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since 1972*

www.amateaudio.com

User's manual

XM82

XCELLENCE

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Safety Instructions

1. All safety instructions must be read before using this device.
2. The exclamation mark in the triangle indicates internal components which if replaced can affect safety.
3. The lightning symbol within the triangle indicates the presence of dangerous uninsulated voltages.
4. This device must not be exposed to rain or humidity. It must not be used for example near swimming pools, fountains or any other place where it might be affected by liquids.
5. Only clean the device with a dry cloth.
6. Do not situate the equipment where its ventilation system might be interfered with.
7. Do not install the device near heat sources such as radiators, heaters or other heat-emitting elements.
8. The equipment must be repaired by qualified technical service personnel when:
 - A. The mains supply cable is damaged, or
 - B. Any object or liquid has damaged the device; or
 - C. The equipment does not function normally or correctly; or
 - D. The equipment has been exposed to the rain; or
 - E. The chassis is damaged
9. Disconnect the device in the case of electric storms or during long periods of disuse.
10. Never hang the equipment by its handle.
11. Only use manufacturer recommended accessories.

1. INTRODUCTION

1.1. General product information

Amate Audio thanks you for the trust placed in our Xcellence loudspeaker systems. The Xcellence series combines the convenience of a self-powered system and the flexibility of the DSP (digital system processing) for cabinet control. More than 50 years' experience in amplifier and acoustic cabinet design using the highest technology and components come together to give you a product ideal for a multitude of applications, especially those which require high levels of sound pressure. Stadiums, theatres or big events will become the perfect places for their use. We suggest you read the following information with attention, assured that it will be of maximum use in helping you to achieve the best results and optimum performance.

1.2. Features and presentation

XM82

- Self-powered two-way acoustic system
- XLR electronically balanced input & XLR parallel link
- AC PowerCon input & link
- EtherCon RJ45 input & link
- 1 Gbps Ethernet connectivity with Dante™ audio networking
- 2500W class D amplifier for mid-bass range
- 500W class D amplifier for high range
- 24-bit AD/DA converters with 112 dB dynamic input, 48 kHz sampling rate
- DSP Controls (presets, parametric EQs, delay, mute, volume and limiter)
- Amplifier self-diagnostics: input level, temperature, limiter active
- Overvoltage protection (>250V-400V)
- Ethernet connectivity with Dante™ audio networking
- 2 x 8" neodymium woofers with 2" dual long excursion voice coil
- 1.7" HT polymer diaphragm neodymium driver
- 50° to 100° (H) x 55° (V) asymmetrical dispersion horn

2. XM82 FEATURES

The XM82 cabinet is ideal for a multitude of applications. It includes 2500 W bi-amplification for the low range woofers, 500 W for the high range compression driver and digital signal control by DSP. The manufacturer presets make it easy, flexible and user-friendly. The result is a clean, high quality sound whether for stage monitor use or as a point source system.

2.1. Technical description

The XM82 cabinet comes with DSP control and full range sound delivery thanks to its direct radiation transducers and acoustic bass reflex cabinet. As a full range system, its response is 70Hz-19kHz (-10dB).

It has 3000W continuous amplification (2500W + 500W), thermal protection, output short circuit protection, independent peak and RMS power limiters for each channel,

and protection against overvoltage. The DSP includes several presets which can be selected either accessing the cabinet's rear control panel or via the computer with Ethernet connection.

The XM82 cabinet is connected using the XLR balanced connector. Mains supply is through PowerCon. It is built in birch plywood, which has a high resistance to vibrations and humidity with black Polyurea paint coating. The front face is protected by a 2 mm thick steel grille with acoustically transparent grey cloth. It includes two in-built side handles for an easy and comfortable transport.

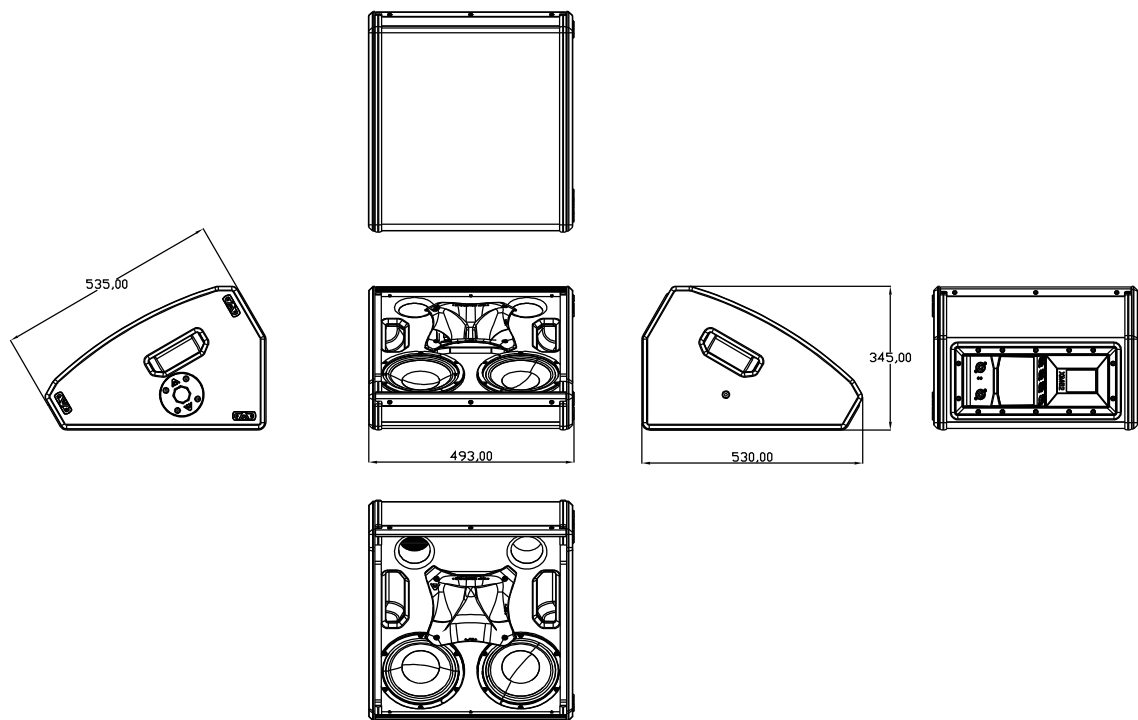


Fig. 1. XM82 external dimensions

3. PRESETS

The XM82 includes several manufacturer presets for different types of application. The DSP system can also store up to 24 other presets, depending on user requirements.

PRESET 1: MONITOR

Single enclosure without subwoofer, full range, flat response. Stage monitor applications, on floor. ALC (Automatic Loudness Compensation) not included.

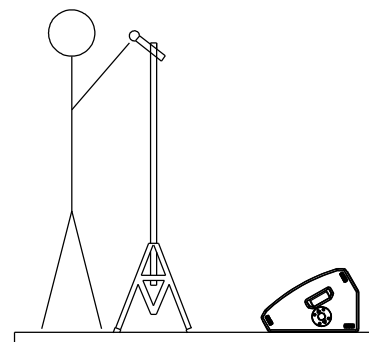


Fig. 2. Preset [MONITOR] configuration