

HT-S790

HOME ENTERTAINMENT 7.1-CHANNEL RECEIVER/SPEAKER PACKAGE

ONKYO
IMAGINATIVE SIGHT & SOUND



Available in Black or Silver

Opening Up a Whole Lot of Home Entertainment Choices

With a multitude of home theater packages on the market that offer little more than amplified television, the HT-S790 home entertainment 7.1-channel receiver/speaker package stands out as a welcome alternative. With a powerfully capable amplifier design, expansive yet noiseless audio signal processing, and easily integrated playback options, you'll be stunned at what the HT-S790 is capable of. And it's all about options: the whole range of DTS and Dolby Digital decoders; connectivity with all conceivable components; and compatibility the iPod®*. By giving you everything you need to create your own personalized home entertainment experience, the HT-S790 stands tall among the others in its class.

*Requires Onkyo's RI (Remote Interactive) Dock for the iPod

Wide Range Amplifier Technology (WRAT)

WRAT is the backbone of the HT-S790's amplifier design and is centered on three core elements:

- 1) A low-negative-feedback design that ensures a fuller sound at higher frequencies;
- 2) Closed ground-loop circuits that mitigate individual circuit noise and keep the ground potential free of distortion;
- 3) A high-instantaneous current capability that effectively handles reflex energy from the speakers and impedance fluctuations to offer dynamics similar to those experienced in a movie theater.

WRAT ensures the audio performance necessary for a range of video content with surround sound, as well as providing a solid platform for reproducing music sources like DVD-Audio, Super Audio CD, PCM CDs, and digital files like MP3s.

Component Video Switching (50 MHz) with HDTV Connectivity

With three component video inputs, you can have up to three of today's latest A/V components—think DVD/universal players, cable/set-top boxes, DVRs and the latest gaming consoles like the Xbox®—connected simultaneously for output to the latest high-definition displays. With a frequency range out to 50 MHz, you have more than enough bandwidth to pass a progressive scan DVD signal (at least 12 MHz needed) and a 720p signal (at least 37 MHz needed) to high-definition displays with no deterioration on the video signal. Besides the convenience and simplicity of one component video output, the HT-S790 gives you the versatility to build your home theater system as you wish.

Incorporating the Most Advanced and Latest Surround Formats Available

The HT-S790 has the onboard surround sound decoders—Dolby Digital EX, Dolby Pro Logic IIx, DTS-ES, DTS 96/24 and DTS Neo:6—to effectively reproduce stereo and multichannel sources with the sonic effects that the producing artists, directors and sound engineers originally intended. And with the upcoming release of HD-DVD and Blu-ray Disc, Dolby Digital and DTS have prepared audio formats that represent the future of digital audio entertainment. By connecting an HD-DVD or Blu-ray Disc player with the respective high-definition audio codecs to the HT-S790 via its 7.1-multichannel inputs, you will be able to enjoy superior audio quality with a bit-rate of up to 1.5 Mbps*; almost twice that of existing codecs. The new codecs are back-compatible with existing codecs.

*Confirmed for DTS-HD

7.1 Speaker System with Fine-Tuning Capabilities

The HTP-540 7.1 speaker package has designed to work in tandem with the HT-R540 A/V receiver. These speakers can easily handle the most dynamic film soundtracks as well as provide good music reproduction. Given the low-frequency energy requirements of home theater, the package is anchored around the SKW-540 powered subwoofer with its 230 W amplifier. As a unit with the front, center and surround speakers, this package has the dynamic range and the ability to expertly handle loud, complex signals. Also, depending on your preferences, you can accurately set your subwoofer to the best possible frequency for bass reproduction.



