

marantz®



AV7706

11.2Ch 8K Ultra HD AV Surround Pre-Amplifier with HEOS® Built-in and Voice Control

Featuring 11.2 channel XLR and RCA pre-outs, the Marantz AV7706 supports all 3D audio formats including Dolby Atmos®, Dolby Atmos Height Virtualization, DTS:X®, DTS Virtual:X™, IMAX Enhanced®, and Auro-3D®. Enjoy audio playback with exceptional quality thanks to Marantz-proprietary HDAM modules and stream from Amazon Music HD, Pandora, Spotify, TIDAL, Deezer, and more with HEOS® Built-in.

- 11.2 channel XLR pre-out; 11.2 channel RCA pre-out
- 8K/60Hz and 4K/120Hz pass-through support for every entertainment need: 8 HDMI inputs (incl. 1 front) with full HDCP 2.3 support; 3 HDMI outputs (incl. Zone 2)
- With 8K/60Hz pass-through and upscaling, Dynamic HDR and Quick Media Switching (QMS), enjoy the smoothest, crystal-clear picture quality available
- With 4K/120Hz pass-through, Variable Refresh Rate (VRR), Auto Low Latency Mode (ALLM) and Quick Frame Transport (QFT), experience gaming thrills with amazing imaging with reduced lag and tearing
- The latest HDR format support including HDR10, HDR10+ (New in 2020), HLG, Dolby Vision, 4:4:4 color resolution and BT.2020, as well as Dynamic HDR (New in 2020) provides exceptional brightness, clarity, and contrast for miraculous picture quality
- Advanced video processing with analog to HDMI conversion; SD to HD/8K upscaling
- Dolby Atmos®, Dolby Atmos Height Virtualization Technology, DTS:X®, DTS Virtual:X™, IMAX® Enhanced, and Auro-3D® processing for exceptional listening in all your favorite audio styles
- eARC (Enhanced Audio Return Channel) supports the most advanced surround and object-based audio formats via single HDMI connection between AVRs and compatible TVs
- Stream music from Internet Radio, Spotify Connect, Pandora, SiriusXM, Amazon Music HD, TIDAL, Deezer and more with Bluetooth, AirPlay 2 and HEOS® Built-in
- Built-in Wi-Fi with 2.4GHz/5GHz dual band support
- Enjoy multi-room whole-home audio streaming with HEOS® Built-in technology
- Simply use your voice to control your preferred voice assistant like Amazon Alexa, Google Assistant, Apple Siri and Josh.ai
- Decodes ALAC, FLAC and WAV lossless files up to 24-bit/192-kHz; DSD 2.8MHz and 5.6MHz tracks — enjoy your music exactly as the artist intended
- Marantz proprietary HDAM circuit boards, Current Feedback circuitry, AKM AK4458 32-bit D/A converters, and Hybrid PLL Clock Jitter Reducer for more detailed, dynamic sound
- Suite of Audyssey room correction software: Audyssey MultEQ XT32, Dynamic Volume and Dynamic EQ, LFC, and Sub EQ HT
- Third-party integration and IR remote control, RS-232C serial port, and custom install support
- Seamless out-of-the-box experience with Quick Start Guide, guided Setup Assistant, and Marantz AVR Remote App

