ADAM AUDIO T Series Powered Studio Monitors Instruction Manual

ADAM AUDIO T Series Powered Studio Monitors

Contents

CONGRATULATIONS

…on the purchase of your new ADAM Audio T Series monitors. Your T Series monitors are the culmination of two decades of research into advanced transducer, waveguide, amplification, DSP and loudspeaker cabinet technologies. The result is a professional reference monitor featuring rock-solid imaging, an eminently wide sweet spot, superior transient response, extended frequency response, and unmasked clarity and detail across the audio spectrum. With dimensions small enough to allow placement in virtually any size room, your T Series monitors are a reliable reference for music production, video post-production and radio broadcast studios, and should provide you with many years of dependable use and accurate performance.

This manual will help you to connect, install and start using your speakers, and explain how to adjust them to best suit your working environment. It will also explain how to solve the most commonly occurring problems that users encounter when trying to install new monitors. Manufacturer contact information and a full technical specification

are also included for reference purposes.

Nevertheless, if you encounter problems you can‘t solve, or have questions this manual doesn‘t provide answers to, please either contact your local dealer, or email our Berlin-based support team at **support@adam-audio.de**. We pride ourselves on remaining approachable and helpful to our customers at all times. We wish you many years of happy listening with your new T Series monitors.

The Team at ADAM Audio

IMPORTANT SAFETY INSTRUCTIONS

Please read the following safety instructions before setting up your system. Keep the instructions for further reference. Please heed the warnings and follow the instructions.

 **Caution**
Risk of electrical shock Do not open Risque de shock electrique Ne pas ouvrier

CAUTION: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT REMOVE BACK COVER OR ANY OTHER PART.
NO USER-SERVICABLE PARTS INSIDE.
DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.
REFER SERVICING TO QUALIFIED PERSONNEL.

Explanation of Graphical Symbols

 The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated ‘dangerous voltage’ within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

 The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

 **Caution:** To reduce the risk of electric shock, do not open the loudspeaker. There are no user-serviceable parts inside. Refer servicing to qualified service personnel.

 This product, as well as all attached extension cords, must be terminated with an earth ground three-conductor AC mains power cord like the one supplied with the product. To prevent shock hazard, all three components must always be used.

 Never replace any fuse with a value or type other than those specified. Never bypass any fuse.

 Ensure that the specified voltage matches the voltage of the power supply you use.
If this is not the case do not connect the loudspeakers to a power source! Please contact your local dealer or national distributor.

 Always switch off your entire system before connecting or disconnecting any cables, or when cleaning any components.

 To completely disconnect from AC mains, unplug the power supply from the power socket. The monitor should be installed near the mains connection and it should be easy to access the socket and disconnect the device if necessary.

 Protect the power cord from being walked on or pinched particularly at plugs, sockets, and the point where it exits from the apparatus.

 Unplug this apparatus during lightning storms or when unused for long periods of time. Always keep electrical equipment out of the reach of children.

 Do not expose this product to rain or moisture, never wet the inside with any liquid and never pour or spill liquids directly onto this unit. Please do not put any objects filled with liquids [e.g. vases, etc.] onto the speaker.

 Use only with stands, tripods or brackets specified by the manufacturer, or sold with the apparatus. When moving the loudspeakers on a trolley, avoid injuries; take care and do not over-balance the trolley.

 The speakers must be positioned on a solid surface or a stand.

 Always use fully checked cables. Defective cables can harm your speakers. They are a common source for any kind of noise, hum, crackling etc.

 Never use flammable or combustible chemicals for cleaning audio components.

 Install in accordance with the manufacturer‘s instructions.

 Never expose this product to extremely high or low temperatures. Never operate this product in an explosive atmosphere.

 High SPLs may damage your hearing! Please do not get close to the loudspeakers when using them at high volumes.

 Please note that the diaphragms emit a magnetic field. Please keep magnetically sensitive items at least 0.5 m away from the speaker.

