Extraordinary Performance and Capabilities

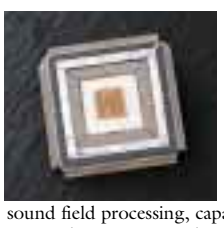
● *The RX-V3000 is also offered with gold finish.*

RX-V3000 Digital Home Theater Receiver

If it wasn't for the RX-V1, the RX-V3000 could very well be described as the world's finest home theater receiver. It outputs a virtually distortion-free (0.02% THD) 100W of power to the main, center, rear effect and rear center channels, plus 25W to the front effect channels. And to ensure maximum enjoyment of every program source, it offers a broad selection of 49 HiFi DSP and CINEMA DSP programs that use acoustic data from actual performance venues. The Digital ToP-ART design concept ensures that audio quality is maximized.

High Quality DACs

The RX-V3000's main and center channels use PCM1704 DACs manufactured by the high-end audio expert, Burr-Brown. This is a high-precision 96kHz/24-bit BiCMOS Sign-Magnitude DAC with ultra-low distortion of 0.0008% and S/N ratio of 120dB. It offers superior low level linearity, with excellent full-scale performance under varying operating conditions. It realizes the full potential of Dolby Digital and DTS sound and is also ideal for two-channel stereo, providing outstanding separation and accurate musical delineation. An additional advantage is its 96kHz/24-bit decoding capability, making it compatible with the latest (and future) digital audio sources. Knowledgeable consumers will be looking for this feature. The RX-V3000's other channels also use high quality 96kHz/24-bit DACs.



Yamaha's Exclusive YSS-928 32-Bit Floating Point Quantization LSI
This powerful LSI performs 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.

High Performance Power Transistors

Superior power transistors enable the RX-V3000 to achieve a wide bandwidth with frequency response extending to 100kHz, within a 3dB tolerance. Although human hearing only extends to about 20kHz, the harmonics of certain frequencies go much higher, and it is important that these harmonics be reproduced along with the fundamental frequencies we hear. By reproducing the high harmonics, the wide bandwidth transistors enhance overall tonality and musicality. It also means that the RX-V3000 is ready for the next generation of digital audio products such as wider range DVD-Audio.

High Performance Power Transformer

Finest Parts Used Throughout: High-fT Power Transistors, Thick PC Board Wiring with 1.6mmf Copper Jumper Cables, etc.

Tri-Field and Quad-Field CINEMA DSP

Tri-Field CINEMA DSP projects three sound fields into the home theater: a Presence sound

for Maximum Home Theater Enjoyment.

field in the front and two Surround sound fields in the left rear and right rear, resulting in a powerfully realistic three-dimensional soundscape. And now Yamaha also offers Quad-Field CINEMA DSP. It adds an additional rear center sound field to the Tri-Field system, in order to enjoy the new 6.1-channel formats, Dolby Digital Surround EX and DTS-ES.

SILENT CINEMA and Virtual CINEMA DSP

The SILENT CINEMA mode gives you private listening enjoyment of multi-channel music or movie sound, including Dolby Digital and DTS surround, through ordinary headphones. It's automatically selected when the headphones are plugged in. Virtual CINEMA DSP lets you enjoy the effects of CINEMA DSP surround sound without using rear speakers (handy for use in custom installations where some rooms don't have rear speakers). It can be used with the main/center/front effect speakers or even with just the two main left and right speakers.

Custom Installation Compatibility

As befits a high performance home cinema amplifier, the RX-V3000 is ideal for use in custom installations. It is equipped with an RS-232C interface that allows two-way communication between the amplifier and a touch-pad controller.

Oil-Damped Hidden Control Panel includes S-Video input and optical digital input terminal for connectiong game machine, digital equipment, and so on.

It provides interactive control functions that are more versatile than that of an ordinary remote control, and has Zone 2 output that enables multi-room control capability.

Versatile Digital Input/Output and Custom Installation Capability

There are six optical and two coaxial inputs, two optical outputs (fixed and assignable, except Optical Aux input) and two component video inputs (assignable), including a front panel optical input for games and portable DVD players.

Direct-Access Remote Control Unit Is Easy to Understand and Operate

A powerful remote control puts you in complete command of the RX-V3000's many functions — and those of other components as well. It has extensive learning capability and comes pre-encoded for use with many TV brands. In multi-room systems, a Zone 2 mode allows it to be operated as a room 2 controller.

