

RX-V520RDS

Digital Home Cinema Receiver

Tri-Field CINEMA DSP, DTS Digital Surround, Dolby Digital, Equal Power for All Five Channels, Versatile Connections including Front Panel Optical Digital Out. At a High-Demand Price Point, This is a Focal Product in the Yamaha Home Cinema Line.



Gold and Titanium finish available in some areas.

RX-V420RDS

Digital Home Cinema Receiver

Tri-Field CINEMA DSP, DTS Digital Surround, Dolby Digital, Equal Power for All Five Channels, and Preset Remote Unit. Powerful and Versatile Control Centre for Yamaha "Home Theater in a Box."



Gold and Titanium finish available in some areas.

New Product Information

RX-V520RDS Digital Home Cinema Receiver



- **New 32-Bit Original LSI (YSS-928) for High Precision Decoding and CINEMA DSP Processing**
- **26 Surround Programmes with 17 CINEMA DSP and 6 HiFi DSP Programmes**
- **SILENT CINEMA for Headphone Enjoyment**
- **Virtual CINEMA DSP for Versatile Surround Enjoyment**
- **6-Channel External Decoder Input Terminals**
- **Equal Output Power for Five Channels**
- **Versatile Digital Input/Output Capability**
- **Preset Remote Control Unit**

Advanced Yamaha Digital Technology including CINEMA DSP Compatible with All Movie Audio Formats

- Yamaha Original 32-Bit LSI (YSS-928) Incorporates Dolby Digital, DTS and Dolby Pro-Logic Decoders Plus DSP Processing Circuits

- 26 Surround Programmes :
17 CINEMA DSP, DTS Digital Surround, Dolby Digital, Dolby Pro-Logic and 6 HiFi DSP Programmes
- Equal Output Power for Five Channels
- High Dynamic Power, Low-Impedance Drive Capability
- Linear Damping

Versatile, Extensive Connections

- 4 Optical and 1 Coaxial Digital Input Terminals (fixed and assignable, except Video Aux)
- 1 Optical Digital Output Terminal (fixed and assignable)
- 4 A/V (with S-video) and 3 Audio inputs
- Front Panel Video Aux Input Terminals with Optical Digital and S-Video Terminals
- 6-Channel External Decoder Input Terminals for Other Future Formats
- Subwoofer Output with Low-Pass Filter

Convenient Operating Features

- Auto Priority Input Selection and Auto Decoder Selection
- Convenient "Set Menu": Speaker Set Functions, Headphone Tone Control, I/O Assignment, Input Mode, Dolby Digital Set, DTS Set, Speaker Delay Time, Display Set and Memory Guard
- Digital Delay Time Control
- 2-Way Binding-Post Speaker Terminals
- Speaker A/B Selector
- Sleep Timer
- Preset Remote Control Unit

High Reception Tuner

- RDS (Radio Data System)
- 40-Station AM/FM Random Access Preset Tuning
- Auto Preset Tuning (FM Station Memory and Editing)

RX-V520RDS/RX-V420RDS Surround Programs

HiFi DSP Programmes	Analogue Input	Dolby Digital Input	DTS Input
■ CONCERT HALL	■ Concert Hall	■ <—	■ <—
■ JAZZ CLUB	■ Jazz Club	■ <—	■ <—
■ ROCK CONCERT	■ Rock Concert	■ <—	■ <—
■ ENTERTAINMENT (DISCO)	■ Disco	■ <—	■ <—
■ ENTERTAINMENT (GAME)	■ Game	■ <—	■ <—
■ ENTERTAINMENT (5 CH STEREO)	■ 5 Ch Stereo	■ <—	■ <—
Programmes	6 Programmes		

Surround Programues	Analogue Input	Dolby Digital Input	DTS Input
■ DOLBY/DTS SURROUND	■ Dolby Pro-Logic Normal	■ Dolby Digital Normal	■ DTS Digital Sur. Normal
Programmes	1 Programme	1 Programme	1 Programme

