ANTHEM®

Demand Excellence, Demand Anthem.

AVM 90 19 Channel A/V Pre-Amplifier/ Processor

-35.0

AVM 90

DOLBY ATMOS | IMAX ENHANCED | dts X | HDMI | ARC Genesis

Chromecast built-in

Introducing the AVM 90. Our most advanced and sophisticated audio-video processor to date.

Every aspect of its design was scrutinized, every component carefully considered and reconsidered. It's the culmination of everything we know and unlike anything you've ever heard. Meet our embodiment of excellence, meet AVM 90.

MAIN FEATURES

All-New Electronics Platform, with Anthem Room Correction up to 19 channels, HDMI 2.1, HDCP 2.3 supporting 8K/60Hz or 4K/120Hz

Reliable Networking Platform with web-based setup and over-the-air updates

Next-Generation DSP Platform with 64-bit floating-point data processing and dual precision states

Platform Agnostic Streaming with Google Chromecast *(Audio),* AirPlay 2 *(Audio)*, Bluetooth v4.2, Spotify Connect, and Roon *(Coming Soon!)*

Modernized Design with high-resolution front panel display

MM Phono Stage

Upgraded Audio Circuitry

EXCLUSIVE FEATURES

Reference quality 32-Bit 768kHz DACs

Flagship electronics platform featuring upgraded audio circuitry, up to 19 channels

Ultra-low noise linear regulators

Custom Oversized High-Efficiency Toroidal Power Supply

Premium high-layer count circuit boards with isolating ground planes

Ultra-low noise high output OP-Amps
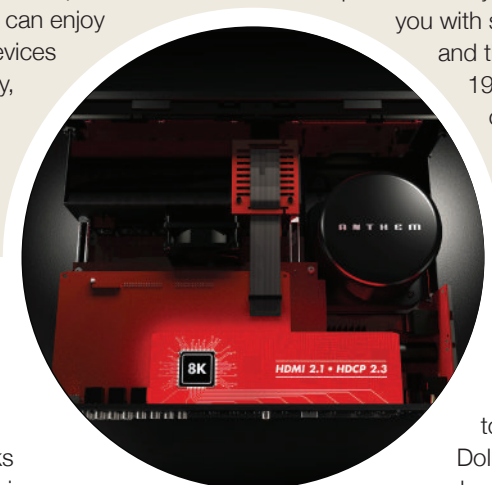
Superior 0.1% High Precision Resistors

Four Independent sub outputs allow ARC Genesis to correct multiple subs individually for frequency response, time, and phase alignment.

Works with Apple AirPlay | Chromecast built-in | ARC GENESIS | DOLBY ATMOS | IMAX ENHANCED | dts X | WiFi CERTIFIED | Bluetooth® | HDMI | COMPATIBLE DOLBY VISION | 24-bit/192 kHz compatible

Advanced 8K HDMI Platform

Feel the power of every frame with the AVM 90 and its advanced 8K HDMI 2.1 Platform with HDCP 2.3. Showcasing 7 dedicated HDMI 2.1 inputs supporting 8K/60Hz or 4K/120Hz pass-through and 3 HDMI outputs with eARC, you can enjoy 8K quality video from all of your 8K source devices in amazing clarity. The latest HDMI technology, allows you to take your home entertainment to the next level with HDR10+, ALLM, VRR, QMS and QFT support.

Experience Gaming Like Never Before

Supporting the next generation of A/V formats, the AVM 90 unlocks the potential of the latest generation of consoles. Experience every sight, every sound, as the AVM 90 immerses you with stunning picture up to 8K/60Hz (4K/120Hz), and the latest generation audio formats in up to 19-channels (15.4) the AVM 90 defines state-of-the-art gaming performance. Advanced processing precisely positions every sound with breathtaking realism and clarity.

Flexible Streaming

The AVM 90 includes a robust set of streaming options that can pull your music in from local storage or from the internet. Thanks to Anthem's high-speed processing and premium digital-to-analog conversion using high-end DACs, sound quality can be every bit as good as dropping a CD into a dedicated disc player. In some cases, high resolution streams can sound even better than CDs, approaching the quality of SACD, DVD-A, and Blu-ray audio.

Limitless Possibilities

Today's premium home theaters support up to 15 speakers and four subwoofers to handle Dolby Atmos and DTS:X object-oriented audio codecs. Pair the AVM 90 Processor with a stack of MCA amplifiers, and you'll hear sound that rivals the best cinemas. MCA's scalability means you can purchase only the channels you need to power your home entertainment system. The AVM 90 manages configurations up to 19-channels (15.4) with ARC Genesis ensuring the best possible sound at every seat.

