# **KF12**

Portable powered floor monitor and PA system

#### **Features:**

- Unique performance-to-size ratio
- Self powered + Auxiliary powered output
- · Integrated DSP and remote control
- Symmetrical horizontal and vertical coverage
- · Cabinet angled for floor monitor use
- Integrated 35mm pole adapter
- · Integrated flying and stacking hardware
- Top quality components for outstanding performance
- Top quality components for outstanding performance
- For use in single, point source applications, as a floor monitor and in combination with other K-array systems

## Redline



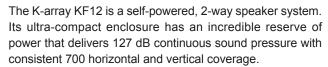
#### **DATASHEET**



### Applications:

- Small and medium scale events
- Theatres, concert halls, conferences, churches





The KF12 is best suited as a floor monitor and for medium throw applications in theatres, concert halls, churches and for corporate AV events. The integrated 35mm pole mount and the second amplifier output are specifically designed for use with the K-array KL 18 passive sub. This combination extends the system frequency response down to 30 Hz.

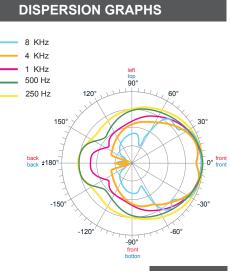


The KF12 uses a 12" neodymium speaker with a 3" voice coil for low-mid frequencies. The mid-high frequency section uses a co-axially mounted 3" voice coil neodymium compression driver

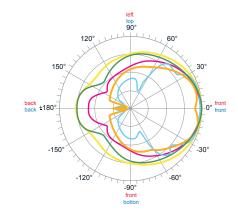
An internal DSP module provides 16 control presets. Dedicated remote control software allows for control of the speaker from a PC.

All the KF12 components are designed by the K-array R&D department and custom made under the K-array quality control system.