 Assure free airflow behind the speakers to maintain sufficient cooling by keeping a distance of at least 100

mm [4″] to the wall.

 No naked flame sources, such as lit candles, should be placed on the speaker.

 Do not use this apparatus near water.

 Use a dry cloth for cleaning.

 Do not install near any heat sources such as radiators, hot air vents, stoves, or other equipment [including amplifiers] that produces heat.

 Do not disconnect the earth wire in an earthed plug. An earthed plug has live and neutral prongs, plus a third prong for grounding purposes which is included for your safety. If the provided plug does not fit into your socket, consult an electrician to have your socket replaced.

 Only use attachments/accessories specified by the manufacturer.

 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, for example if the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or if the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

INTRODUCING T SERIES

REVOLUTIONARY TWEETER DESIGN

Since its launch in 1999, Berlin-based ADAM Audio has fast gained international prominence and respect as a manufacturer of reliable and highly accurate reference monitors. This reputation and performance has led to ADAM Audio monitors being used by engineers in top recording studios around the world. A key component yielding the monitors' stellar performance is ADAM Audio's innovative, proprietary X-ART tweeter used in all their high-frequency drivers, including the T Series' new U-ART 1.9" tweeter.
Made of a high-tech polyimide film used in thermal blankets on spacecraft and satellites, the U-ART tweeter's diaphragm provides pristine and extended high-frequency response up to 25 kHz. But it's the tweeter's revolutionary folded design that's one of the key elements responsible for the T Series' outperformance compared to other reference monitors in its class.

Unlike a conventional dome or cone tweeter that uses a piston action to move air and reproduce sound, the U-ART tweeter uses a pleated membrane that alternately draws air into its folds and squeezes it out as the folds respectively expand apart and press together in response to inputted audio signals. This design produces four times as much air movement as does a piston-based design, creating higher sound pressure levels [SPLs] with lower distortion. On a practical level, the U-ART tweeter lets you hear pristine details in your mixes with far greater clarity that, along with the tweeter's superior off-axis performance, help you make better decisions in the creative process that will translate faithfully to other playback systems. What's more, you can listen at louder levels than with conventional monitors without suffering listening fatigue.

ADVANCED WAVEGUIDE, WOOFER, AMPLIFIERS, CROSSOVERS AND CABINETS

The U-ART tweeter is fitted to a new, precision waveguide that provides highly uniform dispersion of high frequencies. The result is an incredibly wide sweet spot that frees you from being glued to a rigid mix position while working. The T Series' allnew polypropylene woofer and the cabinet's rear-firing bass-reflex port together provide ultra-smooth, highly accurate midrange and extended bass response. New Class D amplifiers and power supplies are custom-matched to the tweeter and woofer for optimal performance: The U-ART tweeter is powered by a 20 W amp, while a 50 W amp serves the woofer. The new Class D amps, in combination with the U-ART's powerful 4:1 velocity transfer ratio [the tweeter's ability to move air four times as much as other designs], let you listen at very loud levels without listening fatigue.
DSP-controlled driver crossovers ensure there are no holes at the crossover frequency between drivers—when mixing, what you hear is what you get. This precision is complemented by the T Series' all-new beveled cabinets, which minimize diffraction to produce superior imaging that lets you hear the discrete placement of panned tracks in the stereo field with pinpoint accuracy.

VERSATILE CONNECTIONS AND CONTROLS

On the rear side of each T Series monitor, a sturdy metal backplate is home to a comprehensive assortment of controls and analog input connections that adapt your monitors to virtually any professional system:

- A balanced XLR connector and unbalanced RCA jack allow connection to professional mixers and I/O boxes using +4 dBu or -10 dBV nominal operating levels.
- Each monitor has its own level control, which is especially useful to balance output levels between left and right monitors when they're used in an asymmetric control room.
- Two 3-way switches respectively adjust the monitors' high- and low-frequency responses ±2 dB or select flat response, adapting the monitors to any room's acoustic signature.
- T5V, T7V and T8V can automatically accept AC voltages ranging from 100 to 240 V, at 50/60 Hz — simply activate the power switch for each monitor and go!

