Yamaha
Digital Home Theater Components
Natural Sound Audio Components
Yamaha’s involvement with sound began with the production of our first reed organ in 1887. Shortly thereafter, we began making pianos and other instruments, and today we are the world’s largest producer of musical instruments. We also operate a worldwide music school, design concert halls and produce innovative electronic instruments. Our audio components have long been recognized as the standard bearers of fine quality, and with the development of Digital Sound Field Processing in 1986, we opened a new era in home entertainment. All of our acoustic and audio expertise is now engineered into LSIs that we design and manufacture ourselves, and these powerful chips are expanding and enhancing entertainment possibilities in the exciting new field of home theater. Recently, we’ve also introduced state-of-the-art video components, and now offer everything necessary for the finest in music and movie enjoyment at home.

Dedicated to the Creation of Fine Sound for Over a Century.

Image and Sound Quality Worthy of the Name “Home Theater.”
YSP-1 System: Maximum Convenience

The YSP-1 provides true multi-channel surround sound from a single unit! Using proprietary technology featuring a multi-driver array, it precisely aims sound beams to create a realistic five-channel effect. Home theater has never been this elegant and convenient.

The YSP-1 has a slim design that perfectly complements the PDM-4210 Plasma Display Monitor. It can be wall mounted below the monitor or located in the front or corners of the room. As all-in-one sound solution, there is no need to find locations for multiple speakers or run cables across the room. These two components are an ideal combination for elegant home theater.

YSP-1 System
Digital Sound Projector
RX-Z9 System:
Maximum Quality

What should high-end home theater look and sound like? Yamaha supplies the answer with the RX-Z9 System. An unrivaled combination of top-class components for stunning visual clarity and stupendous surround sound. Get ready to explore the full possibilities of home theater entertainment.

YSP-1/RX-Z9 System
Home Theater Enjoyment

The DPX-1200 (P.22) is a DLP projector that provides images of stunning clarity and rich, natural color. You’ve never seen movies look this good in a home before. Matched with Yamaha’s top quality home theater audio components, the RX-Z9 Receiver (P.24), the DVD-S2500 DVD Player (P.32), EF Series Speakers (P.34) and YST-SW315 Subwoofer (P.35), you have a system that offers a breathtaking cinematic experience.

RX-Z9 System
9.1-Channel Digital Home Theater System
High Performance Systems Designed for Genuine Movie Fans.

These two home theater systems let you enjoy movies at home the way you’ve always wished you could – with a high clarity, widescreen picture and rich, powerful sound all around you. They offer a huge selection of surround sound programs to perfectly match every type of movie (and music, too!), with Yamaha’s most advanced technology ensuring that both sound and images are sharp and clear. They also feature the amazing YPAO system that automatically analyzes the sound field and optimizes various settings to provide the best possible sound for that room and speaker setup. Discover just how good home theater can be.

Taking advantage of innovative Yamaha technologies like Natural Black and 3D Linear Color Balance, as well as DCDi processing, the LPX-510 LCD Projector (P.22) delivers beautiful picture quality with exceptionally high contrast. Team it with the RX-V2500 Receiver (P.26), the DVD-S2500 DVD Player (P.32), EF Series Speakers (P.34) and YST-SW315 Subwoofer (P.35), and start really enjoying movies at home.
This system also features the superb video performance of the compact and convenient LPX-510 LCD Projector (P.22). The RX-V1500 Receiver (P.26) and DVD-C950 DVD Changer (P.32) both provide extremely high quality, and you get the benefits of Yamaha’s advanced speaker technology with 225 PMD Series Speakers (P.34).

RX-V1500 System
7.1-Channel Digital Home Theater System
RX-V757 System

Sound with Awesome Depth and Clarity, Plus the Advantage of YPAO.

Both of the receivers in these systems use Yamaha’s leading-edge CINEMA DSP technology to deliver the very best in surround sound, with a wide selection of program choices. And the YPAO calibration system automatically adjusts setup parameters for you to ensure that the system will sound its best. The DVD Changer lets you switch quickly between five sources.

The RX-V757 (P.26) provides everything you need (and a lot more) for a versatile, high quality home theater system. Combined with the high-performance DVD-S1500 DVD Player (P.32), the result is a system that any movie fan will be delighted to own. The 225 PMD Series Speakers (P.34) are an elegant match for any monitor.

RX-V657 System

7.1-Channel Digital Home Theater System
The RX-V657 (P.27) is nearly the equal of the RX-V757 and will provide all the power, versatility and convenience that a high quality home theater system should have. This system also includes the DVD-C750 DVD Changer (P.32) and the impressive 125 Series Speakers (P.34) and YST-SW215 Subwoofer (P.35) for thrilling surround sound.

RX-V657 System
7.1-Channel Digital Home Theater System
Superb Video Quality Is Complemented by Dynamic CINEMA DSP Audio.

These two systems give new meaning to the phrase "value-packed." The receivers use CINEMA DSP technology for astoundingly rich, deep and clear surround sound and have a much wider range of features than you expect. Choose one and start discovering what a difference high quality surround sound makes to movie enjoyment.

The RX-V557 System has surprisingly high performance capabilities and versatility, thanks to a host of advanced Yamaha features like Quad-Field CINEMA DSP and a wide selection of surround programs. The DVD-S657 DVD Player (P.33) is first rate, and the NS-BP4500 Speaker Package (P.35) is designed for optimum performance with multi-channel movies.

RX-V557 System
6.1-Channel Digital Home Theater System
With most of the capabilities and nearly the same power as the RX-V557, the RX-V457 Receiver (P.27) is ready to serve as the central component of a full-function home theater system. The DVD-S550 DVD Player (P.33) and the NS-436 Speaker Package (P.35) deliver beautiful sound from both movie and music DVDs.

RX-V457 System
6.1-Channel Digital Home Theater System
Multi-Channel Surround Sound Enjoyment from A Single Component.

The YSP-1 is a genuine multi-channel home theater system — all in one unit! A true breakthrough in audio technology, it delivers sound from the five front, surround and center channels to listeners just as though they were surrounded by five speakers. It can be positioned in the front center or corners of the room. The thin design is an elegant match for flat panel monitors and simplifies placement. And naturally, there is no need to find locations for multiple speakers or to run cables across the room. YSP-1: the elegant, all-in-one solution for home theater sound.

YSP-1 Digital Sound Projector

Revolutionary Surround Sound

The Yamaha Digital Sound Projector YSP-1 is an exciting breakthrough in home theater technology. Now you can get optimum multi-channel sound directivity to enjoy the full benefits of home theater all from one easily installed component.

No more multiple speakers, no more clutter, no more hiding wires... just the pure excitement of bringing your movies and music to life.

The YSP-1 is designed to be an ideal, slim design match for your video display set. Although it is only one component, there are actually 40 speaker drivers inside that project precisely focused beams of sound aimed for optimum surround sound effect.

True Multi-Channel Sound

As amazing as it seems, the YSP-1 can actually deliver five channels of sound that surround listeners the same way that sound from five front, center and surround speakers does. Hear it and you will believe it!

Multi-Source Enjoyment

As a home theater sound system, the YSP-1 will generally be used for movies on DVD, but it also brings greater enjoyment to digital audio, satellite TV, cable TV and other multi-channel sources. It has built-in decoders for Dolby Digital, DTS, Dolby Pro Logic II and DTS Neo:6.

Thin Profile Designed to Match Flat Panel Displays

If you own or are planning to purchase a flat panel monitor, you probably wish you could also have thin speakers, rather than the usual boxes on the front and sides. The YSP-1 has a long, slim profile and nicely matches the styling of thin monitors.
Digital Sound Projection Technology

The YSP-1 applies sophisticated Digital Sound Projection Technology to precisely control the orientation of the sound by focusing it into beams. The result is true 5.1-channel surround sound without the need for extra speakers! With 42 digital amplifiers driving 40 1-5/8” full-range drivers and two 4-3/8” woofers, the Digital Sound Projector delivers 120W of total power with dynamic bass response.

Precisely Focused Beams of Sound

Although it is one component, there are actually 40 small drivers and 2 woofers inside. The delay time of each driver is controlled by a Digital Sound Processing circuit, enabling the system to project “beams” of sound which are precisely aimed for optimum surround sound effect. Naturally, high quality two-channel (stereo) sound can also be reproduced, as well as three-channel sound if desired.

Precise Calibration Produces Accurate Multi-Channel Sound

You input a variety of parameters (once only) to obtain the correct surround sound field. First, you select room size (large, medium or small), room shape (square or rectangular) and speaker position (wall or corner). You can also make fine adjustments with precise distances from the listening position. Test tones are provided to adjust beam angles via the remote control for maximum surround effect. If you will be moving the YSP-1, there are three memory locations for storing different groups of settings.

Beam Mode Selection

Five-Beam: All five channels—L, R, C, Ls and Rs—are given separate orientations. Sound is beamed off the walls to create the effect of a surround system with rear speakers. Stereo: The left and right woofers, with the multiple beam speakers acting as tweeters, reproduce the effect of conventional stereo speakers. Stereo + Three-Beam: The L and R channels are produced using stereo mode while C, Ls and Rs are produced using beaming. This mode is effective when the YSP-1 is placed in a corner. Three-Beam: Three beams are produced: L + Ls, R+ Rs and C. A surround sound effect is created by reflecting the sound off the walls.

Main Specifications

- Speakers Section: 1-5/8” x 40 beam drivers, 4-3/8” x 2 woofers
- Digital Amplifier: 120 W total power: 2 W x 40 + 20 W x 2
- Dimensions (W x H x D): 40-9/16” x 7-5/8” x 4-5/8”
- Weight: 28.7 lbs.

Option

SPM-K1 Wall Hanging Bracket

Connection with Display, VCR and DVD Player

The YSP-1 rear panel offers 2 optical/1 coaxial digital and 2 analog inputs, subwoofer output and RS-232C interface.
Yamaha presents advanced solutions for maximum home theater enjoyment.

Yamaha has taken home theater audio and video technologies to new levels of achievement. Long world-renowned for our CINEMA DSP surround sound technology, we now offer both projectors and plasma display monitors for superlative visual enjoyment as well. Here’s a brief introduction to our major technologies.

Digital Top-ART Concept
Digital Top-ART (Total Purity Audio Reproduction Technology) is a Yamaha product development philosophy that combines advanced digital engineering and circuit design to maximize audio signal purity. It is used in three sections of the receiver, the High Performance Digital Circuitry and High Current Amplification (explained below) and the High Definition CINEMA DSP circuitry (explained on P.18), each of which employs the world’s highest grade parts and most sophisticated LSIs. Digital Top-ART enables Yamaha receivers to deliver superb sound quality and bring out the full potential of Yamaha’s amazing CINEMA DSP technology.

