D·PAC® audio AM-2

- *High precision medium throw mid/high loudspeakersystem*
- *Compact design aids handling and transport*
- *Dual integral low noise, convection cooled, Class D amplifiers*
- *Frequency response 43Hz-18kHz (+/-3dB)*
- *System max SPL 134dB - 128dB prog.*
- *Power 8 x AM-2's from a single 230V/16A feed*
- *15" and 2" with 4" voicecoil technology*
- *No moving parts in amplifer (no fan)*
- *Amp power - 725W RMS - 1.450W prog*
- *Easy, fast and simple flyingsystem*

Description

The AM-2 is a selfpowered 15" and 2" system, designed to meet the demand for compact, arrayable, high powered, high precision mid/high loudspeakers for touring and other professional use.

The integral Class D amplifier is a very low noise, efficient design eliminating the need for a fan and making AC power requirements much lower than conventional designs and well within the reach of most venues.

Built in band-pass filtering, processing and a limiter optimises the amplified signal to the loudspeakers and provides protection.

A hardwired output is provided to link multiple AM-2's together with an AC output for linking up to eight cabinets in the system.

The AM-2 has a wide dynamic range coupled with a high crest factor for true sounding mid/high frequency reproduction.

The cabinet is constructed from 15mm Finnish birch plywood with bracing to reduce vibrations and sound coloration. For ease of handling there are six strategically placed handles. The cabinet is designed for flying, with a unique and simple solution, that is very costeffective.

The cabinet is finished with a very durable, textured black paint. The grille is powdercoated, perforated steel (58% open) with a foam filter attached to protect against dust.

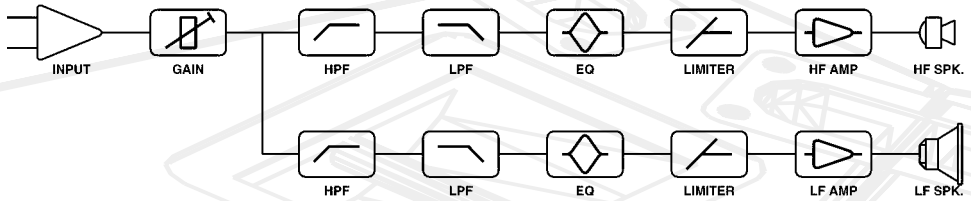
The AM-2 weighs 55,9 kilograms. Dimensions in cm (h x w x d): 80 x 48 (front) 16.5 (back) x 59 cm

Applicatons include

Touring
Corporate events
Theatres
Arenas
Live music clubs
Large discotheques
Installation

D·PAC® audio AM-2

The amplifier module - constructed for professionals with no time to waste



From input to output, all stages has been carefully optimized for perfect and reliable results, both in mechanics and electronics.

The connectors are high quality metal connectors from Neutrik. The input is balanced and protected against high-voltage errors.

Carefully selected individual bandpass filters ensures best acoustical interaction between the two transducers, and precise equalization gives a flat frequency response. The limiter is inaudible when not in action, and provides seucre protection of both amp and transducer when activated.

The efficient design of the amplifiers eliminates the need for a fan and/or bulky heatsink and ensures a compact design.

There are clear indication for the status of the loudspeaker.

Protect
HF-limit
LF-Limit
Signal
Power

To ease SPL adjustment between AM-2's and AS-2's there is a switch that toggels between +3, 0 and -3dB.

The power connectors are the new standard from Neutrik - Powercon. Due to the high effeciency, it is possible to link up to 8 AM-2's on one 230V/16A AC outlet.

The fuse is easy to access, and the AC power link works independently from the fuse, giving continues AC power on link out.

D·PAC® audio AM-2

Easy Fly
- The Simple Solution

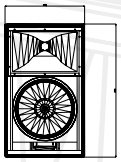
For a long time, flying hardware has been almost as expensive as the speakercabinet itself. D-PAC Audio decided to change that with the new Easy Fly system, based on special hardware mounted on the cabinet, and use of „off-the-shelve“ shackles to connect with inexpensive fly-bars supplied by D-PAC.

Due to safety regulations, there are iron reinforcement from all four top fly points to all four bottom fly points.