Silver model

HT-S790

HOME ENTERTAINMENT 7.1-CHANNEL RECEIVER/SPEAKER PACKAGE

HT-R540 [7.1-Channel Receiver]

Amplifier, A/V Processing and Connectivity Features

- 110 watts per channel minimum into 8 ohms, 1 kHz, FTC; 130 watts per channel minimum into 8 ohms, 1 kHz, JEITA; 160 watts per channel minimum into 8 ohms, 1 kHz, JEITA (1 channel driven)
- DTS, DTS-ES Discrete/Matrix, DTS Neo:6, DTS 96/24, Dolby Digital EX, Dolby Pro Logic IIx
- 192 kHz/24-bit DACs for all channels
- Advanced 32-bit processing DSP chip
- H.C.P.S.—high current power supply
- Discrete power amplifier circuitry for all channels
- Wide Range Amplifier Technology (WRAT)
- Optimum Gain Volume Circuitry
- HDTV-capable (50 MHz) component video switching (3 inputs/1 output)
- 4 digital inputs (3 optical/1 coaxial)
- 3 S-Video inputs and 2 outputs
- A-form listening mode memory
- Non-scaling configuration
- OR-EQ™ equalizer function
- Pure audio mode
- Direct mode
- Speaker A/B drive
- Color-coded 7.1-multichannel inputs (Ready for new DTS and Dolby Digital formats for high-definition discs)
- Subwoofer pre out
- Color-coded banana plug-compatible speaker posts (except speaker B)

Other Performance Features

- 40 FM/AM random presets
- Crossover adjustment (40/50/60/80/100/120/150/200 Hz) for bass management
- Compatible with RI (Remote Interactive) Dock for the iPod
- A/V synchronization function (set at 0/20/40/60/80/100 ms)
- Preprogrammed RI (Remote Interactive) remote control with mode-key LEDs

HTP-540 [Speaker Package]

SKF-540F

2-Way Bass Reflex Front Speakers

- 12 cm OMF diaphragm woofer x 2
- 2.5 cm balanced dome, floating tweeter
- 130 watts max. input
- Magnetically shielded

SKG-540C

2-Way Bass Reflex Center Speaker

- 12 cm OMF diaphragm woofer x 2
- 2.5 cm balanced dome, floating tweeter
- 130 watts max. input
- Magnetically shielded

SKM-540S/SKB-540

2-Way Bass Reflex Surround/Surround Back Speakers

- 8 cm cone woofer
- 2 cm ceramic tweeter
- 130 watts max. input

*All speakers feature 8 ohms impedance, color-coded speaker terminals and speaker cable.

SKW-540

Bass Reflex Powered Subwoofer

- Built-in 230 watts power amplifier
- 25 cm cone woofer
- Auto standby/on
- Output level control
- Color-coded speaker terminals and speaker cables



HT-R540 (front)



HT-R540 (rear)



HTP-540 (Speaker Package)

Remote Control

SPECIFICATIONS

RECEIVER SECTION

AMPLIFIER SECTION

Power Output

Front L/R	110 W + 110 W (8 Ω, 1 kHz, FTC) 130 W + 130 W (8 Ω, 1 kHz, JEITA) 160 W + 160 W (8 Ω, 1 kHz, JEITA)*
Center	110 W (8 Ω, 1 kHz, FTC) 130 W (8 Ω, 1 kHz, JEITA) 160 W (8 Ω, 1 kHz, JEITA)*
Surround & Surround Back L/R	110 W + 110 W (8 Ω, 1 kHz, FTC) 130 W + 130 W (8 Ω, 1 kHz, JEITA) 160 W + 160 W (8 Ω, 1 kHz, JEITA)*

Dynamic Power

	230 W + 230 W (3 Ω, Front) 170 W + 170 W (4 Ω, Front) 120 W + 120 W (8 Ω, Front)
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THD (Total Harmonic Distortion)

	0.08 % (Rated Power)
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Damping Factor

	60 (Front, 1 kHz, 8 Ω)
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Input Sensitivity and Impedance

Line	200 mV/47 kΩ
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Output Level and Impedance

Rec out	200 mV/470 Ω
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Frequency Response

	5 Hz-100 kHz/+1 dB, -3 dB (Direct mode)
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Tone Control

	±10 dB, 80 Hz (BASS) ±10 dB, 20 kHz (TREBLE)
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Signal-to-Noise Ratio

	100 dB (Line, IHF-A)
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Speaker Impedance

