

ANTHEM®

MRX SERIES
A/V RECEIVERS
1120 | 720 | 520

NEW!

ARC® GENESIS

For Mac and PC



ARC® Genesis is Anthem's latest and most advanced room correction software.

NEW
FEATURES &
FUNCTIONS
FOR THIRD
GEN MRX



FREE MRX CONTROL APP



MRX 1120 | 140W*

11.2 PRE-AMPLIFIER & 11 AMPLIFIER CHANNELS

- Dolby Atmos®
- DTS:X™ Ready
- ARC™ Anthem Room Correction
- 4 Speaker Profile Memories
- Quad Core Digital Signal Processing
- Two Sub Out Jacks (parallel)
- Premium 32-bit / 768 kHz Differential-Output D/A Converters
- Wireless Network Connection
- DTS Play-Fi® – Local and Streaming

HDMI & VIDEO

- HDMI 2.0a
- HDCP 2.2
- 4:4:4 Subsampling at 4K60 (18.2 Gbps)
- High Dynamic Range (HDR)
- Dolby Vision™ Compatible
- Hybrid Log Gamma (HLG)
- BT.2020 Color Gamut
- On-Screen Display with 4K 50/60
- 4K 50/60 Switching

MRX 720 | 140W*

11.2 PRE-AMPLIFIER & 7 AMPLIFIER CHANNELS

- Dolby Atmos®
- DTS:X™ Ready
- ARC™ Anthem Room Correction
- 4 Speaker Profile Memories
- Quad Core Digital Signal Processing
- Two Sub Out Jacks (parallel)
- Premium 32-bit / 768 kHz Differential-Output D/A Converters
- Wireless Network Connection
- DTS Play-Fi® – Local and Streaming

HDMI & VIDEO

- HDMI 2.0a
- HDCP 2.2
- 4:4:4 Subsampling at 4K60 (18.2 Gbps)
- High Dynamic Range (HDR)
- Dolby Vision™ Compatible
- Hybrid Log Gamma (HLG)
- BT.2020 Color Gamut
- On-Screen Display with 4K 50/60
- 4K 50/60 Switching

MRX 520 | 100W*

5.2 PRE-AMPLIFIER & 5 AMPLIFIER CHANNELS

- ARC™ Anthem Room Correction
- 4 Speaker Profile memories
- Two Sub Out Jacks (parallel)
- Premium 32-bit / 768 kHz Differential-Output D/A Converters

HDMI & VIDEO

- HDMI 2.0a
- HDCP 2.2
- 4:4:4 Subsampling at 4K60 (18.2 Gbps)
- High Dynamic Range (HDR)
- Dolby Vision™ Compatible
- Hybrid Log Gamma (HLG)
- BT.2020 Color Gamut
- On-Screen Display with 4K 50/60
- 4K 50/60 Switching

ARC

- Works on ALL Channels
- Improved Algorithms for seamless integration between speakers and subwoofers



Rev. 030519

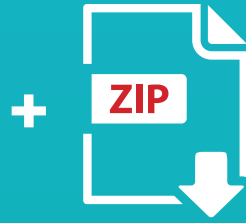
* Front, center, and surround (two channels driven)

Anthem Room Correction (ARC®) Transform the sound in any space.

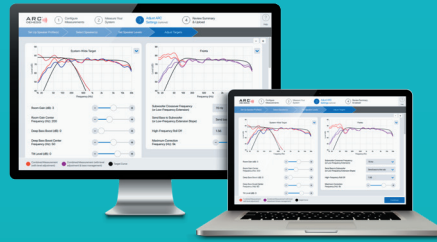
ARC®
GENESIS



ARC Microphone



ARC® Genesis Software
(free download)



Mac OS X



Windows

ARC Genesis works with Mac or PC and is the most comprehensive method of transforming the sound in your room. Includes many new features. Download the FREE software at anthemav.com

ARC® mobile



Download App



This method uses the device's internal microphone.



OR...use the microphone & cord included

The FREE ARC Mobile app transforms the sound in any room using your smartphone.

BRING YOUR MOVIES TO LIFE, AS NEVER BEFORE

DOLBY ATMOS®



What is Dolby Atmos?

Dolby Atmos® is a revolutionary new audio technology that transports you into extraordinary entertainment experiences.