ARC® GENESIS

The Power to Engineer Your Room with Anthem Room Correction (ARC)

At Anthem, we like to take things one step further. Rather than just designing a processor, we want to engineer your room. With the most advanced implementation of our award-winning ARC Genesis room correction, professional calibration of your system can be achieved with the click of a button while still offering advanced functionality to refine the sound to your personal taste.

Sound in Disorder

Surfaces such as windows, furnishings, and the geometry of the walls, floor, and ceiling add unwanted resonance and coloration, making the bass either boomy or less punchy, voices less natural, and the dialogue less intelligible.

Sound in Order

Anthem Room Correction measures each speaker's output relative to the listening area, then through a series of calculations, adjusts its output. Not only does ARC correct peaks and dips in a speaker's frequency response, but it also preserves the beneficial acoustic attributes of a room.
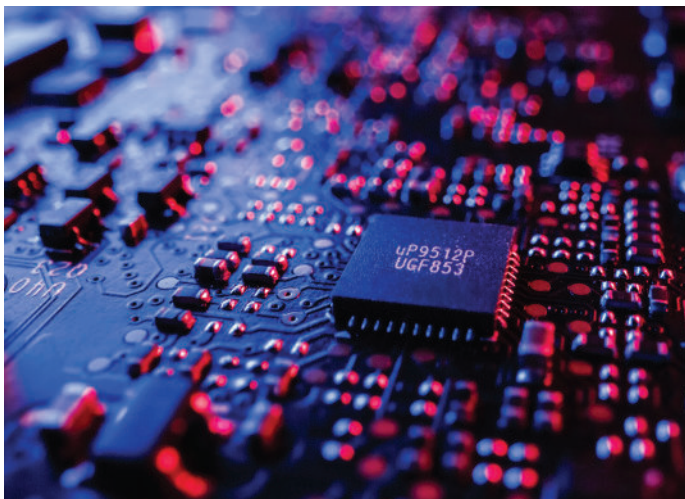
Perfect Harmony

It's not about a single component, single feature or piece of software; it is about the totality of our design—everything working together in perfect harmony to deliver a performance that genuinely transcends the listening experience.

Setting the standard for over 20 years, we knew that it would take something extraordinary to push the boundaries of performance even further. So every aspect of the design was scrutinized, every component carefully considered and reconsidered. We started with an oversized high-efficiency toroidal power supply, isolating the high power signals from the sensitive audio pathway. The critical conversion from digital to analog utilizes the highest performance ESS Sabre DACs for all 19 channels (15.4) of processing.

But reference DACs aren't enough; we know the entire signal path needed to be upgraded to match. So hand-selected ultra-low noise linear regulators were substituted. Customized for audio applications, the revolutionary dual regulator design provides the low noise, low distortion outputs necessary for driving reference audio converters. As the complexity increased, it became necessary to implement premium high-layer count circuit boards with additional isolating ground planes. This allowed our engineers the freedom to ensure every channel has a unique and pristine signal path. Ultra-low noise high output op-amps were carefully selected, and superior 0.1% high precision resistors were used to reduce distortion further and ensure gain consistency between channels.

After hearing the AVM 90 for the first time, we knew that we had exceeded every expectation. Rendering the signal with such vividness, such stunning clarity, you'll want to reach out and touch it.

Smart Engineering

At Anthem, we have a straightforward goal – to design, engineer and manufacture audio/video products that deliver performance and convenience at a reasonable price. We do this by spending thousands of hours selecting and testing components, carefully designing our own circuit topologies, and backing them with robust power supplies that ensure maximum long-term quality and reliability.

Integration Ready

At Anthem, we pride ourselves on playing nice with others, no matter the ask. As a result, we've made the Anthem AVM 90 the ultimate nerve center for any home theatre or media room by treating ease of integration as a top priority. The Anthem AVM 90 features RS232 Serial and IP control capabilities for easy customization and compatibility with common third-party integration solutions.

TECHNICAL SPECIFICATIONS

AVM 90 19 Channel (15.4) A/V Pre-Amplifier/Processor

PREAMPLIFIER CHANNELS	
Maximum Output (<0.1% THD)	10.7 VRMS, Subwoofer 11 VRMS
Frequency Response	20 Hz — 35 kHz (+/-0.2dB)
Frequency Response, Analog-Direct	20 Hz — 80 kHz (+0, -2 dB)
THD+N (4 Vrms output) *†	-100 dB
S/N Ratio (4 Vrms output, IEC-A filter)	110 dB
XLR Configuration	Pin 1: Ground, Pin 2: Positive, Pin 3: Negative

POWER CONSUMPTION	
Typical Load	60 W
Standby	0.3 W
Standby IP Control Enabled	1.8 W
Standby	0.3 W

DIMENSIONS	
Height (without feet) *	6" (15.24 cm)
Height with Rackmount Kit	4U
Width	17" (43.18 cm)
Depth	14-1/2" (36.4 cm)

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