technical specifications CR4

general

- RBN pro-ribbon HF array section with exceptional intelligibility and high SPL output
- 1:1 non-compressed sound reproduction, with up to 90% less distortion
- SIS pre-wired for very high damping and further reduced distortion (with ALC)
- shallow system design (35cm/13,7”) for space economic mounting
- bi-amp filtering for economical powering or tri-amp filtering for maximum output
- Digital Cinema ready, with non-compressed reproduction and extended dynamic range

description

The CR4 is a 3-way cinema screen sound system, designed to meet all requirements of current and future (Digital) Cinema sound formats.
Featuring the patented Alcons pro-ribbon driver technology, the CR4 combines an exceptional clarity and intelligibility from low to high output SPL's with an unusually high dynamic range.

The CR4 offers the most realistic sound reproduction possible, for applications where high output with maximum quality cinema sound reproduction is required. It is recommended for theatres up to 450 seats (indicative).
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The driver arrangement consists of a triple RBN401 pro-ribbon HF driver array, four 6.5” mid-range drivers

and two vented 15” woofers for LF reproduction. The CR4 HF section has a 2400W peak power input, enabling a 1:16 dynamic range with up to 90% less distortion from 1kHz. to beyond 20kHz.
The absence of a “compression threshold”, caters for the same tonal balance at all SPL's, while the patented “Real-90” horizontal dispersion of the RBN401 widens the stereo experience for far left and right seated audience.

For optimized projection, while minimizing operational system depth, the MF/HF waveguide features a 10º pre-tilt.

The multiple driver arrangement caters for a precise projection preventing unwanted ceiling reflections, while enabling a very shallow system design: The shallow enclosure measures a depth of only 35cm/13,7” providing for flexible mounting, claiming only a minimum of space behind the screen.

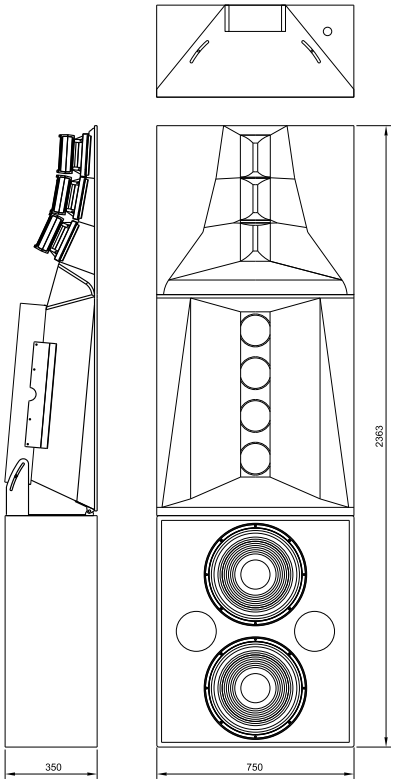
The CR4 is available with bi-amp filtering for economical powering or tri-amp filtering for maximum system output.

The CR4 is powered and controlled by the ALC amplified loudspeaker controller; Through the integrated CR4 drive-processing, the ALC offers response optimisation and dedicated protection.

Through the SIS™ (Signal Integrity Sensing) circuit, the cable-length and connector resistance between the CR3 and ALC is completely compensated (damping factor >10.000), for further increased accuracy and controlled cone-travel, resulting in a tighter mid and bass response.

technical specifications CR4

dimensional drawing



technical specifications

Frequency response	43 Hz – 20.000 Hz	(+/- 3dB)
	32 Hz -	(+/- 10dB)
Nominal SPL	104 dB (200 Hz - 10 kHz)	
Nominal impedance	LF 4 ohms, MF/HF 4 ohms (bi-amp)	
	LF 4 ohms, MF 4 ohms, HF 4 ohms (tri-amp)	
Recommended drive	Sentinel3 min., max. 1 pce. per 2 channels (bi-amp)	
Nominal SPL peak	133 dB (bi-amp), 134 dB (tri-amp) (Sentinel3 200 Hz – 10 kHz)	
	139 dB (bi-amp), 140 dB (tri-amp) (Sentinel10 200 Hz – 10 kHz)	
Dispersion H x V	90° x 36° (down to 250 Hz)	

physical specifications

System	3-way full range	
Filtering	LF active, MF/HF passive or LF, MF, HF active	
Drivers LF	2x AW15.4-8, 15” vented	
Drivers MF	4x AMD65ND-16 6.5”, vented	
Drivers HF	3x RBN401 4” pro-ribbon driver	
Connectors	2x Speakon NL4 input/link	
Physical dimensions	mm	inches
Height	2366	93,1
Width	750	29,5
Depth	350	13,8
Weight (approx.)	kg	lb
CR4LF	53	117
CR4MHF	32	71
Warranty	6 years limited	

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041122 • Due to Alcons Audio’s continuous R&D, all specifications are subject to change without prior notice.