

Shockwave 2.1

Three-way passive loaded full-horn system



Introduction

Shockwave 2.1 is a very high performance, passively amplified, full-horn, three-way system.

A professional HI-PRO three-way audio system with horn-loaded speaker technology, Shockwave is designed to seamlessly integrate the dedicated transducers with composite horns for elevated sensitivity, dynamics, definition and durability. Providing wide angle coverage of a highly controlled sound field, it has the ability to reach sound levels at the limits of human tolerance with no perceptible distortion. The system is thus characterized by extraordinary sound quality while reaching elevated sonic pressures. Assembled it forms a triptych of large horns in frontal development.

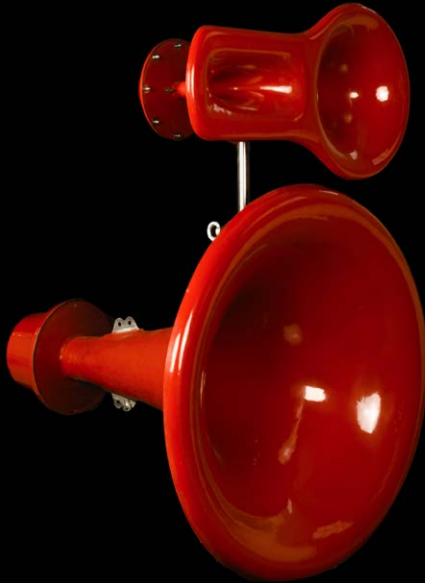
The high frequency horn is characterized by a specially tuned shape, with long and complex development and a variable section allowing a wide dispersion without compromising powerful energy loading.

The mid-horn Shockwave 2.1 has levels of efficiency and sensitivity that are truly out of the ordinary. This allows for excellent dynamics that distinguish the entire system from the first listen.

The midbass-horn is uses its superior dimensions to achieve, with a powerful neodymium 8" midbass woofer, extraordinary performances. The LF driver is protected by a water resistant cone.

Speakers, woofers and compression drivers all represent world class quality, without commercial or technological compromises.

Thank to its elevated sensitivity, the system requires limited amplification power, and thus permits an extreme simplification of the line of inputs for playback. The system can be driven, in the three routes, completely passively through a dedicated crossover. A Full Fat audio FFA 6000 is the recommend amplifier partners for this solution. Otherwise it can be managed actively by three amplifiers and by traditional DSP. Subwoofers sold separately



Features

- Full-horn passive loaded, three way system
- High power sound emission
- Extreme sensitivity
- High energy efficiency with huge sound
- Unbeatable listening dynamics
- Excellent sound quality at all levels of listening
- Perfect adaptability to any musical genre
- Faithful and transparent reproduction at all frequency levels
- Weather resistant
- Engineered for easy maintenance and repair
- Technologically advanced design
- Light weight for easy transport
- Simple installation and interface
- Customization of color and surface
- Simple acoustic calibration
- Unique design
- Reduced energy consumption compared to other powerful systems
- Heavy duty composite construction, resistant to scratches and bumps

Applications

Large club spaces
Outdoor events
Medium or intimate-scale live events requiring high sound quality

Max Size of audience within the range of dispersion
Indoor 1700
Outdoor 1200
(recommendations will vary depending on the quantity and type of subwoofer)



Architectural Specifications

The loudspeaker system Shockwave 2.1 is a high performance passive full-horn, three-way system. Built from high quality composite materials, highly resistant to damage from scratches and bumps. Absolute resistance to rain and sun. All metal parts are built from stainless steel. Mid-bass frequencies: large round horn, full frontal (112cm diameter), equipped with 8" midbass woofer; continuous power handling 400W; sensitivity (coupled to the horn) 105dB 1W/1m; nominal impedance 8 Ohm; recommended frequency band 130-400Hz (in active mode) Medium frequencies: round horn full frontal, equipped with 2" compression driver; continuous power handling 160W; sensitivity (coupled to the horn) 110dB 1W/1m; nominal impedance 8 Ohm; recommended frequency band 400Hz / 2KHz (in active mode), 60° horizontal dispersion. High frequencies: horn of particular profile, equipped with a 1" compression driver; continuous power handling 120W; sensitivity (coupled to the horn) 109dB 1W/1m; nominal impedance 8 Ohm; Recommended frequency band 2 KHz / 18KHz (in active mode), dispersion V25° x H 65°. The system can be driven in the three channels, completely passively through a dedicated crossover. The frequency response of the system, managed by the dedicated passive filter in a neutral environment, is linear and uniform, with no need for equalization corrections via DSP Continuous power handling with this passive filter 1000W 4 Ohm stable. A Full Fat audio FFA 6000 is the recommended amplifier partner for this solution.

Otherwise it can be managed actively by three amplifiers and by traditional DSP. The system can be easily suspended with chains or cables in steel or synthetic technical fiber. The system is equipped with rings and suspension eyebolts. The suspension loads are very small for the suspension points. You can refer to the weights indicated in the table (we recommend a multiplicative safety factor in operation equal to 5). Subwoofers sold separately. Size of the audience within the range of dispersion would be 1700 pp indoors, or 1200 pp in outdoor settings. This varies depending on the quantity and type of subwoofer and musical preferences. Subwoofers sold separately. 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.

TYPE	Three ways passive full-horn loaded
FREQUENCY RESPONSE	125 Hz - 18 KHz
TOTAL SENSITIVITY	105 dB 1W/m with passive crossover
MID-BASS FREQUENCY	8" (380 mm) 8 Ohm 200 W nominal 400 W peak
MEDIUM FREQUENCY	2" (50 mm) MF compression driver 8 Ohm 80 W nominal 160 W peak
HIGH FREQUENCY	1" (25 mm) HF compression driver 8 Ohm 60 W nominal 120 W peak
NOMINAL IMPEDANCE	4 Ohm with three way passive crossover
CONTINUOUS POWER HANDLING	1000 W 4 Ohm with dedicated three way passive crossover
CROSSOVER	130 Hz active, 12-24 dB/oct
MANAGE	Single amplifier with crossover filter, or with DSP and three separate amplifiers
RECOMMENDED AMPLIFIER	Full Fatt Audio FFA 6000 with crossover
DISPERSION	60° horizontal, 40° vertical
CONSTRUCTION MATERIALS	Fiber-reinforced composite, stainless steel
FINISH	all ral color and texture on order
PROTECTIVE GRILLES	stainless steel on request
CONNECTORS	3x Neutrik NL4 or custom preference
DIMENSIONS (with support)	(W) 1100 mm (H) 1630 mm (D) 1200 mm (W) 43,3 inch (H) 64,2 inch (D) 47,2 inch
WEIGHT	29 Kg (63 lb) w/o trolley, 39 Kg (86 lb) w trolley



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