Other Notable Features

- Digitally Regulated Volume Control for All Channels
- Processor Direct Switching
- Auto Surround Decoder and Auto Priority Input Terminal Selection
- Custom Installation Compatibility with RS-232C Interface
- 6-Channel External Decoder Input Terminals for Future Sound Formats
- Speaker Test Mode
- On-Screen Display
- Convenient "Set Menu"
- Rec Out Selector
- High Dynamic Power, Low Impedance Drive Capability
- Linear Damping
- Bass Extension
- Sleep Timer
- 40-Station AM/FM Random Access Preset Tuning
- Auto Preset Tuning

RX-V3000 Extensive System Connections
In addition to six-channel external decoder input terminals, there are pre-main coupler, center, rear effect, rear center and front effect pre out terminals, and subwoofer output terminals (mono x 2) with low pass filters, zone 2 out and RS-232C terminal for custom installation, and speaker impedance selector. All speaker terminals are 2-way binding-post type (banana-plug compatible). The inlet-type power cable is separate, rather than attached to the unit. It is a thicker type than usual, for higher power handling capacity.

RX-V3000 Inputs and Outputs

	Analog		Digital				Video					
			Coaxial		Optical		Composite		S Video		Component Video	
	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
PHONO	■		▪		▪							
CD	■		■		■	▪						
CD-R	■	■	▪		■	■						
MD/TAPE	■	■	▪		▪	▪						
DVD	■		▪		■	▪	■		■		■	
D-TV/LD	■		▪		■	▪	■		■		■	
CABLE	■		■		▪	■	■		■		▪	
SAT	■		▪		■	▪	■		■		▪	
VCR 1	■	■	▪		▪	▪	■	■	■	■	▪	
VCR 2/DVR	■	■	▪		▪	▪	■	■	■	■	▪	
VIDEO AUX	■		▪		■	▪	■		■		▪	
MONITOR OUT								■		■		■*
ZONE 2 OUT		■						■				

Fixed and Assignable Terminals
Only Yamaha offers terminals that can be either independently assigned to channels or defaulted to fixed settings (Changable in Set Menu).
■: Fixed Terminals
▪: Assignable Terminals