Acoustics   800 w + 200 W   AES   1200 x 500 W   1   1200 x 500 W		KF12
Max power   1200 x 500 W   1   1200 x 500 x 500 x 500 x 500 W   1   1200 x 500		Acoustics
Impedance   8Ω + 8Ω   60 Hz - 19 KHz   97 dB (low) 101 dB (high) 2   127 dB continuous - 133 dB peak   Coverage   Horizontal   70°   Crossover   70°   DSP controlled   1.2 KHz   Transducers   1.3 Yordec coil   1.3 Yordecc coil   1.3 Yordeccc	Speakers power handling	800 w + 200 W (AES)
SPL 1W/ 1mt   97 dB (low) 101 dB (high) 2   127 dB continuous - 133 dB peak   Coverage	Max power	1200 x 500 W <sup>1</sup>
SPL 1W1 int   97 dB (low) 101 dB (high) 2   127 dB continuous - 133 dB peak   Coverage	Impedance	Ω8 + Ω8
Maximum SPL   127 dB continuous - 133 dB peak   Coverage	Frequency range	60 Hz - 19 KHz.
Coverage Horizontal Vertical 70° Crossover Type DSP controlled 1.2 KHz Transducers  Low - Mid frequency High frequency High frequency  Connectors Wiring Pin1 = ground / Pin2 = hot (+) / Pin3 = cold (-) Power Audio Output  Connectors Remote control Input  Connectors 1 x 1emale 8-pin RJ45 Power Input  Connectors 2 x PowerCon IN/OUT Amplifiers Type 1 modules class D - DSP controlled 1000 W x 2 channel (2000 watt total) 3 Dynamic limiter, over current, over temp, short circuits AC power  Operating range I.nom Minimum operation voltage Maximum operation voltage Max continuous and burst current Dimensions  Crossover  1 x 4-pin speakers with 3" voice coil 1 x 1" Neodymium coaxial compression drivers with 3" voice coil 1 x 1" Neodymium coaxial compression drivers with 3" voice coil 1 x 1" Neodymium coaxial compression drivers with 3" voice coil 1 x 4-pin speakers Power Audio Output 1 x 4-pin speakon Remote control Input 1 x female 8-pin RJ45 Power Input 2 x PowerCon IN/OUT Amplifiers 1 modules class D - DSP controlled 1000 W x 2 channel (2000 watt total) 3 Dynamic limiter, over current, over temp, short circuits AC power  210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable) 125 Vac - 205 Vac 125 Vac - 205 Vac 126 Vac - 205 Vac 127 Vac - 205 Vac 128 Vac - 205 Vac 129 Vac - 204 Vac - 206 Vac - 208 Vac	SPL 1W/ 1mt	97 dB (low) 101 dB (high) <sup>2</sup>
Horizontal Vertical  Vertical  Toro  Crossover  Type  DSP controlled  1.2 KHz  Transducers  Low - Mid frequency  High frequency  High frequency  High frequency  Connectors  Wiring  Pin1 = ground / Pin2 = hot (+) / Pin3 = cold (-)  Power Audio Output  Connectors  Taremale a-pin RJ45  Power Input  Connectors  Type  Toro  Type  Toro  Toro  Amplifiers  Type  Toro  Toro  Toro  Amplifiers  Type  Toro  Tor	Maximum SPL	127 dB continuous - 133 dB peak
Type Frequency Type Frequency Frequency High frequency High frequency Connectors Wiring Connector  Connector  Type Frequency High frequency High frequency High frequency  Connectors Wiring Frequency  Connectors Wiring Fin1 = ground / Pin2 = hot (+) / Pin3 = cold (-)  Power Audio Output  Connectors Frequency  Connectors  Audio Input  Male + female parallel 3-pin balanced XLR Pin1 = ground / Pin2 = hot (+) / Pin3 = cold (-)  Power Audio Output  Connectors Frequency  Audio Input  Connector  Power Audio Output  1 x 4-pin speakon  Remote control Input  Connectors Power Input  Connectors  1 x female 8-pin RJ45  Power Input  Connectors  1 modules class D - DSP controlled 1000 W x 2 channel (2000 watt total) 3  Dynamic limiter, over current, over temp, short circuits  AC power  210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable)  1.nom AC power  210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable)  1.nom AS power  210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable)  1.00 - 120 Vac 60Hz (selectable)  1.00 - 120 Vac 60Hz (selectable)  25 Vac - 205 Vac  Default 12A(>10 sec) - 24A (<1 sec) Selectable 20A(>10 sec) - 24A (<1 sec) Selectable 20A(>10 sec) - 40A (<1 sec)  Physical  Dimensions  32.5 x 33.5 x 33.8 cm (12.91" x 13.19" x 13.31")		Coverage
Type Frequency Frequency Low - Mid frequency High frequency High frequency High frequency  Connectors Wiring Fremeter  Connectors Wiring Fremeter  Connectors  Wiring Fremeter  Connectors  Wiring Fremeter  Connectors  Connectors  Wiring Fremeter  Connectors	Horizontal	70°
Type Frequency Frequency Frequency Frequency  Low - Mid frequency High frequency High frequency  Connectors Wiring Fower Audio Output  Connector  Connectors  Connectors  Type Power Input  Connectors  Type Type Power Input  Connectors  Type Type Power Input  Connectors  Type Type Type Type Type Type Type Typ	Vertical	70°
