response: 60 Hz–50 kHz • WHD: 124 x 465 x 179 mm • 3.4 kg

SKC-420C

2-Way Bass Reflex Center Speaker

- 10 cm cone woofer x 2 • 2.5 cm balanced-dome tweeter • Magnetically shielded • Impedance: 8 Ω • Max. input power: 100 W • Frequency response: 60 Hz–50 kHz • WHD: 435 x 130 x 179 mm • 3.4 kg

SKM-420S

2-Way Bass Reflex Surround Speakers

- 10 cm cone woofer • 2.5 cm balanced-dome tweeter • Impedance: 8 Ω • Max. input power: 100 W • Frequency response: 60 Hz–50 kHz • WHD: 147 x 280 x 124 mm • 1.7 kg

SKW-420

Bass Reflex Powered Subwoofer

- Built-in 150 W amplifier • Auto-standby/On circuitry • 20 cm cone woofer • Impedance: 15 kΩ • Max. power: 150 W • Frequency response: 30 Hz–150 Hz • WHD: 235 x 518 x 411 mm • 12.8 kg



SKF-L500 2-Way Bass Reflex Speakers

- 8 cm A-OMF diaphragm woofer x 2 • 2.5 cm balanced-dome tweeter
- Onkyo AET (Advanced Extrusion Engineering Technology) construction (ABS infused with wooden grain) • High-gloss finish • Aero Acoustic Drive for powerful and natural sound • Color-coded speaker terminals & speaker cables • Impedance: 6 Ω • Magnetically shielded • Max. input power: 150 W • Frequency response: 45 Hz–100 kHz • WHD: 280 x 1013 x 261 mm (with speaker base), 161 x 1000 x 93 mm (without speaker base) • 4.3 kg

SKR-L500 Surround Back Speaker

- 8 cm cone woofer • 2.5 cm balanced-dome tweeter • Onkyo AET (Advanced Extrusion Engineering Technology) construction (ABS infused with wooden grain) • High-gloss finish • Aero Acoustic Drive for powerful and natural sound
- Wall-mounting capability • Color-coded speaker terminals & speaker cables • Impedance: 6 Ω • Max. input power: 130 W • Frequency response: 60 Hz–35 kHz • WHD: 161 x 288 x 93 mm • 1.1 kg (sold individually)



SKS-L500 Center/Surround Speaker Package

- Center Speaker**
 - 8 cm A-OMF diaphragm woofer x 2 • 2.5 cm balanced-dome tweeter
 - Onkyo AET (Advanced Extrusion Engineering Technology) construction (ABS infused with wooden grain) • High-gloss finish • Aero Acoustic Drive for powerful and natural sound • Wall-mounting capability • Color-coded speaker terminals & speaker cables • Impedance: 6 Ω • Magnetically shielded • Max. input power: 150 W • Frequency response: 60 Hz–100 kHz • WHD: 378 x 161 x 93 mm • 1.6 kg
- Surround Speakers**
 - 8 cm cone woofer • 2.5 cm balanced-dome tweeter • Onkyo AET (Advanced Extrusion Engineering Technology) construction (ABS infused with wooden grain) • High-gloss finish • Aero Acoustic Drive for powerful and natural sound • Wall-mounting capability • Color-coded speaker terminals & speaker cables • Impedance: 6 Ω • Max. input power: 130 W • Frequency response: 60 Hz–35 kHz • WHD: 161 x 288 x 93 mm • 1.1 kg



SKF-4600 2-Way Bass Reflex Speakers

- 13 cm cone woofer x 2 • 2.5 cm soft-dome tweeter • Magnetically shielded • Max. input power: 120 W • Frequency response: 40 Hz–35 kHz • WHD: 195 x 1000 x 228 mm • 10.0 kg

SKR-4600 Surround Back Speaker

- 10 cm cone woofer • 2 cm balanced-dome tweeter • Wall-mounting capability • Max. input power: 100 W • Frequency response: 80 Hz–35 kHz • WHD: 145 x 280 x 146 mm • 1.9 kg (sold individually)



SKS-4600 Center/Surround Speaker Package

- Center Speaker**
 - 10 cm cone woofer x 2 • 2 cm balanced-dome tweeter • Magnetically shielded • Max. input power: 100 W • Frequency response: 50 Hz–35 kHz • WHD: 460 x 145 x 144 mm • 3.6 kg
- Surround Speakers**
 - 10 cm cone woofer • 2 cm balanced-dome tweeter • Wall-mounting capability • Max. input power: 100 W • Frequency response: 80 Hz–35 kHz • WHD: 145 x 280 x 146 mm • 1.9 kg



SKF-3600 2-Way Bass Reflex Speakers

- 8 cm cone woofer x 2 • 2.5 cm balanced-dome tweeter • Magnetically shielded • Max. input power: 100 W • Frequency response: 55 Hz–35 kHz • WHD: 300 x 929 x 300 mm (with speaker base), 104 x 913 x 138 mm (without speaker base) • 6.1 kg (with speaker base), 4.5 kg (without speaker base)

SKR-3600 Surround Back Speaker

- 8 cm cone woofer • 2.5 cm balanced-dome tweeter • Wall-mounting capability • Max. input power: 100 W • Frequency response: 60 Hz–35 kHz • WHD: 104 x 169 x 127 mm • 1.1 kg (sold individually)



SKS-3600 Center/Surround Speaker Package

- Center Speaker**
 - 8 cm cone woofer x 2 • 2.5 cm balanced-dome tweeter • Wall-mounting capability • Magnetically shielded • Max. input power: 100 W • Frequency response: 60 Hz–35 kHz • WHD: 310 x 104 x 127 mm • 2.1 kg
- Surround Speakers**
 - 8 cm cone woofer • 2.5 cm balanced-dome tweeter • Wall-mounting capability • Max. input power: 100 W • Frequency response: 60 Hz–35 kHz • WHD: 104 x 169 x 127 mm • 1.1 kg