CINEMA DSP Programmes	Analogue Input	Dolby Digital Input	DTS Input
■ MONO MOVIE	● Mono Movie	● <—	● <—
■ TV SPORTS	● TV Sports	● <—	● <—
■ MOVIE THEATER 1	● 70mm Spectacle ● 70mm Sci-Fi	● Dolby Digital Spectacle ● Dolby Digital Sci-Fi	● DTS Digital Sur. Spectacle ● DTS Digital Sur. Sci-Fi
■ MOVIE THEATER 2	● 70mm Adventure ● 70mm General	● Dolby Digital Adventure ● Dolby Digital General	● DTS Digital Sur. Adventure ● DTS Digital Sur. General
■ DOLBY/DTS SURROUND	● Dolby Pro-Logic Enhanced	● Dolby Digital Enhanced	● DTS Digital Sur. Enhanced
Programmes	7 Programmes	5 Programmes	5 Programmes
Programme Total	14 Programmes	6 Programmes	6 Programmes
Programme Grand Total: 26 Programmes			

Remarks	■: HiFi DSP Programmes	■: AV Programmes
	●: CINEMA DSP	●: Tri-Field CINEMA DSP

Optimum Space Utilization

The use of highly integrated LSIs allows an interior design that maximizes power and sound quality by positioning all the digital processors and related circuitry in one small area. This leaves most of the space open for the power amplifier components: transformers, capacitors, heat sink and so on. This means that these parts can be much larger than usual for greater power, that they can be separated for minimum chance of interference, and that circuits can be arranged in straight lines for maximum signal purity.

RX-V520RDS/RX-V420RDS New Product Information

RX-V420RDS Digital Home Cinema Receiver



- **New 32-Bit Original LSI (YSS-928) for High Precision Decoding and CINEMA DSP Processing**
- **26 Surround Programmes with 17 CINEMA DSP and 6 HiFi DSP Programmes**
- **SILENT CINEMA for Headphone Enjoyment**
- **Virtual CINEMA DSP for Versatile Surround Enjoyment**
- **6-Channel External Decoder Input for Other Future Formats**
- **Equal Output Power for Five Channels**
- **Preset Remote Control Unit**

Advanced Yamaha Digital Technology including CINEMA DSP Compatible with All Movie Audio Formats

- Yamaha Original 32-Bit LSI (YSS-928) Incorporates Dolby Digital, DTS and Dolby Pro-Logic Decoders Plus DSP Processing Circuits

- 26 Surround Programmes :
17 CINEMA DSP, DTS Digital Surround, Dolby Digital, Dolby Pro-Logic and 6 HiFi DSP Programmes
- Equal Output Power for Five Channels
- High Dynamic Power, Low-Impedance Drive Capability
- Linear Damping

Versatile, Extensive Connections

- 2 Optical and 1 Coaxial Digital Input Terminals (fixed and assignable)
- 4 A/V (with S-video) and 3 Audio inputs
- Front Panel Video Aux Input Terminal
- 6-Channel External Decoder Input Terminals for Other Future Formats
- Subwoofer Output with Low-Pass Filter

Convenient Operating Features

- Auto Priority Input Selection and Auto Decoder Selection
- Convenient "Set Menu": Speaker Set Functions, Headphone Tone Control, I/O Assignment, Input Mode, Dolby Digital Set, DTS Set, Speaker Delay Time, Display Set and Memory Guard
- Digital Delay Time Control
- 2-Way Binding-Post Speaker Terminals
- Speaker A/B Selector
- Sleep Timer
- Preset Remote Control Unit

High Reception Tuner

- RDS (Radio Data System)
- 40-Station AM/FM Random Access Preset Tuning
- Auto Preset Tuning (FM Station Memory and Editing)

