



## Fractal F24

In this documentation you will find information about:

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- **Features**
- Technical specifications

## Description

What does it take to get your (heavy) car at cruising speed? A little Time! Give us a little time and we will give you Instant Sound. Listen to our new speaker processor and experience a virtual mass-less loudspeaker, effortlessly producing a copy of reality. In fact it doesn't sound like it's 'produced' it sounds like it was already there! It sounds like the original!

The new Fractal F24 processor does the job. See the description and specifications to realize it will do anything you want including the trick mentioned above. In the near feature SA will release presets for existing SA loudspeaker cabinets, making your investment future proof!

## **Features**

- · 2-in, 4-out audio processor
- · The processing engine is based on 32-bit floating point DSP's.
- · To ensure an outstanding audio quality, the latest highend AD and DA converters are used.
- · DSP filtering is IIR based.
- The (non-ideal) real world loudspeaker parameters are measured in factory using the latest high-end AD converters. From these real world parameters, the parameters for the speaker compensation filters are calculated using 64-bit precision, resulting in a near perfect loudspeaker response. These parameters are stored in factory presets.
- To protect the speakers from damage, the Fractal F24 relies on one type of limiter: hard limiter for sample accurate limiting of the output level.
- · Further processing capabilities for each channel include longrun delay, speaker alignment delay, multiple biquad filters per channel, gain adjustment, vu-metering, ...

## Technical specifications

2 x mono (AD: 24-bit, 96kHz) Input

Output 4 x mono (AD: 24-bit, 96kHz) Fixed VCA levels 0dBu (input), +4dB (output)

DSP platform dual Analog Devices Sharc 21065

Input processing (per mono input) 10 biquad filters, delay (0..100ms), gain

Output 1 processing sub, 0..50ms, IIR filter, hard limiting Output 2 processing lo-mid, 0..50ms, IIR filter, hard limiting

Output 3 processing hi-mid, 0..50ms, IIR filter, hard limiting

Output 4 processing high, 0..50ms, IIR filter, hard limiting

On-board non-volatile memory for 20 presets

Interface for downloading presets / upgrading firmware USB 2.0 Front panel layout 4 x 20 character display

4 cursor keys, 1 enter key, 1 esc key

2 input mute buttons 4 output mute buttons

universal switched mode power supply 90V - 260V **PSU** 



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