

# HT-S590

HOME ENTERTAINMENT 5.1-CHANNEL RECEIVER/SPEAKER PACKAGE

**ONKYO**  
IMAGINATIVE SIGHT & SOUND



## Packing Everything You Need—Versatility, Simplicity and Quality

Displaying every quality you'd want from a home theater receiver package—versatility, user friendliness, and quality sound—the HT-S590 should be given serious consideration. Versatile in its ability to take all your components for output to HDTV; user friendly in its ease of set-up and operation; and quality in sound from its balanced blend of controlled power and competent digital signal processing. With a combined 720 watts power output, this package packs the drive and power to make your home entertainment a memorable experience. The HT-R340 5.1-channel receiver shares a similar amplification design as Onkyo's separate home theater receivers. Also, the accompanying HTP-340 speaker package's compactness enables you to bring this package to a range of different room sizes.

### Component Video Switching (50 MHz) with Single Connection to HDTV

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. Also, the convenience and simplicity of one component video output fit well with the HT-S590's focus on ease-of-setup.

### Bringing DTS Neo:6 5.1 Decoding for Matrix Surround Sound

DTS Neo:6 is an advanced matrix decoder that takes any two-channel source (including VHS tapes, television broadcasts, CDs and DVDs) and expands it into five or six channels. It also provides separate, optimized modes for stereo music materials and matrix surround motion picture soundtracks. Previously, DTS Neo:6 was only available as part of DTS-ES (6.1 and above systems), and no DTS system existed for 5.1-channel systems. DTS have introduced DTS Neo:6 5.1, which like Dolby Digital's Pro Logic II, brings you a more revealing sound from ordinary stereo and a more expansive home cinema experience.

### Optimum Gain Volume Circuitry

Conventional volume attenuation methods must initially drop a signal close to the noise floor at low volumes. Even though the signal is only tainted with a little noise, the amount increases when the signal is amplified. Onkyo's Optimum Gain Volume Circuitry adjusts the gain so that less than half the amount of attenuation is necessary. This signal never comes close to the noise floor, and thereby eliminates the possibility of noise contamination that plagues conventional volume-attenuation designs.

### 192 kHz/24-Bit Digital-to-Analog Convertors (DACs) for All Channels

The HT-R340 receiver incorporates 192 kHz/24-bit DACs on every channel. With a much higher resolution than the incoming signal, these DACs enable the HT-S590 to generate more accurate audio playback. Also, the DAC's 128x oversampling rate optimizes the signal-to-noise ratio and increases clock jitter tolerance. With Onkyo's emphasis on audio processing with minimal signal noise, the inclusion of quality parts is a definite plus at the entry level.

### CinemaFILTER™ and OR-EQ™ Equalizer

The tonal balance of a film soundtrack will be edgy and "bright" when played back over audio equipment in your home. This is because film soundtracks are designed to be played back in large theaters using different equipment. CinemaFILTER restores the correct tonal balance for watching a movie soundtrack in your smaller home theater. CinemaFILTER can be used with DTS and Dolby listening modes, and is easily activated from your remote control. Also, if you use the OR-EQ equalizer button, you'll get a more powerful direct sound from movie sources.

### Rear Panel with Color-Coded Connections for Ease-of-Setup

To get up and running quickly, coded connections for ease-of-the receiver's rear panel is designed so that you can simply connect to your A/V components and speakers. You'll probably be making use of your component video inputs/output, which are conveniently located on the top left of the rear panel (as are the digital inputs for Dolby and DTS surround signals). You may also use the color-coded 5.1-multichannel inputs (perhaps to experience the splendor of Super Audio CD and DVD-Audio formats) to transfer a 5.1-multichannel signal. Connecting the HTP-340 speaker package is a straightforward exercise with the HT-R340's color-coded speaker terminals.

# HT-S590

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## HT-R340 [5.1-Channel Receiver]

### Amplifier, Processing and Connectivity Features

- 120 watts per channel minimum into 6 ohms, 1 kHz, JEITA
- DTS, DTS Neo:6 5.1, Dolby Digital, Dolby Pro Logic II
- 192 kHz/24-bit DACs for all channels
- HDTV-capable (50 MHz) component video switching (3 inputs/1 output)
- 3 digital inputs (2 optical/1 coaxial)
- 4 composite video inputs and 2 outputs
- 2 audio inputs and 1 output
- H.C.P.S.—high current power supply
- Optimum Gain Volume Control Circuitry
- A-form listening mode memory
- Non-scaling configuration
- OR-EQ equalizer function
- Late night mode (high/low/off)
- Original Onkyo DSP listening modes
- Direct mode
- A/B speaker drive
- Color-coded 5.1-multichannel inputs
- Color-coded speaker terminals