■* **Component Video Out is compatible with HDTV.**

Digital Home Theater Receiver Specifications

		RX-V1	RX-V3000	RX-V1000	RX-V800
Sound Field Processing Section					
Channels		8 channels	8 channels	5 channels	5 channels
Surround Programs		54 programs	49 programs	41 programs	39 programs
Quad-Field CINEMA DSP Programs		8 programs	8 programs	8 programs	8 programs
Tri-Field CINEMA DSP Programs		15 programs	14 programs	12 programs	12 programs
96 kHz/24-Bit DAC		■ (Burr Brown x 10)	■ (Burr Brown for L/C/R)	■	■
Dolby Digital and DTS Digital Surround		■	■	■	■
Dolby Pro-Logic		■	■	■	■
Rear Center Channel Decoder		■	■	■ (preout, phantom)	■ (phantom)
SILENT CINEMA		■	■	■	■
Virtual CINEMA DSP		■	■	■	■
Processor Direct Switch		■	■	■	■
On-Screen Display		■	■	■	
Speaker Test Mode		■	■	■	■
6-Channel External Decoder Input		■	■	■	■
Auto Surround Decoder Selection		■	■	■	■
Auto Priority Input Terminal Selection		■	■	■	■
Convenient "Set Menu"		■	■	■	■
Audio Section					
Minimum RMS Output Power (8 ohms)					
Main Ch (20–20,000 Hz)	[THD]	110 W + 110 W [0.015%]	100 W + 100 W [0.02%]	100 W + 100 W [0.04%]	100 W + 100 W
Center Ch (20–20,000 Hz)	[THD]	110 W [0.015%]	100 W [0.02%]	100 W [0.04%]	100 W
Rear Effect Ch (20–20,000 Hz)	[THD]	110 W + 110 W [0.015%]	100 W + 100 W [0.02%]	100 W + 100 W [0.04%]	100 W + 100 W
Rear Center Ch (20–20,000 Hz)	[THD]	110 W [0.015%]			
Front Effect Ch (1 kHz)	[THD]	35 W + 35 W [0.05%]	25 W + 25 W [0.05%]		
Minimum RMS Output Power (8 ohms, 1 kHz)					
Main Ch	[THD]				105 W + 105 W
Center Ch	[THD]				105 W
Rear Effect Ch	[THD]				105 W + 105 W
High Dynamic Power & Low Impedance Drive Capability		■	■	■	■
Dynamic Power/Ch (Main Ch, 8/6/4/2 ohms)		150/180/240/340 W	140/170/220/320 W	135/170/205/245 W	135/170/205/245 W
Linear Damping Circuit		■	■	■	■
Damping Factor (8 ohms, 20–20,000 Hz, Speaker A)		200 (main/center)	200 (main)	80 (main)	80 (main)
Input Sensitivity/Impedance	CD	150 mV/47 k ohms	150 mV/47 k ohms	150 mV/47 k ohms	150 mV/47 k ohms
	Phono	2.5 mV/47 k ohms	2.5 mV/47 k ohms	2.5 mV/47 k ohms	2.5 mV/47 k ohms
	Main In	1 V/47 k-ohms	1 V/47 k-ohms		
Frequency Response (CD)		10–100,000 Hz +0, -3 dB	10–100,000 Hz +0, -3 dB	10–100,000 Hz +0, -3 dB	10–100,000 Hz +0, -3 dB
Total Harmonic Distortion (20–20,000 Hz)					
CD (Main Speaker Out)		0.005% (55 W/8 ohms)	0.015% (50 W/8 ohms)	0.04% (50 W/8 ohms)	0.04% (50 W/8 ohms)
Phono (Rec Out)		0.01% (1 V)	0.01% (3 V)	0.02% (1 V)	0.02% (1 V)
Signal-to-Noise Ratio (IHF-A-Network)					
CD (Input Shorted, Effect Off, 250 mV)		100 dB	100 dB	100 dB	100 dB
Phono (5 mV, Input Shorted, Effect Off)		86 dB	86 dB	86 dB	86 dB
Multiple A/V Inputs	Digital	7 optical, 3 coaxial & RF (AC-3)	6 optical & 2 coaxial (fixed and assignable)	4 optical & 2 coaxial (fixed and assignable)	4 optical & 2 coaxial
	Analog	8 A/V with S-video & 4 audio	7 A/V with S-video & 4 audio	6 A/V with S-video & 4 audio	6 A/V with S-video & 4 audio
	Component Video	3 (fixed and assignable)	2 (fixed and assignable)	2 (fixed and assignable)	2 (fixed and assignable)
Digital Output Terminals (Optical)		■ 1 (MD)	■ 2 (CD-R & CABLE) (fixed and assignable)	■ 2 (CD-R & CBL/SAT) (fixed and assignable)	■ 2 (CD-R & CBL/SAT) (fixed and assignable)
Front Panel Aux Input Terminals		(with S-video)	(with optical digital & S-video)	(with optical digital & S-video)	(with optical digital & S-video)
Preout Terminals		Pre-main and center couplers, rear effect, rear center and front effect	Pre-main coupler, center and rear effect, rear center and front effect	Pre-main coupler, center and rear effect and rear center	Main, center and r
Subwoofer Terminals		■ Mono and split	■ Mono x 2	■	■
A/V Rec Out Selector		■	■	■	
Bass Extension		■	■	■	■
Sleep Timer		■	■	■	■
Video Section					
Video Signal Level		1 Vp-p/75 ohms	1 Vp-p/75 ohms	1 Vp-p/75 ohms	1 Vp-p/75 ohms
S-Video Signal Level (Y; C)		1 Vp-p/75 ohms; 0.286 Vp-p	1 Vp-p/75 ohms; 0.286 Vp-p	1 Vp-p/75 ohms; 0.286 Vp-p	1 Vp-p/75 ohms; 0.286 Vp-p
Monitor Out Frequency Response (Component Video)		DC–100 MHz –3 dB	DC–30 MHz –3 dB	DC–30 MHz –3 dB	DC–30 MHz –3 dB
Video Signal-to-Noise Ratio		50 dB	50 dB	50 dB	50 dB
Tuner Section					
40-Station AM/FM Random Access Preset Tuning		■	■	■	■
FM 50 dB Quieting Sensitivity	Mono	1.6 µV (15.3 dBf)	2 µV (17.3 dBf)	2 µV (17.3 dBf)	2 µV (17.3 dBf)
(IHF, 75 ohms)	Stereo	23 µV (38.5 dBf)	25 µV (39.2 dBf)	25 µV (39.2 dBf)	25 µV (39.2 dBf)
FM Alternate Channel Selectivity (IHF)		75 dB	70 dB	70 dB	70 dB
FM Signal-to-Noise Ratio (Mono/Stereo)		81 dB/75 dB	76 dB/70 dB	76 dB/70 dB	76 dB/70 dB
General					
Custom Installation Capability		■	■	■	■ (audio signal only)
RS-232C Interface		■	■	■	
Banana Plug Compatible Speaker Terminals		All terminals	All terminals	All terminals	All terminals
Remote Control Unit		Direct-access	Direct-access	Direct-access	Learning-capable & pr
Dimensions	Width	471 mm; $18^{9}/_{16}$"	449 mm; $17^{11}/_{16}$"	435 mm; $17^{1}/_{8}$"	435 mm; $17^{1}/_{8}$"
	Height	211 mm; $8^{5}/_{16}$"	191 mm; $7^{1}/_{2}$"	171 mm; $6^{3}/_{4}$"	171 mm; $6^{3}/_{4}$"
	Depth	473 mm; $18^{5}/_{8}$"	468 mm; $18^{9}/_{16}$"	432 mm; 17"	432 mm; 17"
Weight		28 kg; 61 lbs. 11 oz.	22 kg; 48 lbs. 8 oz.	15 kg; 33 lbs. 1 oz.	15 kg; 33 lbs. 1 oz.