

RX-V520

Digital Home Theater 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 Theater Line.



Black finish available in some areas.

RX-V420

Digital Home Theater Receiver

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



Black finish available in some areas.

New Product Information

RX-V520 Digital Home Theater Receiver



- **New 32-Bit Original LSI (YSS-928) for High Precision Decoding and CINEMA DSP Processing**
- **26 Surround Programs with 18 CINEMA DSP and 5 HiFi DSP Programs**
- **SILENT CINEMA for Headphone Enjoyment**
- **Virtual CINEMA DSP for Versatile Surround Enjoyment**
- **96kHz/24-Bit D/A Conversion**
- **6-Channel External Decoder Input Terminals**
- **DVD-Audio Ready**
- **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

RX-V520/RX-V420 Surround Programs

HiFi DSP Programs	Analog Input	Dolby Digital Input	DTS Input
■ CONCERT HALL	■ Concert Hall	■ <—	■ <—
■ JAZZ CLUB	■ Jazz Club	■ <—	■ <—
■ ROCK CONCERT	■ Rock Concert	■ <—	■ <—
■ ENTERTAINMENT	■ Disco ■ 5 Ch Stereo	■ <—	■ <—
Programs	5 Programs		

Surround Programs	Analog Input	Dolby Digital Input	DTS Input
	■ Dolby Pro-Logic Normal	■ Dolby Digital Normal	■ DTS Digital Sur. Normal
Programs	1 Program	1 Program	1 Program

CINEMA DSP Programs	Analog Input	Dolby Digital Input	DTS Input
■ ENTERTAINMENT	● Game	● <—	● <—
■ 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
Programs	8 Programs	5 Programs	5 Programs
Program Total	14 Programs	6 Programs	6 Programs
Program Grand Total: 26 Programs			

Remarks	■: HiFi DSP Programs	■: A/V Programs
	●: CINEMA DSP	●: Tri-Field CINEMA DSP

- 26 Surround Programs: 18 CINEMA DSP, DTS Digital Surround, Dolby Digital, Dolby Pro-Logic and 5 HiFi DSP Programs
- Equal Output Power for Five Channels
- High Dynamic Power, Low-Impedance Drive Capability
- Linear Damping
- 96-kHz/24-Bit Digital-to-Analog Converters for All Channels

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
- Wide-Range Frequency Response for DVD-Audio Compatibility
- 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

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

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-V520/RX-V420 New Product Information

RX-V420

Digital Home Theater Receiver



- **New 32-Bit Original LSI (YSS-928) for High Precision Decoding and CINEMA DSP Processing**
- **26 Surround Programs with 18 CINEMA DSP and 5 HiFi DSP Programs**
- **SILENT CINEMA for Headphone Enjoyment**
- **Virtual CINEMA DSP for Versatile Surround Enjoyment**
- **6-Channel External Decoder Input for Other Future Formats**
- **DVD-Audio Ready**
- **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 Programs: 18 CINEMA DSP, DTS Digital Surround, Dolby Digital, Dolby Pro-Logic and 5 HiFi DSP Programs
- 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
- Wide-Range Frequency Response for DVD-Audio Compatibility
- 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

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

RX-V520 vs. RX-V496 & RX-V420 vs. RX-V395	RX-V520	RX-V496	RX-V420	RX-V396
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 Program	26 programs	23 programs	26 programs	17 programs
DTS Digital Surround	Yes	Yes	Yes	—
Dolby Digital	Yes	Yes	Yes	Yes
SILENT CINEMA for Headphone Enjoyment	Yes	—	Yes	—
96kHz/24-Bit D/A Converters	Yes	—	—	—
Virtual CINEMA DSP	Yes	—	Yes	—
Max Power	Main Ch	100 W + 100 W	100 W + 100 W	95 W + 95 W
	Center Ch	100 W	100 W	95 W
	Rear Effect Ch	100 W + 100 W	100 W + 100 W	95 W + 95 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)
	Center Ch	70 W (0.06% THD)	70 W (0.06% THD)	65 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)
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 (CD)	10–100,000 Hz +0, -3 dB	20–20,000 Hz ±0.5 dB	10–100,000 Hz +0, -3 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-V520/RX-V420 Digital Home Theater Receivers

RX-V520 Rear Panel Connections

6-Channel External Decoder Input for Future Sound Formats

40-Station AM/FM Random Access Preset Tuning

4 A/V (with S-Video) and 3 Audio Inputs, and 1 A/V and 1 Audio Outputs

Versatile Digital Inputs/Outputs: 4 Optical/1 Coaxial Digital Inputs and 1 Optical Output (fixed and assignable)

All speaker terminals are banana-plug compatible. Main Speaker terminals are large binding-post type.

Subwoofer Output Terminal

RX-V420 Rear Panel Connections

6-Channel External Decoder Input for Future Sound Formats

40-Station AM/FM Random Access Preset Tuning

4 A/V and 3 Audio Inputs, and 1 A/V and 1 Audio Outputs

2 Optical/1 Coaxial Digital Inputs (fixed and assignable)

All speaker terminals are banana-plug compatible. Main Speaker terminals are large binding-post type.

Subwoofer Output Terminal

RX-V520 Inputs and Outputs

	Analog		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-V420 Inputs and Outputs

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

Fixed (■) and Assignable (□) Terminals

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