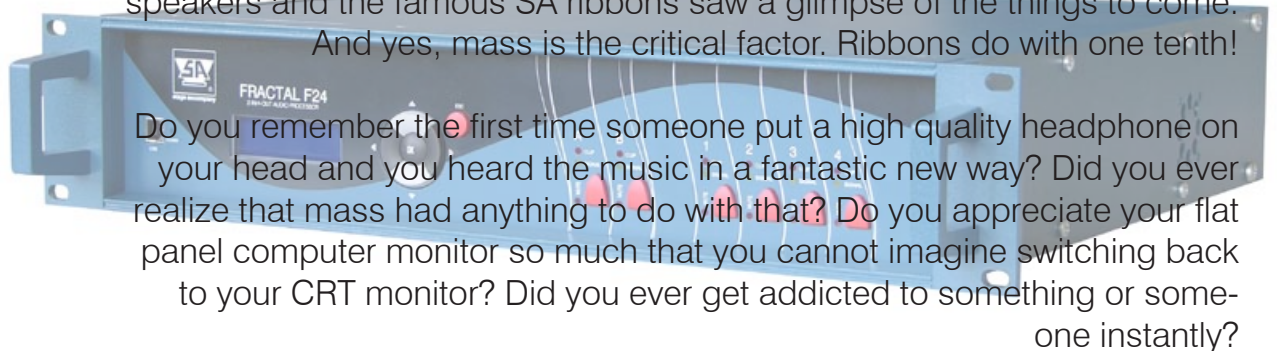




Prepare for a weightless experience!

People who experienced weightless moments are stunned by the sense to move around effortlessly. If a loudspeaker only had this opportunity... These apparatus are constantly trying to move their mass around at painstaking speeds. No wonder they 'break-up' after a while!

Those who experienced the breathtaking difference between traditional loudspeakers and the famous SA ribbons saw a glimpse of the things to come. And yes, mass is the critical factor. Ribbons do with one tenth!



Do you remember the first time someone put a high quality headphone on your head and you heard the music in a fantastic new way? Did you ever realize that mass had anything to do with that? Do you appreciate your flat panel computer monitor so much that you cannot imagine switching back to your CRT monitor? Did you ever get addicted to something or someone instantly?

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 future SA will release presets for existing SA loudspeaker cabinets, making your investment future proof!

Fractal F24

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That's How Music Should Sound!

SA Fractal F24 description

- Fractal F24 is a 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 high-end 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 long-run delay, speaker alignment delay, multiple biquad filters per channel, gain adjustment, vu-metering, ..



Technical specifications Fractal F24

- 2 mono inputs (AD : 24 bit, 96 kHz)
- 4 mono outputs (AD : 24 bit, 96 kHz)
- VCA input levels fixed at: 0 dBu
- VCA output levels fixed at: +4 dBu

DSP:

- DSP platform : dual Analog Devices Sharc 21065
- input processing (per mono input):
 - 10 biquad filters (IIR)
 - delay (0..100ms)
 - gain
- output processing:

	band	delay	crossover + speaker compensation filter	limiter type
output 1	sub	0..50ms	IIR-type	hard
output 2	lo-mid	0..50ms	IIR-type	hard
output 3	hi-mid	0..50ms	IIR-type	hard
output 4	high	0..50ms	IIR-type	hard

- on-board non-volatile memory for 20 presets
- USB 2.0 interface for downloading presets / upgrading firmware

FRONT panel layout :

- 4x20 character display
- 4 cursor keys, 1 enter key, 1 esc key
- 2 input mute buttons
- 4 output mute buttons

PSU:

- Universal switched mode power supply 90V - 260V