

Vardar 23.1

Two way passive coaxial



Introduction

Vardar is a passive loudspeaker system, designed around an 8" coaxial, high performance speaker. A professional HI-PRO speaker designed to seamlessly integrate with dedicated transducers, it is built from highly resistant composite materials for elevated sound sensitivity, dynamics, and definition. Wide-angle coverage of a highly controlled sound field, and the ability to reach high levels without perceptible distortion. The system is characterized by a high-end audio quality and can reach elevated sound pressures. This is classified as a wide-range system, in that it does not need a dedicated subwoofer if used in limited spaces, where there would often be insufficient area for a sub. Perfect for private or enclosed areas as the first choice, or as an entry-level DJ monitor if matched to a subwoofer (our reference as DJ monitor is Pequod Kona System). It can be used as a high-quality Satellite in combination with subwoofers such as Ovoid18. In this case, a DSP must be used to match the driver.

The Vardar is driven by a special inner crossover of extremely high quality and technological complexity, built to high-end specs. This can greatly surpass the quality of sound available through the more common DSP technology or cheap, off the shelf crossovers. Sound dispersion is very precise and regular, allowing it to be used in smaller spaces where sound quality is a high priority. This allows for excellent dynamics which distinguish the entire system from the first listen. The coaxial speaker represents world class quality, without commercial or technological compromises.

Thanks to its elevated sensitivity, the system requires limited amplification power.

Features

- High-end audio quality
- Perfect for private or enclosed areas
- Very good sound power level
- Unbeatable listening dynamics
- Perfect efficiency at all levels of listening
- Perfect adaptability to any musical preference
- Faithful and transparent reproduction at all frequency levels
- Heavy duty, highly resistant to scratches and bumps
- Weather resistance
- Built with high-strength and stiffness composite materials
- Easy to repair and maintain
- Cutting edge technical design
- Unbeatable lightness for easy transport
- Simple installation, either freestanding or suspended
- Customizable color and surface finish
- Simple acoustic calibration

Applications

- Dedicated single space, small footprint
- Limited interest space, like table dedicated audio
- Privé exclusive space
- Small club performances
- Small-scale events
- Sophisticated intimate live events

Max Size of audience within the range of dispersion

Indoor 70 (alone without subwoofer)
Outdoor 40 (alone without subwoofer)
Indoor 140 (with subwoofer)
Outdoor 70 (with subwoofer)

(Recommendations vary depending on the type of subwoofer)



Architectural Specifications

Built from high quality composite materials. Heavy duty, highly resistant to scratches and bumps. Highly resistant to rain and sun. All metal parts are built in stainless steel.

Mid-low frequency: direct emission component is characterized by a light structure with a highly resistant ovoid shell containing an 8" woofer 8 Ohm 500 W continuous power handling , sensitivity 95dB 1W/m.

High frequencies: inner horn equipped with a HF compression driver with polymer diaphragm with voice coil diameter 44mm, @ 16 Ohm 100 W continuous power handling, sensitivity 104 dB 1W/m.

The loudspeaker system Vardar is managed passively by a specific crossover filter. The frequency response of the system managed by the dedicated passive filter is linear and uniform, so it does not need equalization correction. Continuous power handling of the system with this passive filter is 450 W 4 Ohm.

A Full Fat audio FFA 2004 is the recommended amplifier for 4 Vardar. The suspension of the system can easily be achieved through cables in steel or synthetic technical fiber. Various mounting solutions are available for a variety of indoor or outdoor applications.

Size of the public served in the range of dispersion: Indoor 70 (alone without subwoofer), outdoor 40 (alone without subwoofer), Indoor 140 (with subwoofer), outdoor 70 (with subwoofer).

(Recommendations vary depending on the type of subwoofer).

Warning

This is a professional audio system with very high efficiency and sensitivity with acoustic emissions that could potentially cause hearing damage. Installation and use intended for experienced and qualified personnel. Safety DSP devices with a limiter function are recommended.

Preliminary data

TYPE	Two way passive coaxial
FREQUENCY RESPONSE	62 Hz - 18 KHz (-3dB)
TOTAL SENSITIVITY	94 dB 1W/m with inner passive crossover
LOW-MEDIUM FREQUENCIES	8" woofer @ 8 Ohm 500W continuous power handling, sensitivity 95 dB 1W/m
HIGH FREQUENCIES	HF compression driver with polymer diaphragm with voice coil diameter 44mm, @ 16 Ohm 100W continuous power handling, sensitivity 104dB 1W/m
NOMINAL IMPEDANCE	4 Ohm with crossover
POWER HANDLING	450W 4 Ohm with amplifier @ 2 Ohm stable
MANAGE	2 Ch amplifier to a couple of Vardar loudspeakers (inner passive crossover provided, for each Vardar) .If very high output is needed we recommend to use a DSP : High-pass filter @50Hz, 12 dB/oct. or higher slope Otherwise as Satellite with subwoofer : Amplifier+DSP to match to subwoofer. High-pass filter @90Hz, 12 dB/oct. or higher slope
SPL MAX	120 dB with 450 W
DISPERSION	70 deg conical
CONSTRUCTION MATERIALS	Fiber-reinforced composite, stainless steel, woofer waterproof front side
FINISH	all ral color and texture on order
PROTECTIVE GRILLES	stainless steel on request
CONNECTORS	1x Neutrik NL4FX or custom
DIMENSIONS (without support or suspension)	(W) 385 mm (H) 385mm (D) 440mm (W) 15 inch (H) 15 inch (D) 17,3 inch
WEIGHT	10Kg (22lb)



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