

5.1-channel AVENTAGE Network AV Receiver designed for high sound quality with Anti-Resonance Technology and high grade aluminium front panel. Advanced features include HDMI for 4K Ultra HD content support, Wi-Fi and *Bluetooth*[®] Built-In and High Resolution audio playback support.



Audio Features

- 5-channel powerful surround sound
80W per Channel (6 ohms, 20 Hz-20 kHz, 0.09 % THD, 2 ch driven)
115W per Channel (6 ohms, 1 kHz, 0.9 % THD, 1 ch driven)
135W per Channel (6 ohms, 1 kHz, 10 % THD, 1 ch driven)
- HD Audio format decoding: Dolby TrueHD and DTS-HD Master Audio
- Extra 5th foot with Anti-Resonance Technology (A.R.T. Wedge) to reduce Vibration
- Aluminium Front Panel Offers Visual and Aural Benefits
- Selected high quality parts to achieve optimum audio performance
- Direct Mode for high quality sound reproduction
- Burr-Brown 192 kHz/24-bit DACs for all channels
- Low jitter PLL circuitry helps optimise sound imaging
- DSD 2.8MHz/5.6MHz audio playback
- FLAC or WAV 192kHz/24-bit audio playback
- Apple Lossless audio playback
- Compressed Music Enhancer for *Bluetooth*

Video Features

- 4K Ultra HD pass-through for super high resolution images
- HDMI (6 in/1 out) with HDCP2.2(1 in/1 out), 3D and Audio Return Channel
- Supports Deep Colour (30/36 bit), x.v.Colour, 24 Hz Refresh Rate and Auto Lip-Sync compensation

Advanced Features

- *Bluetooth* for wireless music streaming (SBC/AAC)
- Network functions
 - Wi-Fi Built-in (802.11b/g/n)
 - Easy Wi-Fi setup i.e. iOS Wi-Fi settings sharing, WPS etc.
 - AirPlay[®] allows music streaming from Mac, PC, iPod, iPhone, iPad
 - AV Controller app for operating various functions from iOS or Android smartphones and tablets
 - Access to: Internet Radio (vTuner): MP3, WMA Streaming Services (Pandora[®], Spotify[®]) Music files on PC/NAS: WAV, MP3, WMA, AAC, FLAC, Apple Lossless, AIFF, DSD
 - DLNA 1.5 certified

- Gapless playback compatibility allows play without interruption
- Front panel USB Digital Connection for iPod and iPhone
- Multi language colour OSD for improved visibility
- HDMI CEC with versatile control from AV Receiver remote control
- YPAO sound optimisation for automatic speaker setup
- Ability to change HDMI input while in Standby Through mode
- Audio Delay for adjusting Lip-Sync (0-500 ms)
- Background Video feature (for Radio/USB/*Bluetooth*/NET/AUX input)
 - Quick and simple to use
 - HDMI CEC powers up compatible TVs and Blu-ray Disc[™] players

Surround Realism

- HD Audio decoding with CINEMA DSP 3D (17 DSP programmes)
- Compressed Music Enhancer with CINEMA DSP
- Virtual Presence Speaker function for CINEMA DSP 3D surround without Front Presence Speakers
- Virtual CINEMA FRONT provides virtual surround sound with 5 speakers in front
- Extra Bass enriches the powerful bass sound even with small speakers
- Adaptive DRC (Dynamic Range Control) and Adaptive DSP level
- SILENT CINEMA to enjoy surround sound with headphone

Eco-Friendly Design

- ECO mode operation for about 20%* less power consumption
*Compared to power consumption when ECO mode is off (Yamaha measurement)
- Auto power standby function with variable time setting
- Low standby power consumption of 0.1W

Powered by music

Optimum Audio Quality Design Concept

The AVENTAGE line of high-performance AV receivers is based on the audio design concept of "uncompromising excellence." By combining traditional and innovative technologies, and including superior low jitter clock for network sources, selective audio parts, an A.R.T. Wedge foot and an aluminium front panel, every factor that affects sound quality is optimised for superb musical performance.