High Performance Digital Circuitry (RX-Z9)
This section exemplifies the Digital ToP-ART concept of maximizing the quality of the digital circuitry while minimizing analog circuitry, and also maintains a straight and logical circuit layout for optimum signal purity. It includes a variety of sophisticated technology, beginning with Burr-Brown 192kHz/24-bit digital-to-analog converters for all channels with DSD (Direct Stream Digital) compatibility. Accurate-Touch Volume Control LSIs (Yamaha YAC520) are also used for all channels. The digital bass and treble tone controls have turnover frequencies for the front L/R and center channels. Eight-channel analog input signals are processed by 96kHz A/D conversion for highest quality. All circuitry is on a four-layer processing board in a fully shielded cabinet for reduced digital interference.

High Current Amplification
Although power rating is often the first thing people look at in a receiver, high power output does not necessarily mean good sound. High current level is a much more important factor, so Yamaha developed the High Current Amplification system, which overcomes two problems common to ordinary receivers. The first is a difference in voltage between the power supply and amplifier circuits caused by current fluctuations. This was solved by using custom-made, high-grade block electrolytic capacitors and a copper grip for one-point grounding. Another current drop is generally seen between the amplifier circuit and the speaker terminals, caused by the cables, speaker output relays, copper circuit boards, and so on. To avoid this problem, we used an extra-large, low-impedance toroidal transformer and gold-plated speaker relay contacts. As a result, Yamaha receivers achieve low impedance, high current power from input (power supply circuit) to output (speaker terminals). This drives the speakers much more smoothly and dynamically, for better sound from all sources, including 2-channel audio.

Choice of Signal Paths for Optimum Quality
Yamaha receivers give you a choice of specialized signal paths, ensuring that you can obtain the
purest signal quality possible. Pure Direct provides the shortest possible signal path for two-channel or multi-channel analog inputs, with no signal processing and no display. Straight outputs the original analog or digital signal without any post-processing. i.LINK provides a digital connection for DVD-Audio Linear PCM, Super Audio CD DSD (Direct Stream Digital) and other high quality audio sources. Direct provides a direct connection for analog stereo/multi-channel input and digital stereo/multi-channel (via i.LINK) input, with a dimmed display.

Symmetrical Power Amplifier Circuitry (RX-Z9)
The High Current Amplification system uses a symmetrical, full push-pull circuit configuration with a complementary FET input stage. This ensures balanced output with no signal interference and highest slew rate (rate at which signal changes; affects high frequency response). Furthermore, the massive toroidal transformer and large capacity block electrolytic capacitors (28,000µF) ensure a consistently stable power supply.

Effective Linear Damping
Level variations due to high impedance tend to reduce an amplifier's damping factor (ability to control unwanted speaker cone movement at low frequencies), and frequency variations cause it to fluctuate. Yamaha's Linear Damping circuit cancels the effect of these variations, maintaining a high, stable damping factor for superior sound articulation and frequency response.

High Grade Construction with Independent Chambers and Anti-Vibration Design (RX-Z9)
The RX-Z9 uses a heavy-duty, rigid chassis construction with separate individual chambers for left and right power amplifiers, power supply and control section to prevent any chance of interference. This thick chassis has electromagnetic shielding. The extremely large aluminum-extruded heat sinks have anti-resonance characteristics and ensure effective heat dissipation. Yamaha's ToP-ART base and feet provide stability and further vibration-damping. The other receivers use many of these same design features.

Only the Finest Parts are Used
At this degree of extreme sound quality, each and every part in the receiver makes a difference. Yamaha technicians tested, selected and in many cases custom-designed all parts, and then tested them in groups to ensure that they sounded good together. Particularly noteworthy parts, in addition to the transformer and capacitors, include:

- Schottky Barrier diodes that allow fast switching for high S/N ratio (RX-Z9/RX-V2500).
- High performance FE Mica capacitors and Metric Mylar Film capacitors using polypropylene material.
- Thick PC board wiring with 5/8" diameter copper jumper cables.
- Two direct signal path speaker relays with gold-plated crossover connections and shielding.
Advanced Facilities

Each generation of Yamaha receivers brings an evolution of our popular features while adding innovative enhancements to improve the operating experience. This is why even though our receivers are the most technologically advanced, they remain remarkably easy to use and enjoy. Although these receivers look like formidable machines, you’ll soon appreciate just how convenient and enjoyable they are to use.

On-Screen Display with GUI and Dedicated Remote Control (RX-Z9)

The RX-Z9 and RX-V2500 have the best looking and easiest to use on-screen display you’ve ever seen. This is due in part to the high quality video circuitry, which provides sharp, clear images. The GUI (Graphical User Interface) includes extensive yet easily understandable setup menus and has been designed to make it easy to select and adjust desired functions.

And to further simplify operation, the RX-Z9 has provided a second remote control dedicated to GUI use. The large round cursor control in the center makes it easy to navigate the on-screen menus and enter desired commands. It also has power, volume and mute buttons.

YPAO — Automatically!

Some receivers have a graphic equalizer (in fact, this one does too) which admittedly, can be a bit difficult to use. Parametric equalizers are even more effective, but only audio professionals can use them. The RX-Z9 is the first receiver to give you the benefits of a 10-band parametric equalizer, which automatically adjusts the audio output to provide precisely the best sound for the acoustics of the room.

It comes supplied with a small Optimizer Microphone, which you simply place in the position where you most frequently listen. Activating the YPAO function causes test tones to be emitted from the speakers. These tones are analyzed and based on the results, a variety of audio parameters are precisely calibrated to optimize the sound at the listening position. Among the factors analyzed are speaker connections and phasing, speaker size, sound pressure levels and speaker frequency response. In short, the RX-Z9 not only delivers better sound, it delivers the BEST sound for each and every room.

The RX-V2500 has an improved system that is faster (less than three minutes), also adjusts frequency response, and provides three preprogrammed EQ patterns, plus the ability to manually adjust parametric EQ settings. Six YPAO settings can be held in memory and recalled via two system memory buttons on the remote control. YPAO is available with the RX-Z9, RX-V2500, RX-V1500, RX-V757, RX-V657 and DVX-S650.

XM Satellite Radio Ready

These receivers are XM Satellite Radio Ready, allowing you to hear over 130 digital channels of music, news, sports, talk and entertainment from America’s number one Satellite Radio service. With the addition of the XM Connect and Play digital antenna accessory (sold separately) just subscribe to XM Satellite Radio and hear radio as it was meant to be!

YPAO Acoustic Customization: 5 Tuning Factors

1) Speaker Connections
Checks for missing connections and subwoofer phase control (here the right surround speaker is not connected).

2) Speaker Distance
Measures speaker distances from the listening point and corrects for differences down to 5cm.

3) Speaker Size
Checks speaker sizes (large or small) and subwoofer crossover frequency.

4) Speaker Frequency Response
Measures and optimizes each speaker’s frequency response using the parametric equalizer.

5) Sound Pressure Level
Measures and aligns the sound pressure levels of all speakers.

On-Screen Display with GUI and Dedicated Remote Control (RX-Z9)

The RX-Z9 and RX-V2500 have the best looking and easiest to use on-screen display you’ve ever seen. This is due in part to the high quality video circuitry, which provides sharp, clear images. The GUI (Graphical User Interface) includes extensive yet easily understandable setup menus and has been designed to make it easy to select and adjust desired functions.

And to further simplify operation, the RX-Z9 has provided a second remote control dedicated to GUI use. The large round cursor control in the center makes it easy to navigate the on-screen menus and enter desired commands. It also has power, volume and mute buttons.

RX-Z9 YPAO Optimizer Microphone
Custom Installation Compatibility (RX-Z9, RX-V2500, RX-V1500, RX-V757, RX-V657 and RX-V557)

- Multi-Zone Capabilities
  These receivers have a variety of features that allow flexible custom installation for enjoying sound in two or three rooms (zones) of your home. The RX-V2500 and RX-V1500 provide audio output to Zones 2 and 3, and the RX-V2500 offers video output (including S-Video) for Zone 2 as well. The RX-Z9/RX-V757/RX-V657/RX-V557 deliver audio output to Zone 2. Zone 2 power amplifier assignability and speaker terminals mean that Zone 2 can be fully independent with its own 2-channel power, while you still enjoy 5.1-channel sound in the main room (except RX-V557).

- Convenient Control
  A switch for selecting Main Zone or Zone 2 power is conveniently located on the front panel (except RX-V1500). All five receivers provide a remote control for Zone 2, and the RX-V2500 also offers Zone 2 and 3 volume control, mute and input selection.

- Other Features
  All six receivers include trigger output for automatic powering of other components (RX-Z9/RX-V2500 has two), remote control IR code input and output (RX-Z9/RX-V2500 has two), and an RS-232C interface for using a PC or touch-screen controller to configure the receiver. They also provide speaker A, B or A+B selection.

Subwoofer Crossover and Phase Selection (RX-Z9, RX-V2500, RX-V1500, RX-V757, RX-V657, RX-V557 and RX-V457)

Adjusting the balance between the subwoofer and the other speakers can result in significantly better sound quality. By selecting the proper crossover frequency, the subwoofer can compensate for the low-range deficiencies of the other speakers. These receivers allow you to select nine crossover frequencies: 40, 60, 80, 90, 100, 110, 120, 160 and 200 Hz. In addition providing a wider choice than most other receivers, the steps between 80 and 120 Hz are only 10 Hz apart for more precise adjustment.

There may be cases where the low frequency output from the front speakers overlaps with the higher end of the subwoofer output, meaning that part of the frequency range will be output by both the front speakers and the subwoofer. This is not a problem as long as the phases of the sound waves from the two sources match, but if they are out of phase, they will cancel each other out, resulting in those frequencies being lost. In this case, the phase switch can be used to eliminate the problem (except RX-V1500).

Easy-Operation Learning-Capable Control Unit with LCD Display (RX-V2500, RX-V1500 and RX-V757)
The remote control can “learn” the functions of other components, so you can use it as a single remote for the entire system. It can be preset with control codes for TV, DVD, VCR, DVR, and other components. They also are all controllable from the remote, and Volume, Mute, Input Select controls are available for each zone as well.

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**Zone 2 Power Amplifier Assignment**

When Zone 2 is turned off.

![Diagram of system power on/off for Main Zone and Zone 2](image1)

When Zone 2 is turned on.

![Diagram of system power on/off for Main Zone and Zone 2](image2)

Since the surround back amplifiers are automatically assigned, no physical re-wiring is necessary. For example, while Zone 2 is switched off, the Main Zone can enjoy 7.1 surround sound. When Zone 2 is switched on, the Main Zone can still enjoy 5.1 surround sound, plus Zone 2 can enjoy stereo playback. No need for re-wiring!