Frequency  Interpretation of the protection of t		Crossover
Transducers  1 x 12" Neodymium speakers with 3" voice coil  1 x 1" Neodymium coaxial compression drivers with 3" voice coil  Audio Input  Connectors  Wiring  Pin1 = ground / Pin2 = hot (+) / Pin3 = cold (-)  Power Audio Output  1 x 4-pin speakon  Remote control Input  Connectors  1 x female 8-pin RJ45  Power Input  Connectors  Type  1 modules class D - DSP controlled  Power  Protection  Operating range  I.nom  Minimum operation voltage  Maximum operation voltage  Max continuous and burst current  Dimensions  Tx 1 x 12" Neodymium speakers with 3" voice coil  1 x 1" Neodymium speakers with 3" voice coil  1 x 1" Neodymium speakers with 3" voice coil  1 x 1" Neodymium speakers with 3" voice coil  1 x 1" Neodymium coaxial compression drivers with 3" voice coil  Audio Input  1 x 4-pin speakon  Remote control Input  1 x 7" Neodymium speakers with 3" voice coil  1 x 1" Neodymium coaxial compression drivers with 3" voice coil  Audio Input  1 x 4-pin speakon  Remote control I	Туре	DSP controlled
Low - Mid frequency High frequency High frequency  Audio Input  Connectors Wiring Pin1 = ground / Pin2 = hot (+) / Pin3 = cold (-)  Power Audio Output  Connectors  Remote control Input  Connectors  1 x female 8-pin RJ45  Power Input  Connectors  Type Power Protection Protection Protection Protection  Operating range I.nom Minimum operation voltage Max continuous and burst current Dimensions  1 x 12" Neodymium speakers with 3" voice coil 1 x 1" Neodymium speakers with 3" voice coil 1 x 1" Neodymium speakers with 3" voice coil 1 x 1" Neodymium speakers with 3" voice coil 1 x 1" Neodymium speakers with 3" voice coil 1 x 1" Neodymium speakers with 3" voice coil  Audio Input  Pin2 = hot (+) / Pin3 = cold (-)  Power Audio Output  1 x 4-pin speakon  Remote control Input  1 x female 8-pin RJ45  Power Input  2 x PowerCon IN/OUT  Amplifiers  1 modules class D - DSP controlled 1000 W x 2 channel (2000 watt total) 3  Dynamic limiter, over current, over temp, short circuits  AC power  210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable) 5.5 A / 115 Vac - 3.6 A / 230 Vac  95 Vac - 195 Vac  Default 12A(>10 sec) - 24A (<1 sec) Selectable 20A(>10 sec) - 24A (<1 sec) Selectable 20A(>10 sec) - 40A (<1 sec)	Frequency	1.2 KHz
High frequency    1 x 1" Neodymium coaxial compression drivers with 3" voice coil		Transducers
Audio Input  Connectors Wiring Pin1 = ground / Pin2 = hot (+) / Pin3 = cold (-)  Power Audio Output  Connector  Remote control Input  Connectors  1 x 4-pin speakon  Remote control Input  Connectors  2 x Power Input  Connectors  Type 1 modules class D - DSP controlled  Power Protection Power  Operating range I.nom Minimum operation voltage Max continuous and burst current  Dimensions  Audio Input  Male + female parallel 3-pin balanced XLR  Pin1 = ground / Pin2 = hot (+) / Pin3 = cold (-)  Power Audio Output  1 x 4-pin speakon  Remote control Input  1 x female 8-pin RJ45  Power Input  2 x PowerCon IN/OUT  Amplifiers  1 modules class D - DSP controlled  1000 W x 2 channel (2000 watt total) <sup>3</sup> Dynamic limiter, over current, over temp, short circuits  AC power  210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable)  5.5 A / 115 Vac - 3.6 A / 230 Vac  Minimum operation voltage  Max continuous and burst current  Physical  Dimensions  32.5 x 33.5 x 33.8 cm (12.91" x 13.19" x 13.31")	Low - Mid frequency	1 x 12" Neodymium speakers with 3" voice coil
Miring   Power Audio Output	High frequency	
Pin1 = ground / Pin2 = hot (+) / Pin3 = cold (-)		Audio Input
Power Audio Output	Connectors	male + female parallel 3-pin balanced XLR
T x 4-pin speakon   Remote control Input	Wiring	Pin1 = ground / Pin2 = hot (+) / Pin3 = cold (-)
Remote control Input  1 x female 8-pin RJ45  Power Input  2 x PowerCon IN/OUT  Amplifiers  1 modules class D - DSP controlled  1000 W x 2 channel (2000 watt total) <sup>3</sup> Dynamic limiter, over current, over temp, short circuits  AC power  210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable)  I.nom  5.5 A / 115 Vac - 3.6 A / 230 Vac  Minimum operation voltage Maximum operation voltage Max continuous and burst current  Physical  Dimensions  Remote control Input  1 x female 8-pin RJ45  Power Input  2 x PowerCon IN/OUT  Amplifiers  1 modules class D - DSP controlled  1000 W x 2 channel (2000 watt total) <sup>3</sup> Dynamic limiter, over current, over temp, short circuits  4 C power  210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable)  110 - 120 Vac 60Hz (selectable)  125 Vac - 205 Vac  Default 12A(>10 sec) - 24A (<1 sec) Selectable 20A(>10 sec) - 40A (<1sec)  Physical  32.5 x 33.5 x 33.8 cm (12.91" x 13.19" x 13.31")		Power Audio Output