Wireless Audio Streaming and Hi-Res Audio

Bluetooth support gives you the convenience of wireless music playback, while Wi-Fi Built-in improves installation flexibility. These two features provide easy access to countless music sources. In addition, compatibility with FLAC/WAV/AIFF 192kHz/24bit, Apple Lossless and DSD 2.8MHz/5.6MHz formats means that you can easily play high resolution audio from a networked NAS, PC or USB.



4K Ultra HD Support with 4K60p, HDCP2.2

This unit completely supports with the latest HDMI standards. It can perform 4K Ultra HD upscaling to boost a lower resolution image and supports 4:2:0 video signal for more vibrant and lifelike images, so you can fully enjoy the high definition video quality of 4K. It also adheres to the HDCP2.2 copyright protection standard for 4K video transmission. Multiple HDCP2.2 compliant inputs and outputs design (1 in / 1 out) is ready for future system expansion.

4K Ultra HD SUPPORT

- 4K Video at 60 Frames per second support (4:2:0)
- HDCP 2.2 Input / Output
- 4K Upscale



Main Specifications

Audio Section	
Rated Output Power (6 ohms, 20 Hz-20 kHz, 0.09% THD, 2 ch driven)	
Front L/R	80 W + 80 W
Rated Output Power (6 ohms, 1 kHz, 0.9% THD, 1 ch driven)	
Front L/R	115 W + 115 W
Centre	115 W
Surround L/R	115 W + 115 W
Maximum Effective Output Power (6 ohms, 1 kHz, 10% THD, 1 ch driven)	
Front L/R	135 W + 135 W
Centre	135 W
Surround L/R	135 W + 135 W
Dynamic Power/Ch (Front L/R, 6/4/2 ohms)	
	110/130/160 W

General

Standby Power Consumption	
HDMI Control off, Standby Through off	0.1 W
HDMI Standby Through on	1.5 W
Network Standby on	2.0 W (Wired)
Dimensions (W x H x D)	
	435 x 161 x 327 mm (with antenna up: 435 x 221 x 327 mm)
Weight	
	8.1 kg



European Model

Extensive Connections

Inputs	
HDMI (Audio Input Assignable, HDMI6:HDCP2.2 compatible)	6
Network (Ethernet / Wi-Fi)	1 / 1
USB*1	1
Radio Antenna*2 (FM / AM)	1 / 1
Optical Digital	1
Coaxial Digital	2
Analogue Audio*1 (incl. Mini Jack Input)	4
Component Video (Audio Input Assignable)	2
Composite Video (Audio Input Assignable)	4

*1 Including front panel terminals.

*2 The shape of the FM antenna terminal varies according to area.

Outputs

HDMI (HDCP2.2 compatible)	1
Component Video Monitor	1
Composite Monitor	1
Speaker*3 (without subwoofer)	5ch
Subwoofer	1
Headphone Jack	1

*3 Banana-plug compatible speaker terminals are available in some areas.

• "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. AirPlay®, iPad, iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. • The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Yamaha Corporation is under license. Other trademarks and trade names are those of their respective owners. • Spotify and Spotify logo are registered trademarks of the Spotify Group. • Pandora and Pandora Internet Radio logo are registered trademarks or trademarks of Pandora Media, Inc. in the United States and/or other countries. • The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance. The Wi-Fi Protected Setup Identifier Mark is a mark of the Wi-Fi Alliance. • DLNA™ and DLNA CERTIFIED™ are trademarks or registered trademarks of Digital Living Network Alliance. All rights reserved. Unauthorized use is strictly prohibited. • Dolby, Pro Logic, and the double-D symbol are registered trademarks of Dolby Laboratories. • For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS Licensing Limited. DTS, DTS-HD, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS-HD Master Audio is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved. • 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. • Burr-Brown products are trademarks of Texas Instruments, Inc. • "x.v.Colour" is a trademark of Sony Corporation. • CINEMA DSP is a trademark of Yamaha Corporation. • SILENT CINEMA is a trademark of Yamaha Corporation. • Product designs and specifications are subject to change without notice.