

Sunfire

XT SERIES

ATMOS™ Subwoofer

XTATM265
and XTATM265230

Quick Start Guide

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	ATTENTION RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR	
WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.			
AVIS: Pour réduire le risque d'incendie ou de choc électrique, ne pas exposer cet appareil sous la pluie et l'humidité.			
The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus. <i>L'appareil ne doit pas être exposé aux écoulements ou aux éclaboussures et aucun objet ne contenant de liquide, tel qu'un vase, ne doit être placé sur l'objet.</i>			
	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. <i>Le symbole de l'éclair fêché dans un triangle équilatéral, est destiné à alerter l'utilisateur de la présence d'une "tension dangereuse" dans le boîtier du produit qui peuvent être des ampleur suffisante pour constituer un risque d'électrocution aux personnes.</i>		
	This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance. <i>Ce symbole est destiné à alerter l'utilisateur de la présence d'opération et de maintenance (entretien) dans la documentation accompagnant l'appareil.</i>		
Important Safety Instructions			
<ol style="list-style-type: none"> Read these Instructions. <i>Lisez ces instructions.</i> Keep these Instructions. <i>Conservez ces instructions.</i> Heed all Warnings. <i>Respectez tous les avertissements.</i> Follow all instructions. <i>Suivez toutes les instructions.</i> Do not use this apparatus near water. <i>Ne pas utiliser cet appareil près de l'eau.</i> Clean only with a dry cloth. <i>Nettoyer uniquement avec un chiffon sec.</i> Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. <i>Ne pas bloquer les ouvertures de ventilation. Installer conformément aux instructions du fabricant.</i> Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 	<ol style="list-style-type: none"> Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. <i>Ne détruisez pas la sécurité de la terre ou polarisées - fiche. Une fiche polarisée possède deux lames dont une est plus large que l'autre. Si la fiche fournie ne rentre pas dans votre prise, consultez un électricien pour remplacer la prise obsolète.</i> Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. <i>Protégez le cordon d'alimentation d'être piétiné ou pincé, particulièrement au niveau des fiches, des prises, et le point où ils sortent de l'appareil.</i> 		
Important Safety Instructions continued on panel below and left			

Important Safety Instructions continued...

- Only use attachments/accessories specified by the manufacturer.
N'utilisez que des accessoires spécifiés par le fabricant.
- Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus, combination to avoid injury from tip-over.
Utilisez uniquement un chariot, stand, trépied, support ou table spécifiés par le fabricant ou vendu avec l'appareil. Quand un panier ou rack est utilisé, faites attention lorsque vous déplacez l'ensemble chariot / appareil, pour éviter d'éventuelles blessures en cas de chute.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes de temps.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce cordon d'alimentation ou la fiche est endommagé, liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement, ou s'il est tombé.
- WARNING:** The mains plug (appliance coupler) is used as disconnect device, the disconnect device shall remain readily operable.
AVERTISSEMENT: La fiche d'alimentation (appareil coupleur) est utilisé comme dispositif de déconnexion, le dispositif de déconnexion doit rester facilement accessible.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
Aucune source de flamme nue, telle que des bougies allumées, ne doit être placé sur l'appareil
- Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.
Borne de terre de protection.
L'appareil doit être connecté à une prise secteur avec une prise de terre.

Introduction

Thank you for purchasing this Sunfire ATMOS Subwoofer. We hope you enjoy it and the music it makes as much as we have enjoyed creating it for you.

The big breakthrough features of the subwoofer are its uncanny tracking downconverter, its long throw, high back-electromotive force driver, and its fully automatic room equalizer. Taken together, they provide this subwoofer with as much bass as you could get from several 15 inch drivers mounted in a cabinet the size of a small refrigerator.

Unpacking

Your Sunfire Subwoofer should reach you in perfect condition. If you do notice any shipping damage, please contact your Sunfire Dealer immediately.

Gently lift out the unit and remove all the packing material. It is important to save all the

packing materials and the box in case your subwoofer ever needs to be moved or shipped for repair.

Make sure that you keep your sales receipt. It is the only way to establish the duration of your Limited Warranty and it may come in useful for insurance purposes.

Please take a moment to fill out and mail the Sunfire Customer Response card. Also read the serial number located on the control panel and record it and keep some place safe.

Care

To maintain the speaker cabinet's finish, first unplug the power cord and then use a soft cloth to clean the surfaces.

If your Sunfire Subwoofer needs servicing, please read the Troubleshooting section in the owner's manual. If a problem persists, contact your nearest authorized Sunfire Dealer.

Features

- 1400 watt, high efficiency amplifier
- Automatic Room Equalization mode
- Measurement Microphone included
- Very low distortion
- Long throw, premium quality drivers
- Stunning output from a small cube!
- Automatic signal-sensing turn-on and standby mode
- 12 VDC trigger input for remote turn-on
- Line-level unbalanced inputs
- Line-level outputs with high-pass or full-range switch
- Continuously variable phase control
- Continuously variable crossover frequency
- Continuously variable volume level control
- Soft clipping circuit allows graceful overload and prevents speaker damage due to clipping
- Gold-plated inputs and outputs.

