



The ARGUS

Reference Loudspeaker System



The Argus in Brushed Titanium finish

*A brief introduction and some personal reflections into the motives that inspired the creation of the Argus
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Why another loudspeaker?

In early 2017, I started looking for a new reference speaker to use in my development work. I need a true reference speaker that can play any music, at any volume, right up to live levels, when required. There are *many* loudspeakers out there. Some sound very nice and will do a great job when playing at moderate output levels. How about playback at live sound levels? A few can, most will give up long before that.

A suitable, ready-made system simply did not exist.

Drawing on my experience in building custom monitoring systems for recording studios, the only solution was to build it myself.

The prototype pair came into existence in late 2017. Countless hours went into refining the sound - rearranging the crossover, tweaking component values, fine tuning, listening, measuring, listening again, with the objective to achieve three major goals:

- uncompromised fidelity at any playback level
- high efficiency and high power handling
- minimal distortion and compression

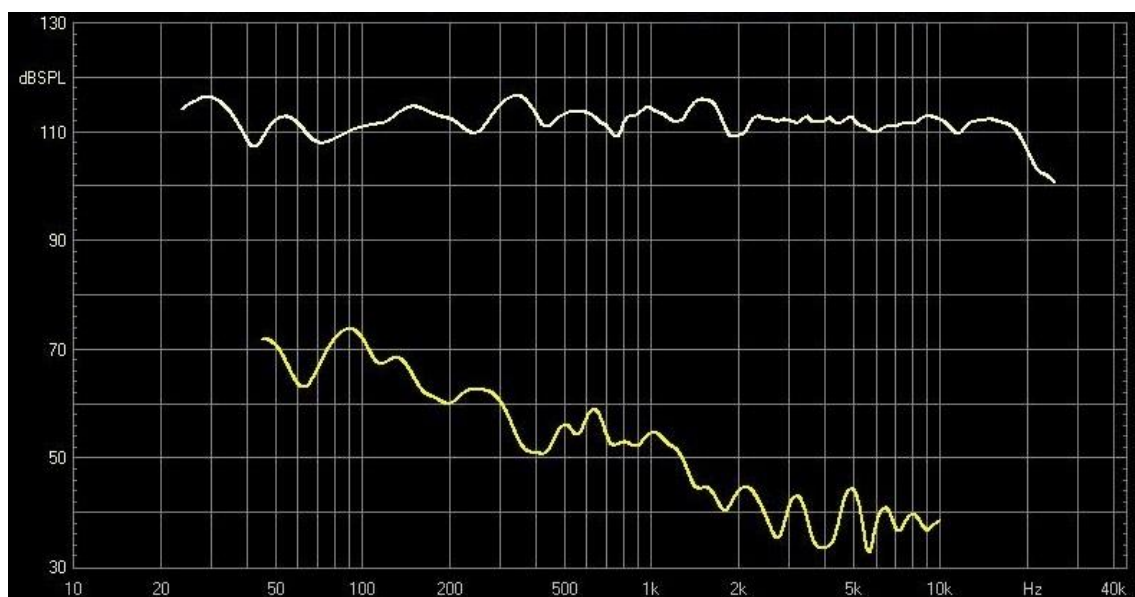
I can now confidently say the Argus is the reference loudspeaker system I have been longing for.

How is the Argus different?

The Argus is a *Mastering reference* class, floor standing, three-way, ported loudspeaker system, intended for reproduction of music with maximum fidelity. It is designed for indoor use. Customized high performance drivers and crossover components enable The Argus to play from whisper-quiet up to live sound levels with unrestricted dynamics, minimal distortion and compression. A flat frequency response, excellent time alignment and close matching of the speakers ensure precise timbre and a realistic spatial presentation.

Efficiency, impedance and power handling

Nominal efficiency of the Argus is 99dB@2.83V, allowing it to be used even with modest amplifiers. The high power handling capacity provides ample headroom for playback up to live sound levels with minimal distortion and compression. The rated impedance is 4 ohms, dipping to 3.5 ohms in the mid-bass range (150-400Hz) and rising above 4 ohms at all other frequencies.



*Typical in-room measured frequency response and THD, 28Vrms @ 4m on midplane
Room size, approx: 6.5 (w) x 5.9 (l) x 3m (h), moderate damping on all walls.*



Drivers

The drivers in Argus are high performance units, sourced from trusted manufacturers with a proven track record of building reliable drivers with consistently high quality.



Woofers

Dual custom 12" long throw woofers ensure a solid foundation in the low frequencies. The powerful Neodymium magnets, triple demodulation rings, a ventilated motor assembly, a high temperature 3" sandwich voice coil and a very rigid cone make these drivers stand out from the crowd.



Midrange

The 6" midrange driver has outstanding sound quality due to its extremely low distortion, even at high output levels. Its nominal efficiency is a respectable 103dB/W/1m, thus allowing it to deliver the required output at a reduced power relative to the other drivers with minimal compression¹.



Tweeter

A precision AMT (Air Motion Transformer) driver renders the high frequencies. Its pleated diaphragm has a much larger area relative to dome or cone drivers, thus providing better coupling with the surrounding air. A significant advantage is the absence of inductance. Near-perfect impulse response and no breakup are the hallmarks of this driver. Its radiation pattern is shaped by a custom waveguide to minimize room effects.



Finishing options

The Argus is available in “Brushed Black” and “Brushed Titanium”.



The Argus, pictured without the protective grilles.



Technical specifications

Enclosure type	Bass reflex type with dual down-firing ports
Frequency response	+/- 3dB	25 Hz-20 kHz
Nominal efficiency	99 dB @2.83V, 1m
Rated impedance	Nominal	4 ohm (3.5 minimum)
Power handling	AES, noise ¹	1'650 W
	Program material ²	2'200 W
Physical	Dimensions, cm	118(h) x 44(w) x 44(d)
	Net weight, each	65 kg

All specifications subject to improvement.

ⁱ Compression is the difference between actual output and the anticipated output for a given power input.

1) AES power is determined according to AES2-1984 (r2003) standard

2) Program power rating is measured using a pink noise test signal with 50% duty cycle, applied for 2 hours