SKF-101(w) 2-Way Bass Reflex Speakers

- 16 cm cone woofer x 2 • 2.5 cm soft-dome tweeter • Magnetically shielded • Gold-plated, heavy-duty, multiway binding posts • MDF cabinet
- Impedance: 6 Ω • Max. input power: 150 W • Frequency response: 32 Hz–35 kHz • WHD: 216 x 921 x 285 mm • 14.2 kg



SL-107(Y)

SL-107(S)

SL-107(Y/S) Bass Reflex Powered Subwoofer

- Built-in 150 W amplifier • Auto-standby/On circuitry • 20 cm cone woofer • Aero Acoustic Drive for powerful and natural sounding bass • Continuously variable crossover (50 Hz–200 Hz) • Phase switch (0° or 180°) • Speaker & line level inputs • Impedance: 65 kΩ (Line input), 1.2 kΩ (Speaker input) • Frequency response: 30 Hz–200 Hz • WHD: 230 x 435 x 401 mm • 13.0 kg

SKW-204(Y/S) Bass Reflex Powered Subwoofer

- Built-in 230 W amplifier • Auto-standby/On circuitry • 25 cm cone woofer • Continuously variable crossover (50 Hz–200 Hz) • Phase switch (0° or 180°) • Line level inputs
- Impedance: 100 kΩ • Frequency response: 25 Hz–150 Hz • WHD: 275 x 473 x 428 mm • 11.8 kg

SKS-HT230 5.1-Channel Home Theater Speaker System

SKF-230F
 2-Way Bass Reflex Front Speakers
 •8 cm cone woofer •2.5 cm balanced-dome tweeter •Aero Acoustic Drive for powerful and natural sound •Magnetically shielded •Rigid aluminum cabinet •Wall-mounting capability
 •Impedance: 8 Ω •Max. input power: 100 W •Frequency response: 65 Hz–35 kHz •WHD: 130 x 340 x 91 mm •1.6 kg

SKC-230C
 2-Way Bass Reflex Center Speaker
 •8 cm cone woofer •2.5 cm balanced-dome tweeter •Aero Acoustic Drive for powerful and natural sound •Magnetically shielded •Rigid aluminum cabinet •Wall-mounting capability
 •Impedance: 8 Ω •Max. input power: 100 W •Frequency response: 65 Hz–35 kHz •WHD: 340 x 130 x 91 mm •1.6 kg

SKM-230S
 2-Way Bass Reflex Surround Speakers
 •8 cm cone woofer •2.5 cm balanced-dome tweeter •Aero Acoustic Drive for powerful and natural sound •Magnetically shielded •Rigid aluminum cabinet •Wall-mounting capability
 •Impedance: 8 Ω •Max. input power: 100 W •Frequency response: 65 Hz–35 kHz •WHD: 130 x 340 x 91 mm •1.6 kg

SKW-150X
 Bass Reflex Powered Subwoofer
 •Built-in 150 W amplifier •Auto-standby/On circuitry •20 cm cone woofer •Impedance: 15 kΩ
 •Frequency response: 30 Hz–150 Hz •WHD: 235 x 518 x 404 mm •12.6 kg



SKR-200 Surround Back Speaker

•8 cm cone woofer •2.5 cm balanced-dome tweeter •Aero Acoustic Drive for powerful and natural sound •Magnetically shielded •Rigid aluminum cabinet
 •Wall-mounting capability •Impedance: 8 Ω •Max. input power: 100 W
 •Frequency response: 65 Hz–35 kHz •WHD: 130 x 340 x 91 mm •1.6 kg
 (sold individually)



Liverpool L-MS55

TX-L55 6.1-Channel Digital A/V Receiver

TX-L55 6.1-Channel Digital A/V Receiver **SILVER**
 DOLBY DIGITAL CINEMA FILTER RI
 •80 W/Ch, continuous 6 Ω, 1 kHz, JEITA •Exclusive Onkyo digital amplifier technology
 •DTS®-ES™ Discrete/Matrix, DTS® Neo:6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic® IIx
 •High-current, low-impedance drive •Discrete output stage circuitry •Non-scaling configuration
 •5 DSP modes •2 component video inputs and 1 output •3 digital inputs
 •Speaker auto detect system •CinemaFILTER™ •Subwoofer pre out •Color-coded 5.1 multichannel inputs
 •Preprogrammed RI (Remote Interactive) remote control

DV-L55 DVD/CD/MP3 CD Player

DV-L55 DVD/CD/MP3 CD Player **SILVER**
 DOLBY DIGITAL DVD MP3 JPEGAUDIO (192/24) PROGRESSIVE SCAN RI
 •Plays DVDs, DVD-R/RWs, MP3 CDs, WMA CDs, CD-R/RWs, video CDs, audio CDs and JPEG-encoded CDs*
 •54 MHz/10-bit video DAC •PAL/NTSC progressive scan •192 kHz/24-bit audio DAC
 •96 kHz or 48 kHz selectable digital output •Optical & coaxial digital outputs
 •Full set of A/V outputs (composite, S-Video & component video) •DVD Quick-start play
 •High-resolution on-screen display (English/Chinese) •Full-function RI (Remote Interactive) remote control
 *Discs that have not been properly finalized may only be partially playable or not playable at all.

SKS-HT230 (SKF-230F, SKC-230C, SKM-230S, SKW-150X)

5.1-Channel Home Theater Speaker System
 (See above for product information)

SKR-200 (Option)

Surround Back Speaker
 (See above for product information)



TX-L55, DV-L55, SKS-HT230 (SKF-230F, SKC-230C, SKM-230S, SKW-150X)

Doing More with Your iPod—with Onkyo's Imaginative Sight and Sound

Control From Afar

RI-connectivity brings effortless remote control to your iPod's vast library of music—or digital photos—without you having to budge from the sofa.

Pristine Onkyo Playback

Put those earphones down and give your iPod music a turbo-boost. The DS-A1 provides the link to an absorbing, room-filling sound experience.