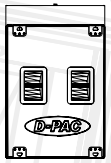
The Easy Fly makes coupling between two and more cabinets easy and secure. The shackle is secured throug the Easy Fly on the cabinets to a fly-bar. To adjust the angle dispersion, another fly-bar is secured using two shackles, giving a X-formation or cross on top of the system.

Flying the system is done in less than 20 minutes, giving more time to tune the system to the specific venue.

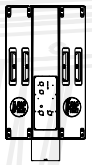
Technical drawing



Front

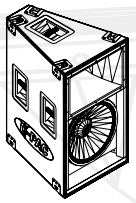


Side

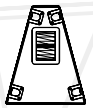


Back

Top



AM-2



Bottom

Frequency response for AM-I

Blue is dispersion on axis. Red is avaraged dispersion +/- 45 degree vertical, and green low is avaraged dispersion +/- 45 degree horizontal.

Horizontal dispersion - polar plots +/- 90 degrees

1kHz, 2kHz and 4kHz" *6kHz, 10kHz and 16kHz*

Vertical dispersion - polar plots +/- 90 degrees

1kHz, 2kHz and 4kHz" *6kHz, 10kHz and 16kHz*

D·PAC® audio AM-2

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Horizontal frequency responsee for 2 AM-2's

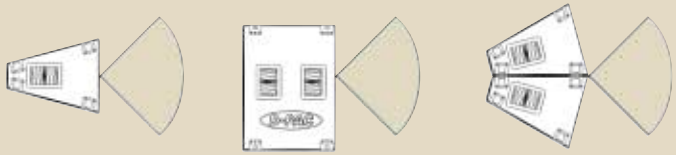
The blue colour is frequency response measured between the two AM's and the grey is an avaraged frequency response covering +/- 45 degrees.

Horizontal dispersion - polar plots +/- 60 degrees

500Hz, 1kHz, 2kHz and 3kHz *5kHz, 8kHz, 10kHz and 16kHz*

The polar diagrams shows the horizontal dispersion for two adjacent AM-2's measured in 5 degree steps.

Measurement method



Horizontal *Vertical* *Dual horizontal*

Description

Model		AM-2
Acoustical data	Frequency response	
	+/- 3dB	43 Hz - 18 kHz
	- 10dB	34 Hz - 20 kHz
	Sensitivity	99 dB 1W @ 1 m
	Maximum SPL (calculated)	134 dB for one enclosure
	Long term SPL (calculated)	128 dB for one enlosure
	Coverage horizontal	30 degree
	Coverage vertical	16 degree up - 35 degree down
Transducers	Components and Configuration	LF: 15" reflex loaded w/ 4 inch voicecoil HF 2" compression driver w/ 4 inch voicecoil mounted on D-PAC CD-horn
Audio input	Type	10 kOhm actively balanced
	Connector	Neutrik XLR type
	Nominal input level	+ 4dBu
	Input CMRR	>90dB
	Level adjustment	Switch w/ +3dB, 0dB -3dB
Audio output / link	Link output type	Hardwired from input
	Connector	Neutrik XLR type
	High-pass output type	None
	Nominal output level	n/a
	Level adjustment	None
Amplifier	Type	Convection cooled Class D design
	Output power - 10% duty cycle	1.200W + 250W
	Output power	600W RMS + 125W RMS
	hum & noise	-100dB
	Dampingfactor	>1000
	Soft start	Yes
	THD - unwgtd.	< 0,05% 20Hz - 20kHz
AC power	Connector	Neutrik Powercon + link
	Operational voltage range	220 - 240Volt / 50Hz
	Max continues RMS current	2 Amp
	Max peak current during 10msec burst	6 Amp
	Turn on current	<1Amp
Physical description	Dimensions (h x w front x w rear x d)	80 cm x front 48,7cm x back 16,5 cm x 59 cm
	Weight	55,9 kg net (58 kg. shipping)
	Enclosure	Trapezoid cabinet in 15 mm. Finish Birch
	Finish	Heavy duty black coating
	Grille	58% open 1,5mm powdercoated steel
	Flying system	backed with fire retardent foam
	Options	Integrated D-PAC Easy Fly flying system
	43 Hz - 18 kHz	Dolly, Fly Bar, Cables

Grafisk design, prepress og tryk: TrykBureauet Grafisk produktion A/S, 2730 Herlev