Please see Section 3 of this manual for an illustrated key to the T Series' rear-panel connections and controls. Optimal use of rear-panel connections and controls is explained in greater detail in Sections 4 and 5 of this manual.

OPTIMAL PLACEMENT OF YOUR MONITORS

The T Series monitors' small footprints allow placement anywhere in your room, no matter how small. However, you'll get the very best sound out of your monitors by placing them at optimal positions in your room. T Series monitors incorporate a nearfield design and should be placed on speaker stands, a console bridge or a desktop in relatively close proximity to [ideally about three feet from] your mix position. Such placement ensures that the sound you hear coming directly from the monitors will be louder than that which is indirectly arriving at your ears after reflecting off your room's walls, floor and ceiling. By placing the monitors close to your mix position [and following other guidelines discussed next], your T Series monitors will provide an accurate reference of your mix, untainted by reverberation, tonal colorations and phase cancellations caused by your room.

Other considerations are equally important. If your control room is not symmetrical at one end [such as in a space with an alcove off to one side], you'll get the most balanced frequency response from left and right monitors if you set them up at the other, symmetrical end of the room [see Fig. 1].

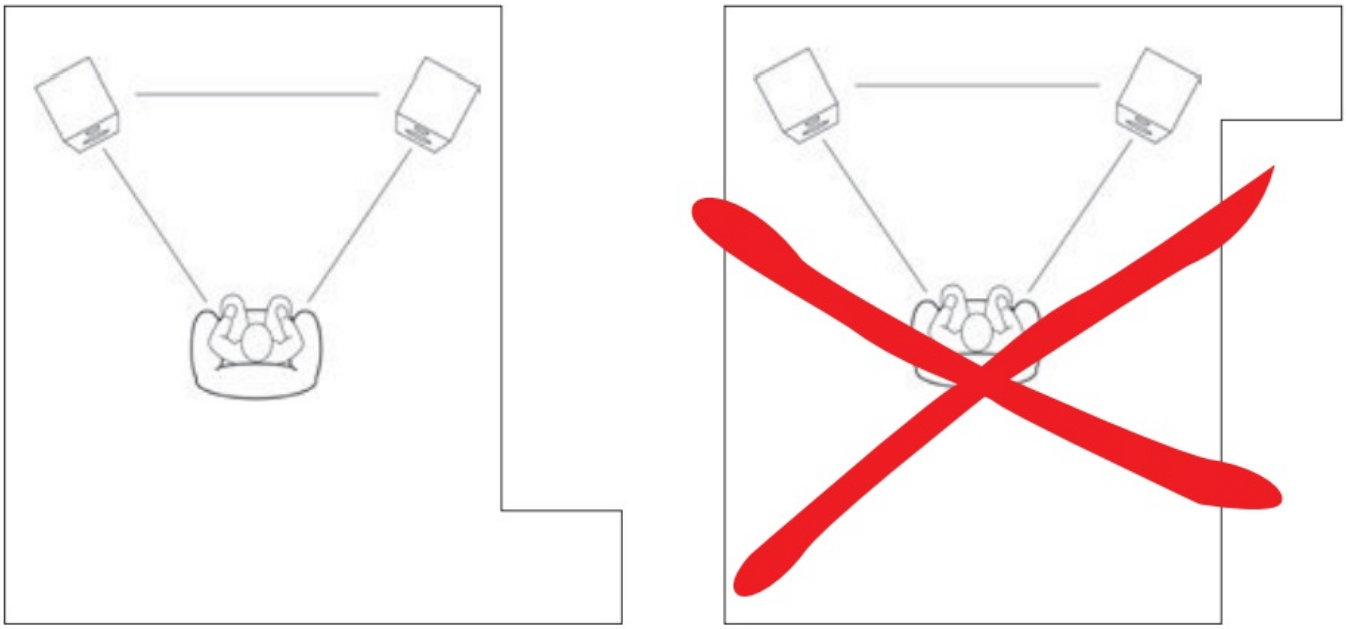

Fig. 1

Ideally, you'll want your monitors pointing down the length of the room so that the rear wall is as far away from your mix position as possible [see Fig. 2]; this will make the direct sound emanating from your monitors much louder than the sound bouncing off the back wall, thereby minimizing peaky-sounding comb filtering and preventing your T Series monitors' precise imaging from being changed.