- Fills your room with captivating sound
 - Sound comes from all directions, including overhead, to fill the room with astonishing clarity, richness, detail, and depth.
- Puts sounds into motion all around you
 - The specific sounds of people, music, and things move all around you in multidimensional space, so you feel like you are inside the action.
- Delivers the full impact of the artist's work
 - Artists have amazing new capabilities to tell their stories, accent their games, or perform their music to achieve the greatest expressive impact.

How does Dolby Atmos audio work?

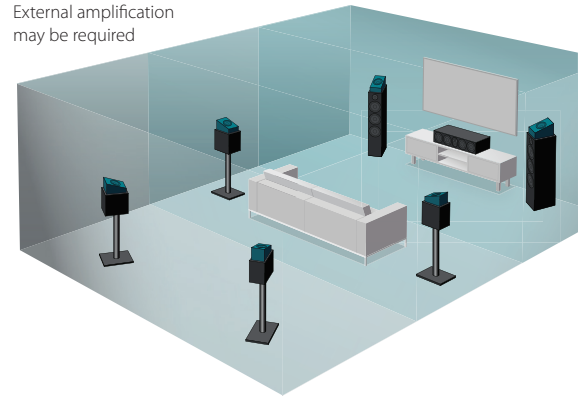
Dolby Atmos is the first home theater system that is based not on channels but on audio objects. What is an audio object? Any sound heard in a movie scene—a child yelling, a helicopter taking off, a car horn blaring—is an audio object. Filmmakers using Dolby Atmos can decide exactly where those sounds should originate and precisely where they move as the scene develops.

Thinking about sound in this way eliminates many of the limitations of channel-based audio. In a channel-based system, filmmakers have to think about the speaker setup: Should this sound come from the left rear surrounds or the left side surrounds? With Dolby Atmos, filmmakers just have to think about the story: Where is that yelling child going to run? How will the helicopter move overhead after takeoff? The Dolby Atmos system, whether in the cinema or the home theater, has the intelligence to determine what speakers

to use to precisely recreate the child's movement in the way the filmmakers intend. They can now precisely place and move sounds as independent objects in multidimensional space, including anywhere overhead, so you can hear them as you would naturally. reality to your listening experience. Dolby Atmos helps weave the audio story to match what's happening on the screen.

Dolby®-Enabled Height Speakers

2 or 4 may be used, 6 positions shown
External amplification may be required



DTS:X READY

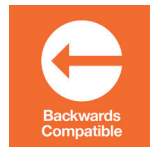


What is DTS:X?

DTS:X is the next generation audio codec from DTS that leverages object-based audio to enable new audio experiences in immersion and interactivity.

DTS:X places sound where it would occur naturally in space, creating the most lifelike, multi-dimensional audio experience ever. Free from channel restrictions, sound can be placed and moved to where you would hear it in the real world. Because DTS:X doesn't require any specific speaker layout, you can arrange your home theater system however you want it. With DTS:X you're in control of your listening experience. That hard-to-hear line in a movie can be lifted out of the background sounds for a more personal entertainment experience.

Works With All DTS Content



DTS will playback all DTS formats including DTS Digital Surround and DTS-HD Master Audio. DTS:X bitstreams are backward-compatible with older DTS AVRs and sound great.

Object-Based Audio

An audio object is the combination of the waveform where captures the audio, and metadata which represents the spatial location in which the object should be heard. Audio objects free content from specific speaker layouts for optimal listening.

This means the same DTS:X content will sound great whether it's rendered on stereo or a fully immersive surround sound system.

Immersive



DTS:X places sound where it would occur naturally in space, creating the most lifelike, multi-dimensional audio experience ever. Be prepared — this improved immersion and heightened realism makes horror movies scarier, comedies more laugh-out-loud, and car chase scenes even more

Interactive



You are in control of your listening experience. That hard-to-hear line in a movie can be improved at a touch — lift the dialogue out from the background sounds when you want clarity and experience a more personal entertainment experience.

WI-FI MUSIC STREAMING

DTS PLAY-FI®



Limitless music.
App-controlled convenience.
Wireless connectivity.
 Everyone wants instant access to their digital

audio library, anywhere in the home. And Anthem's MRX Series with DTS Play-Fi technology is the perfect, high-performance means of delivery.