**Power Control for Each Zone on the Remote**

RX-Z9, RX-V2500, RX-V1500, RX-V757, RX-V657 and RX-V557

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**Switches for Main Zone and Zone 2 Power**

Available on the Front Panel (RX-V2500, RX-V757, RX-V657 and RX-V557)

RX-V2500 Hidden Panel

RX-V757 Front Panel
How Sound Propagates

(Previous Models)

- Direct Sound
- Early Reflections

Direct Sound

Early Reflections

How Sound Propagates

(RX-Z9)

- Direct Sound
- Early Reflections

Double the Speed

Previous 0—22kHz

RX-Z9 0—44kHz

Expanding Frequency Response

Fs: 48kHz

Fs: 96kHz

Double the Signal Capacity

High Definition CINEMA DSP Technology (RX-Z9)

The RX-Z9 has six times greater DSP capacity than previous models, thanks to an increase from 48kHz to 96kHz/24-bit A/D converters that can accept 96kHz signals for direct digital conversion and processing. Higher density processing enables approximately triple the amount of early reflection data to be handled, for significantly richer surround sound performance.

The RX-Z9 also employs 192kHz/24-bit D/A conversion and DSP processing and Yamaha's 32-Bit Floating-Point Quantization System LSIs (four YSS-930s) for high precision decoding of Dolby Digital, DTS Digital Surround, DTS 96/24, DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, DTS Neo:6 and Dolby Pro Logic IIX formats.

Conventional multi-channel systems base their sound on Dolby Digital and DTS decoding, using relatively simple matrix and steering techniques to create surround sound effects. Yamaha's CINEMA DSP Digital technology is much more sophisticated. It naturally decodes the Dolby Digital and DTS movie sound formats, but it also draws on a huge memory of real-world data from actual venues (especially for the music programs) and input from movie sound technicians. This data is stored and processed on Yamaha-developed LSIs, the most powerful audio chips in the world.

Yamaha Uses Actual Sound Field Data

Yamaha developed a technique called Single Point Quad Miking to precisely capture the acoustic patterns of sound spaces. This complex data is stored and processed on extremely sophisticated LSIs designed and manufactured by Yamaha.

4-Layer DSP Processing Board

All of the DSP IC chips and related circuitry are located together on a 4-layer board, which provides a number of advantages. The dimensions are smaller (2/3 previous types), so signal paths are shorter and there is more space for the large power supply components. Digital interference is reduced and impedance is lower as well.

Yamaha's Exclusive YSS-930 32-Bit Floating Point Quantization LSI

(RX-Z9, RX-V2500 and RX-V1500)

This powerful LSI performs all Dolby Digital and DTS decoding with extreme accuracy, as well as all digital sound field processing, capabilities that previously required two or more chips. It also outperforms other chips in the precise synchronization of images and sound.

Audio Delay for Adjusting Lip-Sync

A Yamaha LSI provides synchronization of images and sound, which is called lip-sync. The video signal goes through the video processor circuit before it is displayed, which takes time, so it lags behind the audio. The LSI accurately aligns them
and even allows the lip-sync parameters to be adjusted using the Audio Delay mode.

**CINEMA DSP Programs and THX Programs**
One of the main advantages of CINEMA DSP is the large choice of sound field programs available. The basic program for movies is Enhanced, which greatly improves the sound of the surround fields. The "largest" of these sound fields is Spectacle, which recreates the open feeling of large-scale, epic motion pictures. The Sci-Fi, Adventure and General programs provide the optimum sound fields for those movie genres. There are also THX programs*.

* THX Ultra2/Select are the surround programs for home use, based on the THX Theater processing developed for movie theater surround sound.

**New Night Listening Enhancer**
During low-volume listening, such as late at night, dynamic range suffers and you may miss some sounds. The Night Listening Enhancer offers two modes, Cinema and Music, with three-level selectability, which will ensure that you don’t miss movie dialogue or quiet passages, or lose overall surround spaciousness. It works for all surround programs, including Dolby Pro Logic IIx.

**Night Listening Enhancer**
- **Cinema Mode**: Equalizes center channel frequency response for clear dialogue.
- **Music Mode**: Uses loudness filter for clear musical sound.

**Enjoy Surround Sound through Headphones**
SILENT CINEMA makes it possible to hear large-scale surround sound through ordinary headphones! This is a variation of CINEMA DSP technology that Yamaha developed to let you listen in private to movies and other multi-channel sources for hours without listening fatigue.

**Surround Sound from Only Two Speakers**
With just two left and right speakers, the Virtual CINEMA DSP mode will create two additional "virtual" rear speakers, giving you the sense of being in a full-scale surround sound field. So even in rooms with no space for rear speakers, you can enjoy the exciting effects of Dolby Digital and DTS movie sound formats.
As one of the first companies to popularize “home theater” and a leader in the field, Yamaha is naturally committed to visual as well as audio excellence. We want our customers’ enjoyment of movies and other video sources to be totally satisfying. Our home theater line includes a number of high performance products, including projectors, DVD players and a plasma monitor, but in terms of our home theater receivers, we design them to deliver the finest possible video signal to the display component.

**Video Up Conversion**
(RX-Z9, RX-V2500, RX-V1500, RX-V757, RX-V657 and RX-V557)

One way of ensuring the highest video quality for your home theater system is to use the best possible video signal. The receiver automatically upgrades the input signal (composite to S-Video or component, S-Video to component) to the one that your monitor/TV can accept. This means that you simply use the best possible cable between the receiver and the monitor/TV, and then whatever the source is, you are assured of getting the highest possible quality.

**DCDi Processing**
(RX-Z9)

The RX-Z9 is the first receiver to offer Faroudja’s DCDi Processing, which is selectable and ensures that images are smooth and natural, without staircasing or jaggies.

**Noise Shaped Video™ (RX-Z9)**

This technology, from Analog Devices, uses oversampling and advanced techniques such as multi-bit sigma–delta processing and bit-shuffling to improve converter performance by moving converter noise to an area of the spectrum where it can be removed by an analog filter. This improves the accuracy of signal representation, allowing images to be displayed at much higher resolutions.

**Progressive Scan Video Output and Other Video Technologies (RX-Z9)**

The RX-Z9 is the first receiver to provide Progressive Scan Video Output, for use with high definition monitors. With almost twice as much video data, it provides a sharper, noise-free picture with clearer details. The progressive circuit is an 3:2 Pull-Down Detection type, and gives you the benefit of progressive scanning even if your DVD player does not have it. Other video technologies include 216MHz/12-bit Video D/A Conversion, Motion Adaptive Noise Reduction, Cross Color Suppression, Aspect Ratio Conversion, a Time Base Corrector that prevents the wavy distortion seen in video tapes and TrueLife Enhancer by Faroudja that brings out details in the picture producing a more lifelike image.

**HDTV (720p/1080i) Compatible Component Video Monitor Out**

The frequency response of the component video monitor out signal is an extremely wide 5Hz–100MHz (RX-Z9; RX-V2500, RX-V1500, RX-V757, RX-V657, RX-V557 and RX-V457 are 5Hz–60MHz), ensuring compatibility with HDTV (720p, 1080i) monitors.

**Image Adjustment (RX-Z9)**

To ensure that the high quality image looks precisely the way you want it to, the RX-Z9 includes an extremely detailed Image Adjustment function. You can select these modes, Cinema, Standard or Dynamic, and within those modes, you can “fine-tune” five parameters: Enhancer, 3D NR, Contrast, Brightness and Saturation. You can then store your final adjustments in the user memory for recall at any time.

“Natural Black” Concept To provide superior contrast, Yamaha has developed the Natural Black concept, combining advanced technologies, parts and functions to achieve truer, deeper levels of black than ever before.

Black reproduction by DPX-1200 and conventional projectors,

Taking Projector Performance to a New Level The DPX-1200 makes use of a wide range of new technologies to deliver extraordinary video performance. Contrast is an incredible 5,000:1, brightness is 800 ANSI lumens, picture sharpness is outstanding and color reproduction is stunningly natural.

Newest Light Engine: 720P DarkChip3™

This DLP chip is Texas Instruments newest and most advanced Digital Micro Mirror Device. As the name implies, it provides deeper blacks and improved contrast in dark areas.

Seven-Segment Color Wheel

A seven-segment color wheel, with an ND filter-equipped green segment, resulting in excellent color reproduction. The seven-segment structure reduces dither, while color reproduction is excellent, with greens being more true to life than ever (achieving the HD monitor “green” standard). Green resolution is 10-bit, which also improves the representation of black tones.

LPX-510: “Natural Black” and advanced functions for enjoying widescreen movies.

High Performance LCD Panels

The LPX-510 uses LCD panels capable of projecting high resolution 720p HDV images and 10-bit video processing gives it the ability to reproduce 1.07 billion colors. 16:9 aspect ratio compatibility means that widescreen movies can be viewed in their entirety.

3D Linear Color Balance

The 3D Linear Color Balance function maintains the proper balance between the three signals from the LCD panels, adjusting color irregularities through a range of 15,360 correction points for accurate color in any type of scene.

Lens Shift, Motorized Iris and Zoom

Vertical and horizontal lens shift capability means that the projector does not have to be positioned directly in front of the screen. The motorized iris control can be used to improve contrast and focusing, and the motorized Zoom will expand the image up to 1.5 times.

PDM-5520 and PDM-4210: Yamaha Plasma Display Monitors use the most advanced technologies to deliver superb performance.

e-ALIS Method Panel Technology (PDM-5520)

The PDM-5520 uses a highly advanced e-ALIS Method (extended Alternate Lighting of Surface) panel whose pixels are defined electronically rather than physically, allowing each picture element to be smaller than normal. This creates a higher pixel count for a smoother, seamless picture. The panel employs new plasma gas and luminescent material that are more effective than previous types, and the area coated with the luminescent material is greater. This results in the industry’s highest level of brightness, 1,000 cd/m2, with the ability to display 1.07 billion colors for spectacular color richness and purity.

ALIS Method Panel Technology

This plasma display panel uses an advanced ALIS (Alternate Lighting of Surface) Method to deliver a sharp, clear picture with the smooth, high-definition quality you see in a movie theater. The ALIS Method employs a screen surface comprised of vertical channels of continuous phosphor material. The pixels are defined electronically rather than physically, allowing each picture element to be smaller than normal. This creates a higher pixel count for a smoother, seamless picture, with edges and curves clearly defined. The PDM-4210 uses the latest ALIS Method technology, which features new plasma gas and luminescent material that are more effective than previous types. The result is a brighter picture (1,100 cd/m²) and higher color temperature, which makes white areas such as clouds in the sky stand out more vividly. The panel can also display a wider range of colors (16.7 million), with enhanced color purity.

Natural Black Drive System

The Natural Black Drive System automatically determines the brightness of the screen and applies the gray scale (contrast) best suited to the scene in order to reproduce both bright and dark areas with small details clearly visible. The contrast ratio is an outstanding 1,000:1 under daylight condition, making it possible for the PDM-5520/PDM-4210 to deliver sharp, natural-looking images.

The Natural Black Drive System allows the PDM-5520/PDM-4210 to outperform other plasma displays with deeper blacks and sharper overall contrast.

Digital Linear Color Control

Digital Linear Color Control continually maintains the ideal balance between the three main colors (red, green, blue) for optimum color reproduction in every scene from very dark to very bright. The sharpness and tint of each color are independently controlled, so you can adjust the tint more precisely.

