

EK Series

Specification

This series of products is entirely manufactured by the Studiomaster International R&D Center and factory in the UK. It features a built-in high-quality woofer and a customized high-power, high-quality tweeter. This loudspeaker produces rich and powerful low frequencies with deep and full-bodied depth. The mid-range is abundant and smooth, sweet, and clear in imaging. The high frequencies are clear and have strong penetrating power. Due to the excellent vocal performance of this series of products, it has a wide frequency range, natural and smooth sound reproduction, stable directional coverage, and a large diffusion range. Moreover, the simple cabinet design facilitates portable or permanent installation use.

KEY Features

- The EK12 adopts a **rear-inverted cabinet structure** to reduce internal clutter interference and enhance low-frequency performance; the EK12 PLUS / EK15 PLUS adopt an **asymmetric side cabinet structure** to reduce the formation of standing waves and sound coloring within the cabinet, thereby improving sound quality.
- The cabinet is made of **birch plywood** and features an asymmetric side cabinet structure design, precision-processed by CNC and reinforced with high-strength glue connections, ensuring the durability and acoustic stability of the cabinet.
- Using **environmentally friendly water-based paint**, incorporating elastic components, it provides a delicate feel and is resistant to wear and impact.
- The loudspeaker is equipped with **multiple flying points**, providing diverse flying methods for fixed installation locations.

Application Scenario

Suitable for various environmental locations worldwide.



EK15 PLUS

EK12 PLUS

EK12

EK12 / EK12 PLUS

- EK12 utilizes specially customized aluminum alloy horns, enabling broader sound coverage, reducing environmental reflections, and enhancing sound clarity.
- The EK12PLUS features an oval horn made of special materials, which helps reduce sound coloration and provides a clearer and more natural sound.
- The tweeter is equipped with a customized 44.4-pin HF compression driver, and the diaphragm material is made of specially treated polyimide, resulting in a delicate and soft tone.
- The specially designed bass speaker magnetic circuit system further improves heat dissipation efficiency and reduces power compression under high sound pressure. The specially treated diaphragm material enhances the transparency of MF, while the LF is more full and powerful.

EK15PLUS

- Low-distortion reinforced fiberglass horn, reducing sound coloring and providing a clearer and more natural sound.
- Customized neodymium magnetic HF compression driver, with titanium alloy diaphragm specially treated to enhance the piston's vibration range; a specially customized phase plug provides excellent acoustic performance, with low distortion and smooth high-frequency extension up to 20kHz.
- Low distortion, high-power driver, improved heat dissipation efficiency, and reduced power compression under high sound pressure. Special damping treatment of the diaphragm material enhances MF transparency, and LF is more full and powerful.
- The bass driver features an ultra-long voice coil design, providing a stable linear magnetic force and delivering a more stable sound under large dynamics.

Specification

	EK12	EK12 PLUS	EK15 PLUS
Name	12" two-way loudspeaker	12" two-way loudspeaker	15" two-way loudspeaker
Frequency response (-10dB)	40Hz ~ 20kHz	40Hz ~ 20kHz	40Hz ~ 20kHz
Sensitivity (1W@1M)	98dB	98dB	99dB
Max SPL	133dB	133dB	135dB
Rated power	450W	450W	600W
Peak power	1800W	1800W	2400W
Rated impedance	8Ω	8Ω	8Ω
Directivity (H x V)	Vertical: 90°±10° Level: 70° ± 10°	Vertical: 90°±10° Level: 70°±10°	Vertical: 80°±10° Level: 50°±10°
Dimensions (W x D x H)	402 x 389 x 635mm	370 x 412.5 x 625.5mm	445 x 449 x 735.5 mm

EF Series

Specification

This product is a high-quality series developed by the Studiomaster R&D team in the UK specifically for the international market. The drivers are customized products designed by the UK R&D center according to on-site usage requirements, featuring gorgeous and clear sound quality. All accessories in this series are supervised and commissioned by the Studiomaster R&D institution in the UK and manufactured by the Soundking Group in China.

The cabinet materials are all made of special damping material plates, with a concave-convex complementary structural design. The CNC-processed cabinet dimensions are repeatedly optimized and debugged according to acoustic features. The cabinet is coated with environmentally friendly water-based paint, which increases elasticity, provides a fine texture, and is resistant to wear and impact.

KEY Features

- The horn, customized with special materials, helps reduce sound coloring and provides a warm and realistic sound.
- The tweeters of EF-10/EF-12/EF-12P all adopt **44.4-pin customized high-frequency compression driver units**; the bass driver chassis features improved heat dissipation efficiency and reduced power compression under high sound pressure, with specially treated diaphragm materials to ensure mid-frequency transparency and make the low frequencies more full and powerful.
- EF-15 features a **100-pin neodymium driver for the bass and a 75-pin neodymium driver for the treble**, ensuring high-standard resolution of vocals and music clarity. It effectively delivers delicate and soft tones under high dynamic operating conditions. This product has undergone years of field application testing in Europe, demonstrating the superior quality of neodymium drivers.
- The loudspeaker is equipped with **multiple flying points**, providing diverse flying methods for fixed installation locations.

Application Scenario

Suitable for various multi-purpose sound reinforcement environments.



EF-15

EF-12P

EF-12

EF-10

Specification

	EF-10	EF-12
Name	10" two-way loudspeaker	12" two-way loudspeaker
Frequency response (-10dB)	40Hz ~ 20kHz	40Hz ~ 20kHz
Max SPL	120dB	129dB
Sensitivity (1W@1M)	98dB	99dB
Rated power	(Continuous) 350W	(Continuous) 500W
Maximum power	700W	1000W
Rated impedance	8Ω	8Ω
Input method	2 x SPEAKON	2 x SPEAKON
LF unit	10" woofer / φ65mm voice coil	12" woofer / φ75mm voice coil
HF unit	Compression driver / φ44mm voice coil	Compression driver / φ44mm voice coil
Dimension (W x D x H)	310 x 345 x 530mm	365 x 405 x 600mm

	EF-12P	EF-15
Name	12" two-way loudspeaker	15" two-way loudspeaker (Both high and low frequencies utilize high-power neodymium drivers)
Frequency response (-10dB)	40Hz ~ 20kHz	40Hz ~ 20kHz
Max SPL	131dB	136dB
Sensitivity (1W@1M)	99dB	99dB
Rated power	(Continuous) 500W	(Continuous) 550W
Maximum power	1000W	1100W
Rated impedance	8Ω	8Ω
Input method	2 x SPEAKON	2 x SPEAKON
LF unit	12" woofer / φ75mm voice coil	15" neodymium woofer / φ75mm voice coil
HF unit	Compression driver / φ44mm voice coil	Compression driver / φ75mm voice coil
Dimension (W x D x H)	365 x 405 x 600mm	450 x 470 x 700mm