Relive Those Magical Moments

Share those memorable photos through your home theater's larger display, by connecting your photo-enabled iPod with the DS-A1.

Charged and Ready to Go

More than just a conduit to your audio system, the DS-A1 also works as a charging station. So, while you're powering up your favorite tunes, your iPod's powering up too.

iPod Models Compatible with the DS-A1 (as of March 2006)

•5th generation iPod •iPod nano •iPod photo •iPod mini •4th generation iPod with click wheel
 •3rd generation iPod with touch wheel

DS-A1 Remote Interactive Dock

•Auto Selector function •Time Play/Sleep Timer function •Alarm function
 •JPEG capable •All cables included (RI, S-Video, Audio, Power) •WHD: 112 x 56 x 112 mm •220 g



(September Issue 2005)



DR-UN7, D-N7

Perfectly Packaging Cinema and Sound in Your Home

Liverpool L-UN7 **SILVER**

Universal A/V Receiver

DR-UN7

Universal A/V Receiver



A/V Receiver Features

•26 W/Ch, at 4 Ω, 1 kHz, JEITA •DTS®, Dolby® Digital and Dolby® Pro Logic® II
 •VLSC (Vector Linear Shaping Circuitry) •WRAT (Wide Range Amplifier Technology) •192 kHz/24-bit DAC
 •32-bit processing DSP chip •High-current, low-impedance drive •Discrete output stage circuitry
 •Optimum gain volume circuitry •Optical digital input •2 audio inputs and 1 output
 •Tone control (Bass/Treble) •2-step super bass control •Center/surround/subwoofer pre out

Universal Player Features

•Plays DVD-Audio and Video, DVD-R/RWs, Super Audio CDs, MP3 CDs, WMA CDs, CD-R/RWs, video CDs, audio CDs, and JPEG-encoded CDs*
 •108 MHz/12-bit video DAC •PAL/Auto progressive scan
 •Component video output •Front virtual surround function (Theater Dimensional)
 •24-track programming •2 play modes (Random/Memory)
 •2 repeat modes (Track/All)

*Discs that have not been properly finalized may only be partially playable or not playable at all.

Tuner & Other Features

•4 timer mode settings (Play or Rec/Once or Every) •Sleep timer •30 FM/AM presets
 •Automatic FM scan tuning •Battery-free memory backup •Headphone jack •Aluminum front panel
 •Compatible with RI Dock for the iPod •RI (Remote Interactive) remote control
 •WHD: 205 x 147 x 353 mm •5.4 kg

D-N7

2-Way Bass Reflex Loudspeakers

•13 cm New A-OMF diaphragm woofer •2.5 cm soft-dome tweeter •Aero Acoustic Drive for powerful and natural sound
 •V-Line Edge to minimize unnecessary vibrations •MDF cabinet
 •Frequency response: 55 Hz–35 kHz •Max input power: 70 W •WHD: 167 x 268 x 250 mm •4.0 kg



CR-B8, D-B8

A Class Balancing Act of Space-Saving and Inspiring Sound

Liverpool CS-420 **SILVER**

CD Receiver System

CR-B8

CD Receiver



Amplifier Features

•26 W/Ch into 4 Ω, 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 •Battery-free memory backup •Headphone jack •Aluminum volume knob and front panel
 •Compatible with RI Dock for the iPod •Full-function RI (Remote Interactive) remote control
 •WHD: 155 x 241 x 354 mm •4.6 kg

D-B8

2-Way Bass Reflex Loudspeakers

•13 cm New A-OMF diaphragm woofer •2.5 cm soft-dome tweeter •Aero Acoustic Drive for powerful and natural sound
 •V-Line Edge to minimize unnecessary vibrations •MDF cabinet with high-gloss piano finish
 •Impedance: 4 Ω •Max input power: 70 W •Frequency response: 50 Hz–35 kHz
 •WHD: 150 x 241 x 263 mm •3.6 kg

Packing Audio Bliss into Your Home Lifestyle



CR-305FX, D-N5FX

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



CR-505, D-S7GX(W)

Striking New Design and Simply Sublime Sound!



R-805TX(SH), C-705TX(SH), D-052TX

Liverpool CS-210FX SILVER

CR-305FX CD Receiver



Amplifier Features

•25 W/Ch, at 4 Ω , 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 •2 audio inputs and 2 outputs •Subwoofer pre out

CD Player Features

•Plays audio CDs, CD-R/RWs •Optical digital output •DLA 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

•3 timer mode settings (Weekday/Weekend/Rec) •Sleep timer •30 FM/AM presets •Automatic FM scan tuning •Usable sensitivity: 12.8 dBf, 1.0 μ V (FM mono, 75 Ω , IHF)/30 μ V (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) •S/N ratio: 73 dB (FM mono)/40 dB (AM) •Motor-driven volume control •Battery-free memory backup •Headphone jack •Aluminum front panel •Compatible with RI Dock for the iPod •Full-function RI (Remote Interactive) 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 Ω •Max. input power: 70 W •Frequency response: 50 Hz–40 kHz •WHD: 147 x 253 x 250 mm •3.4 kg

Liverpool CS-220 SILVER

CR-505 CD Receiver



Amplifier Features

•25 W/Ch, at 4 Ω , 1 kHz, 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, MP3 CDs, CD-R/RWs •Optical digital output •20-track programming •2 play modes (Random/Memory) •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 μ V (FM mono, 75 Ω , IHF)/30 μ V (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) •S/N ratio: 73 dB (FM mono) •Aluminum volume knob •Battery-free memory backup •Headphone jack •Aluminum front panel •Compatible with RI Dock for the iPod •Full-function RI (Remote Interactive) remote control •WHD: 205 x 103 x 356 mm •5.3 kg

