“FINALLY, HIGH-END AUDIO
WITH AN AFFORDABLE PRICE TAG.”

Fred Manteghian

AT A GLANCE:
• Light on bells and whistles, heavy on high-end sound;
• Anthem Room Correction worth the additional effort;
• High value from a true high-end brand.

ANTHEM LITE AND RIGHT
When I hear “Anthem,” I also usually hear “ca-ching!” Anthem’s Statement D2v surround processor sells for enough cash to keep a Colorado hippie blazing in medical marijuana for years. The MRX 700 is the company’s welcome foray into the world of down-to-earth-priced AVRs, punctuated by the inclusion of the same Anthem Room Correction (ARC) system the company uses in its costlier separates. Anthem’s proprietary room correction alone might be enough to swing some consumers’ decisions. Those who’ve used ARC with Anthem’s separates (including some people employed by this fine publication) hold it in high regard. An AVR at the MRX 700’s price is going to be up against a lot of stiff competition. Will Anthem pull it off, or is its first attempt at a killer AVR for the masses about to go up in smoke?

THAT’S HEAVY, MAN!
The MRX 700 has a unique, attractive look that takes design cues from Anthem’s AVM 50v and Statement D2v. You’ll recognize the small silver buttons that stretch across its obsidian black faceplate. The weighty transformer that powers the seven channels is clearly visible through the grated top plate, and it helps the MRX 700 tip the scales at over 35 pounds. In a fresh breath of honesty, the specs indicate that Anthem achieves the amplifier’s sections 120-watt rating with only two channels driven into 8 ohms. The rating drops to 90 watts when five channels are in play.

There are four HDMI 1.4a inputs (3D capable), so you’re covered for the typical installation of a high-def cable or satellite box, Blu-ray player and gaming system (or two). The single HDMI output is probably appropriate at this price point, but there are less expensive AVRs that can feed both a flat panel and a projector without making you switch cables. Legacy components will make do with the Anthem’s array of three component and three composite video inputs, seven two-channel analog audio inputs and a total of five optical and coaxial digital inputs. S-video doesn’t even get an honorable mention here and good riddance.

Anthem provides a regular remote for the main room and a credit-card-sized remote for a second zone. While video for the second zone tops out at composite, that’s sufficient for many users. The main-system remote lacks any heft, but makes up for it with a curved battery compartment that invites your index finger to wrap around comfortably. The buttons are backlit, but only if you remember where the backlight button is.
in the dark. I’d prefer for any button push to engage the backlighting, battery life be damned.

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The MRX 700 has built-in video processing. It cross-converts and upconverts component and composite analog video to HDMI. It also upconverts (and downconverts) incoming digital (HDMI) video to match your display. You can output video over HDMI at various resolutions or change it on the fly via the remote. The Auto and Through modes pass video signals from the MRX 700 to the connected display at the incoming source’s native resolution. Through mode presumably performs no video processing. Auto seems to work the same as Through, but it overlays volume levels and other information on the screen, which suggests that at least some video processing is going on.

Anthem includes Internet radio capability. It works well enough, but it doesn’t currently support stations that use Windows media streaming (WMA) which significantly reduces the number of stations you can bring in. Hopefully, Anthem will issue a firmware update to address this. Something else that I missed even more than streaming Atlanta’s great alt-rock station 99.X was the lack of support for Pandora or Rhapsody.

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While Anthem sells a separate iPod dock, I simply plugged in my iPod via a USB cable and did most of what I wanted, including shuffling tunes, while I viewed its contents on my big screen. Playlists were absent, but that’s a small sacrifice for simplicity.

Dolby Volume has two extremely useful feature sets for movies and TV programming. Without Dolby Leveling engaged, Dolby Volume makes dynamic frequency-response modifications at listening levels below reference level, where the human ear becomes less sensitive at the frequency extremes and subject to boredom. With Dolby Leveling engaged, advanced dynamic range compression is employed to make loud passages quieter without making the frequency extremes sound muted. It also makes quiet passages louder, so you can still hear them. That’s all very good on paper, especially if you live in tight quarters (which I do not).

