

CXL122MP(A)

2-way, 12" / 2" (self-powered / bi-amplified) Multi Purpose Speaker / stage monitor



PROPHON
SOUND SYSTEMS

High End Sound Systems, designed and manufactured in Sweden

CXL122MP(A)

Manual / User guide / Technical data sheet (2011-10-01)

PROPHON
SOUND SYSTEMS

Presentation: PROPHON CXL122MP(A)

The PROPHON CXL122MP is a lightweight, two-way Multi Purpose speaker with a 12"-Neodymium woofer, and a coaxially mounted 2"-Neodymium driver, on a horn with a 80° conical dispersion with a dedicated built-in passive crossover network. The coaxial design has many benefits; true point-source, equal dispersion over the whole frequency range, space saving design gives a relative small sized cabinet, to name but a few.

CXL122MP is one of the most versatile speakers on the market, with an abundance of features and applications:

- High power Stage monitor,
- Stand alone fullrange speaker,
- Drumfill, sidefill, frontfill,
- Delay system,
- Installed as a fullrange speaker or as a top in an active sound system with subwoofers,
- As a mid / high speaker in an active bi-amped system with any of the PROPHON subwoofers.
(please see seperate datasheet for our range of subwoofers)

The cabinet is manufactured from high-quality, 18 mm. multi-layer, finnish birch-plywood, using high precision fully computer-controlled CNC-machines, and painted with a specially developed two-component hardened lacque.

The drivers are protected by a 1,5 mm thick, fully covering, perfored steel grille with a speaker foam in front, both with minimum air flow resistance and acoustic interference.

Discretely hidden in one of the two handles there is a 35mm. top hat for mounting on a speaker stand,

The CXL122MP has four cargo restraint tracks for rigging, flying and installing, a monitor angle for use as a stage monitor, protective rails and tilting hardware in the back.



Active, self-powered version

The CXL122MP(A) houses a 700W Amplifier with on-board DSP.

Neutrik XLR in / out for signal

Neutrik Powercon in / out for power

Four presets with different setting depending on application (push the **"preset select"** for changing setup)

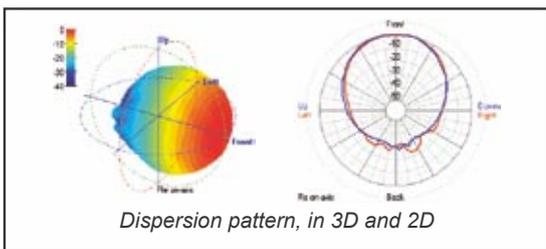
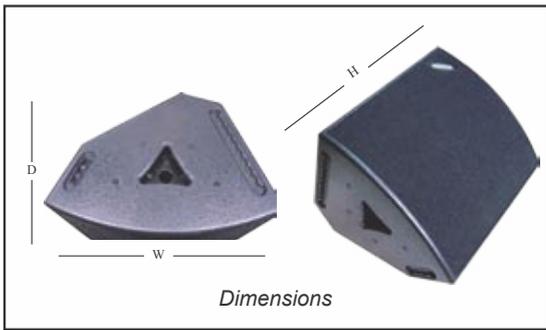
Preset4) High-Pass filter2 @ 95Hz, the same frequency response as preset2, but cut at 95Hz, for use as a stage monitor or as a top in an active sound system with subwoofers.

Preset3) High-Pass filter1 @ 95Hz, for use as a stage monitor or as a top speaker in an active system with subwoofers.

Preset2) Extended fullrange, for use as "stand-alone" sound system, with extended fullrange frequency response.

Preset1) Fullrange, using this preset the active version has the same frequency response as the passive / bi-amped version using prophon DSP settings.





Technical data CXL122MP:

Model	CXL122MP
Low frequency driver	1 x 12" Neodymium wooferr, 3"- voice coil
High frequency driver	1 x 1,4"- throat exit neodymium driver, with 3"- voice coil
Construction	Bi-amped, passive crossover Tuned bassreflex
Sensitivity	10 dB@1W/1m.
Nominal impedance	8 ohm
Power handling R.M.S.	400W
Power Handling cont.	800W
Max SPL, open space (calc.)	129 @ 1000W
frequency responce +/- 6dB	50Hz - 19kHz
Vertical dispersion -6dB	80°
Horisontal dispersion -6dB	80°
Measurements H x W x D mm.	340 x 500 x 420
Weight	17 kg.
Recommended crossover in an active system with subwoofers	HP@90-110Hz, 24-48dB/oct
Recommended Amplifier	PROPHON P3000, P3000DSP
Recommended pre- programmed DSP processors	PROPHON DSP260, PROPHON DSP480
Recommended Powerage	400W - 800W
Connections	2 x Neutrik Speakon 1+ /1- Input / through 2+ / 2- Link
Applications	- Fixed Installations. - Live performances. - Monitor. - Fullrange speaker - Mid/high in a PA- system with subwoofer
Accessories	- Transportation case - Flightware for rigging
Recommended EQ points passive version, using external DSP's	PEQ1) 75Hz, +3dB, Q1,4 PEQ2) 100Hz, +3dB, Q1,4 PEQ3) 300Hz, -3dB, Q1,4 PEQ4) 1,2kHz, -3dB, Q2 PEQ5) 2kHz, -3dB, Q2 High-shelf) 8kHz, -2dB, 6dB/slope

Extended Technical data active version (A):

Built in amplifier	700W @ 8 ohm
Input	Neutrik XLR female
Out / Through	Neutrik XLR male
Power chord in	Neutrik Powercon blue in / grey out, (max 7A/1600W)
volume control	mute to +6dB
DSP PRESETS	Four DSP PRESETS 4) TOP / MONITOR 2 (HP-FILTER2) 3) TOP / MONITOR 1 (HP-FILTER1) 2) EXTENDED FULLRANGE 1) FULLRANGE
Power	230V +/- 15%, 50-60Hz