

FLA8.dsp

**FOCUSED LINEAR ARRAY SYSTEM
INTEGRATED DIGITAL SYSTEM PROCESSOR AMPLIFIER
FOR ALA07C SERIES BEAM STEERED ARRAYS**



acoustic technologies

The Acoustic Technologies FLA8.dsp is an elegantly designed eight channel audio amplifier featuring an extensive and fully integrated Digital Signal Processing system.

The FLA8's DSP Steering Presets perform the complex processing required to implement a Beam Steered Array System which has been tailored for the Acoustic Technologies ALA07C Series of loudspeaker enclosures.

The FLA8 / ALA07C Beam Steered Array System is specifically designed to meet the complex audio amplification requirements often found in installations such as:

- Houses of Worship
- Courts of Law
- Public Transportation Terminals such as Airports, Bus Terminals, Ship Ways and Railway Stations
- Parliamentary Debating Chambers
- Supermarkets & Shopping Centres
- Conference Centres
- Corporate Board Rooms
- Museums & Art Galleries
- Theatre Foyers

Such systems will generally employ multiple amplifiers within the overall system. With this in mind the FLA8 is convection cooled, eliminating the noise, maintenance and reliability issues associated with in-built cooling fans.

In summary: The FLA8 integrated digital system processor amplifier offers superb audio performance with extensive configuration capabilities in a footprint specifically engineered to meet the complex requirements encountered within large scale installations.

FLA8.dsp EXCELLENCE IN AUDIO



**FLA8.dsp
AMPLIFIER**

FEATURES

- **Beam Steered Array Processor for the ALA07C-H System**
- **Steering Angles 30.0° to 80.0°**
- **320 Watts RMS**
- **Convection Cooled**
- **Superb Audio Performance**

SPECIFICATIONS - AUDIO AMPLIFIERS

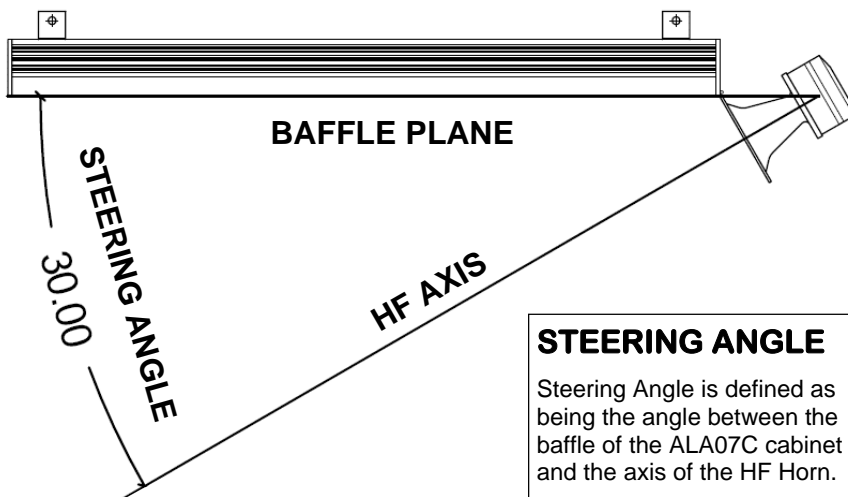
Number of Channels	8 Output Channels
Output Power per Channel (See Note 1)	25 Watts RMS @ 1kHz - 8 Ohms 40 Watts RMS @ 1kHz - 4 Ohms
Frequency Response (See Note 2)	10Hz to 22kHz +0dB , -3dB
Input Sensitivity	0.755 Volts RMS for 25 Watts into 8 Ohm
Input Impedance	8k Ohms Balanced
Load Impedance	4 Ohms to 16 Ohms
Damping Factor	Greater than 100:1 referenced to 8 Ohms @ 1kHz
Signal to Noise Ratio	Greater than 85dB
Audio Input Connector	XLR - 3 Pin Electronically Balanced Input
Audio Output Connectors	Phoenix Style Screw Terminal Plug (Supplied)
Mains Connector & Fuse	IEC Mains Inlet / Fuse Holder. 3 Amp M205 Ceramic Fuse.
User Interface	16 Character x 2 Line LCD with Backlight, Recessed Push Button for Menu Selection,
Power Requirements	240 Volts AC @ 2 Amps
Dimensions	Standard 19" x 3½" (2RU) Rack Mount 345mm Deep excluding connectors
Weight	11.2 Kgs Net 13.2 Kgs Shipping

SPECIFICATIONS - DIGITAL SIGNAL PROCESSING SYSTEM

Steering Angles	30.0°, 37.5°, 45.0°, 52.5°, 60.0°, 70.0°, 80.0° System Test Preset.
Sample Rate	48kHz 256 x Oversampling
Word Size	24 Bit
Internal Processing	48 Bits double precision floating point
Latency	0.833mSec
Dynamic Range	105dB

1. All power measurements conducted according to the IHF202A Standard.
2. Frequency response limits determined by DSP Sample Rate.

Acoustic Technologies reserve the right to alter or amend the FLA8.dsp without prior warning in the interests of product improvement.



APPLICATIONS

- Houses of Worship
- Courts of Law
- Transport Terminals
Airports, Bus Depots
& Railway Stations
- Parliamentary
Debating Chambers
- Museums & Art
Galleries
- Theatre Foyers
- Supermarkets &
Shopping Centres
- Conference Centres
- Corporate Board
Rooms
- Reverberant Acoustic
Environments
- Noise Sensitive
Areas



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