

The ESD Cube System

ESD Cube Speaker
ESP1000 Amplifier
ESD1.10 Subwoofer





ESD Cube

There are not six sides to every story

- › Very Compact Low profile speaker with KV2's legendary Sound
- › Superior Vocal reproduction
- › The lowest distortion of any speaker in its class
- › Extended frequency range without a compression driver
- › Strong, durable, smart Aluminium enclosure
- › Accurate phase response across the entire frequency range

ESD Cube Ultra Compact Passive Speaker

At the heart of an ESD Cube is KV2's exclusive Trans-coil AIC technology which virtually eliminates voice coil inductance. For many KV2 products this unique technological advancement gives superior vocal clarity, projection and extremely low distortion, but in the Cube this is advanced to a whole new level. With perfect phase response across the extended frequency range, the vocal imaging and instrument placement on the Cube system is nothing short of stunning. It has the lowest distortion of any comparable speaker in its class, an increased dynamic range and an ultra low profile aluminium enclosure in a smart durable black finish.

As a design statement Cube is available in any RAL colour you can imagine and its compact dimensions make it ideal for extremely discreet peripheral reinforcement in theaters, bars, clubs, churches, museums or tourist attractions. Use it stand alone in multiples of up to eight Cubes on a single ESP1000 amplifier, or as a complete system incorporating the ESD1.10 single 10" passive subwoofer, up to four Cubes and two ESD1.10 subwoofers per ESP1000. A simple proprietary flying bracket completes the system for a low profile look and easy installation.



ESD1.10 Compact Passive Subwoofer

The ESD1.10 is a compact passive 10" subwoofer featuring a high quality neodymium transducer. The smallest subwoofer within the KV2 range, it has been designed to compliment the ESD Cube Ultra compact Passive loudspeaker, creating a full range system solution when partnered with the Cube and ESP1000 amplifier. With power handling of 500 watts the ESD1.10 is capable of delivering tight, fast and controlled bass response, at high output levels from a very compact cabinet and is ideal for any discreet low frequency applications alongside other KV2 Audio products.



ESP1000

Rack mounted, High Definition Amplifier

The ESP1000 is a four channel rack mountable power amplifier specifically designed for optimised performance with KV2 Audio's ESD Cube / ESD1.10 subwoofer system. The unit contains four separate 250 watt amplifiers, two independent power supplies (two channels running off each power supply), four signal paths, inputs and outputs as well as limiting and equalization for given passive loudspeaker / subwoofers. Six independent configurations are selectable and it can be used to power any ESD units and other ranges of passive loudspeakers.



Specifications

ESD Cube		
System Acoustic Performance	Max SPL Long-term	116dB
	Max SPL Peak	119dB
	-3dB Response	120Hz to 18kHz
	Recommended Power	100W
	Sensitivity	90dB
	Impedance	8Ω
	Crossover Point	no - full range
Full Frequency Transducer	Acoustic Design	Closed box, Front Loaded
	Magnet Type	Neodymium
	Protection	Thermal breaker - autoreset
	Number of Drivers	1
	Woofer Size	5" AIC Trans-coil
Diaphragm Material	Epoxy Reinforced Cellulose	
Speaker Input	Speaker Input	2x Neutrik Speakon®, Terminal Block
Cabinet	Cabinet Material	Extruded Aluminium
	Color	Matt Black or any RAL
Physical Dimensions	Height	154 mm (6")
	Width	154 mm (6")
	Depth	163 mm (6.4")
	Weight	3kg (6.6 lbs)

ESD1.10		
System Acoustic Performance	Max SPL Long-term	121dB
	Max SPL Peak	124dB
	-3dB Response	40Hz to 150Hz
	-10dB Response	35Hz
	Recommended Power	500W
	Sensitivity	94dB
	Impedance	8Ω
Crossover Point	150Hz	
Low Frequency Section	Acoustic Design	Twin Asymetrical Loading
	Number of Drivers	1
	Woofer Size / Voice Coil Diameter / Design	10" / 3" / Inside outside
	Magnet Type	Neodymium
	Diaphragm Material	Epoxy Reinforced Cellulose
Protection	Thermal breaker - autoreset	
Speaker Input	Speaker Input	2x Neutrik Speakon®, Terminal Block
Cabinet	Cabinet Material	Baltic birch
	Handles	1
	Pole Mount	M20
	Color	"Orange peeled" Matt Black or any RAL
Physical Dimensions	Height	335 mm (13.2")
	Width	530 mm (20.9")
	Depth	500 mm (19.7")
	Weight	21.3 kg (46.96lbs)

ESP1000		
System Acoustic Performance	-1dB Response	3Hz to 50kHz / Flat Setup
	Channel Crosstalk	>70dB
	Signal to Noise Ratio	>115dB
	Total Harmonic Distortion	<0.005% (1W) / <0.01% (clip -1dB)
Output Channels	Amplifier Type	High Efficiency, Emitter coupled
	Number of Channels	4
	Total Output Power	1000W
	Minimum load impedance per channel	4Ω
	Out. Power 8Ω - 1 channel / 2 channels loaded	150W / 140W (RMS)
	Out. Power 4Ω - 1 channel / 2 channels loaded	250W (RMS)
	Out. Power 16Ω - bridged	300W (RMS)
Signal Input	Out. Power 8Ω - bridged	500W (RMS)
	Input Channels	XLR
	Input Sensitivity	1.55V
	Input Impedance	20kΩ (balanced)
Signal Output	Signal Output	XLR Through

Speaker Output	Speaker Output	Neutrik Speakon®
Features	Level Control	-∞ to 0dB
	Equalization	Flat or according to the setup
	RMS Limiter	YES
	Indicators	Power ON/Thermal, RMS Limiter, Signal
Power Requirements	Power Connector	Neutrik PowerCon®
	Operating Voltage	115V / 230V / 250V
	Operating Voltage Range	100 to 120V@60Hz 205 to 240V@50Hz 225 to 260V@50Hz
	Recommended Amperage	10A 115V 5A 230V 5A 250V
	Soft Start	YES
	Protection	Thermal breaker
	Cooling	2x temperature controlled fans
Physical Dimensions	Height	88 mm (3.5"), 2RU
	Width	483 mm (18.95")
	Depth	496 mm (19.5")
	Weight	17,8 kg (32.24 lbs)

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