

# AVX-390 5.1-CHANNEL HOME CINEMA RECEIVER/SPEAKER PACKAGE



HDMI

DOLBY  
TRUEHD

DTS-HD

AUDYSSEY  
DYNAMIC EQ  
DYNAMIC VOLUMECINEMA  
FILTER

192/24

RIHD

Theater-Dimensional

RDS RI

## A Spectacular Blend of Quality and Value

Onkyo's AVX-390 combines the convenience of a full-featured A/V receiver and surround-speaker set with the quality assurance of one of home cinema's leading brands. Four HDMI® inputs on the receiver deliver music, movies, and games in better-than-ever resolution. As well as handling high-def audio from DTS and Dolby, these HDMI inputs let you enjoy 3D video and an Audio Return Channel from your compatible HDTV. Front-side on the receiver are handy analog audio and video inputs for fuss-free connection of your game console or camcorder. And on the back is a Universal Port that allows you to hook up peripherals such as an optional iPod/iPhone dock. The system packs Audyssey audio filters to optimize the sound for your living room, and user-friendly on-screen menus so you can easily adjust settings without interrupting the action. Rounding out the package are five precision-matched surround speakers and a powerful subwoofer for deep-impact bass and low-frequency effects.

### HT-R390

#### 5.1-Channel Home Cinema Receiver

- 100 W/Ch at 6  $\Omega$ , 1 kHz, 1%, 1 Channel Driven, IEC
- HDMI® Support for 3D, Audio Return Channel, Deep Color™, 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
- TI Burr-Brown 192 kHz/24-Bit DACs for All Channels
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology for S/PDIF Audio
- Audyssey Dynamic EQ® for Loudness Correction
- Audyssey Dynamic Volume® to Maintain Optimal Listening Level and Dynamic Range
- Overlaid On-Screen Display (OSD) via HDMI
- Universal Port for UP-A1 Dock for iPod/iPhone or UP-DT1 DAB+ Radio Tuner
- 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
- EX.Bass for Deeper, More Dynamic Bass

- 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
- 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)
- RDS (PS/RT/PTY/TP)
- 40 FM/AM Random Presets
- RIHD (Remote Interactive over HDMI) for System Control
- Full-Function RI (Remote Interactive) Remote Control

### HTP-344

#### 5.1-Channel Home Cinema Speaker System

##### SKF-344 Full-Range Bass Reflex Front Speakers

- 8 cm Cone
- Max. Input Power: 120 W
- Gloss Finished
- Magnetically Shielded

##### SKC-344 Full-Range Bass Reflex Center Speaker

- 8 cm Cone
- Max. Input Power: 120 W
- Gloss Finished
- Magnetically Shielded

##### SKR-344 Full-Range Bass Reflex Surround Speakers

- 8 cm Cone
- Max. Input Power: 120 W
- Gloss Finished
- Magnetically Shielded

Note: All speakers feature an impedance of 6  $\Omega$ , color-coded speaker terminals and cable, and wall-mounting capability.

##### SKW-348 Bass Reflex Subwoofer

- 16 cm Cone
- Max. Input Power: 130 W
- Down-Firing



# AVX-390 5.1-CHANNEL HOME CINEMA RECEIVER/SPEAKER PACKAGE

## HDMI® Support for 3D Video and Audio Return Channel

The four HDMI inputs on the AVX-390's A/V receiver let you simultaneously connect high-def sources such as a Blu-ray player; a game console, and a cable/satellite tuner. A single output then sends a pristine signal to your connected high-resolution display. The HDMI implementation on this receiver supports both 3D video and an Audio Return Channel. 3D video brings exciting possibilities to home entertainment, with movie, game, and broadcast content on the increase and 3D-compatible TVs coming to market. Meanwhile, the Audio Return Channel allows audio content received directly by your HDTV's tuner to be sent "upstream" via HDMI to your A/V receiver, without the need for a separate S/PDIF audio cable.

