# HARMAN KARDON® AVR 1610

425-watt, 5.1-channel, Roku Ready™ networked audio/video receiver with HARMAN TrueStream, *Bluetooth®* technology and five HDMI® inputs including a Mobile High-Definition Link (MHL) port.

## Transform your living space into your own private screening room.

### Harman Kardon® AVR 1610

Introducing the Harman Kardon® AVR 1610, a powerful and versatile 5.1-channel audio/video receiver designed for those home entertainment enthusiasts who demand great sound and a variety of connectivity options. Equipped with five HDMI® inputs, Apple AirPlay, integrated *Bluetooth®* technology and an MHL input, this high-performance AVR has everything you need and more. Because you have multiple ways to store and access your entertainment, it's important that your audio/video receiver can deliver them. The Harman Kardon AVR 1610 features five 3D-ready HDMI inputs (including one that's MHL-compatible), HARMAN TrueStream, *Bluetooth* technology, EzSet/EQ™ III calibration and compatibility with vTuner™ Internet radio, DLNA® 1.5 networking and the Roku Streaming Stick™ dongle. So whether you're connected via cable or streaming wirelessly, you'll experience high-fidelity audio from this 425-watt, 5.1-channel, networked audio/video receiver. It's even lightweight, thanks to HARMAN GreenEdge™ certification; you'll get all the power you love, in an environmentally friendly form.

## Highlights

- Five 85-watt-per-channel amplifiers with high-performance digital power supply
- *Bluetooth* technology and DLNA 1.5 compliance
- HARMAN TrueStream technology
- Built-in vTuner (Internet radio) streaming
- Five 3D-ready HDMI inputs including one with MHL
- Front-panel USB port for connection to compatible Apple products or USB sticks
- MHL connectivity
- Dolby® TrueHD and DTS-HD® Master Audio decoding
- EzSet/EQ III auto-calibration
- HARMAN GreenEdge technology
- New, compact design
- Color-coded connectors and binding-post speaker terminals
- Multidevice, programmable remote control
- Harman Kardon Remote app for compatible iOS® and Android™ smartphones and tablets

# HARMAN KARDON® AVR 1610

Beautiful sound for your wireless and wired devices.

## Key Features

**Five 85-watt-per-channel amplifiers with high-performance digital power supply**
The AVR 1610 high-performance audio/video receiver pumps out 85 watts per channel to power a full five-channel, networked surround-sound system. It can also connect to a powered subwoofer to provide enhanced low-frequency performance for all your entertainment. While the amplifiers retain the time-tested Harman Kardon® high-current capacity (HCC) ultrawide-bandwidth design to ensure the most accurate, dynamic sound with enhanced clarity and realism – even at the highest listening levels, a digitally based power supply gives the amplifiers all the wattage they need without the weight of traditional power-supply designs and their heavy transformers. The net result is a great-sounding AVR in a small form that is friendly to the environment.

***Bluetooth* technology and DLNA 1.5 compliance**
The AVR 1610 can stream audio from virtually any portable device. You can connect and charge Apple devices, such as an iPad, iPhone or iPod touch, directly to the front-panel USB jack and playback without the need for an external adapter. For other tablets, smartphones and laptops, you can take advantage of the AVR 1610's integrated HARMAN TrueStream, Bluetooth technology. The AVR is also DLNA 1.5 compliant, which gives you more options for delivering content over your home network.

**HARMAN TrueStream technology**
The HARMAN TrueStream guarantee ensures the best possible listening experience when you stream audio wirelessly via *Bluetooth* technology. HARMAN TrueStream tech delivers the most current, most advanced wireless option to ensure the highest-quality sound, no matter what application or source device you use.

**Built-in vTuner (Internet radio) streaming**
The AVR 1610 features vTuner Internet radio to connect you to a whole world of online audio entertainment. As soon as it's out of the box, you can stream over-the-air radio stations from around the globe as well as stream from a wide range of internet-only radio stations.

**Five 3D-ready HDMI inputs including one with MHL**
Five HDMI inputs with 3D and 30/36-bit Deep Color deliver high-definition digital video at resolutions up to 1080p with full-fidelity audio through a single cable. There is no loss of video or audio quality because of format conversion, just full-impact Hollywood excitement as its creators meant you to experience it.

**Front-panel USB port for connection to compatible Apple products or USB sticks**
The AVR 1610 gives you multiple options for audio playback with its front-panel USB port. Simply connect an iPhone, iPad, iPod or USB stick to play your stored tracks through your home entertainment system.

**MHL connectivity**
Whether it's captured by your camera, phone or tablet, or streamed from a Roku Streaming Stick dongle, you can deliver high-definition audio/video content directly to your HDTV via the AVR 1610's MHL connection.

