

ANHEM[®]
STR PREAMPLIFIER

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**PUSH THE
 POWER
 OF AUDIO
 CONTROL**



The revolutionary STR Preamplifier is a new type of audio component that gives you more control and more refinements, including more connection options and more advanced technology, in a single, easy-to-use component. It combines the benefits of an advanced pre-amp with the power of a processor, as well as functions like leading-edge DAC, onboard Anthem

Room Correction, customizable bass manager for mono or stereo sub outs, MM and MC phono inputs; far more features than the average preamplifier. And count on Anthem's digital signal processing innovations to deliver a noticeably higher level of performance realism. The new STR Preamplifier drives all of your entertainment options today, and tomorrow.

FEATURES & FUNCTIONS

- High-resolution analog and digital preamplifier
- Anthem Room Correction™ (ARC) to optimize in-room response
- Bass management for two subwoofers, in mono or stereo
- Up-sampling of lower-resolution sources to 32-bit / 192 kHz
- Asynchronous USB audio input supports 32-bit / 384 kHz PCM, and DSD 2.8 / 5.6 MHz sources
- Coaxial, optical, and AES/EBU inputs up to 192 kHz
- MM and MC phono, balanced XLR, and single-ended analog inputs
- Six pre-RIAA curves plus adjustable settings for playing older records accurately
- Analog Direct Mode
- Adjustable analog input levels to match sources, minimize noise and prevent distortion
- Graphic front panel display for easy setup navigation
- Balanced output for all channels including the two subs

- Home Theater Bypass Mode works without having to turn power on and includes RCA/XLR input for two subs
- Create up to 30 virtual inputs for setup flexibility



STR Preamplifier pictured with STR Power Amplifier (sold separately). Both models available in black or silver finishes.



FEATURES

USB DAC



Conversion from Digital to Analog

Get premium sound quality from your Windows or Mac laptop. The Anthem STR Integrated uses a high-quality, asynchronous USB audio input to translate digitally stored music into superb analog sound.



Anthem Exclusive Innovations

The STR Preamp includes the newest and most powerful generation of Anthem Room Correction (ARC), with 50% more processing power than any other version of ARC. This proprietary calibration tool, with its easy-to-use interface, automatically shapes the acoustic signature of your speakers for the best possible sound quality in your unique listening space. This is especially important for the lower frequencies.

Other innovations include a high-resolution preamp and digital section, which supports asynchronous USB up to 32-bit/384 kHz PCM and DSD 2.8/5.6 MHz sources, and uses signal processing that employs 64-bit accumulation and feedback to preserve the finest detail in the music and to avoid degradation. The digital to analog conversion section was designed to faithfully duplicate all the sounds in the original source.

To help achieve that effect for all input resolutions, a dedicated asynchronous 32-bit / 192 kHz sample rate conversion is used. This way, the DAC stage's anti-imaging filter is optimized for this sampling rate alone, resulting in an audio frequency range that's unmatched in purity, regardless of input format. In the process, the data gets relocked, providing immunity from performance-marring source jitter.

Through the rest of the DAC circuitry, thin film high precision resistors and super low noise op-amps are used for lowest distortion, lowest noise, and most transparent sound. Other DAC units may boast about the performance of the DAC chip all by itself, but we view DAC stage design as a whole — there are no crippling bottlenecks anywhere in the DAC stage of the STR Preamp.

Aside from its cutting-edge technology, one look tells you that the STR Preamp is a different animal altogether. The display on the front panel gives you surprisingly easy control through an easy to navigate setup menu, and the luxurious and elegant new contemporary design is available in two beautiful finishes, Black or Silver.

More Subwoofer Options

The STR Preamp gives you more options for subwoofer configuration. Use one subwoofer or two for both channels, or two independent right-and-left channel-specific subwoofers. The bass management in conjunction with ARC is uniquely engineered for seamless subwoofer blending, achieving incredibly accurate and lifelike performance.

Moving Coil and Moving Magnet Phono

Anthem has also taken into consideration the resurgent popularity of vinyl records, and has included separate inputs for moving magnet and moving coil cartridges, with the phono section completely shielded to

maintain a clean signal. The transparency and refinement of the STR Preamp reveals the hidden magic of classic media. In addition, the phono curve is continuously adjustable for proper playback of any record that predates the RIAA equalization standard.

Home Theater Bypass

The concept of combining a stereo preamp with a home theater system is taken to a whole new level. The STR Preamp supports two subwoofer channels in addition to the two fronts. XLR as well as RCA connection is provided for all channels, and HT Bypass mode engages while the preamp is on standby. This way, you don't have to turn it on when watching movies. To allow the purest signal path, relays are employed to hard-wire the input jacks to the outputs — the STR Preamp essentially becomes a straight wire.