Specifications

Amplifier Output
1400 watts rms (3.3 ohm impedance)

High Cut Filter
30 Hz - 100 Hz adjustable, with "bypass" position.

Frequency Response
30 Hz - 100 Hz

Power Line Voltage
100-120 VAC 50/60 Hz version
220-240 VAC 50/60 Hz version

Dimensions (HxWxD)
8.5 x 8.9 x 10.1 inches
216 x 226 x 257 mm

Weight
32 lb (14.5 kg)

Output levels:
Peak SPL (including room gain):
106 dB
Measured at one meter, anechoic.

Driver:
6.5 inch

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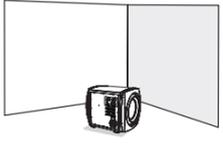
Warranty

Sunfire, a division of The AVC Group, LLC, is proud of its products which have been built with care using advanced technology and premium component parts. Your unit has been crafted to perform properly for many years. The warranty details for your product are shown on the sunfire website.

Service

If your Sunfire product ever requires service, please contact your nearest authorized Sunfire Dealer.

Location



Your ATMOS Subwoofer is designed to be placed in a corner for optimum performance. The Auto EQ mode will let you adjust for the room effects, but you should find the best location first. Experiment with at least two corners and decide which sounds the best.

Although low frequencies are non-directional, room reflections, standing waves, resonance and absorption strongly affect the performance. Moving the subwoofer from one corner to another can have a major effect on the bass response.

Keep it at least two or three feet away from any CRT screen, computer, VCR or magnetic tapes and discs. This will reduce the chance of the magnetic fields upsetting the CRT screen or erasing your magnetic media.

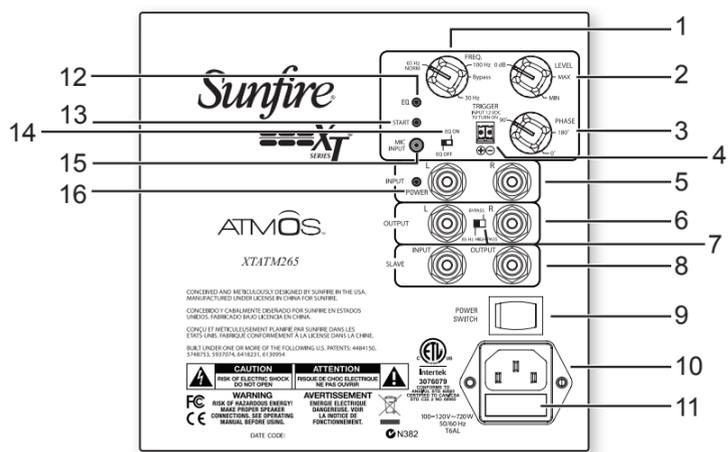
Also position the control panel so that it is not touching anything and can receive good ventilation.

Using Two Subwoofers

With two subwoofers, the sound output will double. Place each subwoofer in a corner, and experiment with the location and phase control to achieve the best bass response.

Use the Slave input and output connections if you are using two ATMOS subwoofers.

Control Panel Features



1. **Crossover Frequency**
This control changes the high frequency cutoff point. Rotate the control until the bass sounds natural.
2. **Level**
This control lets you match the output level of the subwoofer to the level of your other speakers.
3. **Phase Control**
This control changes the relative phase of the subwoofer with respect to the other speakers. Use this control to help blend the subwoofer with the rest of the system.
4. **Trigger Input**
The trigger input can be used to automatically turn on the subwoofer from Standby mode. To do this, connect +12 VDC to the positive (+) terminal, and ground to the negative (-) terminal.
5. **Line-Level Inputs**
Connect these unbalanced inputs with RCA type patch cords to the line-level outputs of your receiver or preamp. If your preamplifier or receiver has a single sub/LFE output, connect it to either input jack.
6. **Line-Level Outputs**
These outputs are active whenever a signal is hooked up to the inputs. The outputs are not affected by the controls, or EQ of the subwoofer.
7. **Output Switch**
In the Bypass position, the outputs are a full-range copy of the input signals. In the 85 Hz position, the outputs are a copy of the input signals with the frequencies below 85 Hz removed.
8. **Slave Input and Output**
These connections simplify the hookup and operation of two ATMOS subwoofers.

Connect the slave output from the first subwoofer to the slave input of the second.

9. **Power Switch**
Turn this off when installing and uninstalling the subwoofer, and for power conservation during long vacations. Leave it switched on at all times for normal operation.
10. **IEC Linecord socket**
The subwoofer comes with a detachable linecord that connects here. Make sure the power cord is connected to the correct AC power for your model.
11. **Line Fuse**
The subwoofer is supplied with a conservative slow-blow type fuse to protect the electronics.
12. **EQ LED**
This LED provides feedback during the EQ procedure. It also lights continuously whenever the subwoofer is not in standby.
13. **Start button**
Press this once to enter the Auto EQ setup mode. See **Room Equalization Procedure** section for details.
14. **EQ ON/OFF Switch**
This switch is used to turn the EQ on or off. It allows you to easily judge the effect of the EQ on the subwoofer performance.
15. **Microphone Input**
This is the input connection for the supplied linear measurement

microphone used during the automatic EQ procedure.