**Dolby TrueHD and DTS-HD Master Audio decoding**
The AVR 1610 delivers high-resolution audio that matches the digital video quality of Blu-ray Disc™ formats, unlocking the full potential of movie soundtracks formatted with Dolby TrueHD and DTS-HD Master Audio coding. No matter what mode or mood you are in, you'll always hear audio playback at its finest.

**EzSet/EQ III auto-calibration**
The new HARMAN EzSet/EQ III auto-calibration process precisely adjusts the AVR 1610's volume levels, speaker distance/delay time settings and equalization to optimize audio performance automatically for your specific speaker system and room conditions. The system features an easy-to-follow menu display and includes a plug-in calibration microphone.

**HARMAN GreenEdge technology**
The HARMAN GreenEdge logo assures you that the AVR 1610's design is environmentally friendly without compromising the premium performance for which HARMAN products are known. Thanks to an advanced power supply, the AVR 1610 can deliver high-quality audio in a small, light chassis that uses less metal and plastic. The small design means that less fuel is used in transportation with the end result being a lower carbon footprint.

**New, compact design**
The AVR 1610 takes the award-winning Harman Kardon look to a new level with a flush volume control and more compact design. Because of the lighter weight made possible by an advanced digital power supply, the unit weighs less without sacrificing performance so that it is the perfect match for the thin glass shelves of today's open TV/entertainment furniture. Color-coded connectors and binding-post speaker terminals All connections on the AVR 1610 are color-coded to simplify hook-up and reduce errors.

**Color-coded connectors and binding-post speaker terminals**
All connections on the AVR 1610 are color-coded to simplify hook-up and reduce errors. Color-coded binding-post speaker terminals on all output channels accept banana plugs, pin connectors or bare wire to provide secure links for your speaker cables.

**Multidevice, programmable remote control**
The AVR 1610 simplifies your life with a programmable infrared (IR) remote control. It works seamlessly with the receiver's multilingual on-screen display, guiding you through system setup and operation with consummate ease. The multidevice remote can also control your TV, cable boxes, satellite tuners and other playback sources. For further installation flexibility, there is a 12-volt trigger output and a remote IR sensor input.

**Harman Kardon Remote app for compatible iOS and Android smartphones and tablets**
Taking control to the next level, the Harman Kardon Remote app is available from the iTunes App Store for iOS devices and the Google Play service for compatible Android products. It will let you use your compatible smartphone or tablet to drive the AVR 1610 without picking up the remote.

# HARMAN KARDON® AVR 1610

All the power you need to enjoy the devices you love.

## What's in the box

- 1 Harman Kardon® AVR 1610 A/V receiver
- 1 programmable remote control
- 1 EzSet/EQ III microphone with 22' (6.7m) cable
- 1 AM loop antenna with 2' (0.6m) cable
- 1 FM antenna with 6' (1.8m) cable
- 2 AAA batteries
- Quick-start guide
- Warranty card
- Safety sheet

## Available Downloads

- Harman Kardon Remote app for compatible iOS products from the iTunes App Store
- Harman Kardon Remote app for compatible Android products from the Google Play service

## Harman Kardon AVR 1610
## Audio Section

- Stereo power: 85W per channel, two channels driven @ 6/8 ohms, 20Hz – 20kHz, <0.1% THD
- Multichannel power: 85W per channel, two channels driven @ 6/8 ohms, 20Hz – 20kHz, <0.1% THD
- Input sensitivity/impedance: 250mV/27k ohms
- Signal-to-noise ratio (IHF-A): 100dB
- Surround system adjacent channel separation:
    - Dolby Pro Logic® /DPLII: 40dB
    - Dolby Digital: 55dB
    - DTS® : 55dB
- Frequency response (@1W): 10Hz – 130kHz (+0dB/–3dB)
- High instantaneous current capability (HCC): ±29 amps
- Transient intermodulation distortion (TIM): Unmeasurable
- Slew rate: 40V/sec

## 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: 80dB

## AM Tuner Section

- Frequency range: 520kHz – 1,610kHz
- Signal-to-noise ratio: 38dB
- Usable sensitivity (loop): 425µV
- Distortion (1kHz, 50% mod): 1.0%
- 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: Supports up to 4K x 2K

## General Specifications

- Power requirement: 120V AC/60Hz
- Power consumption: <0.5W (standby); 450W maximum
- Dimensions (H x W x D): 4-3/4" x 17-5/16" x 11-13/16" (121mm x 440mm x 300mm)
- Weight: 10lb (4.6kg)

**Go online to register your purchase and access tips that will show you just how beautiful sound can get.**

**www.harmankardon.com/registermyproduct**