

ES Specifications / Loudspeakers

Product	ES 1.0
System Acoustic Performance	
-3dB Response -10dB Response Max SPL Long-term Max SPL Peak Crossover Point Impedance	130Hz – 20kHz 85Hz – 28kHz 131dB 134dB 130Hz, 500Hz, 2.5kHz Low 16Ω Mid 8Ω High 8Ω
High Frequency Compression Driver	
Throat Exit Diameter / Diaphragm Size Diaphragm Material Magnet Type Mid/High Horn Coverage Horizontal / Vertical High Frequency Amplifier requirement	1" / 1.75" Nitride Titanium Neodymium 90° x 40° rotatable 100W from EPAK 2500/R
Midrange Section	
Acoustic Design Woofer Size / Voice Coil Diameter / Design Diaphragm Material Magnet Type Mid/High Horn Coverage Horizontal / Vertical Midrange Amplifier Requirement	Horn Loaded 6" / 1.75" / Trans Coil Epoxy Reinforced Cellulose Neodymium 90° x 40° rotatable 200W from EPAK 2500/R
Mid-Bass Section	
Acoustic Design Woofer Size / Voice Coil Diameter / Design Diaphragm Material Magnet Type Mid-bass Amplifier Requirement	Horn Loaded 12" / 3" / Inside Outside Epoxy Reinforced Cellulose Neodymium 600W from EPAK 2500/R
Subwoofer Section	
Acoustic Design Woofer Size / Voice Coil Diameter / Design Diaphragm Material Magnet Type Subwoofer Amplifier Requirement	N/A
Speaker Input /Output	
Physical Dimensions Height Width Depth Weight	Input only EP6 700mm (27.55") 450mm (17.71") 450mm (17.71") 34kg (74.8lbs)

ES 1.5	ES 1.8	ES 2.5/ES 2.6
40Hz – 130Hz 36Hz – 130Hz 127dB (134dB-three ES 1.5's) 130dB (137dB-three ES 1.5's) 130Hz 16Ω	37Hz – 130Hz 33Hz – 130Hz 131dB (136dB-two ES 1.8's) 134dB (139dB-two ES 1.8's) 130Hz 8Ω	38Hz – 130Hz 34Hz – 130Hz 134dB (137dB-two ES 2.6's) 137dB (140dB-two ES 2.6's) 130Hz ES 2.6 - 8Ω, ES 2.5 - 4Ω
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
Twin Asymmetrical loading 15" / 3" / Inside Outside Epoxy Reinforced Cellulose Neodymium 500W / ES 1.5 from EPAK 2500/R	Horn reflex loaded 18" / 4" / Inside Outside Epoxy Reinforced Cellulose Ferrite 800W / ES 1.8 from EPAK 2500/R	Twin Asymmetrical loading 15" / 4" Inside Outside Epoxy Reinforced Cellulose Ferrite 800W / ES 2.6 (1600W per ES 2.5) from EPAK 2500/R
Input and Output EP4	Input and Output EP4	Input only EP4 (ES 2.5) Input and Output EP4 (ES 2.6)
700mm (27.55") 450mm (17.71") 450mm (17.71") 28kg (61.6lbs)	600mm (23.62") 700mm (27.55") 750mm (29.52") 52kg (114.4lbs)	600mm (23.62") 700mm (27.55") 750mm (29.52") 69kg (151.8lbs)

EPAK Specifications / Amplification

Product	EPAK 2500	EPAK 2500R
Product Description		
A 2500 watt four channel controller/amplifier pack with individual 1600W, 600W, 200W and 100W mono amplifiers.	Free standing unit contains all control, limiting, crossovers, phase correction, time alignment and system set up. Removable lid acts as storage for speaker cables and mains lead.	19" rack-mount contains all control, limiting, crossovers, phase correction and system set up. 2500R also has external subwoofer controls and state of the art DSD™ 6.0MHz digital delay line for driver alignment.
System Set up	Six position selector for a choice of ES subwoofer combinations	Six position selector for a choice of ES subwoofer combinations including a five way option for use with VHD 1.21 subwoofers
Level Control	Main input level +/- 6dB	Main input level +/- 6dB
Subwoofer Level Control	Internal Sub level +/- 6dB	Internal Sub level +/- 6dB External Sub level +/- 6dB
Bass Management Switch	Attack or Extension switch for alternative Bass Character	N/A
High Frequency Amplifier		
Amplifier Type	Class AB Push-Pull low inter-modulation Mosfet design with transformer balanced output	Class AB Push-Pull low inter-modulation Mosfet design with transformer balanced output
Rated Continuous Power Distortion Operating Bandwidth	100W <0.05% 2.5kHz – 28kHz	100W <0.05% 2.5kHz – 28kHz
Midrange Amplifier		
Amplifier type	Class AB Push-Pull low inter-modulation Mosfet design with transformer balanced output	Class AB Push-Pull low inter-modulation Mosfet design with transformer balanced output
Rated Continuous Power Distortion Operating Bandwidth	200W <0.05% 500Hz – 2.5kHz	200W <0.05% 500Hz – 2.5kHz

Product	EPAK 2500	EPAK 2500R
Mid-Bass Amplifier		
Amplifier Type	High efficiency, high current, low frequency switching amplifier.	High efficiency, high current, low frequency switching amplifier.
Rated Continuous Power	600W	600W
Distortion	<0.05%	<0.05%
Operating Bandwidth	130Hz – 500Hz	130Hz – 500Hz
Subwoofer Amplifier		
Amplifier Type	High efficiency, high current, low frequency switching amplifier.	High efficiency, high current, low frequency switching amplifier.
Rated Continuous Power	1600W	1600W
Distortion	<0.05%	<0.05%
Operating Bandwidth	20Hz – 130Hz	20Hz – 130Hz
Signal Input		
Input Impedance	20kΩ	20kΩ or 50Ω "Line driver ready"
Input Sensitivity	1.0V rms	1.0V rms
Line Output	Main Through output.	Main Through output, External sub out.
Insert Connectors	Insert point for Sub In/Out	Mid High insert, Internal Sub insert, External Sub insert points
Speaker Outputs	One EP6 for ES 1.0 and one EP4 for ES series subwoofers	One EP6 for ES 1.0 and one EP4 for ES series subwoofers
Physical Dimensions		
Height	700mm (27.55")	177.8mm (7.0")
Width	450mm (17.71")	483mm (19.0")
Depth	290mm (11.41")	495mm (19.5")
Weight	32kg (70.4lbs)	30kg (66lbs)
Power Connector	Neutrik PowerCon®	Neutrik PowerCon®
Operating Voltage	100-120V @ 60Hz 230-250V @ 50Hz	100-120V @ 60Hz 230-250V @ 50Hz
Recommended Amperage	30A 115V 16A 230V	30A 115V 16A 230V