



KEY FEATURES

TRANSDUCERS TECHNOLOGY

Two-way full range active speaker system composed by two direct radiating 2-inch long excursion dual voice coil, neodymium magnet 8" loudspeakers and one 1.7-inch voice coil, HT polymer diaphragm, neodymium magnet compression driver loaded to an asymmetrical rotational horn (50° to 100° x 55° dispersion).

AMPLIFICATION

3000 W 3rd generation Class D built-in amplifier controlled by a dedicated multichannel DSP.

90% efficiency amplifier SMPS (switching mode power supply), allowing maximum power delivery with minimum consumption in an extremely low-weight and reduced size.

Exclusive and unique Overvoltage Protection which continuously monitors line voltage and instantly disconnects the system if the line voltage exceeds the maximum permissible level.

Automatic low power consumption mode (EcoMode) available, when no signal present at the input.

Double PowerCon® (input & link).

DSP & CONTROL

ACTIVE+ DSP technology with all necessary signal processing (crossovers, EQ's, delay, limiters, gain control, mute) as well as several useful presets to adjust the XM82 to different requirements.

Advanced signal processing using F.I.R. (Finite Impulse Response) filters.

Rear connections and control panel with 3.5" TFT colour touch screen to display the different settings, presets, volume and adjustments done by the user.

Automatic input overload prevention circuit: prevents overloading the A/D converter input.

Double Ethernet connection with integrated Ethernet switch and Dante™ audio networking protocol that uses standard IP networks to receive high-quality, uncompressed audio with near-zero latency.

New DSPStudio® control software capable of adjusting and setting-up even the finest details and monitoring key parameters of the amplifier: input and output levels, limiter engagement, amplifier temperature and status, and network connection status.

DESIGN & ACCESSORIES

Ergonomic handles for an easy and comfortable transport.

2mm speaker grille with grey micro-foam cloth, exclusively designed with an optimum perforation gradient and attractive appearance.

Multilayer baltic birch plywood cabinet with Polyurea® coating, offering maximum reliability and strength for touring as well as for high demanding applications.

35mm diameter pole mount socket for a standard tripod.

Protective rubber profiles.



DSP STUDIO CONTROL
APP FOR WINDOWS AND
MAC



**ASYMMETRICAL
DISPERSION
HORN**



**LIGHT NEODYMIUM
COMPONENTS**



**> 250 V
OVERVOLTAGE
PROTECTION**



**MULTIPLE PRESETS
AVAILABLE**



**HIGH RESISTANT
POLYUREA® PAINT**

TECHNICAL FEATURES

Amplifier (program power)	2500 W (LF) + 500 W (HF) Class D Bi-amplified				
Analog input	Nominal: +8 dBu. Max: +20 dBu. Impedance: 20 kΩ Balanced				
Audio networking	Dante™ audio networking input, 1 channel, 48kHz				
Mains	Universal Switch Mode Power Supply 85-265 V / 45-65 Hz				
Average current draw	2.9 A (Heavy duty musical program)				
SPL (1 m)	132 dB continuous musical program, 135 dB peak				
Built-in DSP	64-bit processing unit. Includes factory presets				
AD/DA converters	24 bit – 48 kHz				
Standby mode consumption	< 5 W				
Adjustable delay line	294 ms / 100 m				
Crossover frequency	1k2 Hz				
Frequency response (-10 dB)	70 Hz – 19 kHz				
Components	<table><tr><td>LF</td><td>2x 8" neodymium woofers (2" long excursion dual voice coil)</td></tr><tr><td>HF</td><td>1x 1.7" HT polymer diaphragm, neodymium magnet compression driver</td></tr></table>	LF	2x 8" neodymium woofers (2" long excursion dual voice coil)	HF	1x 1.7" HT polymer diaphragm, neodymium magnet compression driver
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HF	1x 1.7" HT polymer diaphragm, neodymium magnet compression driver				
Directivity (-6 dB)	50° to 100° (H) x 55° (V)				
Directivity factor (Q)	12.6				
Directivity index (DI)	11 dB				
Weight	20 Kg				
Dimensions (HxWxD)	345 x 490 x 530 mm				
Finish	Multilayer baltic birch plywood with high resistant black Polyurea® coating and protective rubber profiles				
Grille	2 mm steel with grey micro-foam cloth				
Connectors	1x XLR input / 1x XLR link / 1x AC PowerCon® input / 1x AC PowerCon® link / 1x EtherCon® RJ45 input / 1x EtherCon® RJ45 link				



