CXL152MP(A)

2-way, 15" / 2" (self-powered / bi-amplified) Multi Purpose Speaker / stage monitor

PROPHON

SOUND SYSTEMS

High End Sound Systems, designed and manufactured in Sweden

CXL152MP(A)

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

PROPHON
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Presentation: PROPHON CXL152MP(A)

The PROPHON CXL152MP is a lightweight, two-way Multi Purpose speaker with a 15"-Neodymium woofer, and a coaxially mounted 2"-Neodymium driver, on a horn with a 80° conical dispersion with a deticated 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.
CXL152MP 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-controled 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 interferance.
Discretely hidden in one of the two handles there is a 35mm. top hat for mounting on a speaker stand,
The CXL152MP 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 CXL152MPA 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 responce 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 topp speaker in an active system with subwoofers.
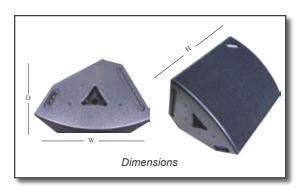**Preset2)** Extended fullrange, for use as "stand-alone" sound system,
with extended fullrange frequency responce.
Preset1) Fullrange, using this preset the active version has the same frequency responce
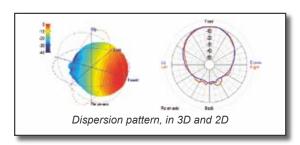as the passive / bi-amped.

2 x CXL152MP in an active rigg with
2 x B18HPA self-powered 18" subwoofers

Dimensions

Transportation case for 2 x CXL152MP(A)

Dispersion pattern, in 3D and 2D

Technical data CXL152MP

Model	CXL152MP
Low frequency driver	1 x 15" 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	100 dB@1W/1m.
Nominal impedance	8 ohm
Power handling R.M.S.	500W
Power Handling cont.	1000W
Power handling peak	2000W
Max SPL, open space, cont. Max SPL, 2Pi, peak	130dB @ 1000W 136dB @ 2000W
frequency responce +/- 6dB	50Hz - 19kHz
Vertical dispersion -6dB	80°
Horisontal dispersion -6dB	80°
Measurements H x W x D mm.	600 x 550 x 400
Weight	21 kg.
Recommended crossover in an active system with subwoofers	HP@100Hz, 48dB/oct
Recommended Amplifier	PROPHON P3000, P3000DSP
Recommended pre-programmed DSP processors	PROPHON DSP260, PROPHON DSP480
Recommended Powerage	500W - 1000W
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
Accessorie	- Transportation case - Flightware for rigging
Recommended EQ settings, using external DSP	PEQ1) 65Hz, +2dB, 2Q PEQ2) 80Hz, +2dB, 2Q PEQ3) 1,5kHz, -3dB, 1,5Q PEQ4) 10kHz, +3dB, 1,5Q PEQ5) 18kHz, -8dB, 5Q

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