WADAX

LA PASIÓN

THREE WAY SELF POWERED
DIGITAL SPEAKER

THE ART OF MUSIC RECREATION

SIMPLICITY IN USE

Only a source is required to complete the system. Each driver is independently powered. The tweeter is direct driven by the DAC for the ultimate in reproduction. Individual 400 watt Wadax digital amps drive the midrange and woofer modules. Additionally, the midrange drivers can be externally amplified if desired.

All of the electronics, including amplification and digital processing are contained in the mechanically isolated aluminum module at the bottom of the loudspeaker. The Wadax PRE 1 Universal Digital Preamplifier was designed as the perfect compliment to the La Pasión. However, an analog input is supplied for use with any preamplifier.

SCULPTURAL ELEGANCE

The aesthetically pleasing design is a complimentary element to any room and décor. The black lacquer and milled aluminum monocoque cabinet is a design collaboration of the Estudio Ochoa y Diaz-Llanos design firm.

Accurate reproduction dictated our design. In use, the La Pasión allows the playback chain to be shorter, more accurate, and more musical. It's spectral and tonal integrity is easily heard and emotionally felt.

Distrito ■ Armani Casa Madrid

A PURE LINK

In our uncompromised quest for the best possible loudspeaker, the physical footprint was the only acceptable compr omise. There are no elements between the drivers and the power amplifiers. No cables, caps, inductors or resistors. The digital crossover resides in the same isolated enclosure that houses the digital electronics and amplification.

The power amplifiers were chosen for the specific drivers exact electrical requirements. For the midrange and bass, the best possible solution is our custom class-D amp. 2 x 400W to accurately control the drivers. For the tweeter, there is NO amp. The DACs inside La Pasión have a specifically designed 5 watt class A current output stage to drive the tweeter directly with no degradation of the DAC performance. The purity of this approach is unprecedented in our experience.

THE WADAX musIC CHIP

The Wadax proprietary musIC chip manages the crossover, mechanical non-linearity corrections, amplitude, time alignment and all other signal processes tailored for the entire playback chain.

This is only possible in a self-powered system where the power amps are known and fully characterized to the proprietary musIC chip that accommodates for non-linearites. 6.4 GBytes of data/second and more than 1500 critical signal parameters are monitored.

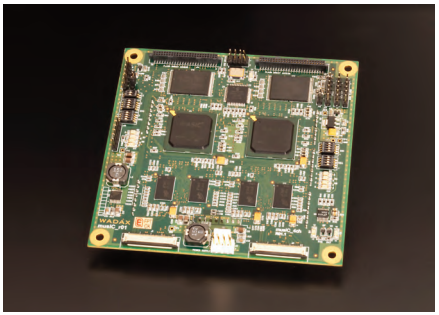
Some of these parameters require huge dynamic values; others provide data in micro-information scale. The musIC chips are utilized on an 8-layer board composed of more than 500 parts.

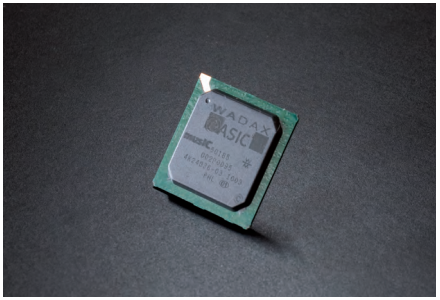
the absolute sound®

Most Significant Product Introduction

The Wadax La Pasión active loudspeaker ($106k) pushes the envelope in loudspeaker design with its integral DSP, separate woofer and midrange amplifiers, and a dedicated DAC that can drive the tweeter directly with no amplifier or passive crossover in the signal path.

Robert Harley, January 2012

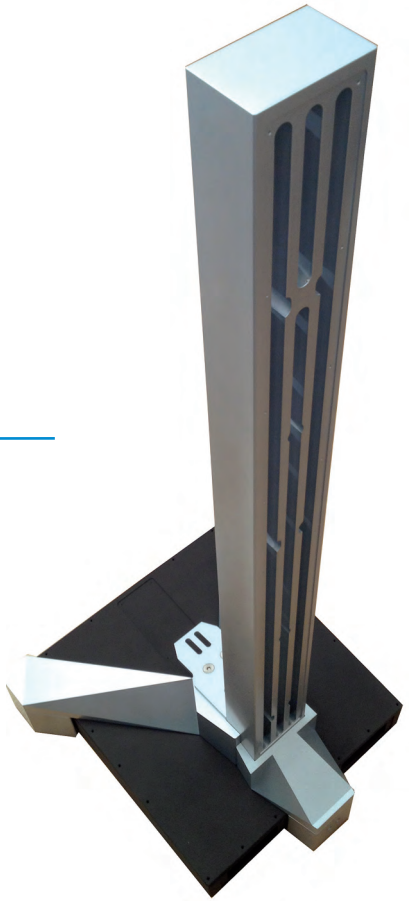




MECHANICAL INTEGRITY

Each La Pasión speaker weights 120 Kg and is machined from 200 Kg of solid aircraft grade aluminum prior to milling. These blocks are specially formulated combine strength and damping.

The most critical parts, due to extremely complex shapes, required the use of 5-axis CNC machines. After machining, all aluminum parts follow a 5 step finishing process that adds strategic damping properties. More than 300 man-hours are involved into the manufacturing of La Pasión .



BARILEVER LOADING

The cabinets are a sealed-box design and utilize the Wadax BariLever loading principle. This proprietary loading principle lowers distortion. It is heard to the greatest effect in the first octaves, where large cone excursions increase playback error due to mechanical limitations and non-linearities. In order to optimise BariLever, sophisticated Luthier techniques are utilized.

The huge peak pressures generated in the bass module require an independent cabinet from the midrange and tweeter. Both cabinets are locked to the main aluminum spine, which provides stability and damping to the system.

SPECIFICATIONS:

Frequency response: 24Hz-24KHz +-0.5dB (on axis at 2m).
Weight: 120Kg. / 264 Lbs.
Dimensions: (WxDxH): 152m x 62cm x 63cm 60.18"x24.60"x25"
Inputs: Analogue: RCA, Digital: Wadax RJ45 Link.
Midrange output signal for external amplification: Analogue RCA
Total Power: 800W RMS per speaker.
Mechanical decoupling of critical elements is enhanced with Stillpoints devices.

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www.wadax.eu

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