

AVR 1650

5.1-channel, 95-watt audio/video receiver with HDMI® v.1.4a with 3-D and Deep Color and Audio Return Channel

harman/kardon®
by HARMAN

Specifications



■ Harman Kardon AVR 1650

As the perfect A/V receiver for budget-conscious film lovers and audiophiles, the Harman Kardon AVR 1650 has an impressive list of features designed to take your home entertainment to the next level. With all the latest Dolby® and DTS® audio modes and HDMI® v.1.4a with 3-D and Deep Color, the AVR 1650 lets you experience the next dimension in TV viewing – while Logic 7® processing creates an exhilarating 5.1-channel, 360-degree soundstage for your movies, TV shows and games. And with four HDMI inputs, extensive video and audio connectivity, and the ability to connect with The Bridge III for iPod/iPhone playback, the AVR 1650 gives you all the flexibility you need to configure your ideal home theater system.

■ Highlights

- Compatible with HDMI v.1.4a with 3-D, Deep Color and Audio Return Channel
- Powers your entire 5.1-channel surround-sound system
- 95 watts of power per channel
- Dolby TrueHD and DTS-HD Master Audio™ decoding
- Logic 7 processing
- The Bridge III for connectivity
- EzSet/EQ™ technology
- Surround-sound decoding for all popular Dolby and DTS soundtracks
- Four HDMI inputs
- Extensive audio connectivity
- Color-coded binding-post speaker connectors
- Multidevice, programmable remote
- FM stereo/FM/AM tuner

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■ Key Features

Power/Technology

- Powers a 5.1-channel surround-sound system
- 95 watts of power per channel
- High instantaneous-current capability (HCC), ultrawide-bandwidth amplifier design for accurate, dynamic sound and emotional impact
- HDMI v.1.4a with 3-D and Deep Color for playing 3-D content such as movies, TV and sporting events
- Dolby TrueHD and DTS-HD Master Audio decoding for high-resolution sound that matches high-resolution video
- Logic 7 processing turns conventional stereo sources into 5.1-channel surround sound
- FM stereo/FM/AM tuner with 30 station presets
- EzSet/EQ capability automatically adjusts individual speaker volume levels, delay and equalization
- Surround-sound decoding for all popular Dolby and DTS soundtracks
- Lip-sync adjustment delays the audio signal to match the video signal

Connectivity

- Works with The Bridge IIIP (optional) to play entertainment from your iPod or iPhone device on your home entertainment system
- Four HDMI inputs provide extensive connectivity
- One component and three composite video inputs
- Three digital audio inputs and six analog audio inputs
- Front-panel analog audio input makes it easy to connect to portable sources
- Subwoofer pre-out allows for connection to a powered subwoofer
- Color-coded binding-post speaker connectors for secure connections
- Headphone jack with HARMAN headphone surround mode for stereo headphones
- Subwoofer trigger output for compatible subwoofer
- Upgradeable firmware via USB port
- Detachable IEC power cord

Ease of Use

- On-screen display (OSD) makes setting up the receiver easy
- Multidevice, programmable remote controls your entire audio/video system
- Two-line dot-matrix information display lets you listen to music without turning on the TV
- 30 FM/AM radio station presets make it easy to find your favorite station

■ Key Specifications

Audio Section

- Stereo mode continuous average power: 95 watts/channel, 20Hz – 20kHz, <0.07% THD, both channels driven @ 8 ohms
- Multichannel power: 95 watts/channel, 20Hz – 20kHz, <0.07% THD, two channels driven @ 8 ohms
- Bandwidth @ 1W (+0dB/-3dB): 10Hz – 100kHz
- Input sensitivity/impedance (line-in): 200mV/47k ohms
- Signal-to-noise ratio (IHF-A): 100dB
- Adjacent channel separation – Dolby Pro Logic® I/II: 40dB, Dolby Digital: 55dB, DTS: 55dB
- High-instantaneous current capability (HCC): ±25 amps
- Transient intermodulation distortion (TIM): immeasurable
- Slew rate: 40V/μsec

FM Tuner Section

- Frequency range: 87.5MHz – 108.0MHz
- Usable sensitivity (IHF): 1.3μV/13.2dBf
- Signal-to-noise ratio (mono/stereo): 70dB/68dB
- Distortion (mono/stereo): 0.2%/0.3%
- Stereo separation: 40dB @ 1kHz
- Selectivity (±400kHz): 70dB
- Image rejection: 80dB
- IF rejection: 90dB

AM Tuner Section

- Frequency range: 520kHz – 1720kHz
- Signal-to-noise ratio: 45dB
- Usable sensitivity (loop): 500μV
- Distortion (1kHz): 50%, mod 0.8%
- Selectivity (±10kHz): 30dB

Video Section

- Television format: NTSC
- Input level/impedance: 1Vp-p/75 ohms
- Output level/impedance: 1Vp-p/75 ohms
- Video frequency response (composite video): 10Hz – 8MHz (-3dB)
- HDMI v.1.4a with 3-D and Deep Color

General

- Power requirement: AC 120V/60Hz
- Power consumption: 65W idle; 540W maximum (5 channels driven)
- Dimensions (H x W x D): 17-5/16" x 6-1/2" x 15"
- Weight: 20.5 lb