D-S7GX(W) 2-Way Bass Reflex Loudspeakers

•12 cm A-OMF diaphragm woofer •2.5 cm soft-dome tweeter •Aero Acoustic Drive for powerful and natural sound •Magnetically shielded •Impedance: 4 Ω •Max. input power: 70 W •Frequency response: 50 Hz–35 kHz •WHD: 158 x 267 x 244 mm •3.7 kg

Liverpool L-805TX(SH) SILVER

R-805TX(SH) Hi-Fi FM/AM Receiver



•24 W/Ch, at 4 Ω , JEITA •WRAT (Wide Range Amplifier Technology) •Frequency response: 10 Hz–50 kHz (+0, -3dB) •High-current, low-impedance drive •Discrete output stage circuitry •3-mode acoustic presence function •3 timer mode settings (Weekday/Weekend/Rec) •Sleep timer •30 FM/AM presets •Automatic FM scan tuning •Motor-driven volume control •Audio muting (operable via remote) •Battery-free memory backup •Headphone jack •Banana plug-compatible speaker posts •Brushed hairline aluminum front panel •Compatible with RI Dock for the iPod •Full-function RI (Remote Interactive) remote control •S/N ratio: 73 dB (FM mono, IHF) •WHD: 205 x 91 x 302 mm •3.4 kg

C-705TX(SH) CD Player



•2 optical digital outputs •DLA Link2 (sets peak levels when one-touch recording to an Onkyo MD/CD recorder) •25-track random memory •TR-1 play mode •4 repeat modes (TR-1/Normal/Random/Memory) •Frequency response: 5 Hz–20 kHz •S/N ratio: 90 dB •Dynamic range: 96 dB •WHD: 205 x 91 x 275 mm •2.2 kg

D-052TX 2-Way Bass Reflex Speakers

•13 cm OMF diaphragm woofer •2.5 cm soft-dome tweeter •Magnetically shielded •Banana plug-compatible speaker posts •High-purity copper speaker cable supplied •MDF cabinet •Impedance: 4 Ω •Max. input power: 70 W •Frequency response: 55 Hz–35 kHz •WHD: 162 x 284 x 232 mm •3.9 kg

Optional Component

K-505FX(SH) Auto-Reverse Cassette Deck

•Auto-reverse •Dolby® B and C noise reduction, Dolby® HX Pro •CD/MD-to-tape synchro recording •Automatic recording level control •Auto-space and rec mute •Music search •RI (Remote Interactive) system compatible •Wow & flutter: 0.1% (WRMS) •Frequency response: 20 Hz–16 kHz (metal tape) •S/N ratio: 54 dB (metal tape, Dolby® NR off) •WHD: 205 x 76 x 278 mm •2.6 kg



DOLBY B & C HX PRO RI

Liverpool AV-L500

Your Direct Channel into Diverse Entertainment Choices and Possibilities



TX-SR504, DV-SP303, SKF-L500, SKS-L500, SKR-L500, SL-107(S)

Liverpool AV-3600

An Ideal Launching Pad for Performance-Driven Home Theater



TX-SR504, SKF-3600, SKS-3600, SKR-3600, SL-107(S)

TX-SR504

7.1-Channel A/V Surround Home Theater Receiver

•130 W/Ch, continuous 6 Ω , 1 kHz, JEITA •160 W/Ch, continuous 6 Ω , 1 kHz, 1 channel driven, JEITA •DTS®-ES™ Discrete/Matrix, DTS® Neo6, DTS® 96/24, Dolby® Digital EX™, Dolby® Pro Logic® IIx •192 kHz/24-bit DACs for all channels •HDTV-capable (50 MHz) component video switching (3 inputs/1 output) •H.C.P.S. (High Current Power Supply) massive high power transformer •WRAT (Wide Range Amplifier Technology) •3 S-Video inputs and 2 outputs •4 digital inputs (3 optical/1 coaxial) •AVV sync control function (up to 100 ms)

DV-SP303

DVD/CD/MP3 CD Player

•Plays DVDs, DVD-R/RWs, MP3 CDs, WMA CDs, CD-R/RWs, video CDs, audio CDs and JPEG-encoded CDs* •DivX® Video playable •PAL/NTSC progressive scan •192 kHz/24-bit audio DAC •54 MHz/10-bit video ADC •Parallel outputs—all outputs active •Optical and coaxial digital outputs •96 kHz or 48 kHz selectable digital output •Component video, S-Video & composite video outputs •On-screen display (English/Chinese) •Full-function remote control

* Discs that have not been properly finalized may only be partially playable or not playable at all.

Home Theater Speakers

SKF-L500

2-Way Bass Reflex Speakers

•8 cm A-OMF diaphragm woofer x 2 •2.5 cm balanced-dome tweeter •Onkyo AEET (Advanced Extrusion Engineering Technology) construction (ABS infused with wooden grain) •High-gloss finish •Aero Acoustic Drive for powerful and natural sound •Color-coded speaker terminals & speaker cables •Impedance: 6 Ω •Magnetically shielded •Max. input power: 150 W •Frequency response: 45 Hz–100 kHz •WHD: 280 x 1013 x 261 mm (with speaker base), 161 x 1000 x 93 mm (without speaker base) •4.3 kg

SKS-L500

Center/Surround Speaker Package

Center Speaker

•8 cm A-OMF diaphragm woofer x 2 •2.5 cm balanced-dome tweeter •Onkyo AEET (Advanced Extrusion Engineering Technology) construction (ABS infused with wooden grain) •High-gloss finish •Aero Acoustic Drive for powerful and natural sound •Wall-mounting capability •Color-coded speaker terminals & speaker cables •Impedance: 6 Ω •Magnetically shielded •Max. input power: 150 W •Frequency response: 60 Hz–100 kHz •WHD: 378 x 161 x 93 mm •1.6 kg

Surround Speakers

•8 cm cone woofer •2.5 cm balanced-dome tweeter •Onkyo AEET (Advanced Extrusion Engineering Technology) construction (ABS infused with wooden grain) •High-gloss finish •Aero Acoustic Drive for powerful and natural sound •Wall-mounting capability •Color-coded speaker terminals & speaker cables •Impedance: 6 Ω •Max. input power: 130 W •Frequency response: 60 Hz–35 kHz •WHD: 161 x 288 x 93 mm •1.1 kg

