

# THIEL SmartSubs®

## Coherent Source® Loudspeakers

*The ultimate solution for high performance bass reproduction and management in home music and theater systems*

**T**HIEL'S NEW FAMILY OF ultra-high performance

SmartSub® bass systems are designed as the ultimate solution for bass management and reproduction in home theater and music sound systems. The SS1, SS2, SS3, and SS4 subwoofers, SI 1 SmartSub Integrator, and PX02 and PX05 Passive Crossovers redefine the category to offer the most seamless and realistic low frequency reproduction possible.

The THIEL SmartSub products are the most technologically advanced bass systems ever developed for seamless sonic integration in home audio and video sound systems. THIEL's SmartSub technology eliminates the major problems and limitations that conventional subwoofers have in matching the system's main speakers and the room. These are the world's first intelligent subwoofers.



**SmartSub woofer**

*SmartSubs use very high output, very low distortion drivers with THIEL's innovative short coil/ long gap*

*motor systems to achieve extremely low distortion. Large magnet structures and special high excursion suspensions allow each driver to move a very large amount of air for effortless, realistic reproduction of the most demanding sources.*



*From left to right, rear: SS1, SS2, SS3, SS4 subwoofers.  
From left to right, front: SI 1 Integrator, PX02 and PX05 Passive Crossovers*

- *Each of the four subwoofers can be easily adjusted to accurately eliminate room interaction problems for any placement.*

- *Short-coil, long gap, copper-stabilized driver motor systems for ultra-low distortion*

- *Unique electronic circuitry in the SS2, SS3, and SS4 corrects for compression distortion due to heating of the drivers' voice coils for more dynamic and effortless reproduction.*

- *The SmartSub Integrator can be adjusted to automatically match THIEL subwoofers to your main speakers, regardless of brand, for accurate and seamless sonic integration.*

- *Beautiful cabinetry, available in a variety of finishes, integrates well into any room.*

- *Provides great realism for both music and movies*

### THIEL's patented SmartSub technology

The four subwoofers are powered, stand alone systems for reproducing the "point one" channel in a home theater system. They can also be used with either the companion SmartSub Integrator or with the PX02 or PX05 Passive Subwoofer Crossovers to allow reproduction of the bass range of the other audio channels.

The subwoofers and Integrator both incorporate aspects of THIEL's patented SmartSub technology:

- The SmartSub Integrator can be adjusted to match THIEL subwoofers to your main

speakers, regardless of brand or type, for the most accurate and seamless sonic integration possible.

- Each of the subwoofers can be easily adjusted to eliminate room interaction problems for any placement, without microphones or complicated measurements.

- Unique electronic circuitry in the SS2, SS3, and SS4 corrects for compression distortion due to heating of the drivers' voice coils for more dynamic and effortless reproduction.

### SmartSub amplifier



*The SmartSub internal amplifier powers the*

*SS2, SS3, and*

*SS4 with 1000 watts and*

*provides correction for room boundary problems and compression distortion.*



### SS4

#### Driver Configuration

2 x 15-inch woofers

#### Subwoofer Cabinet

*LFE Input response:*

16 Hz-300 Hz, +, -3dB

*Normal input response:*

10 Hz-300 Hz, +, -3dB

*Size:* 19" W x 28" D x 51" H

*Weight:* 290 pounds

*Acoustic Output:*

up to 113dB @ 20Hz, 120dB @ 30Hz

*Sensitivity:* 1 volt for 120 dB@1m

#### Amplifier

*Type:* Switching, Class D

*Power:* 1000 watts, RMS

## Four subwoofers for any application

The **SS1**, **SS2**, **SS3**, and **SS4** share several innovative design features that provide exceptionally deep, uniform, dynamic and low distortion bass down to 10 Hz: THIEL's innovative short coil/long gap motor systems achieve extremely low distortion, and the drivers' aluminum diaphragms contribute to the subwoofers' outstanding tonal response; Unusually large magnet structures and special high excursion suspensions allow the subwoofers to move a very large amount of air for effortless, realistic reproduction of the most demanding sources; The subs are powered by an internal 1000 watt high efficiency switching mode amplifier (SS1 is 500 watts) with thermal overload protection.



### SS3

#### Driver Configuration

2 x 12-inch woofers

#### Subwoofer Cabinet

*LFE Input response:*

16 Hz-300 Hz, +, -3dB

*Normal input response:*

10 Hz-300 Hz, +, -3dB

*Size:* 16" W x 22.25" D x 34" H

*Weight:* 167 pounds

*Acoustic Output:*

up to 109dB @ 20Hz, 116dB @ 30 Hz

*Sensitivity:* 1 volt for 120 dB@1m

#### Amplifier

*Type:* Switching, Class D

*Power:* 1000 watts, RMS



### SS2

#### Driver Configuration

2 x 10-inch woofers

#### Subwoofer Cabinet

*LFE Input response:*

16 Hz-300 Hz, +, -3dB

*Normal input response:*

10 Hz-300 Hz, +, -3dB

*Size:* 11" W x 21.25" D x 23.5" H

*Weight:* 108 pounds

*Acoustic Output:*

up to 105dB @ 20Hz, 112dB @ 30 Hz

*Sensitivity:* 1 volt for 120 dB@1m

#### Amplifier

*Type:* Switching, Class D

*Power:* 1000 watts, RMS



### SS1

#### Driver Configuration

1 x 10-inch woofer

#### Subwoofer Cabinet

*LFE Input response:*

16 Hz-300 Hz, +, -3dB

*Normal input response:*

10 Hz-300 Hz, +, -3dB

*Size:* 11" W x 17" D x 20" H

*Weight:* 55 pounds

*Acoustic Output:*

up to 99dB @ 20Hz, 106dB @ 30 Hz

*Sensitivity:* 1 volt for 120 dB@1m

#### Amplifier

*Type:* Switching, Class D

*Power:* 500 watts, RMS

## SmartSub Integrator: Perfectly match any main speaker to a THIEL subwoofer

### The SmartSub

#### SI 1 Integrator

is designed to achieve near-perfect integration between a THIEL

subwoofer and virtually any pair of "main"

loudspeakers. The Integrator takes the guesswork out of subwoofer crossover adjustments. Rather than setting controls for crossover frequency, level, and phase, the Integrator's SmartSub circuitry automatically calculates the ideal settings once you enter information about your main speakers. The result is sonic performance as balanced and seamless as a full-range speaker with extremely high output.

The Integrator can be used in augment mode to extend the bass range of the system's main speakers or in crossover mode to transfer the bass energy from the main speakers into the subwoofer, allowing the



SmartSub Integrator

overall system to play at higher output levels. The Integrator utilizes two-channel circuitry so that stereo bass can be preserved when multiple subwoofers are employed and can be used with up to 16 subwoofers in very large systems. The SI 1 Integrator is 2" H, 17" W and 9" D.

### THIEL Passive Subwoofer Crossovers

allow a THIEL subwoofer to perfectly blend its output to augment the output of main THIEL speakers in systems with main speakers that play sufficiently loud but do not have extended, deep bass response. Individual THIEL model versions of the two-channel **PX02** and the five-channel **PX05** are each designed to create a seamless match with its main THIEL speaker model's normal bass roll-off, extending the entire system's low frequency response to below 20 Hz. The PX05 is custom made to match different models for front, rear and center channel speakers. Passive Subwoofer Crossover cabinets are 2" H, 7" W, 6.5" D.



Passive Crossover

# THIEL

## Ultimate Performance Loudspeakers

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