16. POWER LED

This red LED indicates when the subwoofer is connected to AC Power. When a 12 volt trigger voltage or an audio signal is applied, this LED goes out and the blue EQ LED lights up.

Connections

Please consider the following when setting up your new system:

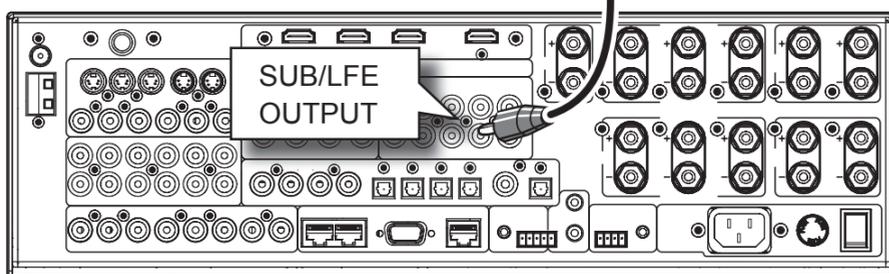
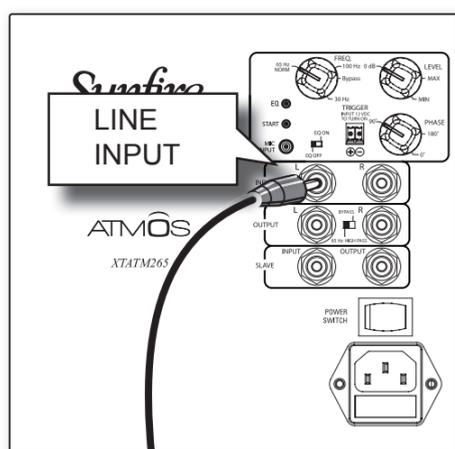
Before making or changing any connections, always make sure that the subwoofer and your other components are turned OFF. Turn down the volume control of both the subwoofer and your processor or receiver.

Route power cords away from the signal cables or speaker wires to prevent hum or interference.

Choose reliable, high quality interconnect cables. They should be fully shielded and as short as possible for the job. The longest cable in your system will likely be to the subwoofer, so choose a good quality brand.

Typical Connections to a Home Theater Receiver

1. Turn off the subwoofer and receiver power before making connections.
2. Connect receiver's Sub/LFE line-level output to the subwoofer's L/LFE input.
3. Set subwoofer's crossover frequency control to BYPASS, volume control to 0 dB, and phase control to 0 degrees.
4. Use the receiver's subwoofer controls to adjust the frequency range and volume.
5. Alternatively, the subwoofer's crossover frequency, volume, and phase can be adjusted carefully to blend the subwoofer into your system.



Room Equalization Procedure

The Sunfire ATMOS can automatically adjust for the effects of Room EQ. It measures the actual frequency response using the supplied measurement microphone, and then automatically compensates for peaks or dips, and smooths out the response.

For best results it is recommended that the subwoofer crossover in your receiver or processor be set to its maximum setting (or "bypass").

EQ Procedure

1. Install the subwoofer in the best location.
2. The calibration must be done while the listening room is quiet.
3. Place the supplied microphone in the listening position (on the couch, for example), pointing in the direction you'll normally be facing while listening to your system.
4. Plug the microphone into the subwoofer's microphone jack.
5. Set these controls:
 - Volume to 0 dB.
 - Crossover to "Bypass."
 - Phase to "0."
 - EQ ON/OFF switch to ON
6. Avoid making noise during this procedure. Turn on the subwoofer AC power switch. Next, press the START button for five seconds to enter calibration mode. You will hear a loud low rumble sound coming from the subwoofer.
7. After about 10 seconds press the START button again and sound will come from the subwoofer at a different frequency.
8. Wait another 10 seconds and press the START button again. A new frequency will come from the subwoofer.

9. You'll need to wait another 10 seconds and then press the START button again. A fourth tone will come from the subwoofer.
10. Finally, after another 10 seconds press the START button again and hold it until the sound stops. Your Atmos subwoofer is now equalized to your room.
11. Unplug the microphone and store it in a safe place.
12. Finish the setup by adjusting the Atmos VOLUME, CROSSOVER and PHASE appropriately and calibrating your surround sound receiver/processor according to its owner's manual.
13. If you add/remove heavy draperies or large furniture or move the Atmos to a new acoustic environment repeat steps 6-12.

Resetting the EQ

1. Turn off the subwoofer using the AC power switch.
2. Hold down the Start button and turn on the AC power switch.
3. Keep the Start button held down for 10 seconds while the blue EQ LED flashes.
4. When the LED goes out, the EQ is reset to the flat factory setting.

EQ Procedure with Two ATMOS Subwoofers

1. If you are using two ATMOS subwoofers, make sure that they are connected using the SLAVE output of the first sub to the SLAVE input of the second.
2. Connect the microphone to the first ATMOS subwoofer only.
3. The EQ room measurement will take into account the sound from both subwoofers, and the EQ adjustment will affect both subwoofers.

