



technical specifications CRMS

general

- Reference-quality sound reproduction system with fully matched components
- Unique hybrid front- /surround-system design
- RBN401 pro-ribbon HF driver with exceptional intelligibility and SPL output
- SIS pre-wired for very high damping and further reduced distortion (with ALC)
- Extended headroom/SPL and protection in combination with SDP modules (with ALC)
- “Real-90” horizontal dispersion, H 90° x V 40°
- Shallow system design (33,5cm/ 13.2-in.) for space economic mounting

description

The CRMS, Cinema Ribbon Monitor System is a 3-way main channel (left/center/right) / 2-way surround sound system, offering the most realistic sound reproduction possible.

Each system consists of a separate mid-high frequency (“MHF”) section, featuring one RBN401 pro-ribbon driver HF with non-vented 8” MF and a low frequency 15” (“LF”) section with low power-compression 4” voice-coil design.



The MHF section is specifically designed to act both as MHF section for the main/front system, as well as full-range surround system. This unique design results in a very uniform sound stage throughout the entire listening area.

pro-ribbon driver

Featuring the patented RBN401 pro-ribbon driver, the CRMS combines a remarkable clarity and intelligibility, with a unusually high headroom SPL. The Alcons pro-ribbon drivers have up to 90% less distortion than any conventional mid/high transducer (@ same SPL) with a very high resolution.

As a result of the “direct-drive” principle of the pro-ribbon transducer (no compression threshold), the system has the same tonal balance at all SPLs.

The patented “Real-90” horizontal dispersion of the RBN401 extends the stereo-imaging to a larger number of seats in the auditorium and/or widens the “sweet-spot in near-field (studio) applications.

The very high peak power handling of the RBN401 pro-ribbon driver (800W) offers true digital-cinema-ready performance, while enabling maximum screen compensations without any audible stress on the driver.

The purely resistive load of the pro-ribbon driver (completely flat impedance), caters for a very short signal path of the passive cross-over filter, with a minimum number of components.

Large (compression) horns are obsolete with this different transducer technology; This brings a great advantage in system mounting. With a depth of only 33.5cm/ 13.2in., a complete system can be installed in even the most shallow spaces. The system can both be flush-mounted as well as free-standing positioned. The recommended CB181sl subwoofer has a depth of only 25cm/10-in.

system

The 3-way CRMS system is bi-amped; This means the MHF section is passive-filtered and the LF-section is active-filtered. The CRMS top section includes dedicated filtering, but system equalizing is done remotely (electronically) in the ALC, fully utilizing the

individual speaker components’ power capacity. This results in increased headroom SPL, while still using a single channel for the MHF section.

control

Powered and controlled by the ALC (Amplified Loudspeaker Controller), the CRMS system has its own dedicated speaker drive, making a complete synergetic sound reproduction chain with precisely matched components. Absolute maximum output and quality with inaudible protection.

For dedicated controlling of the system, there’s a choice of analogue (SDP) and digital (DDP) processing modules. The analogue system offers non-latency pre-set controlling, whereas the digital system offers system settings, “on-board” parametric equalizing, delay per section, user presets, a.o.

