

more power

**Depth i**

more precision

**Descent i**

more passion



Descent i Subwoofer

#### Descent™ i

- Simultaneous LFE and 2-Channel Connection for Easy Set-Up and Integration
- Top Mounted Control Interface
- Triple Servo Monitoring and Control Sensors for Clean, Precise Output
- BalancedForce™ Woofer Alignment Eliminates Cabinet Vibration
- Trilinear™ Woofer Configuration for a Naturally Powerful, Low-Distortion Performance

Chances are you've heard a few good things about the MartinLogan subwoofers. Five years ago when MartinLogan released our first subwoofer, the Descent, even our closest friends and trusted allies thought we were crazy—what could an electrostatic speaker company know about subwoofer design? It was our fresh perspective that resulted in the revolutionary Descent and challenged nearly every preconception about subwoofer design and performance potential. The new Descent i subwoofer is no different. Beginning with a top to bottom redesign, the Descent i takes everything that was great about the original Descent and turns it to eleven.

Featuring three proprietary 250 watt continuous, 700 watt peak Vojtko™ amplifiers, the Descent i boasts a system total peak of 2100 watts – with an amazingly low total harmonic distortion rating. Even more amazing is that Descent i produces extremely articulate bass without need of exaggerated amplifier power ratings or transient-blurring ported or passive radiator enclosures common to so many subwoofers.

Although there are many elements involved in creating Descent i's magic, the most important are its Trilinear™ BalancedForce™ driver configuration and its very sophisticated servo control system. BalancedForce places three drivers – high-performance 10-inch aluminum-cone units – precisely 120 degrees apart from each other on the cabinet. As a result, their reaction force vectors exactly cancel, virtually eliminating cabinet resonance and vibration—gone with them are the cabinet-radiation coloration and bass blur that afflict even the best conventional subwoofers. Trilinear uses three identical drivers to maintain the low distortion levels and optimal control of an efficient, small driver while moving the same amount of air as a driver three times larger. Additionally, the Trilinear™ configuration spreads the thermal load across three voice

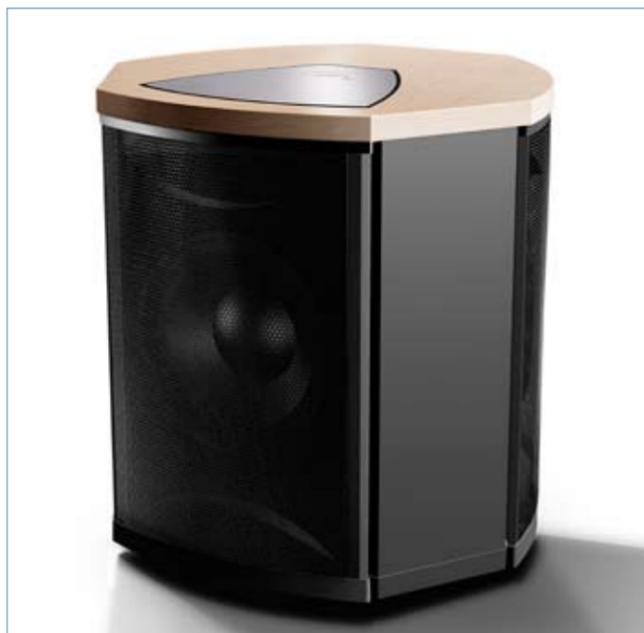
- Sealed Cabinet Enclosure Eliminates Port and Passive Radiator Resonances
- 25 and 50Hz Level Control For Simple Room Integration
- Three Proprietary Amplifiers Offer System Peak of 2100 Watts
- Low-Pass Filters Maximize Blending

coils so they are virtually immune to thermal compression and resulting in higher output over longer periods of time. The servo system, meanwhile, takes care of business with the drivers themselves, ensuring that their output is an absolutely faithful replica of the audio input signal.

Descent i's robust connection and control system allows simultaneous connection of both 2-channel stereo music and multi-channel home theater—and allows each source to have individual crossover and level settings, guaranteeing a perfect performance in every application! LFE input effectively uses no low-pass filter, leaving crossover control to the processor. Left/right line level and speaker level inputs integrate six discrete audiophile grade low-pass filters between 30–80Hz allowing a different level and crossover point when playing back two channel music. Additionally, an internal module in the Descent i can be upgraded with a custom tailored Low Pass Filter setting for use with the MartinLogan CLX loudspeaker (not yet released).

RCA outputs allows multiple Descent i's to operate in a serial configuration. MartinLogan's unique 25 and 50Hz level controls allow adjustment of system response by  $\pm 10$ dB for an unprecedented level of room integration by eliminating low-frequency build-up or suck-out at a room's most problematic bass frequencies. And if that weren't enough, to make setup and integration even easier, all controls are discretely hidden on top of the subwoofer for ultimate accessibility. Proprietary ETC™ spikes couple the Descent i directly to the floor, minimizing lost energy and allowing tight, well defined bass.

The new Descent i subwoofer represents another revolutionary step forward in subwoofer design. More power, more precision, more user friendly, more flexibility in integration, more connection options, more passion, and more performance.



Depth i Subwoofer

#### Depth™ i

- *Simultaneous LFE and 2-Channel Connection for Easy Set-Up and Integration*
- *Top Mounted Control Interface*
- *Triple Servo Monitoring and Control Sensors for Clean, Precise Output*
- *BalancedForce™ Woofer Alignment Eliminates Cabinet Vibration*

Packing all of Descent i's innovative technology, performance, and passion into a cabinet 20% smaller, bringing deep, powerful bass with electrostatic-like detail to any audio system, whether for high-end stereo music listening or multi-channel home theater.