I left Dolby Volume disengaged for most of my testing. I found that what it offered did little to outweight its faults. For starters, Dolby Leveling tries to remove the level differences between TV shows and the commercials that pay for them. At any setting short of ‘off’ (and the MRX 700 ships with it set to one click below max), it produced audible pumping when I played any music that included a higher-than-normal level of hiss. Besides that, it just seemed to make everything louder, or more garish. Why hobble a thoroughbred?

“The room-EQ’ed Anthem was great for a gutsy perspective that’s both warm and detailed. On “Radioactive,” the mix is broad and deep, the Kings having mastered a signature sound that the Anthem was only too happy to expose—stadium rock on steroids.”

LIGHT UP OR LEAVE ME ALONE

Marching to a different drummer, Anthem’s room equalization is geared toward getting it right rather than getting it done fast. You can apply Dolby Digital VS (Virtual Speaker) Wide or Reference modes to two-channel signals, Dolby Digital 5.1 or even high-resolution Dolby TrueHD and DTS-HD Master Audio soundtracks as well. The VS modes did a surprisingly effective job of creating rich, spacious sound with just two speakers while preserving dialogue intelligibility.

“The room-EQ’d Anthem was definitely making sweet tunes … Sound quality was rich and justly done — no digital artifacts here … I cranked it as loud as my speakers and ears could handle, and I didn’t hear the Anthem’s amps complain…”

Anthem is first and foremost a serious audiophile-oriented company, so it has kindly dispensed with all the bathroom modes that you’ll find in bigger-selling brands. Gone are useless surround processing algorithms like Jazz Club and Church II. I’m just as affected as the next engineer when I see a digital signal processor chip standing on the side of the road holding up a sign that reads, “Will process sound for food,” but we must be strong.
Kudos to Anthem for including a high-quality microphone (you could hurt even a bass player swinging this thing around on stage). You also get a substantial short-base microphone stand that you can place in each listening position to be measured. No more balancing a microphone on Freckles the cocker spaniel’s head and hoping he doesn’t wake up.

The MRX 700 comes with a CD that contains the ARC software and a file with the frequency response profile for the microphone. You can upgrade to the latest version of the

### HT LABS MEASURES

Five channels driven continuously into 8-ohm loads:

- 0.1% distortion at 86.3 watts
- 1% distortion at 93.7 watts

Seven channels driven continuously into 8-ohm loads:

- 0.1% distortion at 43.9 watts
- 0.1% distortion at 52.6 watts

Analog frequency response in Stereo mode:

- -0.65 dB at 10 Hz
- -0.20 dB at 20 Hz
- -0.12 dB at 20 kHz
- -27.36 dB at 50 kHz

Analog frequency response with signal processing:

- -0.65 dB at 10 Hz
- -0.20 dB at 20 Hz
- -0.10 dB at 20 kHz
- -26.12 dB at 50 kHz

This graph shows that the MRX 700’s left channel, from CD input to speaker output with two channels driving 8-ohm loads, reaches 0.1 percent distortion at 128.6 watts and 1 percent distortion at 160.2 watts. Into 4 ohms, the amplifier reaches 0.1 percent distortion at 164.8 watts and 1 percent distortion at 221.0 watts.

There was no multichannel input to measure. THD + N from the CD input to the speaker output was less than 0.023 percent at 1 kilohertz when driving 2.83 volts into an 8-ohm load. Crosstalk at 1 kHz driving 2.83 volts into an 8-ohm load was –73.01 decibels left to right and –72.06 dB right to left. The signal-to-noise ratio with an 8-ohm load from 10 hertz to 24 kHz with “A” weighting was –104.67 dBrA.

From the Dolby Digital input to the loudspeaker output, the left channel measures –0.07 dB at 20 Hz and –0.09 dB at 20 kHz. The center channel measures –0.07 dB at 20 Hz and –0.05 dB at 20 kHz, and the left surround channel measures –0.07 dB at 20 Hz and –0.13 dB at 20 kHz. From the Dolby Digital input to the line-level output, the LFE channel is +0.53 dB at 20 Hz when referenced to the level at 40 Hz and reaches the upper 3-dB down point at 67 Hz and the upper 6-dB down point at 82 Hz.