SKR-L500

Surround Back Speaker

•8 cm cone woofer •2.5 cm balanced-dome tweeter •Onkyo AEET (Advanced Extrusion Engineering Technology) construction (ABS infused with wooden grain) •High-gloss finish •Aero Acoustic Drive for powerful and natural sound •Wall-mounting capability •Color-coded speaker terminals & speaker cables •Impedance: 6 Ω •Max. input power: 130 W •Frequency response: 60 Hz–35 kHz •WHD: 161 x 288 x 93 mm •1.1 kg

SL-107(S)

Bass Reflex Powered Subwoofer

•Built-in 150 W amplifier •Auto-standby/On circuitry •20 cm cone woofer •Aero Acoustic Drive for powerful and natural sounding bass •Continuously variable crossover (50 Hz–200 Hz) •Phase switch (0° or 180°) •Speaker & line level inputs •Impedance: 65 k Ω (Line input), 1.2 k Ω (Speaker input) •Frequency response: 30 Hz–200 Hz •WHD: 230 x 435 x 401 mm •13.0 kg

SKF-3600

2-Way Bass Reflex Speakers

•8 cm cone woofer x 2 •2.5 cm balanced-dome tweeter •Magnetically shielded •Max. input power: 100 W •Frequency response: 55 Hz–35 kHz •WHD: 300 x 929 x 300 mm (with speaker base), 104 x 913 x 138 mm (without speaker base) •6.1 kg (with speaker base), 4.5 kg (without speaker base)

SKS-3600

Center/Surround Speaker Package

Center Speaker

•8 cm cone woofer x 2 •2.5 cm balanced-dome tweeter •Wall-mounting capability •Magnetically shielded •Max. input power: 100 W •Frequency response: 60 Hz–35 kHz •WHD: 310 x 104 x 127 mm •2.1 kg

Surround Speakers

•8 cm cone woofer •2.5 cm balanced-dome tweeter •Wall-mounting capability •Max. input power: 100 W •Frequency response: 60 Hz–35 kHz •WHD: 104 x 169 x 127 mm •1.1 kg

SKR-3600

Surround Back Speaker

•8 cm cone woofer •2.5 cm balanced-dome tweeter •Wall-mounting capability •Max. input power: 100 W •Frequency response: 60 Hz–35 kHz •WHD: 104 x 169 x 127 mm •1.1 kg

SPECIFICATIONS

A/V RECEIVERS	TX-NR1000	TX-NR901	TX-SR803	TX-SR703	TX-SR603	TX-SR504
AMPLIFIER SECTION						
Power Output** (6 Ω, 1 kHz, JEITA)						
Front L/R	240 W/Ch	180 W/Ch	170 W/Ch	160 W/Ch	155 W/Ch	130 W/Ch; 160 W/Ch**
Center	240 W	180 W	170 W	160 W	155 W	130 W; 160 W**
Surround L/R	240 W/Ch	180 W/Ch	170 W/Ch	160 W/Ch	155 W/Ch	130 W/Ch; 160 W/Ch**
Surround Back	240 W/Ch (L/R)	180 W/Ch (L/R)	170 W/Ch (L/R)	160 W/Ch (L/R)	155 W/Ch (L/R)	130 W/Ch (L/R); 160 W/Ch (L/R)**
Dynamic Power**						
4 Ω/8 Ω (Front)	260 W/Ch/175 W/Ch	220 W/Ch/140 W/Ch	180 W/Ch/125 W/Ch	170 W/Ch/115 W/Ch	165 W/Ch/105 W/Ch	140 W/Ch/95 W/Ch
THD (Rated Power)	0.05 % (All channels)	0.05 % (All channels)	0.08 % (All channels)	0.08 % (All channels)	0.08 % (All channels)	0.08 % (All channels)
Damping Factor (1 kHz, 8 Ω)	60	60	60	60	60	60
Input Sensitivity and Impedance						
PHONO (MM)	2.5 mV, 50 kΩ	2.5 mV, 50 kΩ	2.5 mV, 47 kΩ	2.5 mV, 47 kΩ	—	—
CD and TAPE Play	200 mV, 50 kΩ	200 mV, 50 kΩ	200 mV, 47 kΩ	200 mV, 47 kΩ	200 mV, 47 kΩ	200 mV, 47 kΩ
Output Level and Impedance						
TAPE REC	200 mV, 470 Ω	200 mV, 470 Ω	200 mV, 470 Ω	200 mV, 470 Ω	200 mV, 470 Ω	200 mV, 470 Ω
PRE OUT	1.0 V, 470 Ω	1.0 V, 470 Ω	1.0 V, 470 Ω	1.0 V, 470 Ω	1.0 V, 470 Ω	1.0 V, 470 Ω
Frequency Response						
Audio (CD in Direct Mode)	5 Hz-100 kHz: +1 dB, -3 dB	10 Hz-100 kHz: +1 dB, -3 dB	10 Hz-100 kHz: +1 dB, -3 dB	10 Hz-100 kHz: +1 dB, -3 dB	10 Hz-100 kHz: +1 dB, -3 dB	5 Hz-100 kHz: +1 dB, -3 dB
S/N Ratio						
PHONO (MM)	80 dB (IHF-A, 5 mV input)	80 dB (IHF-A, 5 mV input)	80 dB (IHF-A, 5 mV input)	80 dB (IHF-A, 5 mV input)	—	—
CD/TAPE	95 dB (IHF-A, 0.5 V input)	110 dB (IHF-A, 0.5 V input)	106 dB (IHF-A, 0.5 V input)	106 dB (IHF-A, 0.5 V input)	106 dB (IHF-A, 0.5 V input)	100 dB (IHF-A, 0.5 V input)
Phono Overload (1 kHz)	120 mV RMS, 0.5 % THD	120 mV RMS, 0.5 % THD	70 mV RMS, 0.5 % THD	70 mV RMS, 0.5 % THD	—	—
Tone Controls						
BASS	± 12 dB at 50 Hz	± 10 dB at 50 Hz	± 10 dB at 50 Hz	± 10 dB at 50 Hz	± 10 dB at 50 Hz	± 10 dB at 80 Hz
MID	± 12 dB at 1 kHz	—	—	—	—	—
TREBLE	± 12 dB at 20 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz	± 10 dB at 20 kHz
TUNER SECTION						
Usable Sensitivity						
FM Mono	11.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)	15.2 dBf, 1.0 μV (75 Ω IHF)	15.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)	15.2 dBf, 1.0 μV (75 Ω IHF)
FM Stereo	17.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)	22.2 dBf, 2.0 μV (75 Ω IHF)	22.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)	22.2 dBf, 2.0 μV (75 Ω IHF)
AM	30 μV	30 μV	300 μV/m	300 μV/m	300 μV/m	300 μV/m
S/N Ratio						
FM Mono	76 dB (IHF-A)	76 dB (IHF-A)	73 dB (IHF-A)	73 dB (IHF-A)	76 dB (IHF-A)	73 dB (IHF-A)
FM Stereo	70 dB (IHF-A)	70 dB (IHF-A)	67 dB (IHF-A)	67 dB (IHF-A)	70 dB (IHF-A)	67 dB (IHF-A)
AM	40 dB	40 dB	40 dB	40 dB	40 dB	40 dB
THD						
FM Mono	0.2 %	0.2 %	0.3 %	0.3 %	0.2 %	0.3 %
FM Stereo	0.3 %	0.3 %	0.5 %	0.5 %	0.3 %	0.5 %
AM	0.7 %	0.7 %	0.7 %	0.7 %	0.7 %	0.7 %
FM Stereo Separation						
	45 dB at 1 kHz	45 dB at 1 kHz	40 dB at 1 kHz	40 dB at 1 kHz	45 dB at 1 kHz	40 dB at 1 kHz
	30 dB at 100 Hz-10 kHz	30 dB at 100 Hz-10 kHz	—	—	30 dB at 100 Hz-10 kHz	—
GENERAL						
Dimensions (W x H x D)	435 x 220 x 480.5 mm	435 x 175 x 459 mm	435 x 173.5 x 430 mm	435 x 173.5 x 430 mm	435 x 174 x 377 mm	435 x 151 x 377 mm
Weight	33.0 kg	19.3 kg	19.3 kg	19.3 kg	11.1 kg	10.4 kg