Depth i deploys the full array of MartinLogan's advanced subwoofer technologies to achieve deep, rich, satisfying bass while preserving electrostatic-like accuracy and detail. TriLinear™ BalancedForce™ woofer alignment, a proprietary low-distortion 350 watt (900 watt peak) Vojtko™ switching amplifier, and a sophisticated servo control system extract the very best possible performance from Depth's i three high-resolution 8-inch aluminum-cone drivers.

BalancedForce driver alignment places the subwoofer's three drivers precisely 120 degrees apart from each other so that their forces on the cabinet almost perfectly cancel, reducing cabinet vibration. Depth i's advanced servo system uses a sophisticated monitoring and control circuit to detect and instantaneously correct any deviation between acoustical output and electrical input.

Depth i's robust connection and control system allows simultaneous connection of both 2-channel stereo music and multi-channel home theater—and allows each source to have individual crossover and level settings, guaranteeing a perfect performance in every application! LFE input effectively uses no low-pass filter, instead leaving crossover control to the processor. RCA output allows multiple Depth i's to operate in a serial configuration. Left/Right line level and speaker level inputs integrate six discrete audiophile grade low-pass filters between 30–80Hz, each implemented with filters precision-designed for optimum attenuation slope and minimum group delay. This enables seamless integration with

- *TriLinear™ Woofer Configuration for a Naturally Powerful, Low-Distortion Performance*
- *Sealed Cabinet Enclosure Eliminates Port and Passive Radiator Resonances*
- *25Hz Level Control For Simple Room Integration*
- *900 Watts Peak Proprietary Vojtko™ Amplifier*
- *Low-Pass Filters Maximize Blending*

any MartinLogan main speakers as well as with speakers from other manufacturers. Additionally, an internal module in the Depth i can be upgraded with a custom tailored Low Pass Filter setting for use with the MartinLogan CLX loudspeaker (not yet released).

MartinLogan's unique 25 Hz level control enables the user to compensate for excessive room gain by cutting output in the 20- to 30-Hz range or, if you prefer, to accentuate the feeling of deep-bass energy by augmenting those frequencies. To make setup and integration even easier, all controls are discretely hidden on top of the subwoofer for ultimate accessibility.

Depth i's sealed design exhibits less transient-blurring group delay than ported subwoofers while maintaining a smooth, consistent response regardless of output level. Proprietary ETC™ spikes can be used in place of the standard feet to enhance stability on thick carpets or to create tighter coupling between subwoofer and floor.



**Shipping Fall 2006**

Descent i—\$2,995 each, US retail

Depth i—\$1,995 each, US retail

**Dealer Hotline: (785) 749-3252**

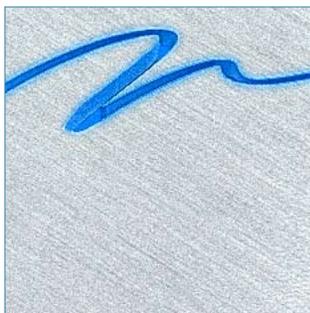
*Accepting orders immediately—first ordered/first shipped*

**Descent i™**

Frequency response:	18–120 Hz ± 3 dB. Anechoic through the LFE effects input
Low Pass Filter Frequencies:	30, 35, 45, 55, 65, 80Hz
High Pass Filter Frequencies:	Bypass, 40Hz, 70Hz
Phase:	0°, 90°, 180°, 270°
25Hz & 50Hz Level:	±10dB
Power:	On, Auto, Standby
Components:	3 × 10" (25.4cm) high excursion, aluminum cone with extended throw driver assembly, sealed non-resonant asymmetrical chamber format
Amplifiers:	3 × 250W (at < 0.24%THD) 3 × 700W (peak) / 2100W (peak, system total)
Inputs:	Left/Right RCA Line Level, RCA & XLR LFE, Speaker Level
Output:	RCA Sub Out (all inputs summed), RCA Right/Left (with High Pass Filter)
Input Impedance:	20,000 Ohms
Power Draw:	Max: 750 Watts; Idle: 30 Watts; Standby: 10 Watts
Weight:	105 lbs each (47.7 kg)
Size:	21.4" H x 20.5" W x 19.9" D (54.4cm H x 51.9cm W x 50.5cm D)

**Depth i™**

Frequency response:	20–120 Hz ± 3 dB. Anechoic through the LFE effects input
Low Pass Filter Frequencies:	30, 35, 45, 55, 65, 80Hz
High Pass Filter Frequencies:	Bypass, 40Hz, 70Hz
Phase:	0°, 90°, 180°, 270°
25Hz & 50Hz Level:	±10dB
Power:	On, Auto, Standby
Components:	3 × 8" (20.3cm) high-excursion, aluminum cone with extended throw driver assembly, sealed non-resonant asymmetrical chamber format
Amplifiers:	350W (at < 0.5%THD) 900W (peak)
Inputs:	Left/Right RCA Line Level, RCA & XLR LFE, Speaker Level
Output:	RCA Sub Out (all inputs summed), RCA Right/Left (with High Pass Filter)
Input Impedance:	20,000 Ohms
Power Draw:	Max: 300 Watts; Idle: 15 Watts; Standby: 10 Watts
Weight:	70 lbs each (31.8 kg)
Size:	17.9" H x 17.1" W x 16.5" D (45.4cm H x 43.5cm W x 41.8cm H)



advanced performance

high-resolution

servo-control

balancedforce™

trilinear™ subwoofer systems

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