FRONT VIEW WITHOUT GRILLE



REAR VIEW



PERSPECTIVE BACK VIEW



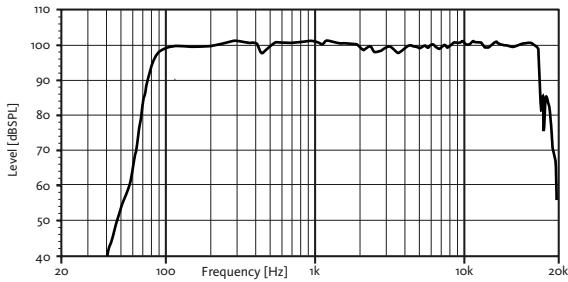
SIDE VIEW

XM82

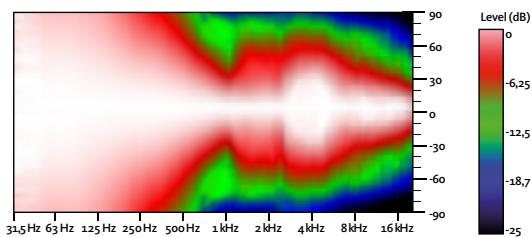
2x 8" HIGH PERFORMANCE TWO-WAY
ACTIVE FULL-RANGE STAGE MONITOR



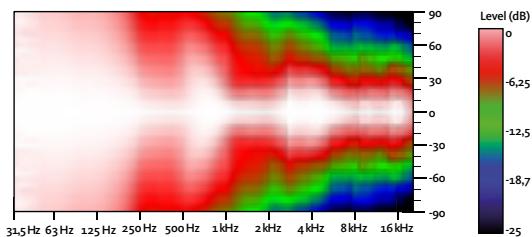
FREQUENCY RESPONSE 1w/1m (MONITOR PRESET)



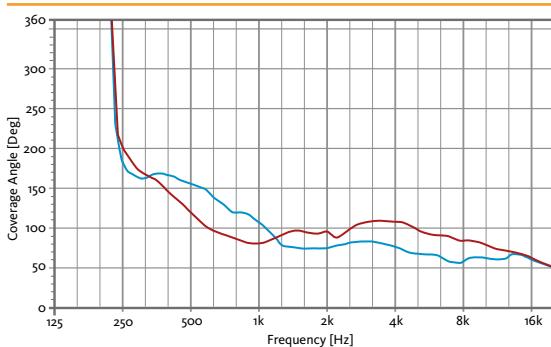
HORIZONTAL COVERAGE



VERTICAL COVERAGE

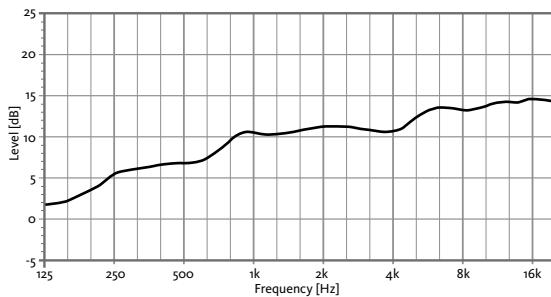


HORIZONTAL & VERTICAL BEAMWIDTH (-6dB point)

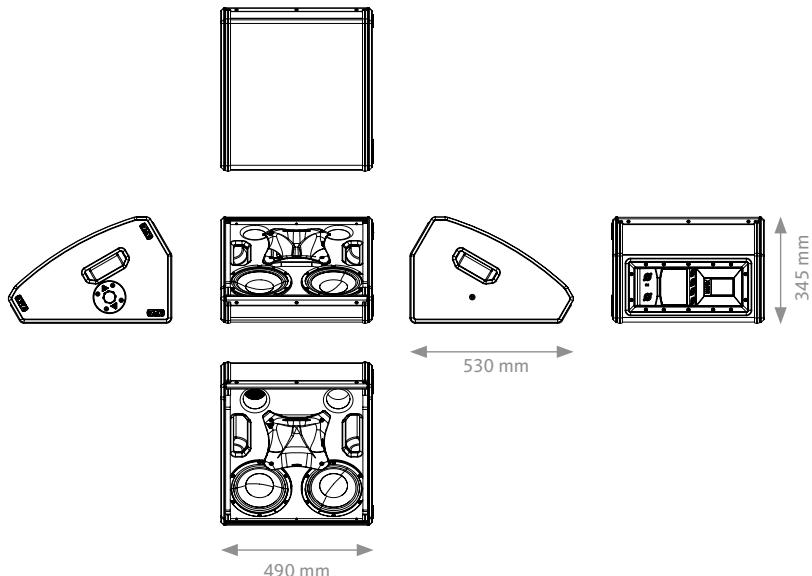


HORIZONTAL VERTICAL

DIRECTIVITY INDEX (DI)