—MJP

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**ANTHEM MRX 700 A/V RECEIVER**
software from Anthem’s Website at any time, but your microphone’s profile is only available on the CD, so be sure you do your first install from the CD, not the Web.

“The Anthem lets you hear the subtle dynamic shifts in volume … demonstrated an amazing sense of attack, the type you rarely hear without electrostatic speakers in play. I always know when I’m at theater reference level because a good bass whack will send my subwoofer’s grille covers flying. When the lights came back on, it was time to collect those fabric biscuits off the floor and put them back in place.”

Once you’ve installed and updated your software, connected the microphone to the computer and the computer to the AVR, things are pretty much the same as with any other room correction system. I took measurements from five seating positions in my room, although ARC will accommodate up to ten measurement locations. As a reviewer, I like the fact that I can save configurations and restore them later if I change speakers. It comes with the job.

SIGN IN PLEASE, MR. X

I thought I’d had too much Beatles, but then I saw a stupid black-and-white photo on Apple’s website and Abbey Road was back in the CD tray. AnthemLogic-Music activated the surround channels (but not the center) and added a bit of width and depth without making “Because” sound cartoonish. The subtle effect of blending in surround channels also softened the harder edge of my early digital copy of “You Never Give Me Your Money.” The spring reverb added when the band croons “Down” comes through with an ethereal beauty that really made me appreciate the artistry of the past that we take for granted in a Pro Tools world. The room-EQ’d Anthem was definitely making sweet tunes. On to the new Kings of Leon CD, Come Around Sundown. Sound quality was rich and justly done—no digital artifacts here. I cranked it as loud as my speakers and ears could handle and I didn’t hear the Anthem’s amps complain. The MRX 700 offers a gutsy perspective that’s both warm and detailed. On “Radioactive” the mix is broad and deep. The Kings have mastered a signature sound that the Anthem was only too happy to expose—stadium rock on steroids. The difference between straight Stereo and surround-channel-embellished AnthemLogic-Music was once again subtle but enjoyable.

“… a lot of dynamic subtlety … terrifyingly realistic … Anthem’s audiophile breeding and its years of experience in building high-quality separates, is clearly in force here. My home theater absolutely came to life.”

Inception is a mindbender of a movie, with a beautiful and powerful soundtrack by veteran composer Hans Zimmer. Quite ingeniously, he slows down an instrumental version of “Non, Je Ne Regrette Rien” (literally, “No, I have no regrets”) to signify the perception of time from within a dream. The Anthem has a lot of dynamic subtlety which this movie allowed it to express distinctly. The MRX 700 was terrifyingly realistic during the bridge scene at the end of the movie. Mind you, this is with Revel Ultima2 speakers which won’t suffer imposters. Anthem’s audiophile breeding and its years of experience in building high-quality separates, is clearly in force here. My home theater absolutely came to life.

“With a lesser system, I might have turned the volume down, but with the Anthem the sound quality was so pure and uncompressed, there was never a sense of fatigue … I kept leaning further and further into the sound because perfection was in the details.”

In Inception’s avalanche scene, a lesser system might just generate a lot of white noise. This might be passable but it wouldn’t produce the same effect as the Anthem did. The MRX 700 let me hear the subtle dynamic shifts in volume as the stampede of snow in the far distance became airborne and then came crashing and pounding back against the mountain to continue its destructive tear. Foley effects snapped as the Anthem demonstrated an amazing sense of attack, the type you rarely hear without electrostatic speakers. I always know when I’m at theater reference level because a good bass whack
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JE NE REGRETTE RIEN
The Anthem MRX 700 is a great-sounding
AVR, but not one of the Swiss army knife
variety. There is no parade of logos across
its front panel, but what it has works extraor-
dinarily well. It owes its excellent sound to
both the high-quality amplification section
and proprietary room correction which can
overcome some limitations in your room
and to a much lesser degree, your speakers.
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