

# VARIABLE APERTURE IN-CEILING SPEAKER & SUBWOOFER

## VARIABLE APERTURE SYSTEM

Full-Range Audio. Minimalist Footprint.



**The MartinLogan Variable Aperture System (VAS) delivers high-output, full-range performance through a variety of grille and trim options that elegantly blend in with recessed lighting.**

### Solving the “Design vs. Performance” Dilemma

While aesthetically pleasing, standard compact in-ceiling speakers lack the authority of larger models unless a dedicated subwoofer is added. VAS changes this by concealing a high-volume enclosure entirely behind the ceiling. This innovative design allows the system to produce the deep bass and dynamic range of a much larger speaker while outputting sound through a sleek aperture that mimics a designer LED downlight. Now, you can enjoy a stunning interior design without compromising on breathtaking audio performance.



Variable Aperture Speaker

### The Variable Aperture Speaker

Engineered for the minimalist home, this full-range solution delivers a clear, dynamic soundstage through a discrete opening. A specialized 2" high-output, wide-bandwidth aluminum driver provides vocal clarity, while dual 5.5" force-canceling woofers eliminate ceiling vibrations, ensuring pure, high-performance bass delivery with zero structural noise.



Variable Aperture Subwoofer

### The Variable Aperture Subwoofer

The same visual DNA as the Variable Aperture Speaker, optimized for high-impact bass performance. The dual 5.5" force-canceling woofers receive upgraded motor structures with higher power handling, transforming the unit into a dedicated bass engine that delivers the weight and punch of a larger sub through a discrete opening.

## Variable Aperture Speaker

### Acoustic Design

2 Way Full Range Speaker

### Drivers

Tweeter/Mid: 2" High-Output, Wide Bandwidth Aluminum Driver  
Bass: Dual Force Canceling 5.5" Aluminum Drivers

### Frequency Response

40Hz-20kHz

### Maximum Continuous Power Handling

100W

### Recommended Amplifier Power Range

15W - 200W

### Sensitivity (2.83V @ 1M)

86dB

### Impedance

8 ohms

### Dispersion/Coverage

100-degree conical (Speaker Module)  
180-degree conical (Bass)

### DSP Support

MartinLogan MP500 V2 (2 speakers per channel/Up to 2 subwoofers)

MartinLogan MDA8/MDA16

(2 speakers per channel/ Subwoofer in Bridged Mode)

LEA Amplifiers

### Mounting Method

(4) Adjustable Galvanized Steel Brackets  
Adjustable from 10.197" - 24"

### Mounting Depth

6.87" (17.45cm)

### Weight

16.5lbs (7.5kg)

### Dimensions (HxWxD)\*

10.5" x 19.51" x 6.87"

26.7cm x 49.6cm x 17.45cm

### Finish

Enclosure: Black

Grille/Trim: White/Paintable

## Variable Aperture Subwoofer

### Acoustic Design

Dedicated Subwoofer

### Drivers

Dual High-Output Force Canceling 5.5" Aluminum Drivers

### Frequency Response

32Hz-150Hz

### Maximum Continuous Power Handling

125W

### Recommended Amplifier Power Range

15W - 250W

### Sensitivity (2.83V @ 1M)

85dB

### Impedance

8 ohms

### Dispersion/Coverage

180-degree conical

### DSP Support

MartinLogan MP500 V2 (2 speakers per channel/Up to 2 subwoofers)

MartinLogan MDA8/MDA16

(2 speakers per channel/ Subwoofer in Bridged Mode)

LEA Amplifiers

### Mounting Method

(4) Adjustable Galvanized Steel Brackets  
Adjustable from 10.197" - 24"

### Mounting Depth

6.87" (17.45cm)

### Weight

15.5lbs (7.1kg)

### Dimensions (HxWxD)\*

10.5" x 22.72" x 6.87"

26.7cm x 57.7cm x 17.45cm

### Finish

Enclosure: Black

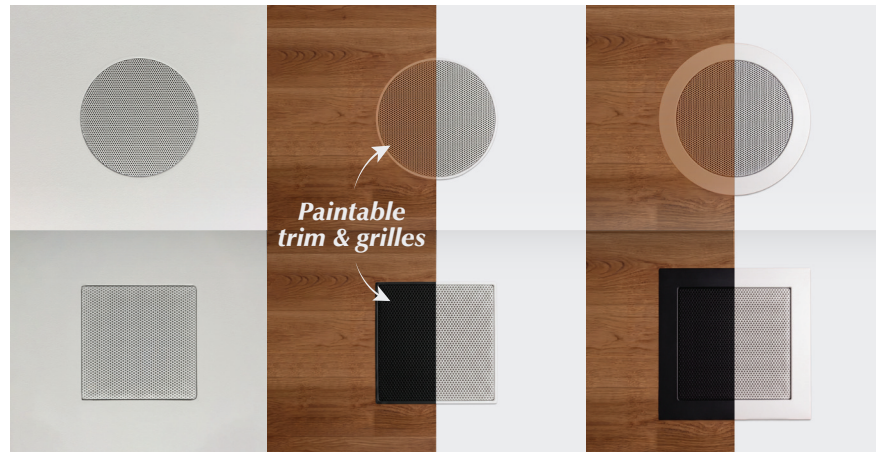
Round/Square Grille & Trim: White/Paintable

Vent Style Trim: White/Paintable or Customize with Ceiling Material

Open Style Trim: Black/Paintable

## 38 Configurable Looks

MartinLogan has expertly curated 38 unique aesthetic variations into streamlined models defined by your choice of aperture size. The VAS Speaker offers 12 distinct looks per aperture size (3", 3.5", or 4"), including round and square trims in Seamless, Minimal, and Wide styles with both flush or extended grille mounting. The VAS Subwoofer shares this extensive palette and adds 2 specialized Vent Style trims for ultimate architectural integration. Whether mirroring its companion speakers or vanishing behind a stealthy air vent, the VAS Subwoofer provides unparalleled flexibility to complement any interior design.



### Minimalist Vent

A sleek, rectangular outline where the center can be finished with your actual ceiling material, ensuring a perfect match regardless of surface type.



### Open Vent

A classic rectangular opening that matches the aesthetic of air vents or diffusers. Leave it black or paint it to match the ceiling.



## Adjustable Port Offset and Bracket System

The innovative Adjustable Port Offset feature allows both VAS models to offer exceptional installation versatility. This design breakthrough enables the aperture to be shifted to the left, center, or right of the housing to accommodate specific structural or aesthetic requirements. When paired with the adjustable mounting brackets that support 12"-24" on-center joist spacing, this system ensures a high level of adjustability for achieving perfect visual alignment in a wide variety of builds and designs.



\*Specifications are subject to change without notice.

## Optimized for the MartinLogan Power Ecosystem

MartinLogan engineers have created specialized DSP presets for the MartinLogan MP500V2 and MDA series amplifiers, enhancing performance and increasing volume headroom beyond what standard amplifiers can achieve. These presets enable each channel to safely power two speakers, optimizing amplifier channel usage. Additionally, a single MP500V2 can drive dual subwoofers, meaning up to four VAS Subwoofers can be powered from just 1U of rack space. While designed for peak performance with MartinLogan electronics, an 8-ohm impedance ensures VAS models remain fully compatible with high-quality third-party amplifiers.