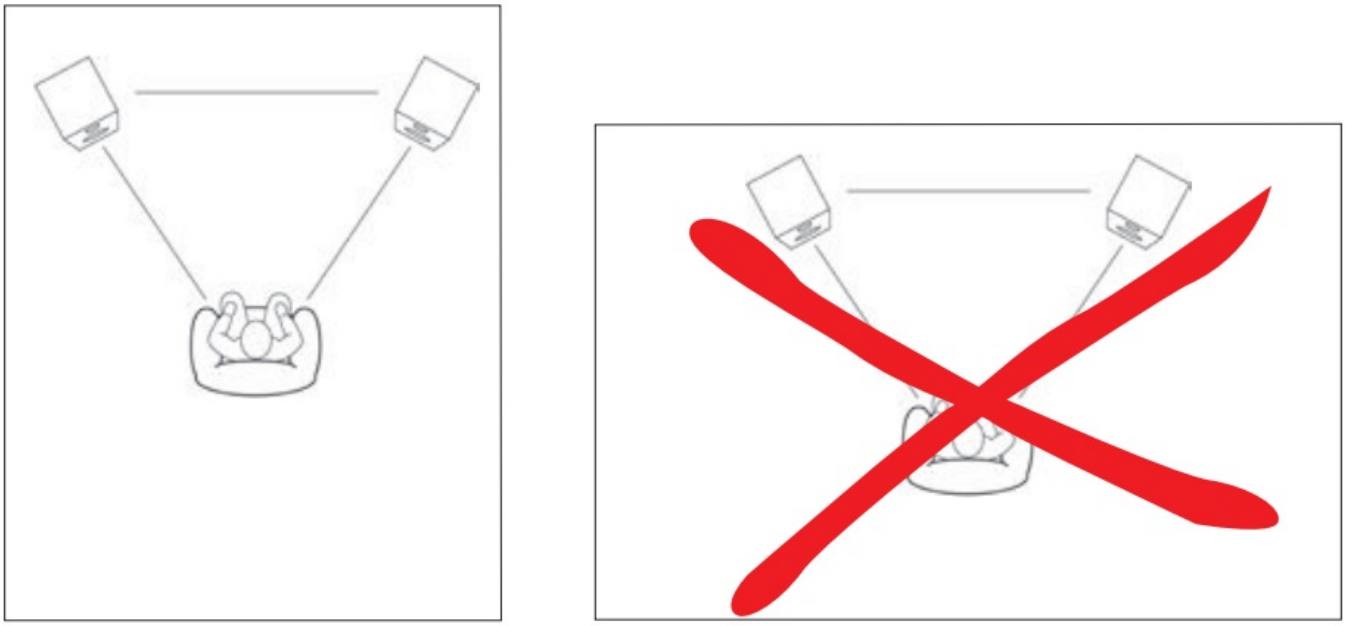

Fig. 2

To avoid introducing unwanted boosts and dips in bass-frequency response, avoid placing each monitor so that its woofer is an equal distance from two or more nearby boundaries [for example, front and side walls, or a wall and floor]. The monitors will have the same bass response if you place them in mirror images with respect to nearby walls; that is, the left monitor should be the same distance from the left wall as the right monitor is from the right wall, and both monitors should be the same distance from the front wall that's behind them [see Fig. 3]. For the flattest bass response, each monitor should be placed at least 16 inches from the nearest wall.

