
OWNER'S GUIDE

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DESCRIPTION

The 250AM is a superb multi-purpose compact loudspeaker developed to provide outstanding performance in stereo audio systems and home theaters alike.

The 250AM is a two-way bass reflex design (F_b 40Hz) utilizing three magnetically shielded drivers: two 5" aluminum cone midbass drivers and one $\frac{3}{4}$ " synthetic dome tweeter. The baffle area about the tweeter is coated with a pressed wool felt to damp reflections and reduce diffraction artifacts. Internally the speaker employs a combination of crimped fiberglass batting and open-cell foam to control rear-wave energy. The $\frac{3}{4}$ " MDF cabinet employs twin shelf braces to prevent panel resonance. The 250AM's circuit components include the finest metallized polypropylene capacitors, non-inductive metal-oxide film resistors, and hexagonally wound air-core high-purity copper inductors. Teflon®-jacketed 14-gauge silver-plated oxygen-free copper internal wire is used throughout. All components are wired point-to-point for a minimum of discontinuities in the signal path. Every aspect of the 250AM design has been thoughtfully engineered to yield astounding performance and value.

PLACEMENT

Positioning

Please experiment as much as possible to determine the optimum orientation for your loudspeakers and treatment of your particular listening room.

Note: The 250AM's front grille is an integral part of its design and sonic performance and subsequently is non-removable.

- The 250AM may be placed either vertically or horizontally. For optimum performance, the speaker should be placed on a dedicated, inert loudspeaker stand 24 to 33 inches (61 to 84 cm) tall, and at least 16 inches (41 cm) from the wall behind it.
 - The 250AM is magnetically shielded to permit placement near television or computer monitors in a home theater or computer audio system.
 - For best stereo imaging, each loudspeaker should be an equal distance from the main listening position. Left and right speakers should be in symmetry with the room.
 - Imaging and spaciousness will improve as the speakers and/or listening position is moved away from nearby walls.
 - For more bass reinforcement, move the speakers closer to the room corners, or move the speakers and/or listening position closer to the wall behind.
- For optimum results, make certain there are no objects between the speakers and the listening area (e.g. a coffee table)—or any large objects near the speakers or listeners—that will cause reflections to degrade performance.
 - Experiment with the horizontal angle the speaker is pointed, or degree of “toe-in”, to optimize image focus of stereo pairs. Listen to correlated (left channel = right channel) pink noise or any monophonic recording, and experiment aiming the speakers to optimize the strength of a coherent central image
 - Ideally the listening room should be acoustically neutral—neither “live”, with excessive reflective surfaces, nor “dead”, with excessive absorbent surfaces. If necessary, contact your Auvia Loudspeakers dealer for specific recommendations on room treatment.

Bumper Feet

Four soft polyurethane bumpers are included for use beneath the cabinet. These bumpers are important to isolate the cabinet from the environment, and set the natural resonance of the cabinet to the sub-sonic range. Use of the self-adhesive backing is optional, though it is recommended to minimize the bumpers' compression.

WIRING

Speaker Cable Selection

The quality and type of speaker cable used can have a dramatic impact on system performance. However, since it is the *relationship* of the driving amplifier, cables, and speakers that determines ultimate sound quality, and because listener preference is a factor, we cannot offer any specific cable recommendations.

In general, speaker cables should be of equal length if possible, and as short as possible. The following chart may be used to select an appropriate *minimum* wire gauge given a cable run length.

Wire Gauge (AWG)	Length (feet)	Length (meters)
8	58	18
10	34	10
12	22	7
14	14	4
16	9	3
18	5	2

Connections

Be sure your amplifier is off before making connections. This will avoid damage that may result due to accidental shorting of the speaker cables.

Be certain to observe correct polarity, or phase, when connecting any loudspeaker to your amplifier. The positive (red) terminal on the loudspeaker must be connected to positive terminal on the amplifier, and the negative (black) terminal on the loudspeaker must be connected to the negative terminal on the amplifier. Also be sure that you make a very tight connection between the binding post and the cable connector. Periodic inspection of all connections is recommended.

