



STRDH790

7.2ch Home Theater AV Receiver with Dolby Atmos® and Bluetooth®

Give your home entertainment system a cinematic upgrade with the STR-DH790 7.2ch AV receiver. Experience the same all-encompassing surround sound you get in movie theaters at home with Dolby Atmos and DTS:X support. eARC lets you enjoy these latest audio formats with one-cable HDMI connection from your compatible TV. Plus, superior picture quality to match with 4K HDR pass-through.



Bullets

- Quality surround sound with Dolby Atmos and DTS:X support
- 4in/1out HDMI connectivity with 4K/60p (4:4:4) pass-through, HDCP 2.2 support and HDR support
- Easy Bluetooth® connectivity
- Space-saving design to fit in media units
- High-Resolution Audio compatible

Features

Get lost in the action with Dolby Atmos

Dolby Atmos delivers breathtaking realism with 360° surround sound by accurately positioning sound from every angle in your environment—even from above. The result is rich audio that completely envelops you.

Lifelike sound whatever the setup with DTS:X

DTS:X decoding delivers multi-dimensional surround sound that adapts to your speaker configuration in real time. Sound is positioned precisely around and above you, thanks to object-based audio decoding.

Immersive 5.1.2ch sound from every angle

Put yourself at the heart of the action with an immersive 5.1.2 channel surround speaker system, delivering lifelike audio from every angle—even above.

Space-optimized 7.1ch cinematic sound

Get the real big screen experience with a fully-fledged 7.1 channel surround speaker system. The ideal way to close up any gaps in your sound space—even in bigger rooms.

All round virtual surround with S-Force PRO

Ideal for smaller rooms, S-Force PRO front surround delivers a virtual surround acoustic field using only two speakers.

Superior audio with Advanced D.C.A.C.



If you're working with different combinations of speakers, our seamless auto calibration technology will have them all delivering the same high-quality sound. Automatic Phase Matching aligns the phase characteristics of your speakers to the front left and right speaker channels, so that all channels work perfectly together delivering a more effective surround sound experience.

A clearer picture with High Dynamic Range

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

Consistently stunning 4K quality

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

Smarter Bluetooth® connectivity

Not only can you connect to the STR-DH790 through Bluetooth® and play all your favorite tracks, but with Bluetooth® Standby, you can turn your receiver on straight from your paired smartphone or tablet.

Smooth control

The sleek, understated control panel will blend seamlessly with any décor.

Get connected

Just plug in and press play. With four HDMI inputs and one output, optical/coaxial digital and analog audio connections, you can connect your UHD Blu-ray Disc™ player, TV and games console easily.

Streamlined slim design

With a robust, space-saving design, the receiver can easily fit into your media unit. Plus, a rigid chassis reduces vibration to help maintain signal fidelity.

Powerful 3 DSPs

3 powerful digital signal processors support the latest sound formats like Dolby Atmos/DTS:X, ensuring the highest accuracy in signal decoding.

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 discrete amplifiers.

Constructed for precision

A reinforced frame and beam chassis design reduces external speaker sound pressure for more focused, powerful sound.

Large capacity power transformer built for clarity

Care and attention to the highest quality audio starts with the power transformer.



A 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.

Expertly designed to prevent overheating

The heat sink's specially designed fins maximize air intake, keeping the amplifier circuit cool and protecting it against unwanted sound pressure.

Control made easy with a graphic user interface

It's easy to navigate your receiver's settings thanks to an intuitive home menu. Control what you watch, identify which devices are connected and choose how you want to listen with pre-set sound modes.

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 Phillips, the companies behind original CD format, DSD offers a revolutionary way of capturing and playing back audio. Its sampling frequency is 64x that of CD.

Your favorite radio with an FM tuner

The STR-DH790 has an FM tuner with 30 digital preset radio stations, with auto tuning and direct tuning available.

One-cable HDMI eARC

With HDMI eARC, you can enjoy the latest high bitrate surround sound formats, like Dolby Atmos® and DTS:X®, from your compatible TV.

Specification

Amplifier	
Number of Amp. Channels	7
Number of Decodable Channels	5.1.2ch
Power Output	145 W (6 ohms, 1 kHz, 1ch THD 0.9%)
Sound Field	2ch Stereo, Direct, Multi Ch Stereo, Dolby Surround, Neural: X, Front Surround, Audio Enhancer, Headphone 2ch
Speaker Impedance	6–16 ohms
Audio Features	



TV VOLUME OFFSET	Yes
Auto Speaker Calibration	
Calibration Features	Advanced D.C.A.C., Automatic Phase Matching, Calibration Mic (Mono)
Decoding Format for HDMI	
Decoding Format for HDMI	DSD, Dolby Atmos®, Dolby® Digital, Dolby® Dual Mono, DTS: X™, DTS-HD Master Audio™, DTS HD High-Resolution Audio, DTS®, DTS-ES (Matrix6.1/Discrete6.1), DTS 96/24
General Features	
Auto Standby	Yes
GUI (Graphical User Interface)	Yes
Power Requirement	AC 120 V 60 Hz
Interface	
Input and Output Terminals	Audio Input Opt (1), Audio Input Coax (1), Analog Audio Input (4), Pre Out Subwoofer (2), Headphone Output (1), USB (for power supply only)
Speaker Output Terminals	Front A, Center, Surround, Surround Back, Height (Common with Surround Back), Front B (Common with Surround Back), Bi-AMP (Common with Surround Back)
Network Connectivity	
Network features	Bluetooth® Receiver
Size & Weight	
Dimensions (W x H x D in)	17" x 5-1/4" x 11-3/4" (430 x 133 x 297 mm)
Weight (lb)	16 lb 6 oz (7.4 kg)
Tuner Features	
FM/AM	Yes / No
Preset Channel (FM/AM)	TTL30 (30/-)
Video Features	
3D over HDMI	Yes
4K 60p 4:4:4 Support	Yes
A/V SYNC	Yes (Variable)



Audio Return Channel	Yes (eARC / ARC)
BRAVIA® SYNC™ (CEC Control)	Yes
HDMI® Pass Through	Yes
HDR (High Dynamic Range)	Yes (HDR10, HLG, Dolby Vision™ Compatible)

1. Interoperability and compatibility among Bluetooth devices vary.
2. Requires HDMI® cable sold separately
3. 4k pass-through requires a 4K projector or 4K TV.
4. Available via network firmware update Fall 2018. TV must be eARC enabled.

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