Anthem MRX A/V Receivers can take full dynamic advantage of the better-than-CD-quality sound quality delivered by the DTS Play-Fi® streaming technology.

Partnered with the leader in Wi-Fi streaming.

DTS Play-Fi Wi-Fi streaming technology supports a host of high quality file formats. Controlled directly from your smart device or computer in any operating system, the "Open Ecosystem" of DTS Play-Fi technology makes it easy to stream music throughout your home, and to add more wireless streaming devices on the fly.

Features and Functions:

- All the music in the world at your control
 Stream from your digital music library or an online audio service like Spotify, Songza, Pandora, and more ...

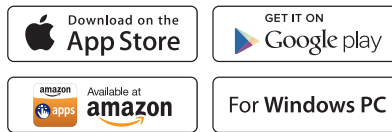
Your Music



Music Services

To learn more about the latest subscription-based music services visit our website.

- **FREE DTS Play-Fi app** that's easy to set up on any smart device, with an intuitive interface, and the ultimate audio flexibility.



Stream via DTS Play-Fi using Android, iOS, or PC

Formats Supported by DTS Play-Fi®

Category	Format	File Size
Uncompressed 	Lossless FLAC (Free Lossless Audio Codec)	54 MB for Average Song
	Lossless WAV (Waveform Audio File Format)	54 MB for Average Song
Compressed	Lossless FLAC (Free Lossless Audio Codec)	27 MB for Average Song
	Lossless ALAC (Apple Lossless Audio Codec)	27 MB for Average Song
	Lossy MP3 (MPEG-1 or MPEG-2 Audio Layer III)	7 MB for Average Song
	Lossy AAC (Advanced Audio Coding)	7 MB for Average Song

COMPARISON CHART

	MRX 1120	MRX 720	MRX 520	AVM 60*
AUDIO FEATURES				
Preamplifier Channels	11.2	11.2	5.2	11.2
Amplifier Channels	11	7	5	
Dolby Atmos	•	•		•
Dolby TrueHD	•	•	•	•
DTS:X Ready	•	•		•
DTS-HD Master Audio	•	•	•	•
Anthem Room Correction	•	•	•	•
Speaker Profile Memories	4	4	4	4
Crossover Settings	40-250 Hz	40-250 Hz	40-250 Hz	40-250 Hz
Digital Signal Processor	Quad-Core 32-bit	Quad-Core 32-bit	Tri-Core 32-bit	Quad-Core 32-bit
Lip-Sync Adjustment Range	300 ms	300 ms	300 ms	300 ms
Dolby Volume	•	•	•	•
DTS Play-Fi® Music Player – Local and Streaming	•	•		•
Spotify Connect	•	•		•
FM Tuner	•	•	•	•
Optical Inputs	3	3	3	3
Coaxial Inputs	2	2	2	2
All Digital Inputs Accept 24-Bit / 192 kHz	•	•	•	•
Stereo Analog Inputs	5	5	5	5
Analog Direct Mode	•	•	•	•
Premium 768 kHz / 32-Bit Differential-Output D/A Converters	•	•	•	•
32-Bit Conversion for all Digital and Analog-DSP Sources	•	•	•	•
Sampling Rate Optimized D/A Filters	•	•	•	•
True Balanced XLR Pre-Out				•
Subwoofer Jacks (parallel)	2	2	2	2
Optical Output (passthrough of coax/optical in)	•	•	•	•
Any Source Downmix to Line-Out	•	•	•	•
Any Source Downmix to Zone 2 (if following Main source)	•	•	•	•
Zone 2 Plays 2-channel Optical/Coaxial Sources	•	•	•	•
Zone 2 Plays Analog Sources	•	•	•	•
LISTENING MODES				
AnthemLogic	11.2 channels	11.2 channels	5.2 channels	11.2 channels
Dolby Surround	•	•		•
Dolby Pro Logic II			•	
DTS Neo:6	•	•	•	•
All Channels	•	•	•	•