## Decoding of High-Definition Surround-Sound Codes

The AVX-390's A/V receiver can decode Dolby® TrueHD and DTS-HD Master Audio™—two lossless formats that enable delivery of a bit-for-bit soundtrack identical to the studio master track. These codecs take advantage of the high data capacity of the Blu-ray Disc format.

## Convenient Overlaid On-Screen Display via HDMI

Changing your A/V receiver's settings is now more seamless than ever, thanks to Onkyo's overlaid On-Screen Display (OSD) feature. 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 switch back and forth from a blank screen background.

## 192 kHz/24-Bit TI Burr-Brown DACs Improve Jitter Performance to Deliver Clearer Sound

High-quality Burr-Brown DACs work to optimize analog audio performance on the AVX-390's A/V receiver. These DACs perform advanced 24-bit signal processing and support sampling rates of up to 192 kHz, while displaying high resistance to clock jitter.

## Audyssey Technologies to Optimize the Listening Experience

The AVX-390 comes with two sound-enhancing Audyssey technologies.

(1) **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.

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

## Universal Port for Single-Cable Connection of Optional Onkyo Dock for iPod/iPhone or DAB+ Radio Tuner

A proprietary Universal Port located on the rear side of the AVX-390's A/V receiver lets you connect an optional UP-A1 Dock for iPod/iPhone or UP-DT1 DAB+ Radio Tuner. A key advantage of the Universal Port is that it accepts video and audio signals through the same cable that sends a power supply from the receiver to the devices. Net result: more connectivity, less cable clutter.

## EX.Bass for Deeper, More Dynamic Bass

Onkyo's proprietary EX.Bass function boosts low-frequency output at two separate points: 40 Hz and 80 Hz. At low volumes, EX.Bass creates a deeper, more dynamic bass sound for your music and movies. When the volume is turned up high, the boosted bass automatically returns to normal levels.

## 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. Also included in this technology is a loudness correction feature that further improves the audio character of compressed files.

## SPECIFICATIONS

### A/V RECEIVER

#### Amplifier Section

<b>Power Output</b>	
Front L/R	100 W/Ch (6 Ω, 1 kHz, 1%, 1 channel driven, IEC)
Center	100 W (6 Ω, 1 kHz, 1%, 1 channel driven, IEC)
Surround L/R	100 W/Ch (6 Ω, 1 kHz, 1%, 1 channel driven, IEC)
Subwoofer	100 W/Ch (6 Ω, 1 kHz, 1%, 1 channel driven, IEC)

<b>Dynamic Power</b>	160 W (3 Ω, Front) 125 W (4 Ω, Front) 85 W (8 Ω, Front)
----------------------	---

<b>THD+N (Total Harmonic Distortion + Noise)</b>	0.08% (20 Hz–20 kHz, half power)
--	----------------------------------

<b>Damping Factor</b>	60 (Front, 1 kHz, 8 Ω)
-----------------------	------------------------

<b>Input Sensitivity and Impedance</b>	200 mV/47 kΩ (Line)
--	---------------------

<b>Rated RCA Output Level and Impedance</b>	200 mV/2.2 kΩ (Rec out)
---	-------------------------

<b>Maximum RCA Output Level and Impedance</b>	2.0 V/2.2 kΩ (Rec out)
---	------------------------

<b>Frequency Response</b>	20 Hz–50 kHz/+1 dB, -3 dB (DSP bypass)
---------------------------	--

<b>Tone Control</b>	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
---------------------	---

<b>Signal-to-Noise Ratio</b>	100 dB (Line, I/HF-A)
------------------------------	-----------------------

<b>Speaker Impedance</b>	6 Ω–16 Ω
--------------------------	----------

#### Video Section

<b>Input Sensitivity/Output Level and Impedance</b>	
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)

<b>Component Video Frequency Response</b>	5 Hz–100 MHz/0 dB, -3 dB
---	--------------------------