Long Life of 60,000 Hours

Another benefit of the e-ALIS/ALIS Method Panel technologies are lower power consumption and longer panel life. The Yamaha Plasma Display Monitors will provide high quality images for 60,000 hours,* about twice as long as a typical CRT monitor.

* Until panel brightness reduced to 40%. Yamaha measurement.
Incorporating the most advanced technology and numerous convenient functions, this projector offers the highest performance in its class.

- Yamaha Natural Black concept
- 5,000:1 contrast ratio
- Latest DMD 720P DarkChip3™ device
- High resolution lens
- Motorized iris control for higher contrast
- 7-segment color wheel
- Faroudja TrueLife Enhancer
- Natural color adjustment system
- Lamp power selector
- Faroudja DCDi* processing
- Silent operation
- HDMI compatibility
- Motorized vertical lens shift, iris, focus and zoom controls
- One-line menu with graphical menu configuration

<Accessories>
- PJL-427: Optional lamp cartridge
- PMT-L31: Optional installation brackets for low ceiling

*DCDi is not applicable to images from film sources.

With the LPX-510, Yamaha makes it easy to enjoy widescreen movies at home with beautiful film-like picture quality.

- High contrast film-like picture quality with “Natural Black”
- Latest 0.7” 720p liquid crystal panel
- 720p HDTV format compatibility, 16:9 widescreen display
- 3D Linear Color Balance
- Cinema Balance Filter
- Motorized focus control
- Vertical/horizontal lens shift
- Faroudja DCDi* processing
- Short focus lens with high power zoom
- Yamaha Cinema Filter
- 1.5x motorized zoom
- 15° vertical keystone correction
- Motorized focus control
- 6 user preset memories
- Smart Zoom for projecting 4:3 sports broadcasts onto a full 16:9 screen
- Automatic aspect conversion
- Six-step lamp power control
- HDMI terminal
- RS-232C interface and trigger out (12V/200mA)
- Low-noise operation

<Accessory>
- PJL-520: Optional lamp cartridge

*DCDi is not applicable to images from film sources.
The world’s most advanced PDP technologies give the PDM-5520 performance capabilities unmatched by conventional plasma monitors. • e-ALIS Method panel technology • Natural Black Drive System for 1,000:1 contrast ratio • High brightness: 1,000 cd/m² • High resolution: 1,366 x 768 pixels • Digital Linear Color Control • Long life: 60,000 hours* • 1.07 billion colors • Two picture modes • Four white balance modes • Low power consumption • Side-by-side picture • Picture-in-picture • Multi-language on-screen display • 2 x 12W audio power • Timer functions • Five video and six PC size modes • RS-232C interface • Simple remote control unit

* Until panel brightness reduced to 40%. Yamaha measurement.

Delivers incredibly smooth, high-definition image quality for an exceptional home cinema viewing experience.

• ALIS Method panel technology • Natural Black Drive System for 1,000:1 contrast ratio • High brightness: 1,100 cd/m² • High resolution: 1,024 x 1,024 pixels • HDTV capability • Digital Linear Color Control • Long life: 60,000 hours* • Two picture modes • Four white balance modes • Low power consumption • Side-by-side picture • Picture-in-picture • Multi-language on-screen display • 2 x 12W audio power • Timer functions

* Until panel brightness reduced to 40%. Yamaha measurement.
Only Yamaha could set these goals for a home theater receiver

This flagship RX-Z9 goes beyond the capabilities of previous high-end Yamaha models with High-Definition CINEMA DSP technology, the ability to automatically optimize the sound for the listening room, superior audio and video quality, and the operating ease that Yamaha is famous for. The high end moved up a step.

9-Channel Amplifier Capable of Delivering 1,290W
When you power up your carefully assembled, top-class home theater system, you expect beautiful sound and video quality, but you also want plenty of raw power. Especially at dynamic peaks, such as explosions or the climax of rock songs, you want to be thrilled and awed, without a hint of distortion marring the moment. The RX-Z9 is built to satisfy your urge for power, surrounding you front, sides and rear with seven channels capable of outputting a huge 170 W each, plus another 50W from the two presence (front effect) channels. That’s a total of 1,290W. Movies will sound as if you’re in the director’s chair, and you can even enjoy multi-channel sources from only four or five speakers (even without a subwoofer, although this is not recommended), thanks to an analog mixdown mode. Another point to consider is that because of this high power capability, at normal listening levels the amplifier won’t be working as hard, so distortion levels are virtually zero.

Superior Digital-to-Analog Converter System
For the important digital-to-analog converters, Yamaha has chosen the PCM1792 manufactured by the high-end audio expert, Burr-Brown. The RX-Z9 uses these DACs for all channels. The PCM1792 is a high-performance, precision 24-bit DAC with ultra-low distortion of only 0.0004% (THD + N) and S/N ratio of 129dB. It offers superior low level linearity, with excellent full-scale performance under varying operating conditions. Its major benefit is performing accurate sound field processing for high quality multi-channel reproduction such as Dolby Digital and DTS. For two-channel stereo, the PCM1792 provides outstanding separation and accurate musical delineation. An additional advantage is its 192kHz/24-bit conversion capability, making it compatible with the latest (and future) high resolution digital audio sources.

39 Surround Sound Programs
The RX-Z9 offers a huge range of 39 surround sound programs, allowing you to customize your listening experience to match your personal tastes and preferences.

RX-Z9 Rear Panel Connections
- 7 Optical, 4 Coaxial Digital Inputs (fixed and assignable)
- 7 A/V and 4 Audio Inputs, 3 A/V and 2 Audio (Audio Signal) Outputs, and Zone 2 Audio Outputs
- 6 Component Video Inputs (fixed and assignable) and 2 Monitor Component Video Outputs
- 2 Monitor (with S-Video) Outputs, 7 Video Inputs /3 Video Outputs (with S-Video), and Zone 2 Video (with S-Video) Output
- Pre-Main and Center Couplers, Surround, Surround Back and Presence Preouts, and Subwoofer Outputs
- 8-Channel External Decoder Input
- RS-232C Interface for Custom Installation
- 2 Trigger Outputs for Automatic Power on of Other Components (+12V, 15mA)
- Remote Control IR Code Input/Output
- Zone 2 Coaxial Digital Output Terminal
- i.LINK (IEEE 1394) Digital Audio Interface
- Pure Direct 2-Channel Inputs
and achieve them!

sound programs to choose from. For video material, you can select the program that matches your video source, with 12 choices from games and TV sports to Sci-Fi movies. For music, you have 21 choices ranging from European concert halls to disco ambience. Each sound field is created from acoustic data recorded at the actual venues, stored and processed by highly sophisticated Yamaha technology. There are also 16 straight movie format decoding programs and 6 THX programs, including Ultra2. Naturally, you can experiment with different programs for each source, and you can also use the GUI menus to adjust numerous parameters for each program. With CINEMA DSP, you will never be bored or dissatisfied with the sound of your system!!

YPAO (Yamaha Automatic Parametric Room Acoustic Optimizer)

Some components have a graphic equalizer (in fact, this one does too) which admittedly, can be a bit difficult to use. Parametric equalizers are even more effective, but only audio professionals can use them. The RX-Z9 is the first amplifier to give you the benefits of a 10-band parametric equalizer, which automatically adjusts the audio output to provide precisely the best sound for the acoustics of the room.

How does it work? The amplifier comes supplied with a small Optimizer Microphone, which you simply place in the position where you most frequently listen. Activating the YPAO function causes test tones to be emitted from the speakers. These tones are analyzed and based on the results, a number of controls and video input terminals are fixed and assigned, meaning that they can be independently assigned to sources of your choice or defaulted to fixed settings.

Video Inputs on Front Panel

A panel on the front of the receiver flips up to reveal a number of controls and video input terminals. These include video and audio terminals as well as optical digital and S-Video inputs. This makes it convenient to connect a game machine for DVD games or even movies, or other devices such as a camcorder.

Subwoofer Crossover Selection

The RX-Z9 provides a choice of nine subwoofer crossover frequencies: 40, 60, 80, 90, 100, 110, 120, 160 and 200 Hz. In addition to providing a wider range than other receivers, the steps from 80 to 120 Hz are only 10 Hz apart for more precise selection. This choice of crossovers lets you "fine-tune" the audio system by selecting the optimum frequency to maximize receiver/speaker efficiency and also ensures best performance from a wider variety of speakers (small to large).

Dialogue Lift

Clear dialogue is important for movie enjoyment, however, when using front and center speakers positioned below the screen, dialogue may not be heard with maximum clarity. The Dialogue Lift function causes part of the front and center channel sound to be output from the presence speakers, so you hear the dialogue more clearly.

Other Notable Features

- High Current Amplification
- High dynamic power, low impedance drive capability
- Linear Damping
- A/V Rec Out/Zone 2 selector
- 8-channel external decoder input terminals
- Audio Delay for adjusting lip-sync
- S-Video 1/2 wide selective signal compatibility
- Digital tone controls
- 40-station preset tuning
- Direct-access (macro-command, learning and preset capable) remote unit
- Fixed [ ], Fixed/Assignible [ ] and Assignible [ ] Terminals.
- RF (AC-3) terminal for LD input [ ] is assignable as coaxial digital terminal.
- HDTV (720p/1080i) Compatible Component Video Out

The frequency response of the component video monitor out signal is 5Hz – 200MHz, making it compatible with HDTV monitors.
YPAO room sound optimization makes the most of this receiver's high sound quality and surround realism.

- 7-channel 910W powerful surround sound (130W x 7)
- YPAO with 6 system memories
- YPAO PEQ manual setting
- GUI On-screen display
- Pure Direct
- 192kHz/24-bit DACs for all channels
- RS-232C interface/2 trigger outputs/2 IR ports
- Zone 2/presence speaker out (power assignment)
- Zone 3 volume
- 3 component video inputs
- Dolby Pro Logic IIX and DTS 96/24 compatibility
- Audio Delay for adjusting lip-sync
- Selectable 9-band subwoofer crossover/Subwoofer phase select
- Night Listening Enhancer
- 19 surround programs with 2 THX Select programs
- Component video up conversion
- 9-channel speaker outputs and Dialogue Lift
- Rec. out/Zone 2 selector
- Main/Zone 2 direct on/off
- Direct-access (macro-command, learning and preset capable) remote control unit with macro-command buttons and illuminated buttons

A high-performance, high-value receiver featuring Yamaha's unique CINEMA DSP and YPAO acoustic optimization, plus much more.

- 7-channel 840W powerful surround sound (120W x 7)
- YPAO
- Pure Direct
- 192kHz/24-bit DACs for all channels
- RS-232C interface/trigger output/IR port
- Zone 2/presence speaker out (power assignment)
- Zone 3 volume
- Dolby Pro Logic IIX and DTS 96/24 compatibility
- Audio Delay for adjusting lip-sync
- Selectable 9-band subwoofer crossover
- Night Listening Enhancer
- 16 surround programs with 2 THX programs
- Component video up conversion
- 9-channel speaker outputs and Dialogue Lift
- Front panel Video Aux inputs
- Digital tone controls for front, center, presence and subwoofer
- Direct-access (macro-command, learning and preset capable) remote control unit with macro-command buttons

Top-class 7.1-channel receiver delivering 700W of sound power and superb picture quality, as well as outstanding features like YPAO, Quad-Field CINEMA DSP, Night Listening Enhancer and XM Satellite Radio ready.