RX-V520RDS vs. RX-V496RDS & RX-V420RDS vs. RX-V396RDS	RX-V520RDS	RX-V496RDS	RX-V420RDS	RX-V396RDS
Surround Decoding and DSP Processing	Yamaha 32-Bit YSS-928 LSI	Yamaha 24-Bit YSS-918 LSI	Yamaha 32-Bit YSS-928 LSI	Yamaha 24-Bit YSS-918 LSI
Surround Programme	26 programmes	23 programmes	26 programmes	17 programmes
DTS Digital Surround	Yes	Yes	Yes	—
Dolby Digital	Yes	Yes	Yes	Yes
SILENT CINEMA for Headphone Enjoyment	Yes	—	Yes	—
Virtual CINEMA DSP	Yes	—	Yes	—
DIN Standard Power				
Main Ch	105 W + 105 W	100 W + 100 W	95 W + 95 W	90 W + 90 W
Centre Ch	105 W	100 W	95 W	90 W
Rear Effect Ch	105 W + 105 W	100 W + 100 W	95 W + 95 W	90 W + 90 W
Min. RMS Output Power (8 ohms, 20–20,000 Hz)				
Main Ch	70 W + 70 W (0.06% THD)	70 W + 70 W (0.06% THD)	65 W + 65 W (0.06% THD)	60 W + 60 W (0.06% THD)
Centre Ch	70 W (0.06% THD)	70 W (0.06% THD)	65 W (0.06% THD)	60 W (0.06% THD)
Rear Effect Ch	70 W + 70 W (0.06% THD)	70 W + 70 W (0.06% THD)	65 W + 65 W (0.06% THD)	60 W + 60 W (0.06% THD)
Digital Input Terminals	4 optical and 1 coaxial (fixed and assignable)	2 optical and 1 coaxial (fixed)	2 optical and 1 coaxial (fixed and assignable)	2 optical and 1 coaxial (fixed)
Digital Output Terminal	1 optical (fixed and assignable)	—	—	—
A/V Input/Output Terminals	4 input/2 output (with S-video)/ 1 monitor out (with S-video)	4 input (with 2 S-video)/1 output (with S-video)/1 monitor out (with S-video)	4 input/1 output/ 1 monitor out	3 input/1 output/ 1 monitor out
Front Panel Input Terminals	Yes (with optical digital and S-video)	Yes (with S-video)	Yes	—
High Dynamic Power, Low-Impedance Drive Capability	Yes	Yes	Yes	Yes
Dynamic Power/Ch (8/6/4/2 ohms)	95/115/135/155 W	90/110/130/150 W	90/110/130/150 W	85/105/125/145 W
Linear Damping	Yes	Yes	Yes	Yes
Damping Factor (8 ohms, 20–20,000 Hz)	60 (main ch, speaker A)	60 (main ch, speaker A)	60 (main ch, speaker A)	60 (main ch, speaker A)
Frequency Response	20—20,000 Hz ±0.5 dB	20—20,000 Hz ±0.5 dB	20—20,000 Hz ±0.5 dB	20—20,000 Hz ±0.5 dB
Signal-to-Noise Ratio (CD)	100 dB (250 mV)	100 dB (250 mV)	100 dB (250 mV)	100 dB (250 mV)
Dimensions (W x H x D)	435 x 151 x 390 mm;	435 x 151 x 391 mm;	435 x 151 x 390 mm;	435 x 151 x 391 mm;
Weight	10 kg	10 kg.	9.5 kg	10 kg

New Product Information

RX-V520RDS/RX-V420RDS Digital Home Cinema Receivers

RX-V520RDS Rear Panel Connections



RX-V420RDS Rear Panel Connections



RX-V520RDS Inputs and Outputs

	Analogue		Digital				Video			
	In	Out	Coaxial		Optical		Composite		S Video	
CD	■		■		■	■				
MD/CDR		■			■	■				
DVD	■		■		■	■				■
D-TV/CBL	■		■		■	■				■
VCR	■	■	■		■	■				■
Video Aux	■		■		■	■				■
TV Monitor										■
Aux	■		■		■	■				

Fixed (■) and Assignable (□) Terminals

RX-V420RDS Inputs and Outputs

	Analogue		Digital				Video	
	In	Out	Coaxial		Optical		Composite	
CD	■		■		■			
MD/CDR		■			■			
DVD	■		■		■			■
D-TV/CBL	■		■		■			■
VCR	■	■	■		■			■
Video Aux	■		■		■			■
TV Monitor								■
Aux	■		■		■			

Fixed (■) and Assignable (□) Terminals

Visit us at our web site: <http://www.yamaha.co.jp/>

API523G-RXV520RDS/V420RDS@312



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