

AccuCal AV Remote Audio Calibration Requirements

REMOTE ASSISTANCE IS AVAILABLE FOR ALL AUDIO SYSTEMS. The requirements differ based on the products you own and plan to use for calibrating your system.

Recommended Preparation for Remote Calibration

Acquire necessary software and microphones.

Verify all speakers and subwoofers are functioning with Avia Guide to Home Theater for up to 5.1 systems or Dolby Atmos Demo test tones for greater than 5.1 speaker layouts. **DO NOT TRUST YOUR RECEIVER'S INTERNAL TEST TONES.** Dolby Atmos requires; bitstream data, secondary audio off in player; Dolby Surround processing on. Dolby Atmos mode should be displayed on the receiver information panel when it is detected and processed in the receiver or preamp.

Measure and enter speaker and subwoofer distances to the primary seating location where your ears would be located.

Have factory remotes available for all sources and audio processors.

Recommended Microphones

non-Anthem Products

Dayton UMM-6 USB Measurement Microphone <https://www.parts-express.com/Dayton-Audio-UMM-6-USB-Measurement-Microphone-390-808>. Download the microphone calibration file for your specific microphone.
<https://support.daytonaudio.com/MicrophoneCalibrationTool>

Anthem Receiver/Preamp

Use your Anthem microphone. Download this Anthem microphone calibration file for use in the recommended real time analyzer software:
https://drive.google.com/open?id=1KbRIOg1KLih1_YJd5kL-nYyy2jbwVFNS

Recommended Method to Hold Microphone

The microphone needs to be held in a fixed vertical position in your seats of interest.

Inexpensive microphone clip and tripod. <https://www.amazon.com/Microphone-IMAGE-Collapsible-Adjustable-Cellphone/dp/B08HPNMG4L>

Real Time Analyzer Software

Windows PC (preferred platform)

NOT WINDOWS 11 - The USB Microphone Driver Is Not Working Properly

TrueRTA 1/3 octave license for systems without detailed equalization (examples: Anthem, Denon, Marantz)

TrueRTA 1/24 octave license for systems with detailed equalization (examples: Yamaha, miniDSP, DataSat...)

TrueRTA license is manually generated and can take days to receive.

https://trueaudio.com/rta_abt1.htm

Download this house curve for use in TrueRTA

<https://drive.google.com/file/d/1jNvsHUAfLTqI-sq3EdAZqGFhZiif5Zkj/view?usp=sharing>

Apple iOS

RTA requires iOS 12.1 or later, iPadOS 12.1 or later, macOS 11.0 or later and a Mac with Apple M1 chip.

<https://apps.apple.com/us/app/rta/id298839433>

iPhone or iPad requires a USB Camera to the Lightning port adapter (**nothing else works**).

<https://www.amazon.com/Apple-Lightning-USB-Camera-Adapter/dp/B014VGHG0U>

Video Conference Capability:

Recommended Software to Assist with Real Time Analyzer Software

TeamViewer.

Windows version: <https://www.teamviewer.com/en-us/download/windows/>

Apple Mac version: <https://www.teamviewer.com/en-us/download/mac-os/>

Apple iOS version: <https://apps.apple.com/us/app/teamviewer-quicksupport/id661649585>

Recommended Tools for Sharing Display & Room Images

Apple iOS : Facetime

Android: WhatsApp <https://www.whatsapp.com>

Calibration Test Material

All Systems

Avia Guide to Home Theater DVD available on eBay used (speaker phase tests, speaker level verification test, simple to use pink noise tones) <https://www.imdb.com/title/tt0500085/>

Atmos System Unable to Play MKV Atmos Files

Dolby Atmos Demo Blu-Ray Disc September 2015 or newer available on eBay (test tones, demo material)

Atmos System Able to Play MKV Atmos Files

Oppo Blu-Ray players (not their UHD players). Computers that can connect the HDMI to receiver. Shield streaming device. MKV Atmos test files are available from:

<https://drive.google.com/drive/folders/1CoxvUpipWXb87Z30YKz6JngZCe95FdTe?usp=sharing>

Yamaha Atmos Receivers and Preamp Processors

These products can be calibrated without the MKV files or Atmos Demo Blu-Ray, but you will need to have alternative Atmos demo material for verification.

Room Acoustics Analysis Software for Detailed Room Treatment Plans & Performance Analysis (Optional)

AudioNet Carma software for Windows or Mac is available for download at:

https://drive.google.com/drive/folders/1ZvxZGIAxHaBWkTtFqYkYaSPi_IU58Qip?usp=sharing

WARNING! AudioNet tests should be played back at low volume levels to avoid equipment damage. Start with the volume at -30 db and increase the volume slowly until it is loud enough to pass the software test for all channels. The room must be VERY quiet for these tests to work.

Software generated tones require an audio connection from the computer to your receiver or preamp.