- 7-channel 700W powerful surround sound (100W x 7)
- XM Satellite Radio ready
- Digital ToP-ART and High Current Amplification
- YPAO for automatically optimizing the sound in your room
- Component video up conversion (full)
- On-screen display
- Pure Direct for high quality sound reproduction
- Zone 2 out (assignable power amplifier), IR port and speaker B for custom installation
- Dialogue Lift for enhanced dialogue sound output
- Quad-Field CINEMA DSP and 14 surround programs
- Phono input
- Learning-capable remote control unit with LCD indication
- Night Listening Enhancer (Cinema/Music) and SILENT CINEMA
RX-V657 7.1-Channel Digital Home Theater Receiver

- Full-function, 510W high-power 6.1-channel receiver with special features like Quad-Field CINEMA DSP and Night Listening Enhancer, XM Satellite Radio ready, too.
  - 6-channel 510W powerful surround sound (85W x 6) • XM Satellite Radio ready • Digital ToP-ART and High Current Amplification • Dolby Digital EX, DTS-ES, Dolby Pro Logic IIx and DTS 96/24 compatibility • Night Listening Enhancer (Cinema/Music) and SILENT CINEMA • Quad-Field CINEMA DSP and 14 surround programs • Night Listening Enhancer (Cinema/Music) and SILENT CINEMA • 192 kHz/24-bit DACs for all channels • Selectable 9-band subwoofer crossover / Subwoofer phase select • Audio Delay for adjusting lip-sync (0–160 ms) • 2 component video inputs and 3 digital inputs • Preset remote unit • 3 S-Video inputs

The previous RX-V440 has been honoured with an EISA Award for Best Home Theater Receiver 2003–2004. The prestigious EISA Awards are chosen by media representatives from up to 20 European countries.
Elegantly Slim-Line DVD Player with advanced technology and features for outstanding performance
• Progressive Scan (NTSC/PAL) • DVD-Video, SVCD, VCD, Audio CD and JPEG/MP3 (multisession) playback • DVD+RW/+R, DVD-R/-RW and CD-R/RW playback • 54MHz/12-bit video D/A conversion for high picture quality • Picture CD playback with display • Audio equalizer and 3D reverb • MP3 fast forward/rewind/special playback • Playback of discs with both JPEG and MP3 tracks • NTSC/PAL Conversion

A Slim-Line receiver whose performance is as sophisticated as its design.
• High power 100W x 6 (Max) Yamaha original digital amplifier
• Convenient setup on-screen display with GUI (Graphical User Interface) • Easy setup and operation • Compatibility with latest movie sound formats including Dolby Pro Logic IIX, Dolby Digital EX, DTS-ES Discrete 6.1, and DTS Neo:6 • Powerful 32-bit Yamaha LSI (YSS-938) for CINEMA DSP processing • 14 surround programs with SILENT CINEMA and Night Listening mode

Presenting the home theater systems that will impress your friends even when the power is off.
When the power is on, you’ll enjoy movies and music with surround sound that is unrivalled for a realistic sense of presence and overall depth and clarity. When it’s off, you’ll be proud to own a system that sets the standard for contemporary design elegance.
Home theater has evolved into an advanced species.

Home theater has evolved into an advanced species, and it’s called CinemaStation. Elegantly styled, they’re also supremely easy to use. The DVX-S650: proof that evolution is a good thing.

This is the home theater system you’ve been waiting for! Impressive performance from beautifully slim, stylish components.

[Receiver]:
- YPAO: Automatically optimizing the sound in your room
- 4 DSP program buttons on remote unit
- On-screen display with GUI (Graphical User Interface)
- 55W x 5 Yamaha original digital amplifier
- Powerful 32-bit Yamaha LSI for CINEMA DSP processing
- 12 surround programs plus SILENT CINEMA and Night Listening mode
- Quad-Field CINEMA DSP for enjoying formats such as Dolby Digital Matrix 6.1 and DTS-ES Matrix 6.1
- Component video output
- 40-station FM/AM preset tuner

[DVD player]:
- Progressive Scan
- 192kHz/24-bit audio D/A conversion
- Wide disc compatibility: DVD-Video, DVD+RW/+R, DVD-R/RW, Audio CD, CD-R/RW, VCD, SVCD, MP3 and JPEG

[Speakers]:
- Advanced YST and QD-Bass technology subwoofer for powerful bass response
- 8” 130W high power cube subwoofer
- High-grade MDF speaker cabinets
- Magnetic shielding (all speakers)

Dimensions (W x H x D): Weight:
- Center Unit: 14-3/16” x 21-5/16” x 14-3/16”; 13.2 lbs.
- Front Speakers: 13” x 7-1/2” x 7-1/8”; 8.8 lbs.
- Center Speaker: 4-7/8” x 14-5/8” x 4-3/4”; 5.3 lbs.
- Surround Speakers: 8-1/4” x 5-1/2” x 3-3/4”; 2.6 lbs.
- Subwoofer: 11-7/16” x 14-3/16” x 12-1/4”; 22 lbs.

Professional sound equalization with just one microphone in 3 minutes
You just place the small microphone at the listening position and touch a button. In less than 3 minutes, the system analyzes the acoustics of the room and adjusts various speaker parameters to provide the best surround sound.

One touch to the ideal surround sound.
Yamaha makes it quick and easy to select the 4 most popular surround sound programs: Movie, Music, Sports and Game. Just touch a button on the remote control and you’ll hear the sound field change as that program takes effect.

Easy access to the functions you want
The compact, well-designed remote control makes operating your system a simple matter. You have fast access to all the GUI (Graphical User Interface) on-screen menus, as well as one-touch selection of four surround programs via the icon buttons.
### Digital Home Theater Receiver Comparison

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<td>130W x 7</td>
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<td>95W x 7</td>
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<td><strong>i.LINK Digital Audio Interface</strong></td>
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<td><strong>SILENT CINEMA</strong></td>
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<td><strong>Multi-Channel External Decoder Input</strong></td>
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<td><strong>Pre-Main Couplers</strong></td>
<td>2 front and 1 center</td>
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<td>(with GUI)</td>
<td>(with GUI)</td>
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<td><strong>Video (S-Video) Inputs</strong></td>
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<td>6 (6)</td>
<td>7 (7)</td>
<td>6 (6)</td>
<td>5 (5)</td>
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<td>4 (3)</td>
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<td><strong>Component Video Up Conversion</strong></td>
<td>Digital, up/down</td>
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<td><strong>Progressive Scan Processing</strong></td>
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<td><strong>Assignable Power-Amp</strong></td>
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<td>(audio only)</td>
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<td><strong>+12V Trigger Outputs</strong></td>
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<td><strong>Speaker A, B or A/B Selection (Via remote)</strong></td>
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<td><strong>Digital Inputs (Optical/Coaxial)</strong></td>
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<td>8 (5)</td>
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<td>6 (4)</td>
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<td>4 (3)</td>
<td>3 (2)</td>
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<td><strong>Front Panel Video Aux Terminals</strong></td>
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<td>With optical/S-Video</td>
<td>With optical/S-Video</td>
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<td><strong>Remote Control</strong></td>
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<tr>
<td><strong>Front Panel</strong></td>
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<td><strong>Volume Knob</strong></td>
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<tr>
<td><strong>Damping Factor (8 ohms, 20Hz–20 kHz)</strong></td>
<td>200 (front)</td>
<td>140 (front, speaker A)</td>
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<td>120 (front, speaker A)</td>
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<td>120 (front, speaker A)</td>
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<td><strong>Frequency Response</strong></td>
<td>10Hz–100kHz &lt;–1dB</td>
<td>10Hz–100kHz &lt;–1dB</td>
<td>10Hz–100kHz &lt;–1dB</td>
<td>10Hz–100kHz &lt;–1dB</td>
<td>10Hz–100kHz &lt;–1dB</td>
<td>10Hz–100kHz &lt;–1dB</td>
<td>10Hz–100kHz &lt;–1dB</td>
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<td><strong>Total Harmonic Distortion</strong></td>
<td>0.003% (800/800m)</td>
<td>0.004% (800/800m)</td>
<td>0.005% (800/800m)</td>
<td>0.006% (800/800m)</td>
<td>0.006% (800/800m)</td>
<td>0.006% (800/800m)</td>
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<td><strong>Signal-to-Noise Ratio (CD, 250 mV)</strong></td>
<td>100dB</td>
<td>100dB</td>
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<td>100dB</td>
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<td><strong>Component Video Monitor Out</strong></td>
<td>192MHz–240MHz, x2</td>
<td>192MHz–240MHz, x2</td>
<td>192MHz–240MHz, x2</td>
<td>192MHz–240MHz, x2</td>
<td>192MHz–240MHz, x2</td>
<td>192MHz–240MHz, x2</td>
<td>192MHz–240MHz, x2</td>
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<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>17” x 8” x 18”</td>
<td>17” x 8” x 18”</td>
<td>17” x 8” x 18”</td>
<td>17” x 8” x 18”</td>
<td>17” x 8” x 18”</td>
<td>17” x 8” x 18”</td>
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<tr>
<td><strong>Weight</strong></td>
<td>66.1 lbs</td>
<td>34.2 lbs</td>
<td>34.2 lbs</td>
<td>27.6 lbs</td>
<td>27.6 lbs</td>
<td>24.2 lbs</td>
<td>24.2 lbs</td>
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</table>

* Including AC-3 (LD): fixed and assignable to coaxial digital input.
## Digital Home Theater Component Surround Programs

<table>
<thead>
<tr>
<th>Compatible Decoding Formats</th>
<th>RX-Z9</th>
<th>RX-V2500</th>
<th>RX-V1500</th>
<th>RX-V757</th>
<th>RX-V657</th>
<th>RX-V557</th>
<th>RX-V457</th>
<th>RX-SL100</th>
<th>DVX-S650</th>
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<tr>
<td>Dolby Digital</td>
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<td>Dolby Digital EX</td>
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<td>THX Programs</td>
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### HiFi DSP Programs

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<tr>
<th>Hall</th>
<th>RX-Z9</th>
<th>RX-V2500</th>
<th>RX-V1500</th>
<th>RX-V757</th>
<th>RX-V657</th>
<th>RX-V557</th>
<th>RX-V457</th>
<th>RX-SL100</th>
<th>DVX-S650</th>
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<td>Munich A</td>
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<td>HA! in USA</td>
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<td>Hall H in USA</td>
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### Hall

- **Munich A**
- **Frankfurt**
- **Stuttgart**
- **Munich B**
- **Vienna**
- **Amsterdam**
- **HA! in USA**
- **Hall H in USA**
- **Live Concert**

