A/V Surround Receiver

AVR-2307CI

DENON

Custom Integrated Multi Source/Multi Zone 7.1 A/V Surround Receiver features HDMI repeater/conversion, XM-HD Surround and iPod Command and Control Capability.

Audio section

■ Fully discrete 7-channel high power amplifiers

Front	100 W + 100 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Center	100 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Surround	100 W + 100 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Surround Back	100 W + 100 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)

■ High-quality sound reproduction
- New high resolution 32bit floating point DSP
- 96 kHz processing circuit
- 24 bit, 192 kHz capability high resolution D/A conversion

■ Denon's basic design for high-quality sound reproduction
- Power transformer for high power driven
- Twin drive rectifier
- Large aluminum extruded heatsink

■ Wide-Range Play Capability for DVD-Audio and Super Audio CD
The power amp circuits of the AVR-2307CI have been meticulously designed to reproduce the exceptionally high sound quality with wide frequency response from 10 Hz to 100 kHz.

■ Supports the most advanced surround playback formats
- DTS 96/24 Decoding for DVD-Video • DTS-ES Discrete 6.1 and Matrix 6.1
- DTS NEO:6 • DTS • Dolby DIgital • Dolby Digital EX • Dolby Pro Logic IIx

■ Cinema Equalizer

■ Multi Source / Multi Zone
- 2 source 2 zone capability
- Powered Zone2 (Assignable power amp)
- Zone2 line output
- All ch Preout

■ Custom Integrated RS232C serial command control
- Remote in/out IR command control Discrete power on/off, source select and vol ume for main and second zones command.
- IR off, panel lock mode Assignable +12V trigger output

■ Pure Direct mode, for the pure enjoyment of music in high-quality sound

Video section

■ HDMI In/Out terminals and repeater function (Supports 1080p signal)
The AVR-2307CI is equipped with 2 HDMI inputs, as well as 1 output, allowing the selection of multiple digital video signals. The HDMI terminals also accepts multi-channel digital audio input and the input signals can be output via amps.

■ Video Up/Down conversion capable of output to HDMI
The AVR-2307CI includes a video up/down conversion function that allows the unit to be connected to the video monitor via a single cable regardless of the video input signal's format as follows:
1) Composite video signals are converted to HDMI, component video, & S-video;
2) S-video signals are converted to HDMI, component video, & composite video;
3) Component video signals are converted to HDMI

■ Component video circuits which maintain flat response up to 100MHz, ensuring sharp image quality

■ 3 sets of component video inputs

Connectivity/ Expandability

■ ASD-1R Control Dock for iPod® (option): Supports iPod playback when connected to the AVR-2307CI
iPod (*1) playback can be enjoyed through the AVR-2307CI when the ASD-1R, Denon's original Control Dock for iPod (sold separately), is connected to the dedicated control terminal of the AVR-2307CI. The iPod can also be controlled via the remote controller supplied with the AVR-2307CI.

Black version is also available.

*1) Supports 3rd-generation and later iPods equipped with a Dock connector. Some functions may not work depending on the generation of the iPod and the version of the software.

■ XM Mini-Tuner Ready*
(Supports XM 5.1ch surround powered by Neural Audio)
*Optional XM Mini-Tuner and subscribes are required.

■ Auto Setup and RoomEQ with Microphone
The AVR-2307CI includes an Auto Set-up function that performs basic settings for the speakers based on frequency response data for the speakers and the listening room that was measured by a supplied high-performance microphone, and a Room EQ (equalizer) function that optimizes frequency response characteristics for the listening room.

AVR-2307CI

■ **Assignable surround back (L/R) amplifiers for front (L/R) channel bi-amping, or for Multi-zone playback**
Amplifiers initially reserved for Surround back (L/R) channels can be assigned to bi-wire Front (L/R) channels to improve playback quality in the front for enhanced listening enjoyment. Or the amplifiers can be assigned to Zone 2 speakers.

■ **8ch EXT. IN terminal**

Other features

■ **Audio Delay Function (0 - 200 msec.)**
■ **Personal Memory Plus, for Easy Operation**
The AVR-2307CI includes the Personal Memory Plus function that automatically remembers the surround mode you last used for each program source, so that you do not need to select the mode again for that program.
■ **Variable subwoofer crossover switching**
(40/60/80/90/100/110/120/150/200/250Hz)

■ **On Screen Display**
■ **5 Channel/ 7 Channel Stereo Mode**
■ **3 User Mode Buttons**
■ **2-line dot matrix display**
■ **Night Mode for not disturbing others**
■ **Function Rename**
■ **AC Inlet**
■ **Input Function Level**
■ **REC OUT Selector**
■ **Front Panel Inputs (with S-Video, Digital Optical Input)**
■ **Front A/B Speaker Terminals**
■ **New user-friendly remote**
■ **High-grade 7 Channel Speaker Terminals (all ch)**
■ **Frequency Synthesis Tuning**
- **56-Station AM/FM/XM Random Preset Memory Tuning**
- **Auto Preset Memory (AM/FM)**