#### Tuner Section

<b>Tuning Frequency Range</b>	
FM	87.5 MHz–108 MHz
AM	522 kHz–1.611 MHz 530 kHz–1.710 MHz

<b>FM/AM Preset Memory</b>	40 stations
----------------------------	-------------

## General

<b>Power Supply</b>	AC 230 V~, 50 Hz
<b>Power Consumption</b>	320 W
<b>Dimensions (W x H x D)</b>	435 x 150 x 328 mm
<b>Weight</b>	7.5 kg

## SPEAKER SYSTEM

<b>Speaker Type</b>	
Front	Full-range, Bass reflex
Center	Full-range, Bass reflex
Surround	Full-range, Bass reflex
Subwoofer	Bass reflex

<b>Drivers</b>	
Front	8 cm cone
Center	8 cm cone
Surround	8 cm cone
Subwoofer	16 cm cone

<b>Frequency Response</b>	
Front	80 Hz–20 kHz
Center	80 Hz–20 kHz
Surround	80 Hz–20 kHz
Subwoofer	30 Hz–150 Hz

<b>Output Sound Pressure Level</b>	
Front	81 dB/W/m
Center	82 dB/W/m
Surround	81 dB/W/m
Subwoofer	82 dB/W/m

<b>Max. Input Power</b>	
Front/Center/Surround	120 W
Subwoofer	130 W

<b>Nominal Impedance</b>	Front/Center/Surround/Subwoofer 6 Ω
--------------------------	--

## General

<b>Dimensions (W x H x D)</b>	
Front	101 x 175 x 116 mm
Center	273 x 101 x 106 mm
Surround	101 x 175 x 116 mm
Subwoofer	211 x 425 x 381 mm

<b>Weight</b>	
Front	0.8 kg
Center	1.0 kg
Surround	0.7 kg
Subwoofer	5.5 kg

## CARTON

<b>Dimensions (W x H x D)</b>	566 x 682 x 480 mm
<b>Weight</b>	21.5 kg

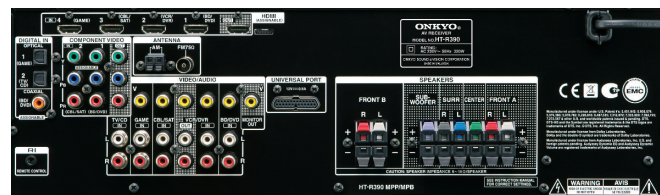
## Supplied Accessories

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

## HT-R390



Front view



Rear view

Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice. Manufactured under license from Dolby Laboratories. Dolby Pro Logic and the double-D symbol are trademarks of Dolby Laboratories. DTS, DTS-HD, and the Symbol are registered trademarks and the DTS logos are trademarks of DTS, Inc. Manufactured under license from Audyssey Laboratories, Inc. U.S. and foreign patents pending. Audyssey Dynamic EQ and Audyssey Dynamic Volume are registered trademarks of Audyssey Laboratories, Inc. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. iPod and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. xxColor is a trademark of Sony Corporation. Music Optimizer, CinemaFILTER, and Theater-Dimensional are trademarks of Onkyo Corporation. All other trademarks and registered trademarks are the property of their respective holders.



Onkyo Sound & Vision Corporation 2-1 Nishin-cho, Nayagawa-shi, Osaka 572-8540, JAPAN Tel: +81-72-831-8136 Fax: +81-72-833-5222 <http://www.onkyo.com/>  
 Onkyo Europe Electronics GmbH Liegertstrasse 6, 82194 Grobenzell, GERMANY Tel: 49-8142-4401-0 Fax: 49-8142-4401-555 <http://www.eu.onkyo.com/>  
 Onkyo Europe UK Office The Coach House, 81A High Street, Marlow, Buckinghamshire SL7 1AB, UNITED KINGDOM Tel: +44(0)1628-473350 Fax: +44(0)1628-401700 <http://www.onkyo.co.uk/>