

SONY

STRDH590

5.2 multi-channel 4k HDR AV Receiver with Bluetooth®

Upgrade your home entertainment system to work with the latest 4K TVs and HDR picture. Equipped with 4 HDMI inputs, HDCP 2.2 signal handling, and a host of advanced features the DH590 is the perfect combination of high performance video capability and superb sonic fidelity.



Bullets

- 5.2 Ch x 145W per channel (6ohms, 1kHz, 1ch THD 0.9%)
- 4K HDR², Dolby Vision compatibility with HDCP 2.2 support
- HDMI[®]4-in/2-out with Audio Return Channel
- Built-in Bluetooth lets you wirelessly stream from other Bluetooth devices¹
- S-FORCE[®] PRO front surround sound
- Dolby[®] TrueHD and dts[®] HD Enhanced Audio Codecs
- FM Radio with 30-station presets
- Pure Direct mode for improved signal clarity and detail
- Low-profile design (5 ¼" tall) fits easily into conventional AV cabinet

Features

5.2ch surround for cinematic surround sound

Immerse yourself in movie action with a 5.2 channel surround sound that brings the cinema home.

Bring it all together

A truly dynamic home entertainment setup. There are four HDMI inputs and two outputs, plus optical/coaxial digital and analog audio connections so that you can connect your TV, UHD Blu-ray Disc™ player, gaming console and more, quickly and easily.

Enjoy consistent 4K quality

Maintain 4K quality from source to screen² – the 4K pass through feature allows data to pass through the receiver without compromising image quality, and is HDCP 2.2 compatible.

See clearly with High Dynamic Range

With support for High Dynamic Range (HDR) signal pass-through, you can enjoy the incredible jump in image contrast and brightness it brings—and the additional shadow detail and highlights further enhance picture detail and brings colors to life. Latest HDR standards such as HDR10, HLG (Hybrid Log-Gamma) and Dolby Vision™ are supported.

Optimize home entertainment with Digital Cinema Auto Calibration

Digital Cinema Auto Calibration (D.C.A.C.) automatically optimizes sound based on where you sit in relation to your speakers, to help give you the best from your home cinema system.

Easy, virtual surround with S-Force[®] PRO Front Surround

Ideal for smaller rooms, S-Force[®] PRO Front Surround delivers a virtual surround acoustic field using only two speakers.

Smarter Bluetooth[®] connectivity

Not only can you wirelessly stream and play music from other Bluetooth devices, but with Bluetooth Standby, you can turn on your receiver remotely, and even play back and control your music with voice assistant smart speakers such as Amazon Alexa¹.

Low-profile design

Low-profile design (5 ¼" tall) fits easily and conveniently into conventional AV cabinets

FM tuner with 30-station presets

An FM tuner with 30 digital presets with station names, as well as auto tuning.

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The Way The Artists Truly Intended

Enjoy the subtlest nuances of studio-quality sound in higher-than-CD quality with High-Resolution Audio. Passion for music unites every component from signal to speaker, so it feels like the artist is performing right in front of you.

DSD decoding

Co-developed for High-Resolution Audio by Sony and Philips, the companies behind the original CD format, DSD offers a revolutionary way of capturing and playing back audio. Its sampling frequency is 64-times that of CD.

Constructed for precision

A reinforced rigid, frame and beam chassis design reduces external speaker sound pressure and vibration to help maintain signal fidelity for more focused, powerful sound.

The metal framework protects the circuits

The metal framework and heat sink bracket shield the circuits from sound pressure and radiation, for high-rigidity and clearer sound quality.

Power amplifier for minimal distortion

The power amplifier uses a glass-epoxy circuit board for reduced vibration and distortion, giving clear, high power from each of the discreet amplifiers.

Large capacity power transformer built for clarity

Large capacity power transformer built for clarity.

Expertly designed to prevent overheating

The heat sink is specially designed to maximize air intake, keeping the amplifier circuit cool to reduce distortion and increase reliability.

