

# HT-S4505 5.1-Channel Home Cinema Receiver/Speaker Package


**HDMI**
**DOLBY TRUEHD**
**dts-hd**
**AUDYSSEY 2EQ**  
DYNAMIC VOLUME

**WRAT**  
WIDE RANGE AMP TECHNOLOGY

**CINEMA FILTER**
**192 kHz/24-bit**
**USB**
**RIHD**
**Theater-Dimensional**
**RDS**
**RI**
**Made for**  
iPod iPhone


Color availability depends on region.

## More Reasons to Choose an Onkyo Home Cinema

If the four HDMI® inputs, Audio Return Channel, convenient HDMI-linked set-up display, and Dolby® TrueHD/DTS-HD Master Audio™ decoding haven't already persuaded you, here are three more reasons to consider the HT-S4505 home cinema. Firstly, Onkyo's acclaimed WRAT (Wide Range Amplifier Technology)—formerly a feature offered only on its higher-end models—is now included. This noise-reducing technology contributes to exceptionally good audio performance across a wide dynamic range. Secondly, this model features Audyssey 2EQ®, which calibrates the speakers and amp to match your room's acoustics, thus perfecting the surround sound; and Audyssey Dynamic Volume®, which lowers the volume of irritating commercials while making movie dialogue easier to hear. Thirdly, the active subwoofer is designed for high output and very low power consumption, rounding out a compact, powerful speaker set. All this (and much more) adds up to what we think is the best-value, best-performing, best-equipped home cinema package around for the money.

### HT-R558

#### 5.1-Channel Home Cinema Receiver

- 100 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC); 120 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, JEITA)
- HDMI® Support for 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- 4 HDMI Inputs and 1 Output
- Dolby® TrueHD, DTS-HD Master Audio™, Dolby® Digital Plus, DTS-HD High-Resolution Audio™ Decoding
- Direct Digital Connection of iPod/iPhone via Front-Panel USB Port
- WRAT (Wide Range Amplifier Technology)
- Discrete Output Stage Circuitry
- Overlaid On-Screen Display (OSD) via HDMI
- Audyssey 2EQ® for Room Acoustic Correction
- Audyssey Dynamic EQ® for Loudness Correction
- Audyssey Dynamic Volume® to Maintain Optimal Listening Level and Dynamic Range
- TI Burr-Brown 192 kHz/24-Bit DACs for All Channels
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology for S/PDIF Audio
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Optimum Gain Volume Circuitry
- Advanced 32-Bit Processing DSP Chip
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG

- Advanced Music Optimizer for Compressed Digital Music Files
- Theater-Dimensional Virtual Surround Function
- CinemaFILTER™
- Direct Mode
- Double Bass Function
- Non-Scaling Configuration
- A-Form Listening Mode Memory
- Mass Storage Class USB Memory Playback Capability
- HDTV-Capable (720p/1080i) Component Video Switching (2 Inputs and 1 Output)
- 5 Composite Video Inputs (1 Front/4 Rear) and 2 Outputs
- 3 Digital Audio Inputs (2 Optical and 1 Coaxial)
- 6 Analog Audio Inputs (1 Front/5 Rear) and 1 Output
- Speaker A/B Terminals
- Color-Coded Speaker Terminals
- Headphone Jack
- Crossover Adjustment (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control (Up to 400 ms at 48 kHz)
- Tone Control (Bass/Treble) for Front L/R Channels
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- 40 FM/AM Random Presets
- RDS (PS/RT/PTY/TP) (European Model Only)
- RIHD (Remote Interactive over HDMI) for System Control
- Compatible with RI (Remote Interactive) Dock for iPod/iPhone
- Full-Function RI Remote Control

### HTP-558

#### 5.1-Channel Home Cinema Speaker System

- SKF-558 Full-Range Bass Reflex Front Speakers
  - 8 cm Cone
  - Max. Input Power: 120 W
  - Gloss Finished
  - Wall-Mounting Capability
- SKC-391 Full-Range Bass Reflex Center Speaker
  - 8 cm Cone
  - Max. Input Power: 120 W
  - Gloss Finished
  - Wall-Mounting Capability
- SKC-391C Full-Range Acoustic Suspension Center Speaker (Asian Model)
  - 8 cm Cone x 2
  - Max. Input Power: 120 W
  - Gloss Finished
  - Magnetically Shielded
  - Wall-Mounting Capability
- SKR-558 Full-Range Bass Reflex Surround Speakers
  - 8 cm Cone
  - Max. Input Power: 120 W
  - Gloss Finished
  - Wall-Mounting Capability

Note: All speakers feature an impedance of 6 Ω and color-coded speaker terminals.