PERFORMANCE

Break-In

For optimum performance, new speakers should be broken-in prior to regular listening. This may

be accomplished by playing moderately loud, dynamic music or break-in disc for a total of at least 50 hours. Make certain your amplifier does not clip from being overdriven, as the heat generated will damage the loudspeaker! Please note that damage resulting from abuse is not covered in the product warranty, and sustained excessive volume levels should be avoided!

Signal Purity

The 250AM is optimized for use with high-quality front-end equipment (including cabling) without use of extraneous processing. If your audio system offers any such processing – equalization, loudness, tone controls, DSP effects, or other enhancement – it should be turned *off* for optimum performance. Consult the instructions supplied with your other equipment to ensure your audio signal is kept as pure as possible.

POWER

The recommended power rating is provided as a guideline. In practice, to prevent damage to any loudspeaker, avoid volume levels beyond where the sound is “clear”. If the sound becomes distorted or strained, immediately reduce the volume.

Higher-powered amplifiers are actually *safer* for loudspeakers, all else equal, because insufficient amplification causes distortion that can easily damage a loudspeaker.

SPECIFICATIONS

Main Drivers	two 5" Aluminum cone (12.7 cm)
Tweeter	one ¾" polymer dome (1.9 cm)
Freq. Response (Hz)	40 (F ₀) to 22k
Sensitivity (2.83V, 1m)	87dB
Recommended Power	50 to 200 W
Impedance (rated, min.)	5-ohm, 4-ohm
Dimensions	19.25" x 8" x 11" (49 x 20 x 28 cm)
Weight	27 lb. (12.2 kg)

Specifications subject to change

Your Auvia Loudspeakers dealer should have the necessary resources to investigate any problems you may experience when setting up your system. However, if you find that you need additional support, do not hesitate to contact Auvia Loudspeakers / SCE Design by telephone at (315) 771-4159, or by email at info@Auvia.com.

Thank you and enjoy!

LIMITED 90-DAY WARRANTY*

SCE Design warrants that this loudspeaker is free from defects in material and workmanship under normal use and authorizes free service and/or parts replacement for a period of 90 days from date of purchase (by the original purchaser only) directly from SCE Design or from an Auvia Loudspeakers authorized dealer in the United States of America.

All parts, except the cosmetics, are warranted for 90 days, from the date of purchase and will be replaced if, in the sole judgment of SCE Design, they shall be deemed defective over and above that considered to be normal wear. This warranty does not apply to equipment showing abuse or damage, or to parts that, in our judgment are not defective; nor does it extend to any equipment that may have been tampered with, altered or repaired outside an SCE Design service facility.

Proof of purchase (e.g. the sales receipt) must be presented to the SCE Design authorized service facility whenever any warranty service is required.

Loudspeakers sent to SCE Design for service must be sent in original packing, with freight and insurance charges prepaid by the owner. Loudspeakers will be returned freight prepaid.

In all cases of in-transit damage, the purchaser must file a claim against the carrier.

This warranty is in lieu of all other warranties expressed or implied and there are no other warranties valid. No one is authorized to assume any liability on behalf of SCE Design or

impose any obligation on it in connection with the sale of any equipment other than as stated in this warranty. SCE Design shall not be responsible in any way for consequential or indirect damage or liabilities resulting from the use and operation of the product covered herein or resulting from any breach of this warranty or any implied warranty relating to the said product.

EXTENDED 5 YEAR LIMITED WARRANTY

To extend your warranty for a full five years, you must return the product registration form completed in full within 14 days of the date of purchase. Your warranty does not cover abuse – such as burned voice coils or ruptured cones – due to excessive power or malfunctioning amplification equipment. This extended warranty contains the identical provisions as the 90-day warranty – but for a period of five years after the date of purchase by the original owner. The product must be registered for this warranty to be valid.

This extended warranty is transferable, provided proof of purchase by each owner is available.

*This warranty represents a limited warranty as per definition of the Federal Trade Commission. (Magnuson-Moss Warranty Act)



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