

# EF5 Twister 3.1

Two-way horn loaded passive system



## Introduction

EF5 Twister 3.1 is a passive 3-way horn-loaded system with an extended low-frequency direct emission component. Professional HI-PRO two-way audio system with horn-loaded speaker technology, designed to seamlessly integrate with dedicated transducers, built from high resistance composite materials for elevated sensitivity, dynamics, and definition. Wide-angle coverage of a highly controlled sound field, and the ability to reach high sound levels without perceptible distortion. The system is characterized by excellent sound quality the ability to reach high-pressure ranges. A pair of large full-frontal horns manage the high-mid frequency range through a dedicated passive crossover (or using a 2 ch amplifier+DSP). The high-range horn is characterized by a special high-end derivation design. The long and complex development with variable sections allows a wide dispersion with powerful loading. The Shockwave 2.1 mid-range horn has a unique design that creates an extraordinary level of efficiency and sensitivity. This allows for excellent dynamics that distinguish the entire system from the very first listen. The extended low-frequency direct emission component is characterized by a light structure with a highly resistant ovoid shell, containing a 15" woofer with a 30-400 Hz range and high sensitivity. This component can alone cover the mid and low frequencies or can be assisted by additional subwoofers to cover the lower frequencies with additional power. The LF driver features a water-resistant cone. Components such as the speakers, woofers, and compression drivers all represent world-class quality, without commercial or technological compromises. Thanks to its elevated sensitivity, the system requires limited amplification power. The EF5 Twister system is manageable through bi-amplification with DSP for managing cuts between the high-mid and low routes. The two high-mid horn components are managed passively by a specific crossover filter. A Full-Fat audio FFA 8004 is the recommended 4 channel amplifier partnered in this system (stereo configuration) with a dedicated DSP. Otherwise, it can be managed actively by three amplifiers and by traditional DSP. Any additional subwoofers are sold separately.



## Features

- Full-horn passive two-way system with extended low-frequency direct emission components
- Full sonic range, used with or without subwoofer
- High power sound
- Huge expandability of performance in perceived power with subwoofer integration
- Extreme sensitivity
- 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

Small-scale clubs  
Small to mid-size events  
Outdoor events Sophisticated live events  
Max Size of audience within the range of dispersion  
Indoor 600  
Outdoor 500  
(Recommendations vary depending on the quantity and type of subwoofer)



## Architectural Specifications

The loudspeaker system 3.1 EF5 Twister 3.1 is a passive two-way system with extended low-frequency direct emission components. Built from high-quality composite materials, it is very resistant to scratches and bumps. Highly resistant to rain and sun. All metal parts are built in stainless steel. The extended low-frequency direct emission component is characterized by a light structure with a highly resistant ovoid shell, containing a 15" woofer with 30-400 Hz range, sensitivity of 97 dB 1W/1m, continuous power handling 2000W, 60 mm peak to peak mechanical excursion, nominal impedance 8 Ohm.; recommended frequency: band 100-400 Hz in active mode with integrated subwoofers; 30-400Hz band in full-range use. Medium frequencies: full frontal round horn, equipped with 2" compression driver; continuous power handling 160 W; sensitivity (coupled to the horn) of 110 dB 1W/1m; nominal impedance 8 Ohm; recommended frequency band 400 Hz / 2 kHz (in active mode), 60° horizontal dispersion. High frequencies: horn with specialized form, equipped with a 1" compression driver; continuous power handling 120 W; sensitivity (coupled to the horn) of 109 dB 1W/1m; nominal impedance 8 Ohm; recommended frequency band 2 kHz / 18 kHz (in active mode), dispersion H 60 x V40°. The complete EF5 Twister system is manageable through bi-amplification with DSP, for managing cuts between the high-mid and low routes. The two high-mid horn components are managed passively by a specific crossover filter. The frequency response of the system as managed by the dedicated passive filter in a neutral environment is linear and uniform, so it does not need equalization correction. Continuous power handling with this passive filter is 400 W 4 Ohm. The extended low-frequency direct emission component can be amplified through an additional dedicated amplifier, with recommended continuous power handling of 2000W/4ohm. A Full-Fat audio FFA 8000 is the recommend amplifier partner. Otherwise, it can be managed actively by three amplifiers and by traditional DSP. The suspension of the system can easily be achieved through chains, cables in steel, or synthetic technical ber. The system can be equipped on request 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 are sold separately. Size of the public served in the range of dispersion, Indoor 600pp, Outdoor 500pp (or more) Recommendations vary depending on the quantity and type of subwoofer. Warning: this is a professional audio system with very high efficiency and sensitivity to acoustic emissions that could potentially cause hearing damage. Installation and use intended only for experienced and qualified personnel. The setting of safety DSP devices with a limiter function is recommended.

<b>TYPE</b>	Two ways passive full-horn loaded with extended low frequencies direct emission component
<b>FREQUENCY RESPONSE</b>	40 Hz - 18 KHz
<b>TOTAL SENSITIVITY</b>	109 dB 1W/m with passive crossover for mid-high component 97 dB 1W/m for low component
<b>LOW FREQUENCY</b>	15" Low woofer 8 Ohm 1000 W nominal 2000 W peak
<b>MEDIUM FREQUENCY</b>	2" (50 mm) MF compression driver 8 Ohm 80 W nominal 160 W peak
<b>HIGH FREQUENCY</b>	1" (25 mm) HF compression driver 8 Ohm 60 W nominal 120 W peak
<b>NOMINAL IMPEDANCE</b>	4 Ohm with two way passive crossover for mid-high component 8 Ohm for low component
<b>CONTINUOUS POWER HANDLING</b>	400 W 4 Ohm for mid high frequencies 2000 W 4 Ohm for low frequencies
<b>MANAGE</b>	4 Ch amplifier to a couple of Twister loudspeakers (outer passive crossover provided, for each Twister horn loaded mid+hf)+DSP .  Horn loaded mid+hf :High-pass filter @400Hz, 24 dB/oct. LR;Relative Gain -12dB,Delay 0 ms 15": High-pass filter @40Hz, 24 dB/oct.But, Low pass filter @400Hz, 24 dB/oct. LR  If subwoofer is needed: Horn loaded mid+hf : as above 15": High-pass filter @100Hz, 24 dB/oct. LR, Low pass filter @400Hz, 24 dB/oct. LR
<b>RECOMMENDED AMPLIFIER</b>	Full Fatt Audio FFA 8004 with crossover with DSP
<b>DISPERSION</b>	60° horizontal, 40° vertical
<b>CONSTRUCTION MATERIALS</b>	Fiber-reinforced composite, stainless steel
<b>FINISH</b>	all ral color and texture on order
<b>PROTECTIVE GRILLES</b>	Twister is usually sold with this grid made of stainless steel
<b>CONNECTORS</b>	3x Neutrik NL4 or custom preference
<b>DIMENSIONS (with support)</b>	(W) 1100 mm (H) 950 mm (D) 700 mm (W) 42 inch (H) 37 inch (D) 28 inch
<b>WEIGHT</b>	14 Kg (31 lb) mid-high component, 22 Kg (48 lb) low component



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HAND MADE IN ITALY