### Church

- **Tokyo**
- **Freiburg**
- **Reynament**

### Jazz Club

- **Village Gate**
- **Village Vanguard**
- **The Bottom Line**

### Rock Concert

- **The Roxy Theatre**
- **Warehouse Left**
- **Arena**

### Classical/Opera

- **Classical/Opera**
- **Disc**
- **Part**

### Entertainment

- **9 Ch Stereo**
  - **(7/5 Ch Stereo)**
  - **(7/5 Ch Stereo)**
  - **(7 Ch Stereo)**
  - **(7 Ch Stereo)**
  - **(6 Ch Stereo)**
  - **(6 Ch Stereo)**
  - **(6 Ch Stereo)**
  - **(5 Ch Stereo)**

### HiFi DSP Subtotal

- 21
- 8
- 5
- 5
- 5
- 5
- 5
- 5
- 4

### Cinema DSP Programs

<table>
<thead>
<tr>
<th>Entertainment</th>
<th>RX-Z9</th>
<th>RX-V2500</th>
<th>RX-V1500</th>
<th>RX-V757</th>
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<th>RX-V457</th>
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### Cinema DSP Subtotal

- 12
- 9
- 9
- 9
- 9
- 9
- 9
- 8

### THX Programs

- **Cinema**
- **Ultra 2 Cinema**
- **Music**
- **ES Matrix 6.1**
- **ES Discrete 6.1**
- **Surround EX**

### THX Program Subtotal

- 6
- 2
- 2

### Programme Total

- 39
- 19
- 16
- 14
- 14
- 14
- 14
- 14

- **HiFi DSP Programs**
- **Cinema DSP**
- **Tri-Field CINEMA DSP Capable**
- **Quad-Field CINEMA DSP Capable**
- **THX Programs**
DVD Players

High quality DVD-Audio/Super Audio CD player will be the focal point of an impressive home theater system.

- Progressive Scan (NTSC/PAL)
- DVD-Audio and Super Audio CD playback
- Faroudja DCDi processing
- HDMI + HDCP compatibility: 480p, 576p, 720p, 1080i digital video out capability
- Dual LINK (IEEE1394) DVD-Audio and Super Audio CD digital audio data transfer capability
- 216MHz/12-bit video DAC • 192kHz/24-bit (DVD-Audio) and Super Audio CD compatible audio DAC • Video Off mode • RS-232C interface • MP3 (multisession and ID3Tag) playback • Picture CD and JPEG (multisession) playback
- Gold-plated terminals for all pin jacks • Aluminum front panel

The DVD-S2500 rear panel offers optical and coaxial digital audio output terminals, component video output terminals (progressive/interlace), S-Video and composite video output terminals, mixed 2-channel audio output terminals, 5.1-channel discrete audio output terminals, HDMI terminal, dual LINK (IEEE1394) terminals, RS-232C interface, remote control IR code input/output and a terminal for a detachable power cable.

Uses new video and audio technologies for superior performance and allows playback of both DVD-Audio and Super Audio CD discs.

- DVD-Audio and Super Audio CD playback • Progressive Scan (NTSC/PAL)
- CD upsampling • Audio Direct mode • Faroudja DCDi processing for smooth and natural images without staircasing or jaggies • 192kHz/24-bit audio DAC for high sound quality • 108MHz/12-bit video DAC for high picture quality • On-Screen Display with GUI (Graphical User Interface)
- DVD–Video, SVCD, VCD, JPEG (multisession), Audio CD and MP3 (multisession) playback • DVD+RW/+R*, DVD-R/-RW*, CD-R/RW*,**,**,** playback • Gold-plated terminals for all pin jacks • NTSC/PAL conversion • Aluminum front panel

The DVD-S1500 rear panel offers optical and coaxial digital audio output, component video output (progressive/interlace), S-Video and composite video output, mixed 2-channel audio output, 5.1-channel audio output terminals and a terminal for a detachable power cable.

5-disc changer featuring Yamaha’s PlayXchange, wide media compatibility and advanced technologies for top-class sound and picture quality.

- Progressive Scan (NTSC/PAL) • Faroudja DCDi processing for smooth and natural images without staircasing or jaggies • HDMI interface with indicator
- 216MHz/12-bit video DAC • DVD-Audio and Super Audio CD compatibility • 192kHz/24-bit audio DAC • CD Upsampling • Yamaha patented “PlayXchange” • On-screen display • MP3, JPEG, DivX and WMV multisession playback with navigation display • Picture CD (such as JPEG) playback • JPEG/MP3 simultaneous playback for slide show

Designed for extremely high sound and picture quality, the DVD-C750 also offers a wide range of advanced features for greater movie and music enjoyment.

- Progressive Scan (NTSC/PAL) • 108MHz/12-bit video DAC • Video picture mode • CD upsampling • DVD-Audio and Super Audio CD playback • 192kHz/24-bit audio DAC • Yamaha Patented “PlayXchange” • Versatile format and disc compatibility • On-screen display • MP3, JPEG, DivX and WMA multisession playback with navigation display • Picture CD (such as JPEG) playback • JPEG/MP3 simultaneous playback • Multiple zoom • CD Text display • NTSC/PAL conversion

The DVD-C750 rear panel offers optical and coaxial digital audio output, component video output, S-Video and composite video output, mixed 2-channel audio output and 5.1-channel audio output terminals.
Yamaha Patented PlayXchange
The DVC6760 gives you the benefits of extended playing time and direct selection from all discs. And with PlayXchange, you can change discs while the current one continues to play.

The DVD-S550 rear panel offers optical and coaxial digital audio outputs, component video output, mixed 2-channel audio output, and S-Video and composite video output terminals.

Exceptionally good image and sound quality, with wide-ranging format and disc compatibility.
- Progressive Scan (NTSC/PAL)
- 108MHz/12-bit video DAC
- DVD-Audio/Super Audio CD playback
- 192kHz/24-bit audio DAC
- DVD-Video, VCD, Audio CD, DVD+RW/+R*, DVD-R/-RW* and CD-R/RW*,**,** playback
- MP3, JPEG, DivX and WMA multisession playback with navigation display
- Picture CD (such as JPEG) playback
- JPEG/MPEG simultaneous playback
- 6-step multiple zoom
- Easy operation with GUI (Graphical User Interface)
- CD Text display
- MP3, JPEG, DivX and WMA multifunctions
- NTSC/PAL conversion

DVD Players

<table>
<thead>
<tr>
<th>DVD Players</th>
<th>DVD-S2500</th>
<th>DVD-S5000</th>
<th>DVD-C950</th>
<th>DVD-C750</th>
<th>DVC6760</th>
<th>DV-S657</th>
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<tr>
<td>Super Audio CD Playback</td>
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<tr>
<td>DVD-Audio Playback</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>MP3 Playback</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>JPEG Playback</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>DivX Playback</td>
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<td>Yes</td>
<td>Yes</td>
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<td>WMA Playback</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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<td>DVD-R DL Playback</td>
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<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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<td>Harmonic Distortion</td>
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<td>0.0035%</td>
<td>0.0035%</td>
<td>0.0035%</td>
<td>0.0035%</td>
<td>0.0035%</td>
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| Dimensions (W x H x D) | 17 1/8 x 2 1/4 x 13 1/2" | 17 1/8 x 2 1/4 x 13 1/2" | 17 1/8 x 2 1/4 x 13 1/2" | 17 1/8 x 2 1/4 x 13 1/2" | 17 1/8 x 2 1/4 x 13 1/2" | 17 1/8 x 2 1/4 x 13 1/2" | 17 1/8 x 2 1/4 x 13 1/2" | 17 1/8 x 2 1/4 x 13 1/2"
| Weight | 12.3 lbs. | 12.3 lbs. | 12.3 lbs. | 12.3 lbs. | 12.3 lbs. | 12.3 lbs. | 12.3 lbs. | 12.3 lbs. |

Non-stop home theater enjoyment from five discs loaded at once.
- Progressive Scan (NTSC/PAL)
- 108MHz/12-bit video DAC
- Video picture mode
- CD upsampling
- Super Audio CD playback
- 192kHz/24-bit audio DAC
- Yamaha Patented PlayXchange
- Versatile format and disc compatibility
- On-screen display
- MP3, JPEG, DivX and WMA multisession playback with navigation display
- Picture CD (such as JPEG) playback
- JPEG/MPEG simultaneous playback for slide show
- Multiple zoom
- CD Text display
- NTSC/PAL conversion

The DVC6760 rear panel offers optical and coaxial digital audio output, component video output, S-Video and composite video output, mixed 2-channel audio output and 5.1-channel audio output terminals.

Slim Progressive Scan DVD player with outstanding picture and sound quality, plus DVD-Audio/Super Audio CD playback.
- Progressive Scan (NTSC/PAL)
- 108MHz/12-bit video DAC
- DVD-Audio/Super Audio CD playback
- CD upsampling
- 192kHz/24-bit audio DAC
- Audio Direct
- Versatile format and disc compatibility such as VR format recorded DVD-RW (with CPRM) and DVD+R Double Layer (DL) playback
- MP3, JPEG, DivX and WMA multisession playback with navigation display
- Picture CD (such as JPEG) playback
- JPEG/MPEG simultaneous playback for slide show

The DVD-S550 rear panel offers optical and coaxial digital audio outputs, component video output, mixed 2-channel audio output, and S-Video and composite video output terminals.

Exceptionally good image and sound quality, with wide-ranging format and disc compatibility.
- Progressive Scan (NTSC/PAL)
- CD upsampling
- 108MHz/12-bit video DAC
- 192kHz/24-bit audio DAC
- DVD-Video, VCD, Audio CD, DVD+RW/+R*, DVD-R/-RW* and CD-R/RW*,**,** playback
- MP3, JPEG, DivX and WMA multisession playback with navigation display
- Picture CD (such as JPEG) playback
- JPEG/MPEG simultaneous playback
- 6-step multiple zoom
- Easy operation with GUI (Graphical User Interface)
- CD Text display
- 4 video picture modes
- Screen saver
- 3-step dimmer
- Sleep functions
- Night mode
- NTSC/PAL conversion

The DVD-S657 rear panel offers optical and coaxial digital audio outputs, component video output, mixed 2-channel audio output, and S-Video and composite video output terminals.
The EF (Elliptical Form) Series feature Waveguide horns, PMD cone woofers and highest quality internal Monster Cable wiring for total enjoyment of digital movie sound and music sources, plus elegant Yamaha traditional piano finish cabinets.

### 225 PMD Series Home Theater Speaker Systems

These slim, high-performance speaker systems are exactly what today’s home theater enthusiasts are looking for. Their luxurious open pore finish is matched by powerful, accurate sound reproduction from PMD cone woofers and aluminum-magnesium dome tweeters with DC-Diaphram™ (integrated diaphragm and voice coil).

