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DIGITAL CINEMA

## Sunfire SDS-10 Subwoofer



When you want to experience more from your movies and music, the SDS-10 steps up to deliver peak power output of 500W using a 10" custom Sunfire driver that is mated to a 10" down-firing radiator. Twice the woofers for twice the bass! The SDS-10 incorporates Sunfire's wide-band, energy efficient Class D amplifier and produces twice the output of its smaller sibling - while only consuming a half a watt in standby. Sunfire's exclusive FFDTM technology results in superior fidelity, higher output and with lower distortion than the competition.

Design	
Woofers	10"
Configuration	Front firing active woofer, down firing passive radiator
Amplifier	
Power Output	250W RMS / 500W Peak
Soft Clipping Circuitry	✓
Features	
Auto Turn-On	✓
Level Control	✓

Crossover Adjustment	30-150Hz inf. var.
Crossover Bypass	✓
Phase Adjustment	0-180° inf. var.
<b>Connections</b>	
Inputs	RCA Inputs/Outputs
Gold Plated Connections	✓
Detachable Power Cord	✓
<b>Miscellaneous</b>	
Finish	Black ash
Grille	Black

<b>Performance</b>	
Frequency Response	30-150Hz
Maximum SPL (inc. room gain)	103 db
Driver Impedance	4 ohms
Input Impedance	10K ohms
<b>General</b>	
Power Consumption (120VAC, 50-60Hz)	40W (Based on 1/8th power all the time at 35Hz)
Standby Consumption (120VAC, 50-60Hz)	0.5W
Dimensions (W x H x D) including grill and feet	13.23 x 16.23 x 13.94" / 336 x 412 x 354 mm
Weight	

## Features

**Passive Radiator Design:** A front firing, 10" custom Sunfire driver is acoustically matched to an 10" down-firing passive radiator, creating nearly double the output compared to conventional single-driver designs

**250W Amp w/ Soft Clipping Circuit:** Sunfire's digital amplifier delivers 250W or RMS output and 500W of Peak output. A compressor circuit kicks in automatically if the input signal level reaches a level that would overload the driver. This maintains a ceiling on the output without clipping. If the input signal is driven even further, a Soft Clipping circuit is enabled to prevent driver damage.

**Controls:** Controls for adjusting the volume, crossover frequency and phase, allow the subwoofer to be perfectly matched to any listening environment and audio components.

- **Level:** This control lets you match the output level of the subwoofer to the level of your other speakers. The subwoofer output will increase as this control is rotated clockwise.
- **Crossover:** This control changes the high frequency cutoff point. With the control set to 150 Hz, the subwoofer will reproduce frequencies up to 150 Hz. If the control is set fully clockwise, the crossover is bypassed and the subwoofer will reproduce a wide frequency

range. With the control fully counter-clock wise the subwoofer reproduces a narrow range, up to 50 Hz. Rotate the control until the bass sounds natural. If the mid-bass sounds natural but you want more low bass, turn this control down a little, then turn the Volume control up by about the same amount. This increases the low-bass output while leaving the mid-bass output the same.

- **Phase:** This control changes the relative phase ( $0^{\circ}$ - $180^{\circ}$ ) of the subwoofer with respect to the other speakers. Use this control to help blend the subwoofer with the rest of the system. This is accomplished by adjusting the control in small increments as you listen for the most bass at your listening position. As a final adjustment, readjust the Crossover Frequency and Volume controls after the Phase has been set.

**Connections:** The Sunfire SDS-10 powered sub is fitted with RCA inputs and outputs.

- **LFE/RCA 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 Left RCA input jack.
- **Line-Level Outputs:** These stereo RCA output jacks are a copy of the signals going into the powered sub's inputs, except the bass has been removed by a fixed high-pass crossover circuit (85Hz). The output is not affected by the subwoofer's controls.

**Auto Turn-On/Standby:** The powered subwoofer has a special power circuit which automatically turns the powered subwoofer on when a signal is fed to the loudspeaker and turns it off when there is no signal present (approximately 15 minutes).

**Placement:** Although low frequencies are non-directional, factors such as room reflections, standing waves, resonance and absorption will strongly affect your subwoofer's performance. Moving the subwoofer from one location to another can have a major effect on the bass response. The Sunfire SDS-10 powered subwoofer is designed to be placed in a corner for optimum performance.