Specifications

Amplifier/Receiver		
Audio Features	A/V SYNC	Yes (Fixed)
	A/V Sync Time/Sampling Frequency	60msec
	Cross Over Frequency	17 points (40-200Hz)
	Decodable channel number	5ch
	Night Mode	Yes
	OP processing	Yes
	Pure Direct	Yes
	Speaker Selector	ON/OFF
	Speaker Terminal Type	Screw (Ni) for Front, Push for Center and Surround
Audio Input	Analog Audio In	4
	Coax.	1
Audio Output	Headphone Out	Yes (Gold)
	Pre Out (Subwoofer)	2
DCAC Features	D.C.A.C. EX / Advanced D.C.A.C. / D.C.A.C.	D.C.A.C only
Input/Output Others	Bluetooth Receiver	Yes
Output Power	Center	145W (6ohms, 1kHz, 1ch THD 0.9%)
	Front	145W (6ohms, 1kHz, 1ch THD 0.9%)
	Number of amp. channels	5
	Speaker Impedance	6-16ohms
	Surround	145W (6ohms, 1kHz, 1ch THD 0.9%)

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Sound Field	Audio Enhancer	Yes
	Direct	Yes
	Front Surround	Yes
	Hall (Large Hall)	Yes
	HD-D.C.S.	Yes
	Headphone 2ch	Yes
	Jazz Club	Yes
	Live Concert	Yes
	Multi Stereo	Yes
	PLII Movie	Yes
	PLII Music	Yes
	Sports	Yes
	Stadium	Yes
	Speaker Out	Center
Front A		Yes
Surround		Yes
Tone Control	Front (Bass/Treble)	Yes
Tuner	Auto Tuning	Yes
	Direct Tuning	Yes
	FM/AM	FM only
	Preset Channel (FM/AM)	TTL30 (30/-)
	Station Name	Yes
Video Input	HDMI Input supporting HDCP2.2(Front)	4(0)
Video Output	HDMI Output supporting HDCP2.2	1
HDMI		
Audio Features	Audio Return Channel	Yes
	S-Select	Yes
Decoding Formats	Dolby Digital	Yes
	Dolby Dual Mono	Yes
	Dolby TruHD/Dolby Digital Plus	Yes/Yes
	DSD	Yes (Up to 2.8MHz 5.1ch)
	DTS / DTS-ES (Matrix6.1 / Discrete6.1)	Yes (DTS only)
	DTS 96/24	Yes
	DTS HD MA / DTS HD HR	Yes/Yes
	LPCM	Yes (Up to 192kHz/24bit 5.1ch)
Others	Audio Widget	Yes
	BRAVIA® SYNC™ (CEC Control)	Yes
	Standby Through	Yes
Video Features	3D over HDMI	Yes
	4K 60p 4:4:4 Support	Yes
	HDR	Yes (HDR10, Hybrid Log-Gamma, Dolby Vison)
Other		
Customize Features	Input Assign (HDMI/Component/ Opt/Coax)	Yes (Opt/Coax)
	Sleep Timer	Yes (up to 2 hours)

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General	Auto Standby	Yes
	Pin Jack	Nickel
	Power Consumption	240W
	Power Consumption(Power Stand By)	0.3W Bluetooth Standby: 0.5W
	Power Requirement	AC 120V 60Hz
	Remote Commander	RMT-AA401U
	System Update (Internet/USB/PC)	Yes (USB only)
Language		
Help Guide	English(US) or English(GB)	Yes
	French or French(CA)	Yes(CA)
	Spanish or Spanish(LA)	Yes(LA)
Instruction Manual	English(US) or English(GB)	Yes
	French or French(CA)	Yes
	Spanish or Spanish(LA)	Yes
Quick Setup Guide	English(US) or English(GB)	Yes
	French or French(CA)	Yes(CA)
	Spanish or Spanish(LA)	Yes(LA)
Accessories		
Accessories	Supplied Accessories	Remote (RMT-AA401U) Batteries FM antenna Calibration mic (mono)
Weight and Measurements		
Weight and Measurements	Receiver Dimension (WxHxD inches)	17 x 5 1/4 x 11 3/4 in (430 x 133 x 297 mm)
	Receiver Weight (pound)	15 lb 11 oz (7.1 kg)

1. Interoperability and compatibility among Bluetooth® devices vary.

2. 4K upscaling requires a 4K projector or 4K TV.

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