*AVM 60 included for reference only

COMPARISON CHART

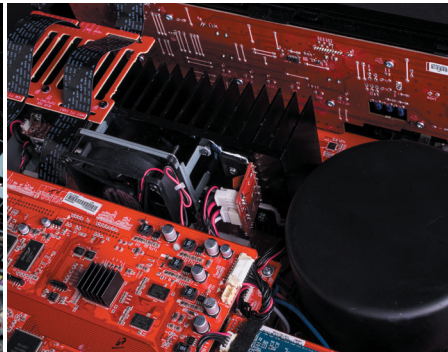
	MRX 1120	MRX 720	MRX 520	AVM 60
HDMI AND VIDEO PROCESSING				
Inputs – Rear	7	7	7	7
Input – Front	•	•		•
MHL – Supported Inputs	1R+1F	1R+1F	1R	1R+1F
HDCP 2.2	•	•	•	•
HDMI 2.0a	•	•	•	•
On-Screen Display with UHD 4K 50/60	•	•	•	•
4:4:4 Chroma Subsampling at 4K60 (18.2 Gbps)	•	•	•	•
High Dynamic Range (HDR)	•	•	•	•
BT.2020 Color	•	•	•	•
xvYCC, Adobe RGB, Adobe YCC601, sYCC601, Deep Color	•	•	•	•
Outputs (parallel)	2	2	2	2
Consumer Electronic Control (CEC)	•	•	•	•
Audio Return Channel	•	•	•	•
Standby Pass-Through	•	•	•	•
NETWORK CONNECTION				
Wireless	•	•		•
Ethernet	•	•	•	•
CUSTOM INSTALLATION				
IP Control	•	•	•	•
RS-232 Control	•	•	•	•
Control System Drivers	•	•	•	•
IR Input	•	•	•	•
12V Trigger Output (configurable)	•	•	•	•
Rackmount Kit (sold separately)	•	•	•	•
ADDITIONAL FEATURES				
Toroidal Transformer	•			•
Advanced Load Monitoring	•	•	•	
Input Configurations	30	30	30	30
Power-On Input Assignment	•	•	•	•
Auto Power Off	•	•	•	•
Eco Mode for Standby	•	•	•	•
Front USB Port for Updates	•	•	•	•
Backlit Remote Control	•	•	•	•
Android Remote Control App	•	•	•	•
iOS Remote Control App	•	•	•	•
Warranty (US/Canada)	3 years	3 years	3 years	3 years

*AVM 60 included for reference only

DESIGN DETAILS



Supports the latest connection options



Powerful internal components



Brushed anodized aluminum aesthetic



MRX 1120 rear view



Easy-to-read intuitive display



11 Channels of amplification (MRX 1120)



Wireless network antennas (except MRX S20)

TECHNICAL SPECS

Preamplifier

Maximum Output (<0.1% THD)4.2 Vrms, subwoofer channel 5.2 Vrms
 Frequency Response (2 Vrms output)10 Hz - 31 kHz (+0, -.25 dB)
 Frequency Response, Analog-Direct
 (2 Vrms output)10 Hz - 48 kHz (+0, -.25 dB)
 THD+N (2 Vrms output)-95 dB
 S/N Ratio (2 Vrms output, IEC-A filter)110 dB

Preamplifier + Amplifier THD (1 W output)

MRX 1120 / 720-88 dB ch 1-5, -75 dB back/height
 MRX 520-88 dB

Speaker Impedance

Compatible with 4 Ohms or higher impedance.

Maximum Continuous Output (1% THD)

	MRX 1120	MRX 720	MRX 520
Channels 1-5, Two Driven into 8 Ohms	140 W	140 W	100 W
Channels 1-5, Two Driven into 6 Ohms	170 W	170 W	130 W
Remaining Channels, Two Driven into 8 Ohms	60 W	60 W	n/a
Remaining Channels, Two Driven into 6 Ohms	75 W	75 W	n/a

Power Consumption

	MRX 1120	MRX 720	MRX 520
Typical Load	570 W	485 W	365 W
Standby	0.3 W	0.3 W	0.3 W
Standby IP Control Enabled	4.7 W	4.7 W	2.4 W
Standby HDMI Bypass Enabled	8.2 W	8.2 W	5.8 W

Dimensions (all models)

Height6-1/2" / 16.5 cm
 Height with Rackmount Kit4U
 Width17-1/4" / 43.9 cm
 Depth (not including power cord)14-3/4" / 37.5 cm

Weight (unpacked)

MRX 112032 lb / 14.5 kg
 MRX 72031 lb / 14 kg
 MRX 52028.2 lb / 12.8 kg



MRX Generation 2 and 3 Remote

ACCOLADES OF MRX GEN 1 & GEN 2



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