Premium Components

Clarity is maintained using carefully selected components, many of them engineered exclusively in-house at Anthem. We believe that two-channel listening demands attention to detail, with flawless signal integrity being the benchmark of stereo performance. To that ultimate end, the Anthem STR Preamp is designed with the shortest possible signal paths, and differential analog to digital circuitry to cancel artifacts and keep noise to a minimum.

FEATURES

SUPERIOR CRAFTSMANSHIP

Solid build quality works in concert with clean, clear, audiophile-quality sound throughout the frequency spectrum.



ARC ANTHEM ROOM CORRECTION

Audio optimized for any space

The STR Preamplifier features exclusive Anthem Room Correction (ARC™) Technology. ARC uses a calibrated microphone and advanced DSP algorithms to quickly and easily optimize speaker performance in any space. In just a few easy steps the microphone measures sound output, compares it to scientifically optimal response curves, and instantly adjusts your settings for perfect sound. **You'll actually hear the difference ARC makes.**

The STR Preamplifier also supports ARC Mobile, making Anthem Room Correction (ARC™) even easier to use. **Download the ARC Mobile app.**



Correct your room acoustics using the method you are most comfortable with:

easy

Requirements: iOS device

Download Anthem's ARC™ Mobile app to an iOS device. Use the iOS device's built-in microphone and measure five listening positions. It takes only minutes to complete.

intermediate

Requirements: iOS device and the calibrated microphone

Download Anthem's ARC™ Mobile app to an iOS device. Select "microphone" from the app menu, connect the supplied 3.5 mm cord from an iOS device to the ARC microphone with dual output jacks and measure five listening positions.

professional

Requirements: PC, calibrated microphone and Anthem's ARC™ software

Download and install Anthem's ARC™ software to your PC. Use the supplied calibrated microphone, USB cord and your PC to run ARC. Connect PC to STR using the second USB cord or connect it through your local network. Measure up to ten listening positions and if desired, customize the results, set up multiple configurations and print the graphs.



TECHNICAL SPECS

Phono Preamplifier

Input Impedance	100 Ω (MC), 47 k Ω 270 pF (MM)
RIAA Response (20 Hz - 20 kHz)	\pm 0.1 dB
Gain (1 kHz - volume set to 0 dB)	61 dB (MC), 41 dB (MM)
DSP Mode	
Maximum Input (at 1 kHz for <0.01% THD 20 Hz - 20 kHz)	3.6 mV (MC), 38 mV (MM)
THD+N (at 1 kHz 20 Hz - 20 kHz BW, 2 Vrms output)	< 0.015% (MC), < 0.003% (MM)
THD (at 1 kHz 20 Hz - 20 kHz BW, 2 Vrms output)	0.001% (MC), 0.001% (MM)
SNR (IEC-A, 2 Vrms output)	86 dB (MC), 103 dB (MM)
Direct Mode	
Maximum Input Direct Mode (at 1 kHz for <0.01% THD 20 Hz - 20 kHz)	11.8 mV (MC), 129 mV (MM)
THD+N (at 1 kHz 20 Hz - 20 kHz BW, 2 Vrms output)	< 0.008% (MC), < 0.002% (MM)
THD (at 1 kHz 20 Hz - 20 kHz BW, 2 Vrms output)	0.001% (MC), 0.001% (MM)
SNR (IEC-A, 2 Vrms output)	90 dB (MC), 110 dB (MM)

Preamplifier

Frequency Response

digital-in, 192 kHz	10 Hz - 50 kHz (+0, -0.5 dB)
digital-in, 96 kHz	10 Hz - 45 kHz (+0, -0.5 dB)
digital-in, 44.1 kHz	10 Hz - 20 kHz (\pm 0 dB)
analog-in, DSP mode	10 Hz - 40 kHz (+0.00, -0.20 dB)
analog-in, direct mode	10 Hz - 80 kHz (+0.00, -0.10 dB)

THD+N (20 Hz - 20 kHz BW, 2 Vrms output)

DSP mode	0.0006% Digital in, 0.0017% Analog in
Analog Direct Mode	0.0016%

SNR (at 1 kHz, IEC-A, 2 Vrms output)

DSP mode	113 dB (digital-in), 108 dB (analog-in)
Analog Direct Mode	120 dB

Maximum Output (<0.1% THD)

RCA connectors (direct and DSP modes)	3.3 Vrms
XLR connectors (direct and DSP modes)	6.6 Vrms

XLR Configuration Pin 1: Ground, Pin 2: Normal, Pin 3: Inverted

Power Requirement

This product operates from a single phase AC power source that supplies between 108V and 264V at a frequency of 50 or 60 Hz.

Power Consumption

Standby	0.38 W (120V), 0.45 W (240V)
Standby + Network	1.1 W (120V), 1.2 W (240V)
Typical Use	10 W

Dimensions

Height	3-8/9"(9.93 cm)
Width	17"(43.2 cm)
Depth (not including power cord)	14-5/6"(37.69 cm)
Weight (unpacked)	16.8 lb (7.6 kg)

ANTHEM[®]

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