CAD DRAWING SCHEME

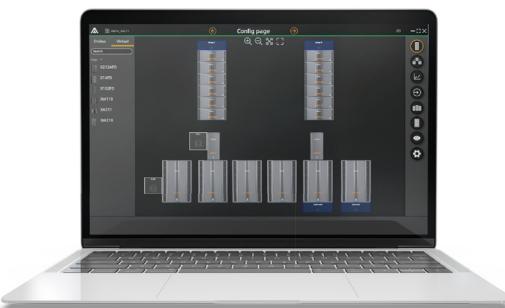


DSP STUDIO 4 CONTROL SOFTWARE

The 4th generation of the DSPStudio software allows the remote control and monitoring of the device via Ethernet. Ready for both Windows and MacOs, and also touchscreen friendly, the software allows the control of several devices associated in arrays and groups. An offline mode is also available, so you can create your project without the need of a live connection with the devices.

Three different views are available:

- Config Page:** add your devices in the desktop, assign names and organise them in arrays, groups and views.
- Tuning Page:** ready to use when tuning the system. Assign individual or global gain, PEQ or delays to the devices, groups or arrays
- Live Page:** Monitor constantly the status of the system. Limiters, temperature and mains voltage



PC
VERSION



MAC
VERSION

Download it from our website: www.amateaudio.com

ACCESSORIES

FLIGHT CASE FC-XM82

for two units of XM82



TELESCOPIC DISTANCE ROD

SP-CRTL

Ø: 35 mm
Length: 55 cm ~ 90 cm
Thread: M20



REAR CONTROL PANEL TOUCHSCREEN

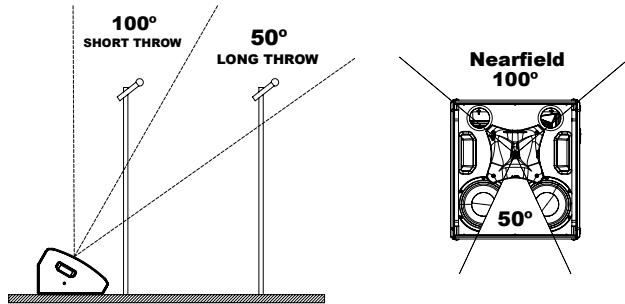


ASYMMETRICAL DISPERSION HORN

It allows you to optimize the coverage depending on its position.

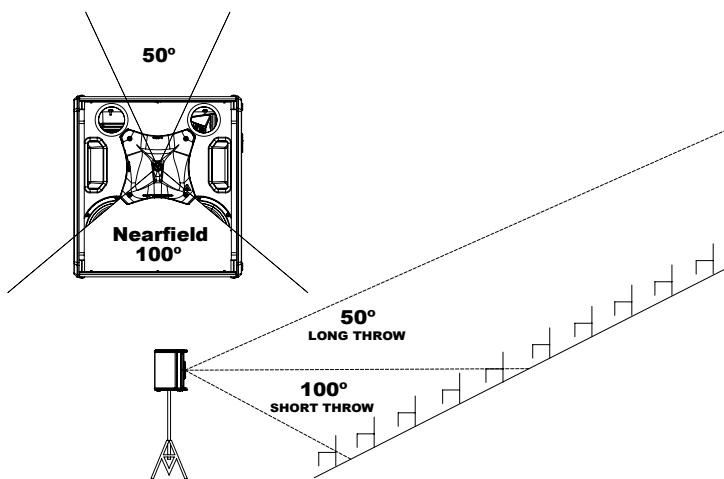
STAGE MONITOR USE

We need wider coverage (100°) when musicians are closer to the cabinet than when they move away from it (50°).



VERTICAL POINT SOURCE USE

We need wide coverage (100°) for the closest listeners and narrow coverage for the distant audience.



STAGE MONITOR USE

We need wider coverage (100°) when performers move away from the cabinet (long stages) than when they are close to it (50°).