#### SKW-558 Bass Reflex Powered Subwoofer

- 16 cm Cone
- Max. Output Power: 80 W (Minimum Continuous Power, 4 Ω, 100 Hz, IEC)
- Gloss Finished
- Down-Firing



# HT-S4505 5.1-Channel Home Cinema Receiver/Speaker Package

## Audio Return Channel and 3D Video via HDMI®

Four HDMI inputs on the HT-S4505's receiver allow seamless integration of high-definition devices such as Blu-ray players, cable/satellite tuners, and gaming consoles. HDMI implementation on this receiver also supports an Audio Return Channel, allowing TV audio to be sent upstream to the A/V receiver. That means you can enjoy television programs in magnificent Onkyo sound. HDMI also supports 3D video and other popular high-resolution formats.

## Direct Digital iPod®/iPhone® Connection for Cleaner Sound

The receiver's front-panel USB port lets you play MP3 and AAC stored on an iPod/iPhone, and MP3, WMA, AAC, and FLAC audio files stored on a flash-memory device using the system's own remote for track selection and playback. Your music will also sound much cleaner and clearer, as the audio signal is transported in digital form (rather than analog) via the direct digital connection.

## WRAT (Wide Range Amplifier Technology) Delivers Higher Fidelity

WRAT is a suite of proprietary technologies Onkyo developed to improve signal-to-noise ratios, and enhance the fidelity of amplified audio. The technologies work to reduce noise across the frequency range, guaranteeing a clear, well-balanced performance. It does this by employing a low negative-feedback amplifier design; using "closed" ground-loop circuitry to cancel noise from individual circuits; and by ensuring high instantaneous-current capability to cancel reflex energy and impedance fluctuations from the speakers.

## Enjoy Lossless High-Definition Movie Soundtracks

The receiver can decode Dolby® TrueHD and DTS-HD Master Audio™—two "lossless" Blu-ray formats that deliver a soundtrack identical to the studio master. The receiver also handles Dolby® Digital Plus and DTS-HD High Resolution Audio™. Dolby Digital Plus is designed to accompany HD video delivered via disc media, television broadcasts, and online content. DTS-HD High Resolution Audio, meanwhile, offers a higher bit and sampling rate than the core DTS technology.

## Convenient Overlaid On-Screen Display via HDMI

The receiver's overlaid On-Screen Display (OSD) feature makes changing the settings on your A/V receiver quick and easy. On-screen set-up menus appear overlaid on the video image you're watching. This means you can adjust the settings immediately, without having to stop the program and switch to a different screen to access menus.

## Audyssey Technologies Optimize Home Cinema Performance

The HT-S4505 comes equipped with three sound-enhancing Audyssey technologies.

(1) **Audyssey 2EQ®** tailors multi-channel audio for your home cinema speaker set-up by measuring three room positions and applying a resolution filter to the satellite speakers to correct for room acoustics.

(2) **Audyssey Dynamic EQ®** maintains a consistent bass response, tonal balance, and surround-sound effect at different volume levels, so you can enjoy the natural dynamics of your content regardless of the volume.

(3) **Audyssey Dynamic Volume®** automatically compensates for volume fluctuations in different audio content—for example, during commercial breaks—while optimizing the dynamic range.

## Active Powered Subwoofer for More Powerful Bass Impact

To take full advantage of the impact of low-frequency sounds in your games, movies, and music, the HT-S4505 employs an active powered subwoofer. This type of subwoofer draws an independent power supply that leaves the AVR free to focus its power on the mid- and high-frequency sounds. This all-new down-firing subwoofer was developed to save energy (and money) by slashing power consumption by 80 percent over the 2011 models.

## Advanced Music Optimizer to Enhance Compressed Digital Music Files

While MP3 or AAC files may sound fine through the headphones of your portable digital player, the limitations of these files can be exposed when played back through a quality home entertainment system. This is because a significant amount of high-frequency bit information is lost during the file-compression process. To counter this, Onkyo has designed the Advanced Music Optimizer to compensate for lost bit information and improve the quality of compressed audio signals. This results in a clearer and more expansive sound.

