



RMC-1 16 channel Atmos and DTS:X Cinema Processor

The RMC-1 is based on a new hardware platform, which combines powerful new cutting-edge processor technology with painstaking analogue circuit design to deliver the best possible audio performance. Running on this hardware platform, our proprietary operating system powers the menu system and all of the advanced control logic. First introduced to on the XMC-1, this technological innovation takes the RMC-1 to the next level, with the latest 4k HDR and Dolby Vision UHD video switching capabilities, improved audio decoding and processing, the latest digital to analogue conversion hardware, more channels to fully support the latest object-oriented surround sound formats, and even more room for future expansion and upgrades. The RMC-1, the ultimate expression of our new design philosophy, is finally ready to be unveiled.

Features

True Audiophile Sound Quality

- Highest quality audio decoding for the latest Dolby Atmos and DTS:X object oriented surround sound formats and high resolution surround sound formats like Dolby TrueHD and DTS-HD Master Audio
- Support for stereo and surround sound PCM digital audio via HDMI
- Native support for stereo and surround sound DSD digital audio via HDMI, and for both single-rate and double rate stereo DSD audio via USB
- Audiophile grade AKM4490 Verita DACs, operating in fully balanced Mono mode, on all 16 Main Zone outputs. (Independent AKM4490 DAC for Zone 2)
- Exclusive Dirac Live™ for Emotiva automatic room correction system
- High performance digital AM/FM tuner

Assembled in the USA with Globally Sourced Components

FIVE YEAR WARRANTY



Features

Flexible Audio Input and Output Options

- Supports HDMI audio, analogue audio, AM and FM radio, digital S/PDIF and USB PCM audio, and both single and double-rate DSD digital audio
- Independent audio input selection for each video input
- Second audio zone with separate DACs and source selection

Flexible Audio Control Options

- Support for up to three separate subwoofers, with independent level, distance, room correction, and EQ settings for each
- Advanced bass management with fully independent crossover settings for each speaker group
- Two sets of fully independent 11-band manual parametric speaker EQ settings
- Global Bass and Treble controls with user-selectable turnover points (independent from more complex EQ settings)

Support for the Latest Surround Sound Audio Modes

- The RMC-1 will automatically detect how the audio on each source you play is encoded and select the optimum mode to use to decode it. Decoded audio will then be optimised for your unique system configuration. All automatic processing modes can be manually overridden and default modes reconfigured to suit your listening preferences
- Support for Dolby Atmos (up to 9.1.6), Dolby TrueHD (up to 7.2), Dolby Digital Plus, Dolby Digital, DTS:X (up to 7.1.4), DTS-HD Master Audio, DTS-HD High Resolution Audio, DTS 5.1, Stereo and Multi-Channel PCM, Stereo and Multi-Channel DSD
- Support for the latest digital post processing modes: Dolby Surround, DTS Neural:X

Cutting Edge Video Switching

- 18 Gbps video bandwidth with bit-perfect signal switching on all HDMI inputs and outputs. Supports formats up to 4k UHD 50/60Hz 4.4.4 with HDR, HDR10, and Dolby Vision
- ARC (Audio Return Channel) and CEC support on primary output
- Unique Video On Standby option allows both audio and video to be routed directly to your display when the RMC-1 is turned off.

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Inputs / Outputs

Analogue Audio Inputs:

- (1) pair; stereo: Reference quality analogue audio (balanced XLR)
- (3) pairs; stereo: Reference quality analogue audio (unbalanced; machined gold-plated RCA connectors)

Analogue Audio Outputs:

- (1) set; 16 channels: Main analogue audio outputs (balanced XLR)
- (1) pair; stereo: analogue line level Zone 2 output (unbalanced)
- (1) high quality 1/8" stereo headphone output

Digital Video Inputs and Outputs:

- (8): HDMI digital video inputs: HDMI 2.0b with HDCP 2.2 (all inputs support HDMI 2.0b and HDR, including dynamic HDR and Dolby Vision)
- (2): HDMI digital video outputs: HDMI 2.0b with HDCP 2.2 (one with CEC and ARC). Both outputs support HDMI 2.0b and HDR - including dynamic HDR and Dolby Vision

Digital Audio Inputs:

- Internal high-performance AM / FM tuner
- (4): Toslink optical S/PDIF digital audio (up to 24 / 192)
- (4): Coax (RCA) electrical S/PDIF digital audio (up to 24 / 192)
- (1): AES/EBU (XLR) digital audio
- (1): USB Type B digital audio (UAC2 USB audio up to 24 / 192k)
- Digital PCM and DSD audio supported on all HDMI inputs and USB input

Digital Audio Outputs:

- (1): Toslink optical S/PDIF digital audio
- (1): Coax (RCA) electrical S/PDIF digital audio



Inputs / Outputs

Other Inputs:

- (2): USB Type A digital data inputs (for firmware updates and future enhancements)
- (1): Ethernet port (RJ-45) (network connection for Dirac and remote control applications)
- (3): Expansion slots for additional optional custom Input/Output modules

Main System Processor:

- The RMC-1 is controlled by our own proprietary Linux-based operating system, and by several powerful DSP engines, each running custom software code
- The main control functions on the RMC-1 are handled by a Texas Instruments AM-1808 Sitara Arm9 32 bit 375MHz processor

Video Processing:

- The RMC-1 is a pure video switch; video inputs are switched directly to the appropriate output without any unnecessary processing. Video switching on the RMC-1 is handled by three Panasonic MN864788 High Speed LSI 4k UHD Video Switches

Audio Processing:

- All audio decoding and post processing is handled by twin Analog Devices, dual-core, 450 MHz DSP engines
- Audio digital-to-analogue conversion for each of the 16 main audio outputs is performed by an individual AKM4490 Verita DAC operating in fully balanced Mono mode

Dimensions (H x W x D mm):

- Unboxed: 178 x 432 x 394 (not counting feet)
- Unboxed: 191 x 432 x 394 (with feet)