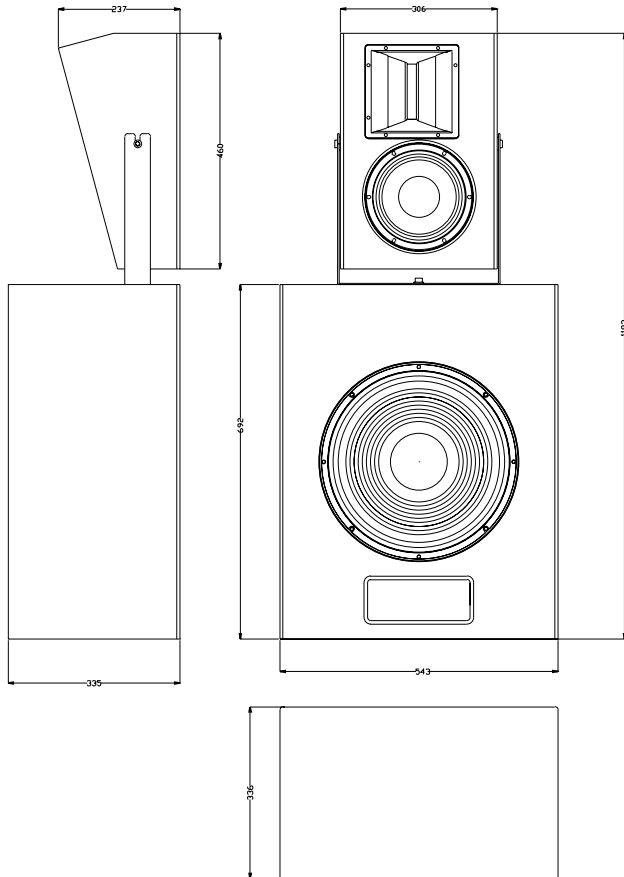
Extending the advantages of this system approach even further is “Signal Integrity Sensing™”; This circuitry within the ALC, together with the SIS™ pre-wiring in the CRMS, ensures complete cable and connector resistance compensation, raising the damping factor to a mere 10.000. This significantly increases response accuracy, regardless of cable length, with tight and accurate mid and bass response as result. Furthermore, SIS™ pre-wiring reduces distortion, both linear (uneven frequency response) and non-linear (InterModulationDistortion). The SIS™ circuit makes position of the amplifier none critical to ensure best performance.

The CRMS top cabinet is designed with a 10-degree sloped baffle, as “pre-tilt” for correct wall-mount surround position; When mounted on the CRMS sub as front channel system, an adjustable pan/tilt bracket enables precise projection and uniform coverage,

The combination of the outstanding sound reproduction quality and the digital dynamics capability, make the system the ideal choice for high-end mix/screening rooms, post-production facilities, dubbing stages, high-end Home Theatres and quality-conscious cinemas with less than 100 seats or room depth less than 15m/45ft.

As a result of Alcons’ tight manufacturing standards, all system cabinets are within “matched pair” tolerance.

dimensional drawing



technical specifications

Frequency Response CRMS system

+/- 3 dB	45 Hz - 20.000 Hz
+/- 10 dB	38 Hz

Frequency Response CRMS top

+/- 3 dB	125 Hz - 20.000 Hz
+/- 10 dB	68 Hz

Sensitivity (SPL 1W/M) 94 dB (system)

Sensitivity nominal 96 dB

Nominal Impedance 8 ohms (CRMS sub)

8 ohms (CRMS top)

Maximum power RMS / peak LF 1000 W / 7000 W

MF/HF 280 W / 800 W

SPL program / peak (nom.) LF 127 / 135 dB

MF/HF 120 / 125 dB

Dispersion H x V 90° x 40° (nom.)

physical specifications

System 3-way, full-range

Filtering LF active, MF/HF passive
(bi-amplified)

Driver LF (CRMS sub) 1 x AW15.4 15", vented

Driver MF (CRMS top) 1 x AMB8 8" non-vented

Driver HF (CRMS top) 1 x RBN401

4" pro-ribbon driver

Cross-over frequencies 150 Hz (active)

1200 Hz (passive)

Connectors 2 x Speakon NL4 input/link

Physical dimensions CRMS sub mm in

Height 692 27.2

Width 543 21.4

Depth 335 13.2

Physical dimensions CRMS top mm in

Height 460 18.1

Width 306 12.1

Depth 237 9.3

Weight CRMS sub (approx.) 36,5 kg (80.5 lb)

incl. grill 38,5 kg (84.9 lb)

Weight CRMS top (approx.) 13,5 kg (29.8 lb)

incl. grill 14 kg (30.9 lb)

Warranty 6 years limited

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