## Get More Realistic Action with Four Different Gaming Modes

Select from four different optimized audio modes to match your gaming content for a highly realistic surround sound experience. Rock, Sports, Action, and RPG game modes will help to bring out the best in any soundtrack, from subtle ambient effects to thundering explosions.

## SPECIFICATIONS

### A/V RECEIVER

#### Amplifier Section

##### Power Output

Front L/R	100 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
	120 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, JEITA)
Center	100 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
	120 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, JEITA)
Surround L/R	100 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
	120 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, JEITA)

##### Dynamic Power

	160 W (3 Ω, Front)
	125 W (4 Ω, Front)
	85 W (8 Ω, Front)

##### THD+N (Total Harmonic Distortion + Noise)

	0.08% (20 Hz–20 kHz, Half Power)
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##### Damping Factor

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

	200 mV/47 kΩ (Line)
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##### Rated RCA Output Level and Impedance

	200 mV/2.2 kΩ (Rec Out)
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##### Maximum RCA Output Level and Impedance

	2.0 V/2.2 kΩ (Rec Out)
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##### Frequency Response

	5 Hz–100 kHz/±1 dB, -3 dB (DSP Bypass)
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##### Tone Control

	±10 dB, 50 Hz (Bass)
	±10 dB, 20 kHz (Treble)

##### Signal-to-Noise Ratio

	100 dB (Line, IFF-A)
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##### Speaker Impedance

	6 Ω – 16 Ω
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### Video Section

#### Input Sensitivity/Output Level and Impedance

Video	1.0 Vp-p/75 Ω (Component Y)
	0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr)
	1.0 Vp-p/75 Ω (Composite)

#### Component Video Frequency Response

	5 Hz–100 MHz/±0 dB, -3 dB
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### Tuner Section

#### Tuning Frequency Range

FM	87.5 MHz–108 MHz
AM	522 kHz–1,611 kHz
	530 kHz–1,710 kHz

#### FM/AM Preset Memory

	40 Stations
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### General

#### Power Supply

	AC 230V~, 50 Hz
	(Asian Model: AC 220–240V~, 50/60 Hz)

#### Power Consumption

	300 W (Asian Model: 340 W)
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#### Dimensions (W x H x D)

	435 x 150 x 318 mm
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#### Weight

	7.6 kg (Asian Model: 7.8 kg)
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### SPEAKER SYSTEM

#### Speaker Type

Front	Full-Range, Bass Reflex
Center	Full-Range, Bass Reflex
	Full-Range, Acoustic Suspension (Asian Model)
Surround	Full-Range, Bass Reflex
Subwoofer	Bass Reflex, Powered

#### Drivers

Front	8 cm Cone
Center	8 cm Cone
	8 cm Cone x 2 (Asian Model)
Surround	8 cm Cone
Subwoofer	16 cm Cone

#### Frequency Response

Front	80 Hz–20 kHz
Center	80 Hz–20 kHz
Surround	80 Hz–20 kHz
Subwoofer	27 Hz–150 Hz

#### Output Sound Pressure Level

Front	81 dBW/m
Center	80 dBW/m
	84.5 dBW/m (Asian Model)
Surround	81 dBW/m

#### Max. Input Power

Front/Center/Surround	120 W
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#### Rated Output Power

Subwoofer	80 W (Minimum Continuous Power, 4 Ω, 100 Hz, IEC)
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#### Nominal Impedance

Front/Center/Surround	6 Ω
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#### Input Sensitivity/Impedance

Subwoofer	440 mV/20 kΩ
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### General

#### Dimensions (W x H x D)

Front	101 x 175 x 116 mm
Center	240 x 102 x 121 mm
Surround	101 x 175 x 116 mm
Subwoofer	211 x 425 x 391 mm

#### Weight

Front	0.7 kg
Center	0.8 kg (Asian Model: 1.3 kg)
Surround	0.7 kg
Subwoofer	6.1 kg

### CARTON

#### Dimensions (W x H x D)

	566 x 682 x 480 mm
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#### Weight

	21.5 kg (Asian Model: 22.5 kg)
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### Supplied Accessories

- Indoor FM antenna • AM loop antenna • Color-coded speaker cables
- Subwoofer cable • Speaker set-up microphone • Instruction manual
- Quick start guide • Remote controller • AA (R6) batteries x 2

## HT-R558



Front View



Rear View

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