

# SONY

## STR-DH790

### 7.2ch Home Theatre AV Receiver

Give your home entertainment system a cinematic upgrade. The powerful 7.2 channel receiver supports the latest three-dimensional surround sound audio formats including Dolby Atmos and dts:X, drawing you into the middle of the action you see on screen. And with 4k Ultra HD picture quality, and Dolby Vision, that'll transform your viewing experiences, you'll enjoy an immersive theater-like experience in the comfort of your own home.



#### Bullets

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- 7.2 Ch x 145W per channel (6ohms, 1kHz, 1ch THD 0.9%)
- Dolby Atmos® and DTS:X™ object-based surround sound
- 4K HDR/Dolby Vision compatibility with HDCP 2.2 support
- HDMI® 4-in/1-out with Enhanced Audio Return Channel (eARC)<sup>2</sup>
- Built-in Bluetooth lets you wirelessly stream from other Bluetooth devices®<sup>1</sup>
- Advanced Auto Calibration technology (Adv. DCAC)
- S-FORCE PRO front surround sound
- Low-profile design (5 ¼" tall) fits easily into conventional AV cabinet
- Pure Direct mode for improved signal clarity and detail
- 4 stereo RCA audio inputs, 2 digital audio inputs (1 optical and 1 coaxial)

#### Features

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##### 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.

##### 7.2ch cinematic sound

Get the real big screen experience with a fully-fledged 7.2 channel surround speaker system.

##### Virtual surround with S-Force PRO

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

##### Guarantee the best sound in every room

Since every room is different, Advanced Digital Cinema Auto Calibration (Advanced D.C.A.C.) analyzes the room's acoustics, calibrates, and then optimizes the sound, ensuring the best sound in every room and with Automatic Phase Matching (APM) your surround sound experience will be even better. Even if you are working with a different combination of speakers, APM works by automatically aligning the phase characteristics of each speaker, so that all the channels work perfectly together

##### A clearer picture with High Dynamic Range

With High Dynamic Range (HDR) signal pass-through,<sup>2</sup> 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. The latest HDR standards such as HDR10, HLG (Hybrid Log-Gamma) and Dolby Vision™ are also 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.<sup>3</sup>

##### Smarter Bluetooth® connectivity

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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.<sup>1</sup>

## **Get connected**

Just plug in and press play. With four HDMI inputs, optical/coaxial digital and analog audio connections, you can easily connect your UHD Blu-ray Disc™ player, , gaming console and more .<sup>2</sup>

## **Low-profile design**

With a low-profile, space-saving design, the receiver fits easily into any conventional AV cabinet

## **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 rigid beam chassis reduces vibration induced distortion caused by speaker sound pressure to very low levels maintaining signal fidelity for an even better sound

## **Large capacity power transformer built for clarity**

Care and attention to the highest quality audio starts with the power transformer, ensuring the right dose of current is always ready

## **Expertly designed to prevent overheating**

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

## **Easy-to-use graphic user interface**

It's easy to navigate your receiver's settings thanks to an intuitive user interface. 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.

## **Enjoy an easy full-resolution connection with eARC**

With eARC, the STR-DH790 receiver can relay full-resolution sound, including the latest immersive audio formats like Dolby Atmos and DTS:X, directly to and from your TV without routing through an alternate media source.<sup>4</sup>

## **Specifications**

Amplifier/Receiver

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Audio Features	A/V SYNC	Yes (Variable)
	A/V Sync Time/Sampling Frequency	0-300msec
	Cross Over Frequency	17 points (40-200Hz)
	Decodable channel number	7ch
	Night Mode	Yes
	OP processing	Yes
	Pure Direct	Yes
	Speaker Selector	A/B/A+B/OFF
	Speaker Terminal Type	Screw (Ni) for Front, Push for Center, Surround and Surround Back
Audio Input	Analog Audio In	4
	Coax.	1
Audio Output	Headphone Out	Yes (Gold)
	Pre Out (Subwoofer)	2
DCAC Features	Automatic Phase Matching	Yes
	D.C.A.C. EX / Advanced D.C.A.C. / D.C.A.C.	Advanced 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	7
	Speaker Impedance	6-16ohms
	Surround	145W (6ohms, 1kHz, 1ch THD 0.9%)
	Surround Back	145W (6ohms, 1kHz, 1ch THD 0.9%)
Sound Field	2ch	2ch Stereo: Yes
	Audio Enhancer	Yes
	Auto Format Decoding	Yes
	Direct	Yes
	Dolby Surround	Yes
	Front Surround	Yes
	Headphone 2ch	Yes
	Multi Stereo	Multi Ch Stereo: Yes
Speaker Out	Neural:X	Yes
	Bi-AMP	Yes(Common with Surround Back)
	Center	Yes
	Front A	Yes
	Front B	Yes(Common with Surround Back)
	Height	Yes(Common with Surround Back)
	Surround	Yes
Tone Control	Surround Back	Yes
	Center (Bass/Treble)	Yes
	Front (Bass/Treble)	Yes
	Height (Bass / Treble)	Yes
	Surround (Bass/Treble)	Yes
	Surround Back (Bass/Treble)	Yes

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Tuner	Auto 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
<b>HDMI</b>		
Audio Features	Audio Return Channel	Yes
Decoding Formats	Dolby Atmos	Yes
	Dolby Digital	Yes
	Dolby Dual Mono	Yes
	Dolby TruHD/Dolby Digital Plus	Yes/Yes
	DSD	Yes (Up to 2.8MHz 5.1ch)
	DTS:X	Yes
	DTS / DTS-ES (Matrix6.1 / Discrete6.1)	Yes/Yes
	DTS 96/24	Yes
	DTS HD MA / DTS HD HR	Yes/Yes
	LPCM	Yes (Up to 192kHz/24bit 7.1ch)
Others	Audio Widget	Yes
	BRAVIA® SYNC™ (CEC Control)	Yes
	Standby Through	Yes
Video Features	4K 60p 4:4:4 Support	Yes
	HDR	Yes(HDR10, Hybrid Log-Gamma, Dolby Vison)
<b>Other</b>		
Customize Features	Input Assign (HDMI/Component/Opt/Coax)	Yes (Opt/Coax)
	Sleep Timer	Yes (up to 2 hours)
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)
<b>Language</b>		
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)	16 lb 6 oz (7.4 kg)

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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