DVD PLAYERS	DV-SP1000	DV-SP800	DV-SP502	DV-SP303
Linear Velocity				
Single layer	3.49 m/s	3.49 m/s	3.49 m/s	3.49 m/s
Dual layer	3.84 m/s	3.84 m/s	3.84 m/s	3.84 m/s
Frequency Range (Digital Audio)				
DVD-Audio				
DVD Linear Sound	4 Hz-88 kHz (192 kHz), 4 Hz-44 kHz (96 kHz), 4 Hz-22 kHz (48 kHz)	4 Hz-96 kHz (192 kHz), 4 Hz-44 kHz (96 kHz), 4 Hz-22 kHz (48 kHz)	4 Hz-88 kHz (192 kHz), 4 Hz-44 kHz (96 kHz), 4 Hz-22 kHz (48 kHz)	4 Hz-44 kHz (96 kHz), 4 Hz-22 kHz (48 kHz)
Audio CD	4 Hz-20 kHz (44.1 kHz)	4 Hz-20 kHz (44.1 kHz)	4 Hz-20 kHz (44.1 kHz)	4 Hz-20 kHz (44.1 kHz)
S/N Ratio (Digital Audio)				
	118 dB	118 dB	106 dB	106 dB
Audio Dynamic Range (Digital Audio)				
	100 dB	100 dB	96 dB	96 dB
THD (Digital Audio) (1 kHz)				
	0.001 %	0.001 %	0.003 %	0.002 %
Wow and Flutter				
	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability
Composite Video Output				
	1.0 V p-p, 75 Ω, negative sync., pin jack x 2	1.0 V p-p, 75 Ω, negative sync., pin jack x 2	1.0 V p-p, 75 Ω, negative sync., pin jack x 1	1.0 V p-p, 75 Ω, negative sync., pin jack x 1
S-Video Output				
	(Y) 1.0 V p-p, 75 Ω, (C) 0.286 V p-p, 75 Ω, negative sync., Mini DIN 4-pin x 2	(Y) 1.0 V p-p, 75 Ω, (C) 0.286 V p-p, 75 Ω, negative sync., Mini DIN 4-pin x 2	(Y) 1.0 V p-p, 75 Ω, (C) 0.286 V p-p, 75 Ω, negative sync., Mini DIN 4-pin x 1	(Y) 1.0 V p-p, 75 Ω, (C) 0.286 V p-p, 75 Ω, negative sync., Mini DIN 4-pin x 1
Component Video Output				
	(Y) 1.0 V p-p, 75 Ω, negative sync., pin jack x 2, (Pe)/(Pa) 0.7 V p-p, 75 Ω	(Y) 1.0 V p-p, 75 Ω, negative sync., pin jack x 1, (Pe)/(Pa) 0.7 V p-p, 75 Ω	(Y) 1.0 V p-p, 75 Ω, negative sync., pin jack x 1, (Pe)/(Pa) 0.7 V p-p, 75 Ω	(Y) 1.0 V p-p, 75 Ω, negative sync., pin jack x 1, (Pe)/(Pa) 0.7 V p-p, 75 Ω
Audio Output				
Digital (Optical)	-22.5 dBm x 2	-22.5 dBm x 2	-22.5 dBm x 1	-22.5 dBm x 1
Digital (Coaxial)	0.5 V p-p, 75 Ω, pin jack x 2	0.5 V p-p, 75 Ω, pin jack x 1	0.5 V p-p, 75 Ω, pin jack x 1	0.5 V p-p, 75 Ω, pin jack x 1
Analog Audio	2.0 V RMS, 320 Ω, pin jack (5.1 ch) x 1, pin jack (L/R) x 2	2.0 V RMS, 320 Ω, pin jack (5.1 ch) x 1, pin jack (L/R) x 2	2.0 V RMS, 440 Ω, pin jack (5.1 ch) x 1, pin jack (L/R) x 1	2.0 V RMS, 440 Ω, pin jack (L/R) x 1
Power Consumption				
	48 W	36 W	11 W	7 W
Dimensions (W x H x D)				
	435 x 123 x 374 mm	435 x 91 x 314 mm	435 x 81 x 309 mm	435 x 61 x 215.5 mm
Weight				
	12.1 kg	5.0 kg	3.4 kg	1.8 kg
Supplied Accessories				
	Audio/Video cable x 1, S-Video cable x 1, Remote control (RC-563DV) x 1, HDMI cable x 1, i.LINK cable x 1	Audio/Video cable x 1, S-Video cable x 1, Remote control (RC-498DV) x 1	Audio/Video cable x 1, S-Video cable x 1, Remote control (RC-523DV) x 1	Audio/Video cable x 1, S-Video cable x 1, Remote control (RC-616DV) x 1