Connectors  1 x female 8-pin RJ45  Power Input  2 x PowerCon IN/OUT  Amplifiers  Type 1 modules class D - DSP controlled 1000 W x 2 channel (2000 watt total)³  Protection Dynamic limiter, over current, over temp, short circuits  AC power  210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable)  I.nom 5.5 A / 115 Vac - 3.6 A / 230 Vac  Minimum operation voltage Maximum operation voltage Maximum operation voltage Max continuous and burst current  Dimensions  1 x female 8-pin RJ45  Power Input 2 x PowerCon IN/OUT  Amplifiers  1000 W x 2 channel (2000 watt total)³  Dynamic limiter, over current, over temp, short circuits  100 - 120 Vac 60Hz (default) 100 - 120 Vac 60Hz (selectable)  5.5 A / 115 Vac - 3.6 A / 230 Vac  95 Vac - 195 Vac  Default 12A(>10 sec) - 24A (<1 sec) Selectable 20A(>10 sec) - 40A (<1 sec)  Physical  Dimensions  32.5 x 33.5 x 33.8 cm (12.91" x 13.19" x 13.31")	Connector	1 x 4-pin speakon
Power Input		Remote control Input
Connectors   2 x PowerCon IN/OUT	Connectors	1 x female 8-pin RJ45
Type Power 1000 W x 2 channel (2000 watt total) 3  Protection Dynamic limiter, over current, over temp, short circuits  AC power  210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable)  I.nom 5.5 A / 115 Vac - 3.6 A / 230 Vac  Minimum operation voltage Maximum operation voltage 125 Vac - 205 Vac  Max continuous and burst current Default 12A(>10 sec) - 24A (<1 sec) Selectable 20A(>10 sec) - 40A (<1sec)  Physical  Dimensions 32.5 x 33.5 x 33.8 cm (12.91" x 13.19" x 13.31")		Power Input
Type   1 modules class D - DSP controlled   1000 W x 2 channel (2000 watt total) 3   Dynamic limiter, over current, over temp, short circuits   AC power   210 - 240 Vac 50Hz (default)   100 - 120 Vac 60Hz (selectable)   1.nom   5.5 A / 115 Vac - 3.6 A / 230 Vac   95 Vac - 195 Vac   Maximum operation voltage   125 Vac - 205 Vac   Default 12A(>10 sec) - 24A (<1 sec)   Selectable 20A(>10 sec) - 40A (<1 sec)   Physical   Dimensions   32.5 x 33.5 x 33.8 cm (12.91" x 13.19" x 13.31")	Connectors	2 x PowerCon IN/OUT
Power   1000 W x 2 channel (2000 watt total) 3		Amplifiers
Protection  Dynamic limiter, over current, over temp, short circuits  AC power  210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable)  I.nom  5.5 A / 115 Vac - 3.6 A / 230 Vac  Minimum operation voltage Maximum operation voltage  Max continuous and burst current  Default 12A(>10 sec) - 24A (<1 sec) Selectable 20A(>10 sec) - 40A (<1 sec)  Physical  Dimensions  32.5 x 33.5 x 33.8 cm (12.91" x 13.19" x 13.31")	Туре	1 modules class D - DSP controlled
AC power	Power	1000 W x 2 channel (2000 watt total) <sup>3</sup>
210 - 240 Vac 50Hz (default)	Protection	Dynamic limiter, over current, over temp, short circuits
100 - 120 Vac 60Hz (selectable)		AC power
Minimum operation voltage  Maximum operation voltage  Max continuous and burst current  Default 12A(>10 sec) - 24A (<1 sec) Selectable 20A(>10 sec) - 40A (<1 sec)  Physical  Dimensions  32.5 x 33.5 x 33.8 cm (12.91" x 13.19" x 13.31")	Operating range	, ,
Maximum operation voltage         125 Vac - 205 Vac           Max continuous and burst current         Default 12A(>10 sec) - 24A (<1 sec)	I.nom	5.5 A / 115 Vac - 3.6 A / 230 Vac
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Selectable 20A(>10 sec) - 40A (<1sec)  Physical  32.5 x 33.5 x 33.8 cm (12.91" x 13.19" x 13.31")	Maximum operation voltage	125 Vac - 205 Vac
Dimensions 32.5 x 33.5 x 33.8 cm (12.91" x 13.19" x 13.31")	Max continuous and burst current	. , , , ,
		Physical
Weight 11.8 Kg (26.01 lbs)	Dimensions	32.5 x 33.5 x 33.8 cm (12.91" x 13.19" x 13.31")
3   3 \ / / /	Weight	11.8 Kg (26.01 lbs)







vertical

#### Notes for data

- Maximum RMS applicable power for a musical signal, the reference signal is the one proposed by EIAJ standard.
- 2. Measured @4 mt then scaled @1 mt
- Amplifier wattage rating is based on the maximum unclipped burst sine wavwwe RMS voltage that the amplifier will produce into the nominal load impedance.

New materials and design are introduced into existing products without previous notice. Present systems may differ in some respects from those presented in this brochure.