



technical specifications Director6

general

- 6kW high-end Hi-Fi amplifier stages
- 8-in / 8-out matrix routing
- 192kHz capable AES3 digital inputs
- Full on-unit control with OLED display
- Presets for all Alcons system configurations
- Universal power supplies with PFC

description

The proprietary developed Director amplified loudspeaker controller is designed as multi-channel drive-engine, enabling Alcons pro-ribbon systems to deliver maximum performance in (semi)permanent installations.

The ALC Director features a powerful 8-channel DSP-based controller with 8 bridgeable, new generation ClassD amplifier stages. With the 8 individually addressable inputs, a free-configurable input / output matrix is formed. Each channel accepts analogue or up to 192kHz. digital AES3 signals, that are up/down-sampled to 96kHz. native processing.

The future-upgradable powerful DSP engine enables minimal latency during processing of even the most complex (IIR, FIR) algorithms. Features include 8-band (shelf/pass/parametric) equalising per channel, delay, phase, factory presets for all



systems and system configurations, user-presets, event-logging and system feedback.

For fully-intuitive control and feedback, the Director features on-unit control over the complete amplifier and processor sections through a 3.12" (256 x 64 pixels) monochrome OLED display, a multi-colour LED-illuminated rotary encoder and eight multi-colour LED-illuminated channel buttons.

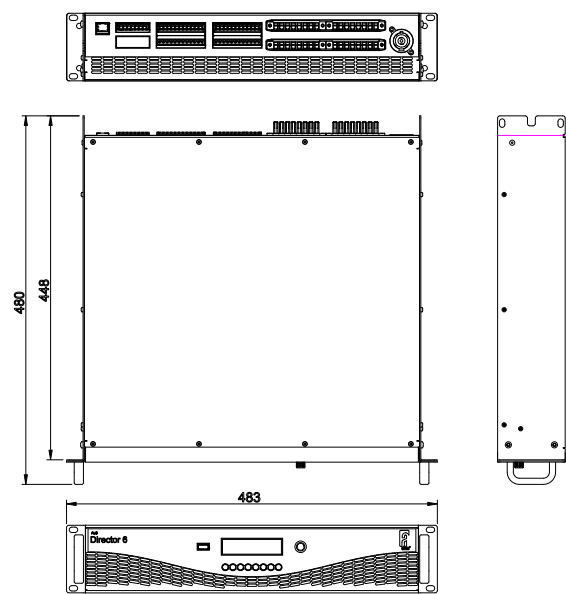
The Class-D amplifier control loop delivers exceptionally low intermodulation figures and significant improvement over cone excursion and transient response. This unique technology is the perfect drive-engine for the high-resolution Alcons pro-ribbon systems. The four digitally controlled, highly efficient main power supplies with active Power Factor Correction, enable maximum output while allowing worldwide input voltage ranges.

The modular design of the complete ALC, caters for “in-the-field” servicing and upgrading; The 2 power/amplifier packs can be exchanged in case of emergency, significantly reducing down-time. The DSP is mounted on a separate PCB, thus can be easily “future-proof” upgraded when required.

The Director is integrated in ALControl™, Alcons Audio's proprietary, Ethernet-based network for controlling individual or clusters of amplified loudspeaker controllers. Through two additional RJ45 connectors (redundant) and optional network modules, the Director is prepared for different audio-over-network standards.

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dimensional drawing



technical specifications

Nr of channels	8 input + 8 output
Input sensitivity	1.41Vrms (+5.22dBu) for full RMS power in 8 ohms
Max. input level	+21dBu
Gain	32dB (40x)
THD+N, IMD	< 0,05% @P/2, 20Hz-20 kHz, 22 kHz BW
Damping factor	4.000 @ 1kHz., 8 ohm
Output power (burst RMS)	8x 500W @ 8 ohms 8x 750W @ 4 ohms 8x 750W @ 2 ohms
Output power bridged (burst RMS)	4x 1000W @ 16 ohms 4x 1500W @ 8 ohms 4x 1500W @ 4 ohms
AES3 supported formats	32kHz, 44.1kHz., 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz.
User interface	3.12" monochrome OLED (256 x 64 pixel) Screen Click & turn" rotary encoder, RGB-LED illuminated 8x RGB-LED illuminated channel buttons
Connectors: rear	8x Phoenix (analog input) + 4x Phoenix AES3 (digital input) 8x Phoenix (speakers out) + 4x Phoenix AES3 (digital link) 1x 32A powerCON® (power) 1x RJ45 etherCON® (remote control) 2x RJ45 etherCON® (networked audio) *optional 1x Phoenix GPIO (3x GPO, 4x GPI)
front	1x USB (service in/out)
Cooling	4x fan, front-to-rear flow, regulated speed
Mains supply voltage	Universal AC input with Power Factor Correction (PFC)
Weight	6,8kg (15.0lb)
Housing	19 inch rack mount, 2 RU, 448mm 17.6 in. deep behind mounting surface (without connectors)
Warranty	3 years

A: Alcons Audio
De Corantijn 10
1689 AP ZWAAG
The Netherlands

E: info@alconsaudio.com
W: www.alconsaudio.com
T: +31 (0)229 28 30 90