*1 Channels are measured separately. *2 Calculated on basis of IHF Dynamic headroom. *3 1 channel driven.

SPECIFICATIONS

HOME STYLE/MINI COMPONENTS	TX-L55	DR-UN7	CR-B8
RECEIVER SECTION			
AMPLIFIER SECTION			
Power Output (4 Ω, 1 kHz, JEITA)	80 W/Ch (6 Ω)	26 W/Ch	26 W/Ch
Dynamic Power**	1.0 %/—	5.0 %/0.4 %	0.4 %/—
THD (Rated Power)	0.08 % (All channels)	0.08 % (All channels)	0.08 % (All channels)
Frequency Response	10 Hz-60 kHz (± 1.5 dB)	10 Hz-100 kHz (± 3 dB)	10 Hz-100 kHz (± 3 dB)
S/N Ratio	100 dB (IHF-A)	100 dB (IHF-A)	100 dB (IHF-A)
TUNER SECTION			
Usable Sensitivity			
FM Mono	11.2 dBf, 1.0 μV (75 Ω IHF)	15.2 dBf, 1.0 μV (75 Ω IHF)	11.2 dBf, 1.0 μV (75 Ω IHF)
FM Stereo	17.2 dBf, 2.0 μV (75 Ω IHF)	22.2 dBf, 2.0 μV (75 Ω IHF)	17.2 dBf, 2.0 μV (75 Ω IHF)
AM	30 μV	300 μV/m	30 μV
S/N Ratio			
FM Mono	70 dB (IHF-A)	73 dB (IHF-A)	67 dB (IHF-A)
FM Stereo	67 dB (IHF-A)	67 dB (IHF-A)	65 dB (IHF-A)
AM	40 dB	40 dB	40 dB
THD			
FM Mono/FM Stereo/AM	0.2 %/0.3 %/0.7 %	0.3 %/0.5 %/0.7 %	0.4 %/0.5 %/0.7 %
FM Stereo Separation			
	45 dB at 1 kHz	40 dB at 1 kHz	40 dB at 1 kHz
	30 dB at 100 Hz-10 kHz	—	—
GENERAL			
Power Consumption			
	110 W	—	—
Dimensions (W x H x D)			
	435 x 81.5 x 378 mm	—	—
Weight			
	6.5 kg	—	—
DVD SECTION			
DV-L55			
Signal Readout System			
Linear Velocity	Optical non-contact	Optical non-contact	—
Single Layer/Dual Layer	3.49 m/s/3.84 m/s	3.49 m/s/3.84 m/s	—
Frequency Range (Digital Audio)			
DVD-Audio	—	4 Hz-88 kHz (192 kHz)	—
DVD Linear Sound	4 Hz-44 kHz (96 kHz), 4 Hz-22 kHz (48 kHz)	4 Hz-44 kHz (96 kHz), 4 Hz-22 kHz (48 kHz)	—
Audio CD	4 Hz-20 kHz (44.1 kHz)	4 Hz-20 kHz (44.1 kHz)	10 Hz-20 kHz (44.1 kHz) (CD)
THD (1 kHz)			
	0.003 %	—	0.009 % (CD)
Audio Dynamic Range			
	96 dB	—	92 dB (CD)
S/N Ratio			
	106 dB	—	—
Wow and Flutter			
	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability
Video Output			
	1.0 V p-p, 75 Ω, negative sync., pin jack x 1 (Y) 1.0 V p-p, 75 Ω, (C) 0.286 V p-p, 75 Ω, negative sync., Mini DIN 4-pin x 1 (Y) 1.0 V p-p, 75 Ω, negative sync., pin jack x 1, (Pe)/(Pa) 0.7 V p-p, 75 Ω	1.0 V p-p, 75 Ω, negative sync., pin jack x 1 (Y) 0.7 V p-p, 75 Ω, (C) 0.286 V p-p, 75 Ω, negative sync., Mini DIN 4-pin x 1 (Y) 1.0 V p-p, 75 Ω, negative sync., pin jack x 1, (Pe)/(Pa) 0.7 V p-p, 75 Ω	—
S-Video Output			
	(Y) 1.0 V p-p, 75 Ω, (C) 0.286 V p-p, 75 Ω, negative sync., Mini DIN 4-pin x 1 (Y) 1.0 V p-p, 75 Ω, negative sync., pin jack x 1, (Pe)/(Pa) 0.7 V p-p, 75 Ω	—	—
Component Signal Output			
	(Y) 1.0 V p-p, 75 Ω, negative sync., pin jack x 1, (Pe)/(Pa) 0.7 V p-p, 75 Ω	—	—
Audio Output			
Digital (Optical)	-22.5 dBm x 1	-22.5 dBm x 1	—
Digital (Coaxial)	0.5 V p-p, 75 Ω, pin jack x 1	0.5 V p-p, 75 Ω, pin jack x 1	—
Analog Audio	2.0 V RMS, 470 Ω, pin jack (L/R) x 1	1.3 V RMS, 330 Ω, pin jack (L/R) x 1	1.3 V RMS, 330 Ω, pin jack (L/R) x 2
CD SECTION			
Reading Rotation			
	About 200-500 r.p.m. (Constant linear velocity)	About 200-500 r.p.m. (Constant linear velocity)	About 200-500 r.p.m. (Constant linear velocity)
Linear Velocity			
	3.49 m/s (Single Layer), 3.84 m/s (Dual Layer)	3.49 m/s (Single Layer), 3.84 m/s (Dual Layer)	3.49 m/s (Single Layer), 3.84 m/s (Dual Layer)
Error Correction System			
	Reed Solomon Product Code	Reed Solomon Product Code	Reed Solomon Product Code
DAC			
	192 kHz/24-Bit	192 kHz/24-Bit	192 kHz/24-Bit
Number of Channels			
	2 (stereo)	2 (stereo)	2 (stereo)
Digital Filter			
	352.8 kHz, 8x oversampling	352.8 kHz, 8x oversampling	352.8 kHz, 8x oversampling
Wow and Flutter			
	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability
GENERAL			
Power Consumption			
	11 W	79 W	68 W
Dimensions (W x H x D)			
	435 x 82 x 351 mm	205 x 147 x 353 mm	155 x 241 x 354 mm
Weight			
	3.6 kg	5.4 kg	4.6 kg
Supplied Accessories			
	Audio/Video cable x 1, S-Video cable x 1, Remote control (RC-450DV) x 1	Video cable x 1, Remote control (RC-640S) x 1	Remote control (RC-628S) x 1
INTEGRATED AMPLIFIERS			
A-9755			
Power Output (4 Ω, 1 kHz, JEITA)	300 W/Ch	200 W/Ch	60 W/Ch
Dynamic Power**	—	—	—
4 Ω/8 Ω	270 W/Ch/170 W/Ch	200 W/Ch/120 W/Ch	80 W/Ch/55 W/Ch
THD (1 kHz)	0.08 %	0.08 %	0.08 % (Rated Power)
Damping Factor (8 Ω, 1 kHz)	25	25	60
Sensitivity and Impedance			
Phono MM	2.5 mV (50 kΩ)	2.5 mV (50 kΩ)	2.5 mV (47 kΩ)
CD, Tuner, Tape	200 mV (50 kΩ)	200 mV (50 kΩ)	150 mV (25 kΩ)
Rec Out	200 mV (2.2 kΩ)	200 mV (2.2 kΩ)	150 mV (3 kΩ)
Tone Controls			
Bass	± 10 dB at 100 Hz	± 10 dB at 100 Hz	± 8 dB at 100 Hz
Treble	± 10 dB at 20 kHz	± 10 dB at 20 kHz	± 8 dB at 10 kHz
Loudness	+10 dB at 50 Hz/+ 2 dB at 10 kHz	+10 dB at 50 Hz/+ 2 dB at 10 kHz	+ 8 dB at 100 Hz/+ 2 dB at 10 kHz
Frequency Response	10 Hz-60 kHz/+ 1 dB, -3 dB (CD)	10 Hz-60 kHz/+ 1 dB, -3 dB (CD)	15 Hz-50 kHz (± 1 dB)
S/N Ratio (IHF-A)			
Phono MM	70 dB	70 dB	80 dB (5.0 mV input)
CD	100 dB	100 dB	102 dB
Phono Overload (MM 1 kHz 0.5%)			
	70 mV	70 mV	130 mV RMS
Dimensions (W x H x D)			
	435 x 144 x 431 mm	435 x 148 x 431 mm	435 x 120 x 331 mm
Weight			
	17.6 kg	13.0 kg	6.7 kg