	8 Ω-16 Ω
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VIDEO SECTION

Input Sensitivity/Output Level and Impedance

Video	1.0 Vp-p/75 Ω (Component and S-Video Y) 0.7 Vp-p/75 Ω (Component Pb/Cs, Pr/Cs) 0.28 Vp-p/75 Ω (S-Video C) 1 Vp-p/75 Ω (Composite)
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Component Video Frequency Response

	5 Hz-50 MHz
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* 1 channel driven

TUNER SECTION

[FM]

Tuning Frequency Range	87.5 MHz-108.0 MHz
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Usable Sensitivity

Stereo	22.2 dBf (75 Ω, IHF)
Mono	15.2 dBf (75 Ω, IHF)

Signal-to-Noise Ratio

Stereo	67 dB (IHF-A)
Mono	73 dB (IHF-A)

Total Harmonic Distortion

Stereo	0.5 %, 1 kHz
Mono	0.3 %, 1 kHz

Frequency Response

	30 Hz-15 kHz±1 dB
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Stereo Separation

	40 dB at 1 kHz
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[AM]

Tuning Frequency Range	522 kHz-1,611 kHz/530 kHz-1,710 kHz
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Usable Sensitivity

	300 μV/m
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Signal-to-Noise Ratio

	40 dB
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Total Harmonic Distortion

	0.7 %
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GENERAL

Power Supply	AC 230-240 V, 50 Hz
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Power Consumption	670 W
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Standby Power Consumption	0.5 W
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Dimensions (W x H x D)	435 x 151 x 377 mm
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Weight	10.2 kg
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SPEAKER SECTION

SPEAKER SECTION

Speaker Type

Front/Center/Surround/Surround Back	2-Way, Bass Reflex
Subwoofer	Bass Reflex Powered

Drivers

Front/Center	12 cm OMF diaphragm woofer x 2 2.5 cm balanced dome, floating tweeter
Surround/Surround Back	8 cm cone woofer 2.5 cm ceramic tweeter
Subwoofer	25 cm cone

Frequency Response

Front/Center	55 Hz-50 kHz
Surround/Surround Back	60 Hz-20 kHz
Subwoofer	25 Hz-150 Hz

Output Sound Pressure Level

Front/Center	86 dB/W/m
Surround/Surround Back	82 dB/W/m

Max. Input Power

Front/Center/Surround/Surround Back	130 W
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Max. Output Power

Subwoofer	230 W
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Nominal Impedance

Front/Center/Surround/Surround Back	8 Ω
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Input Sensitivity/Impedance

Subwoofer	330 mV/100 kΩ
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GENERAL

Dimensions (W x H x D)

Front	157 x 433 x 200 mm
Center	433 x 157 x 200 mm
Surround/Surround Back	175 x 265 x 102 mm
Subwoofer	275 x 473 x 449 mm

Weight

Front/Center	3.8 kg
Surround/Surround Back	1.4 kg
Subwoofer	11.5 kg

Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice. Dolby, Pro Logic, Surround EX and the double-D symbol are trademarks of Dolby Laboratories. DTS, DTS-ES Extended Surround, DTS 96/24 and Neo:6 are trademarks of Digital Theater Systems, Inc. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries. "CinemaFILTER" and "OR-EQ" are trademarks of Onkyo Corporation. All other trademarks and registered trademarks are the property of their respective holders.



Onkyo Corporation 2-1 Nissin-cho, Neyagawa-shi, OSAKA 572-8540, JAPAN Tel: +81-72-831-8136 Fax: +81-72-833-5222 <http://www.onkyo.com/>
Australia: Sole Distributor, Amber Technology Ltd, Unit B, 5 Skyline Place, Frenchs Forest, NSW 2086, Sydney, AUSTRALIA
 Tel: +61-2-9452-8600 Fax: +61-2-9975-1368 <http://www.ambertech.com.au> e-mail: consumer@ambertech.com.au
New Zealand: B&W Loudspeakers (N.Z.) Ltd, 95 Tuam Street, Christchurch, NEW ZEALAND Tel: +64-3-365-5677 Fax: +64-3-366-7853 <http://www.onkyo.co.nz>