### 125 Series Home Theater Speaker Systems

The 125 Series sports thin styling to match flat TVs and plasma displays. Excellent sound quality is assured through the use of dual 3¼” white cone woofers and a 7/8” balanced dome tweeter, along with twin bass reflex ports in the tower speakers.
Yamaha subwoofers use sophisticated technologies such as QD-Bass (Quatre Dispersion Bass, downward-firing drivers that radiate the sound in four directions) and Advanced YST (Yamaha Active Servo Technology) to ensure the highest levels of sound pressure and overall performance.

To meet varied system requirements, Yamaha has developed a variety of speakers from 3-way type to all weather speakers. They are available singly and in convenient packages. Your Yamaha dealer can recommend the ideal speakers to bring out the full potential of your home theater system.
Digital Home Theater Packages Sensational movie sound as only Yamaha can deliver it.

You’ll be amazed at how much more fun watching movies is with realistic and dynamic surround sound. Yamaha receivers feature the CINEMA DSP system for perfectly realized theater sound. The subwoofers use QD-Bass technology and the Advanced YST system for extra bass power. The speakers are extremely high quality AND conveniently compact. Best of all, the receivers and speakers are “fine-tuned” to sound their best together.
Yamaha’s first HTIB series designed exclusively for the Home Theater lovers!

An increasing number of home theater lovers want the look, features and performance of separate components, but simply don’t have the interest, time or expertise to select the proper equipment. Yamaha has the Home Theater solutions for this growing consumer segment. Easy to set up and easy to use, Yamaha HTIB’s offer ideal choices for you that demand easy to buy, yet high performance Home Theater systems.

**DTX-5000** Digital Home Theater 6.1-Channel Package
- DVD-Audio/Super Audio CD Playback
- DCDi Progressive Scan with 3:2 Pull-Down
- 6.1ch Powerful Surround Sound (105W x 6)
- DTS 96/24, Dolby Digital EX, Dolby Pro Logic IIx
- S-Video Up Conversion
- Front AV Input
- Flat Designed Speaker System to Match Plasma Monitors
- Quad 4” Woofers and 1” Tweeter — 3-Way Speaker System
- Aluminum Extruded Front Speaker Stand Included

**DTX-3000** Digital Home Theater 6.1-Channel Package
- 5-Disc Progressive Scan DVD Changer
- 6.1ch Powerful Surround Sound (100W x 6)
- DTS 96/24, Dolby Digital EX, Dolby Pro Logic IIx
- Component Video Input
- Adjustable Subwoofer Crossover
- Front AV Input
- Direct Stereo
- 2.5” Dual Woofers and 1/2” Tweeter for All Channels
- Floor Standing Speaker System for All Channels (except center speaker)

**DTX-1000** Digital Home Theater 6.1-Channel Package
- Progressive Scan Single DVD Player
- 6.1ch Powerful Surround Sound (100W x 6)
- DTS 96/24, Dolby Digital EX, Dolby Pro Logic IIx
- Component Video Input
- Direct Stereo
- Adjustable Subwoofer Crossover
- 2-Way Speaker System with Removable Grille
- Silver Glossy Finish Cabinet
<table>
<thead>
<tr>
<th>Model</th>
<th>Channels</th>
<th>RMS Output Power</th>
<th>Yamaha Original Digital Amplification</th>
<th>S-Video Inputs</th>
<th>Digital Inputs (Optical / Coaxial)</th>
<th>Speaker A/B, or A+B Selection</th>
<th>Front Panel A/V Input</th>
<th>Component Video Up Conversion</th>
<th>Surround Program</th>
<th>Digital Home Theater Receivers</th>
<th>DVD Players</th>
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<td>DTX-5000</td>
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<td>105W x 6</td>
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<td>Speaker A or B, Speaker A or B</td>
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<td>DTX-1000</td>
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<td>100W x 6</td>
<td>6.1</td>
<td>2</td>
<td>3/4&quot; Soft Dome, 12&quot; Dome, 12&quot; Dome</td>
<td>Speaker A or B, Speaker A or B</td>
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<td>14</td>
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<td>YHT-F1500</td>
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<td>Speaker A or B, Speaker A or B</td>
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<td>YHT-760</td>
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<td>Speaker A or B, Speaker A or B</td>
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<td>YHT-560</td>
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<td>Speaker A or B, Speaker A or B</td>
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<td>YHT-360</td>
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<td>5.1</td>
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<td>Speaker A or B, Speaker A or B</td>
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<td>YHT-160</td>
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<td>Speaker A or B, Speaker A or B</td>
<td>2</td>
<td>2</td>
<td>14</td>
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</tr>
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</table>

### Digital Home Theater Receivers

- **Product Color**: Black/Black, Silver/Silver, Black/Black, Silver/Silver, Black/Black
- **Channels**: 7, 6, 5, 5
- **RMS Power (8 ohms, 1 kHz, 0.7% THD)**: 140W x 7, 110W x 6, 105W x 6, 120W x 5
- **Digital ToP-ART**: Yes
- **High Current Amplification**: Yes
- **Dolby Digital EX/DTS-ES Full Decode**: Yes
- **Dolby Pro Logic IIx**: Yes
- **DTS Neo:6**: Yes
- **DTS 96/24**: Yes
- **D/A Converters**: 192kHz/24-bit
- **Selectible Subwoofer Crossover**: 9-step
- **Subwoofer Phase Select**: Yes
- **Audio Delay**: [0–240 ms]
- **SILENT CINEMA**: Yes
- **Night Listening Enhancer**: Yes
- **Speaker Terminals**: 9ch
- **Dialogue Lift**: Yes
- **Multi-Channel External Decoder Input**: 6ch
- **Preout Terminals**: 7 (2F/C/2S/2SB)
- **Component Video Up Conversion**: Yes
- **Dimensions (W x H x D)**: 17 1/8" x 23/16" x 12 3/8", 17 1/8" x 49/16" x 16 3/4", 17 1/8" x 215/16" x 11 7/8", 17 1/8" x 215/16" x 16 3/4", 17 1/8" x 2" x 12 3/16"
- **Weight**: 7.1 lbs, 13.2 lbs, 6.2 lbs, 12.1 lbs, 5.7 lbs

### DVD Players

- **Super Audio CD Playback**: Yes
- **Dolby Digital/DTS**: Yes
- **JPEG Playback**: Yes
- **WMA Playback**: Yes
- **Progressive Scan**: Yes
- **CD Upsampling**: Yes
- **Video D/A Converter**: 108 MHz/12-bit
- **Audio D/A Converter**: 192 kHz/24-bit
- **Signal-to-Noise Ratio (CD)**: 95 dB
- **Dynamic Range (DVD 48 kHz, 24 Bit)**: 90 dB
- **Harmonic Distortion + Noise (1 kHz)**: 0.0017%
Interactive Home Music Network System

Give Everyone in the Family Instant Access to Their Favorite Music in Their Own Room — or Anywhere Else in the House!

Finally! A multi-room home entertainment system that you can easily set up yourself. MusicCAST will store your entire family’s favorite music on a high-capacity hard disk and let each person select and listen to their own music in any of eight different locations.

In addition to the normal portable Clients, MusicCAST is now also available with In-Wall Clients for custom installation. With outstanding convenience and new features, this system takes family music enjoyment to a whole new level.

The MusicCAST server stores and broadcasts music content wirelessly to any location within your home.

MCX-1000 Digital Audio Server
- Dimensions (W x H x D): 17-1/8" x 5-3/8" x 17-1/16"
- Weight: 25.3 lbs.

MCX-A10 Digital Audio Terminal
- Dimensions (W x H x D): 8-1/4" x 9-5/8" x 3-1/8"
- Weight: 4.4 lbs.

MCX-SP10 Optional Speaker System
- Dimensions (W x H x D): 8-1/4" x 8-1/4" x 3-1/8"
- Weight: 2.6 lbs.
In-wall mountable,
network ready
Clients add
versatility to the
MusicCAST system with
great new features such as
Favorite Function buttons,
IR Flasher Support and
Yamaha AV Link.

This multipurpose in-
wall amplifier is
perfectly matched to
the MCX-C15 Client. It
provides high quality
power to speakers, as
well as subwoofer and
video OSD outputs.

Wireless, Multi-Room, Multi-Selectable Music Library.

- Simply wireless: You can enjoy and control music in
  as many as eight locations: one Server and seven Clients
  (wireless plus wired).
- Store 1000 hours of music: A huge amount of
  music is at your fingertips. The hard disk stores up to
  1,000 hours of music in MP3 format.
- User friendly: Operating the system is easy for
  everyone in the family. The Server has a GUI (graphical
  user interface) with on-screen menus and the Clients
  have large panel displays.
- Multiple sources: You can also enjoy music, etc.
  from other connected sources, such as digital radio, FM,
  LP or tape.
- Create your own CDs: You can even make your
  own CDs from playlists composed of songs you have
  selected, by using the built-in CD recorder. For extra-
  high sound quality, record CDs with the Advanced
  Audio Master Quality Recording function.
- Use your amplifier / receiver: You can control your
  Yamaha AV amplifier / receiver by connecting it via the
  RS-232C port to certain Yamaha amplifier/receivers.
- Instant music information: The built-in Gracenote
  CDDB® Music Recognition ServiceSM features full on-
  screen display of information, such as artist, album,
  and track names along with music genre. The latest
  information is available via internet access.
- In-wall installation: Great control within
  reach, yet out of the way...bring home the
  convenience of this intelligently integrated in-wall
  mountable MusicCAST Client into your living
  environment. With variety of installation
  configuration available, now every room is fully
  customizable to enjoy the benefits the MusicCAST
  music distribution system can provide.
- Favorites selection: The four Favorites buttons
  allow direct playback of various sources. Each can
  be assigned the following functions: playlist,
  analog or digital inputs from Server, tuner presets,
  local Aux input from MCX-CA15. Favorite
  selections can be made even when the MCX-C15
  is in sleep mode.
- IR flasher support: The MCX-C15 supports
  limited IR transmission functions for custom
  installation. IR signals from the MCX-C15 can be
  transmitted to the MCX-CA15 or the I/O Box, and
  can drive an IR flasher for remote control of other
  components. The function works on only 38kHz
  modulation frequency.
  * IR fluster units are not available from Yamaha.
- Yamaha AV link: The MCX-C15 can generate
  extended IR commands to control a Yamaha AV
  amplifier / receiver, if more power than the
  MCX-CA15 is desired. The following functions can
  be controlled via the MCX-C15 remote control:
  volume, input selection, tuner preset selection,
  sleep and standby modes.

New MusicCAST Client System, MCX-C15 and MCX-CA15,
Offers New Features and Enhanced Flexibility.

- Dimensions (W x H x D): 4-3/4" x 4-3/4" x 4-3/16"

This multipurpose in-
wall amplifier is
perfectly matched to
the MCX-C15 Client. It
provides high quality
power to speakers, as
well as subwoofer and
video OSD outputs.
PianoCraft: Natural Sound Enjoyment from a High Performance, Elegant System.

A lot of fine craftsmanship goes into Yamaha's world-renowned pianos, and that same dedication to sound and design excellence is behind the creation of the award-winning PianoCraft series. You have a choice of compact, high quality systems, each of which includes two speakers and the capability of adding a subwoofer.