### Other Performance Features

- 30 FM/AM random presets
- "Easy-set" speaker configuration
- 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 (0/20/40 ms)
- Full-function RI (Remote Interactive) remote control

## HTP-340 [Speaker Package]

### SKF-340F 2-Way Bass Reflex Front Speakers

- 8 cm cone woofer
- 2 cm ceramic tweeter
- 120 watts max. input
- Magnetically shielded

### SKC-340C 2-Way Bass Reflex Center Speaker

- 8 cm cone woofer x 2
- 2 cm ceramic tweeter
- 120 watts max. input
- Magnetically shielded

### SKM-340S 2-Way Bass Reflex Surround Speakers

- 8 cm cone woofer
- 2 cm ceramic tweeter
- 120 watts max. input
- \*All speakers feature 6 ohms impedance, color-coded speaker terminals and speaker cable.

### SKW-340 Bass Reflex Subwoofer

- 20 cm cone woofer
- 125 watts max. input
- Color-coded speaker terminals and speaker cables



Full-function RI (Remote Interactive) remote



HT-R340 (front)



HT-R340 (rear)

## SPECIFICATIONS

### RECEIVER SECTION

#### AMPLIFIER SECTION

Power Output	
Front L/R	120 W + 120 W (6 Ω, 1 kHz, JEITA)
Center	120 W (6 Ω, 1 kHz, JEITA)
Surround L/R	120 W + 120 W (6 Ω, 1 kHz, JEITA)
Dynamic Power	
	180 W + 180 W (3 Ω, Front)
	140 W + 140 W (4 Ω, Front)
	95 W + 95 W (8 Ω, Front)
	0.9 % (Rated Power)
THD (Total Harmonic Distortion)	
	60 (Front, 1 kHz, 8 Ω)
Damping Factor	
	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance	
Line	200 mV/47 k-Ω (LINE)
Output Level and Impedance	
Rec out	200 mV/470 Ω (REC OUT)
Frequency Response	
	10 Hz-50 kHz/ + 1 dB, - 3 dB (Direct mode)
Tone Control	
	± 10 dB, 80 Hz (BASS)
	± 10 dB, 20 kHz (TREBLE)
Signal-to-Noise Ratio	
	100 dB (Line in, IHF-A)
Speaker Impedance	
	6 Ω-16 Ω

#### VIDEO SECTION

Input Sensitivity/Output Level and Impedance	
Video	1.0 Vp-p/75 Ω (Component)
	0.7 Vp-p/75 Ω (Component Pe/Ce, Pv/Cv)
	1 Vp-p/75 Ω (Composite)
Component Video Frequency Response	
	5 Hz-50 MHz

#### TUNER SECTION

[FM]	
Tuning Frequency Range	87.5 MHz-108.0 MHz
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
FM Stereo Separation	
	40 dB at 1 kHz
[AM]	
Tuning Frequency Range	522 kHz-1,611 kHz/530 kHz-1,710 kHz
Usable Sensitivity	300 μV/m
Signal-to-Noise Ratio	40 dB
Total Harmonic Distortion	0.7 %

#### GENERAL

Power Supply	AC 230-240 V, 50/60 Hz or AC 220-230 V, 50/60 Hz
Power Consumption	300 W
	330 W (Korean model)
	360 W (Australian model)
Standby Power Consumption	0.5 W
Dimensions (W x H x D)	435 x 150 x 369 mm
Weight	9.6 kg

### SPEAKER SECTION

Speaker Type	
Front/Center/Surround	2-Way, Bass Reflex
Subwoofer	Bass Reflex Passive
Drivers	
Front/Surround	8 cm cone woofer, 2 cm ceramic tweeter
Center	8 cm cone woofer x 2, 2 cm ceramic tweeter
Subwoofer	20 cm cone
Frequency Response	
Front/Center/Surround	80 Hz-22 kHz
Subwoofer	30 Hz-150 Hz
Output Sound Pressure Level	
Front	84 dB/W/m
Center	87 dB/W/m
Surround	83 dB/W/m
Subwoofer	85 dB/W/m
Max. Input Power	
Front/Center/Surround	120 W
Subwoofer	125 W
Nominal Impedance	
Front/Center/Surround	6 Ω
Subwoofer	6 Ω
GENERAL	
Dimensions (W x H x D)	
Front	116 x 218 x 127 mm
Center	300 x 128 x 118 mm
Surround	116 x 218 x 127 mm
Subwoofer	235 x 461 x 410 mm
Weight	
Front	0.9 kg
Center	1.5 kg
Surround	0.7 kg
Subwoofer	8.1 kg

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