HOME THEATER SYSTEMS	HT-S670	HT-S590
AMPLIFIER SECTION		
Power Output (8 Ω, 1 kHz, JEITA)	140 W/Ch	120 W/Ch (6 Ω)
Dynamic Power** (4 Ω/8 Ω (Front))	170 W/Ch/115 W/Ch	140 W/Ch/95 W/Ch
THD (Rated Power)	0.08 % (All channels)	0.9 % (All channels)
Frequency Response	10 Hz-100 kHz (+1 dB, -3 dB)	10 Hz-50 kHz (+1 dB, -3 dB)
Damping Factor (8 Ω)	60	60
S/N Ratio	100 dB (IHF-A)	100 dB (IHF-A)
Tone Control		
Bass/Treble	± 12 dB at 50 Hz/± 12 dB at 20 kHz	± 10 dB at 80 Hz/± 10 dB at 20 kHz
TUNER SECTION		
Tuning Range		
FM	87.5 to 108.0 MHz (50 kHz steps)	87.5 to 108.0 MHz (50 kHz steps)
AM	530/522 to 1710/1611 kHz (10 kHz/9 kHz steps)	530/522 to 1710/1611 kHz (10 kHz/9 kHz steps)
Usable Sensitivity		
FM Mono	11.2 dBf, 1.0 μV (75 Ω IHF)	15.2 dBf, 1.0 μV (75 Ω IHF)
FM Stereo	17.2 dBf, 2.0 μV (75 Ω IHF)	22.2 dBf, 2.0 μV (75 Ω IHF)
AM	30 μV	300 μV/m
S/N Ratio		
FM Mono/FM Stereo/AM	76 dB (IHF-A)/70 dB (IHF-A)/40 dB	73 dB (IHF-A)/67 dB (IHF-A)/40 dB
THD		
FM Mono/FM Stereo/AM	0.	