Input/Output Terminals For Every A/V System

Audio Inputs
- **9 Analog Inputs**
  PHONO, CD, (TUNER), DVD/VDP, TV/DBS, VCR-1, VCR-2, CDR/TAPE, V.AUX(FRONT)
- **8 Analog EXT. Inputs**
  FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER
- **6 Digital Inputs**
  OPTICAL x 4 (incl. FRONT x 1)
  COAXIAL x 2

Audio Outputs
- **1 Analog PRE OUT Terminals**
  7.1 ch
- **2 sets of Analog REC OUT Terminals**
  VCR, CDR/TAPE
- **1 set of Multi-Zone Output**
  ZONE 2
- **1 Digital Output**
  OPTICAL x 1

Video Inputs
- **3 sets of Component Video Inputs**
  VIDEO1, VIDEO2, VIDEO3
- **5 Composite Inputs**
  DVD/VDP, TV/DBS, VCR-1, VCR-2, V.AUX(FRONT)
- **5 S-Video Inputs**
  DVD/VDP, TV/DBS, VCR-1, VCR-2, V.AUX(FRONT)

Video Outputs
- **1 set of Component Video Output**
  MONITOR
- **3 Composite Outputs**
  VCR-1, VCR-2, MONITOR
- **3 S-Video Outputs**
  VCR-1, VCR-2, MONITOR

Specifications

Power Amplifier Section

Rated output	*THD figures are power amp stage values.	
Front	100 W + 100 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	135 W + 135 W	(6 ohms, 1 kHz, 0.7 % THD)
Center	100 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	135 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround	100 W + 100 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	135 W + 135 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround Back		
	100 W + 100 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	135 W + 135 W	(6 ohms, 1 kHz, 0.7 % THD)

Preamplifier Section

Input sensitivity/Impedance	
PHONO(MM)	2.5 mV/47 kohms
CD, DVD/VDP, TV/DBS, VCR-1, VCR-2, CDR/TAPE, V.AUX(FRONT)	200 mV/47 kohms
Output level/Load impedance	
SUBWOOFER	1.2 V/10 kohms
CDR/TAPE, VCR-1, VCR-2	200 mV/47 kohms
Frequency response	10 Hz - 100 kHz (+1, -3 dB) (Tone Defeat On)
Signal-to-noise ratio	100 dB (IHF-A weighted) (Tone Defeat On)
Tone control	Treble: ±6 dB at 10 kHz
	Bass: ±6 dB at 100 Hz

FM Section

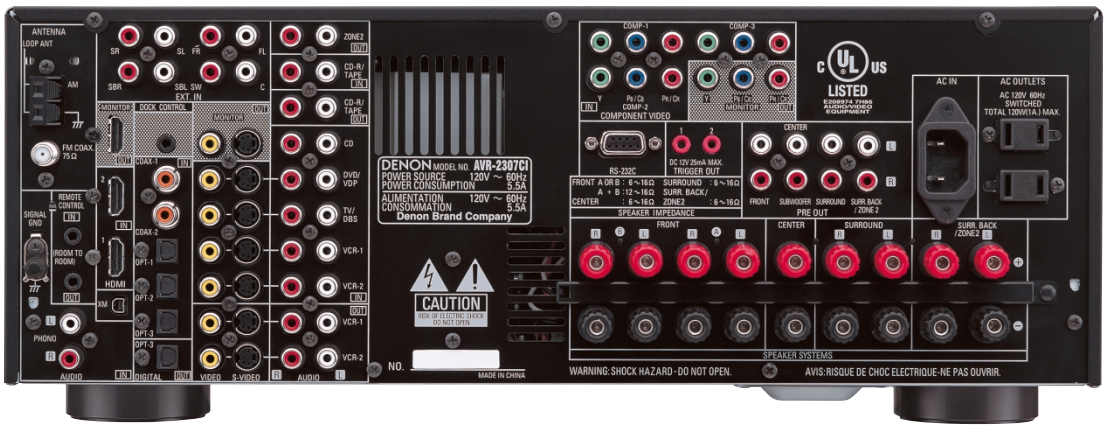
Tuning frequency range	87.5 - 107.9 MHz
Usable sensitivity	1.0 µV (11.2 dBf)

AM Section

Tuning frequency range	520 - 1710 kHz
Usable sensitivity	18 µV

General

Power supply	AC 120 V, 60 Hz
Power consumption	5.5 A
Dimensions	17-3/32" (W) x 6-47/64" (H) x 16-27/64" (D)
	434 (W) x 171 (H) x 417 (D) mm
Weight	29 lbs5oz
	13.0 kg



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