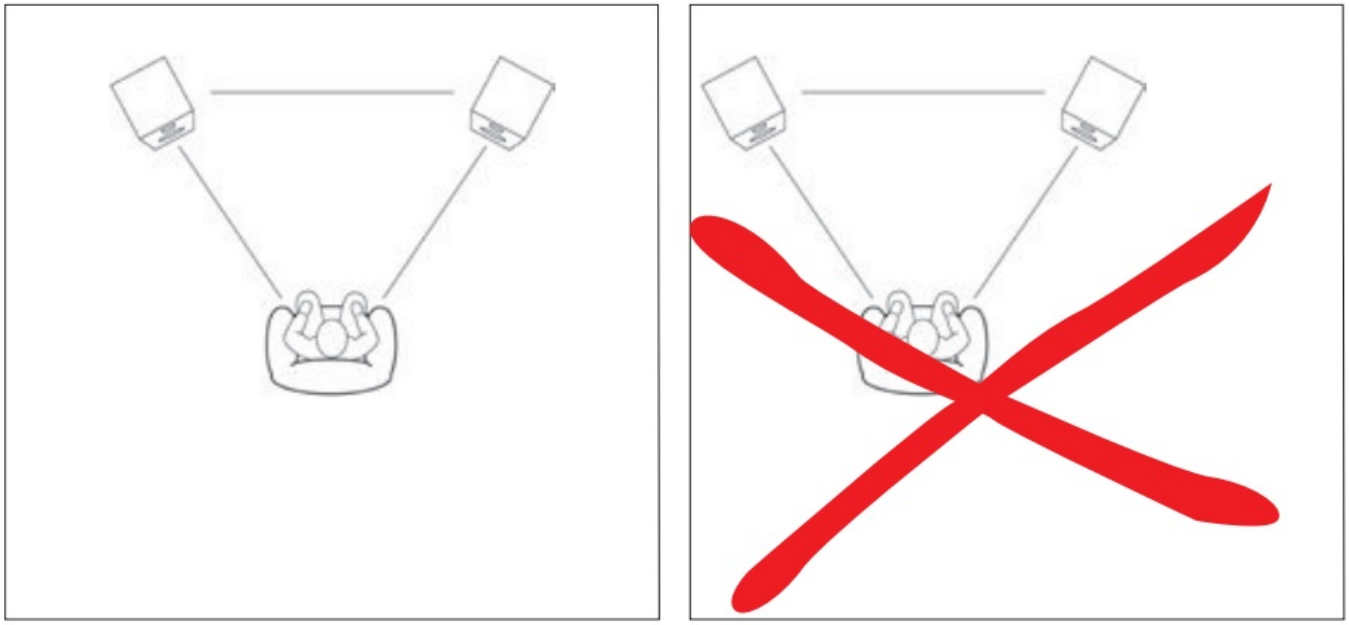

Fig. 3

The monitors' tweeters should be at ear level when you're sitting at your mix position.
If this isn't feasible, angle the monitors up or down so that the tweeters are aiming at your ears [see Fig. 4]; we recommend sitting your T Series monitors on isolated speaker stands that can be adjusted to modify the tilt angle of your cabinets so that the tweeters are aiming at your ears. The speaker stands should "decouple," or acoustically isolate, the cabinets from the shelves, tabletop or console bridge they are placed on, thereby preventing muddy-sounding upper-bass resonances that would change the T Series monitors' balanced bass response.

Documents / Resources

	ADAM AUDIO T Series Powered Studio Monitors [pdf] Instruction Manual T5V, T7V, T8V, T Series Powered Studio Monitors, T Series, Powered Studio Monitors, Studio Monitors, Monitors

References

- AUDIO - Das Magazin für HiFi, Surround, High End, Musik - connect
- ADAM Audio - High Precision Studio Monitors from Berlin, Germany
- ADAM Audio - MyADAM User Area Log In And Registration
- ADAM Audio (@adam_audio) • Instagram photos and videos
- User Manual