Modern Musical Luxury



AV7706

Technical Specs



Multichannel surround	
DTS HD Master / DTS:X / DTS:X Pro	•/•/-
DTS Neo:X / DTS Neural:X	-/•
DTS Virtual:X	•
IMAX Enhanced	•
Dolby TrueHD / Dolby Atmos / Dolby Atmos Height Virtualization	•/•/•
Dolby ProLogic IIz / Dolby Surround	-/•
Auro 3D	•
Multichannel Stereo	•
max. number of processing (preamp) channels	11.2
Sound Enhancements	
Copper plated chassis	-
Power Transformer: Toroidal / EI	-/•
Current Feedback Topology	•
Hyper Dynamic Amplifier Modules (HDAM)	•
Pure Direct	•
Gold plated RCA terminals	•
Clock Jitter Reducer	•
Audyssey	MultEQ XT32
Audyssey Dynamic EQ / Dynamic Volume	•/•
Audyssey LFC	•
Compressed audio Enhancer: MDAX2	•
Network	
HEOS Multi-room and Streaming	•
Bluetooth Re-transmit for Bluetooth headphones	•
Alexa / Google Voice Assistant / Apple HomePod	•/•/•
Network Audio Sharing	•
Lossy Formats: MP3 / WMA / AAC	•/•/•
Lossless Formats: FLAC / ALAC / WAV	•/•/•
Lossless formats: FLAC HD 192/24 / WAV 192/24 / ALAC 192/24	•/•/•
DSD Audio Streaming	•(2.8/5.6MHz)
FLAC HD 192/24	•
WAV 192/24	•
ALAC 192/24	•
Gapless Playback	•(FLAC, WAV, ALAC, DSD)
AirPlay Audio Streaming	•(AirPlay2)
Internet Radio	•(TuneIn)
Spotify*	•(connect)
Pandora	•
SiriusXM	•
Other Streaming Services *	Amazon Music HD / Amazon Music TIDAL / Deezer / iHeart Radio / Napster / Soundcloud / Mood Mix
Compatible with Remote APP for Smart Phones	Marantz 2016 AVR Remote
Compatible with Remote APP for Tablets	Android / iOS / Amazon Kindle
Ethernet Ports	•
Wi-Fi	•
Bluetooth	•
HDMI	
HDMI Inputs: Back / Front	7 / 1
HDCP2.3 support	•
HDMI Outputs: Main / Zone	2 / 1
Video Conversion Analog -> HDMI	•
Analog to HDMI scaling	480/576i up to 8K 60/50
HDMI to HDMI scaling	up to 8K 60/50
GUI Overlay on HDMI	•
8K/60Hz / 4K/120Hz	•/•
3D / 4K / CEC / ARC /	•/•/•/•
Enhanced ARC	•
HDR / HLG / Dolby Vision / HDR10+ / Dynamic HDR	•/•/•/•/•
ALLM (Auto Low Latency Mode) Pass-through for gaming	•
Variable Refresh Rate / Quick Flame Transport / Quick Media Switching	•/•/•
3D signal pass-through	•
8K signal pass-through / scaling / GUI overlay	•/•/•
4K signal pass-through / scaling / GUI overlay	•/•/•
HDMI pass-through in standby mode	•
Picture adjust / Noise reduction	•/•
CEC	•
DSD Audio capability	•
Audio Return Channel	•
Auto LipSync	•

Multiroom / CI	
HEOS Multi-Room Integrated	•
HEOS Link Compatibility: IR/ IP	•/•
Multi-Room zones	3
Zone Audio Source: HDMI / Opt, Coax / Network, USB / Analog	•(2ch) / •(2ch) / •/•
Zone Audio Output: Speaker / Preout	-/•
Zone HDMI Output from HDMI Source	•
IP Control / RS232 Control / Web Control / App Control	•/•/•/•
IR Flasher In	•
Marantz Remote Bus	•
DC Trigger Output	2
HDMI Diagnostics	•
Others	
Auto Speaker Setup by Microphone	Audyssey MultEQ XT32
FL Display	2 lines + Port Hole
Graphic User Interface - GUI	Advanced
ISF Certification	•
GUI Languages	3
Setup Assistant	•
Smart Select	•
Firmware Update by Network / USB	•/•
Variable Cross Over	•
Optimized Bass Redirection	•
Bass Sync	•
ECO Mode	-
Auto Power Off	•
Sleep Timer	•
Video Inputs/Outputs	
Composite In / Out	3+1 / 2
Component In / Out	3 / 1
HDMI In / Out	7+1 / 3
Multi-Room Video Out: Video / HDMI	•/•
Audio Inputs/Outputs	
Analog In / Out	5+1 / -
Phono (MM) In	•
Digital In: Optical / Coaxial	2 / 2
Multi-Room Out: Analog / Digital	2 / -
Multichannel Pre Out	•(11.2 RCA & 11.2 XLR)
Subwoofer Out	2 (independent)
7.1 Multichannel Input	•
Other	
Speaker A / B	assignable pre out
Bi-amp drive	assignable pre out
Multi-Room Speaker Terminal	pre out
Front Inputs: Audio / Composite / Digital (Opt) / HDMI / USB	•/•/-/•/•/•
USB Audio / Made for iPod / Made for iPhone	•/•/-/-
AM/FM Tuner	•
General	
Metal Front Panel	•
System Remote Control	RC044SR
Pre-Programmed / Learnable / LCD Display	•/•/-/-
Power Consumption in W	60
Power Consumption No-Sound (ECO on / off) in W	-
Standby Consumption in W	0.2
CEC Standby Consumption in W	0.5
Network Standby Consumption in W	3.5
Network Control On Consumption in W	
Maximum Dimensions	
Antenna:Horizontal:(W x D x H)	17.3 x 16.2 x 7.3
Antenna:Vertical:(W x D x H)	17.3 x 16.2 x 9.7
w/o Antenna:(W x D x H)	17.3 x 15.8 x 7.3
Weight in LBS	22.9

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