The PianoCraft E100 System won the EISA award for Best Compact System 2000-2001. The prestigious EISA awards are chosen by media representatives from 19 European countries.

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**PianoCraft Option (Not available in some areas)**

**KX-E300 Auto-Reverse Cassette Deck**
- Auto reverse
- Music search
- 4-digit tape counter
- 12-segment peak level meter

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**MCR-E600 Micro Component System**

- RX-E600 Receiver
  - High power output: 40 W x 2 (RMS)
  - Linear Damping • High dynamic power, low-impedance drive capability
  - Discrete configuration amplifier
  - Subwoofer out • Tone controls
  - Versatile timer functions • 40-station preset tuning
    - 6½" x 11½ x 8¾ (W x H x D); 9.5 lbs/unit

- DVD-E600 CD/DVD Player
  - Progressive Scan processing (NTSC/PAL)
  - 54MHz/12-bit video DAC
  - Picture CD playback • MP3 navigation display
    - 8¾" x 4¼" x 13⅛ (W x H x D); 7.7 lbs.

- NX-E400
  - 2-Way Bass-Reflex Speaker System
    - 110W maximum input power
    - High gloss piano finish
    - 6½" x 11½ x 8¾ (W x H x D); 9.5 lbs/unit

---

**MCR-E300 Micro Component System**

- CRX-E300 CD Receiver
  - High power output: 25 W x 2 (RMS)
  - Linear Damping • High dynamic power, low-impedance drive capability
  - Discrete configuration amplifier
  - Subwoofer out • Tone controls
  - Versatile timer functions • 40-station preset tuning
  - CD Text display • CD-R/CD-RW playback • Copy time control • Optical digital out
    - 8¾" x 6½" x 13¾ (W x H x D); 11 lbs.

- NX-E300
  - 2-Way Bass-Reflex Speaker System
    - 110W maximum input power
    - High gloss piano finish
    - 6½" x 10" x 7¾ (W x H x D); 7.5 lbs/unit
### Audio Components

**MX-D1**
- **Stereo Digital Power Amplifier**
  - Auto-Reverse Double Cassette Deck
  - Gold-plated input terminals (all terminals)

**RX-777**
- **AM/FM Stereo Receiver**
  - Top-ART
  - CD Direct Amplification with Switch
  - DVD-Audio/SA-CD ready
  - Gold-plated input terminals (all terminals)

**RX-596**
- **AM/FM Stereo Receiver**
  - Top-ART
  - CD Direct Amplification with Switch
  - DVD-Audio/SA-CD ready
  - Remote controllable motor-driven input selector and volume control

**RX-496**
- **AM/FM Stereo Receiver**
  - Pure Direct switch
  - 5 audio inputs
  - 40-station random access preset tuning

**RX-396**
- **AM/FM Stereo Receiver**
  - 3 audio inputs with tape monitor position
  - I/O port for custom installation
  - 40-station random access preset tuning

**CDC-685**
- **CD Changer**
  - Yamaha patented PlayXchange
  - CD-RCD-RW playback compatibility
  - CD Text display • I/O port for custom installation

**CDC-585**
- **CD Changer**
  - Yamaha patented PlayXchange
  - CD-R/CD-RW playback compatibility
  - CD Text display • Peak search and tape edit

**KX-W321**
- **Auto-Reverse Double Cassette Deck**
  - Two (normal/high) speed dubbing
  - Relay play • Dolby B/C/NR
  - Auto tape type selection

**MX-D1 Main Specifications**
- **AUDIO SECTION**
  - Min. RMS Power (8/8/4 ohms; 1 kHz, 10% THD): 500 W + 500 W
  - Dynamic Power (channel 1: 450 W/8 ohms; 1 kHz, 10% THD; channel 2: 275 W/8 ohms; 1 kHz, 10% THD)
  - Frequency Response: 20 Hz-20 kHz ±0.5 dB
  - Harmonic Distortion: 0.003%

**CDC-585**
- **CD Changer**
  - Yamaha patented PlayXchange
  - CD-R/CD-RW playback compatibility
  - CD Text display • I/O port for custom installation

**CD Text display • Peak search and tape edit**

**RX-777**
- **AM/FM Stereo Receiver**
  - Top-ART
  - CD Direct Amplification with Switch
  - DVD-Audio/SA-CD ready
  - Gold-plated input terminals (all terminals)

**AX-596**
- **Integrated Amplifier**
  - Top-ART
  - CD Direct Amplification with Switch
  - DVD-Audio/SA-CD ready
  - Gold-plated input terminals (all terminals)

**MX-D1**
- **Stereo Digital Power Amplifier**
  - Auto-Reverse Double Cassette Deck
  - Two (normal/high) speed dubbing
  - Relay play • Dolby B/C/NR
  - Auto tape type selection

**CDC-685**
- **CD Changer**
  - Yamaha patented PlayXchange
  - CD-RCD-RW playback compatibility
  - CD Text display • I/O port for custom installation

**KX-W321**
- **Auto-Reverse Double Cassette Deck**
  - Two (normal/high) speed dubbing
  - Relay play • Dolby B/C/NR
  - Auto tape type selection

**AX-596**
- **Integrated Amplifier**
  - Top-ART
  - CD Direct Amplification with Switch
  - DVD-Audio/SA-CD ready
  - Gold-plated input terminals (all terminals)

**CD Changes**
- **CDC-685**
  - Yamaha Patented PlayXchange
  - 5-disc
  - Playback
  - Yes
  - Yes
  - Yes
  - 0.003%
  - 0.003%
  - 106 dB
  - 106 dB
  - 13.7 lbs.

- **CDC-585**
  - Yamaha Patented PlayXchange
  - 5-disc
  - Playback
  - Yes
  - Yes
  - Yes
  - 0.003%
  - 0.003%
  - 106 dB
  - 106 dB
  - 12.7 lbs.
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<th>Recommendation</th>
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<tr>
<td>DPX-1100</td>
<td>Germany</td>
<td>AudioVision</td>
<td>Sept. '04</td>
<td>audiovision Highlight</td>
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<tr>
<td>DPX-1100</td>
<td>UK</td>
<td>What Hi-Fi? Sound &amp; Vision</td>
<td>Nov. '04</td>
<td>★★★★★ (in a group test)</td>
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<tr>
<td>DPX-1100</td>
<td>Australia</td>
<td>Sound &amp; Image</td>
<td>'04</td>
<td>Projector Winner</td>
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<td>DPX-1000</td>
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<td>03/04</td>
<td>European High-End AV Product 2003–2004</td>
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<td>DPX-1000</td>
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<td>Son Video</td>
<td>Jul/Aug. '03</td>
<td>★★★★★</td>
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<td>DPX-500</td>
<td>U.S.</td>
<td>E-Gear</td>
<td>'03</td>
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<td>DPX-500</td>
<td>Brazil</td>
<td>HOME THEATER</td>
<td>'04</td>
<td>Best LCD Projector Award</td>
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<td>PMD-4210</td>
<td>Australia</td>
<td>Audio &amp; Video Lifestyle Magazine</td>
<td>'05</td>
<td>2005 Best Buy Awards, Best Plasma Screen.</td>
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**AV Receivers / Amplifiers**

<table>
<thead>
<tr>
<th>Product</th>
<th>Area</th>
<th>Publication</th>
<th>Issue</th>
<th>Recommendation</th>
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<tr>
<td>DSP-2ZP</td>
<td>Europe</td>
<td>EISA</td>
<td>04/05</td>
<td>European Home Theater High-End AV Component 2004-2005</td>
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<tr>
<td>RX-29</td>
<td>Australia</td>
<td>Audio &amp; Video Lifestyle Magazine</td>
<td>'05</td>
<td>2005 Best Buy Awards, Best Home Theater Receiver over A$2,000—3,999</td>
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<td>RX-29</td>
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<td>Sound &amp; Vision</td>
<td>'04</td>
<td>The Winner of Annual Reviewer's Choice Awards</td>
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<td>RX-29</td>
<td>Australia</td>
<td>Sound &amp; Image</td>
<td>'04</td>
<td>Winner: AV Amplifier/Receiver over A$4,000</td>
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<tr>
<td>DSP-Z9</td>
<td>Taiwan</td>
<td>PRIME AV</td>
<td>Jan. '05</td>
<td>Best Performance in 2005</td>
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<td>RX-22500</td>
<td>Germany</td>
<td>Internet Magazine audiodvd</td>
<td>Jan. '05</td>
<td>★★★★★</td>
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<td>Norway</td>
<td>DVD &amp; Hjemmekino</td>
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<td>Complettly Control</td>
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<td>RX-V1500</td>
<td>UK</td>
<td>What Hi-Fi? Sound and Vision</td>
<td>Dec. '04</td>
<td>★★★★★ (in a group test)</td>
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<td>RX-V2500</td>
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<td>Best Value</td>
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<td>Hometheater</td>
<td>Feb. '05</td>
<td>Best Value</td>
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<td>RX-V450</td>
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<td>What Hi-Fi? Sound and Vision</td>
<td>Dec. '04</td>
<td>★★★★★ (in a group test)</td>
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<td>RX-V1500</td>
<td>Switzerland</td>
<td>VSATON</td>
<td>Dec. '04</td>
<td>★★★★★</td>
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**Digital Sound Projectors**

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<th>Product</th>
<th>Area</th>
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<th>Issue</th>
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<tr>
<td>YSP-1</td>
<td>Germany</td>
<td>stereoAV</td>
<td>Mar. '05</td>
<td>HIGHLIGHT</td>
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<td>YSP-1</td>
<td>Germany</td>
<td>AUDIO</td>
<td>Mar. '05</td>
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<td>DVD-51500</td>
<td>Germany</td>
<td>Audio</td>
<td>Mar. '05</td>
<td>TEST WINNER</td>
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<td>DVD-51500</td>
<td>Sweden</td>
<td>HiFi Musik</td>
<td>Feb. '05</td>
<td>Pure, Elegant Sound</td>
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<td>DVD-5550</td>
<td>Sweden</td>
<td>Hjemmabo</td>
<td>Nov. '04</td>
<td>TEST WINNER</td>
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<td>DVD-5550</td>
<td>Norway</td>
<td>Lyd&amp;Bilde</td>
<td>Nov '04</td>
<td>Superb Player</td>
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<td>Subwoofers</td>
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<td>YST-SW1500</td>
<td>Germany</td>
<td>Hifimark</td>
<td>Aug. '03</td>
<td>Very Good</td>
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<td>YST-SW1500/1500</td>
<td>UK</td>
<td>What Hi-Fi? Sound &amp; Vision</td>
<td>Aug. '03</td>
<td>Recommended Model: Deep Bass</td>
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**Amplifiers**

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<tr>
<th>Product</th>
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<td>MX-101</td>
<td>Germany</td>
<td>stereo</td>
<td>May '05</td>
<td>★★★★★ Excellent</td>
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*The DSP-2Z provides the same performance and features as the RX-29 except for tuner functions.*

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