

## EVE AUDIO SC203 - Studijski monitor

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### EVE AUDIO SC203 - Studijski monitor

The

SC203 is the perfect solution for professional desktops with a limited amount of physical space, and also for discerning home and gaming users. To further extend its flexibility, each speaker is provided with the FlexiPad, a v-notch shaped orange rubberized pad that allows you to decouple the speaker from its base and angle it precisely at 0°, 7,5° or 15°.

Accessories include our SC203 Mounting Adapter, which enables you to mount your speaker directly on any microphone or speaker stand that features a 3/8" thread.

And why not combine it with our threaded wall mount adapter, and place your speaker directly on a wall, where it may be more convenient for your own space?

The SC203 Mounting Adapter even makes good use of the included FlexiPad: by placing the FlexiPad between the speaker and the mounting adapter you are further decoupling unwanted resonances, and can even better arrange orientation for upright positioning at 0°.

As expected, all necessary mounting screws are included.

### Tech Talk

When using woofers in small desktop speakers, some special considerations have to be taken into account. To meet the demands of a precise reproduction in the low frequency region, we've developed a 3" woofer coupled with a 1" voice coil capable of handling a longer linear excursion. With a 16 mm-height voice coil, a linear, back and forth, swing of  $\pm 5\text{mm}$  is easily achieved. However, this requires an appropriate multilayer paper membrane material that is capable of withstanding such rigorous use while maintaining consistency. After numerous careful tests, coated paper turned out to be the very best solution in order to meet this demand for low resonance, stability and transmission linearity.

From then on, the entire construction design met all the necessary requirements that such small woofers usually entail, including having a chassis basket permeable to air in order to minimize distortions. The large driver magnet works as a powerful "engine" so as to keep the woofer stable, even in border areas.

A passive radiator - which you could simply think of as a passive speaker that moves through the force of air - located at the backside of the SC203, reinforces the reproduction of low frequencies and allows the speaker response to go down as low as an impressive 62Hz (-3dB) with very low distortion.

Each SC203 setup is configured as a 2-way master-slave system, and features four power amplifiers. Each woofer and tweeter gets its own dedicated 30W PWM amplifier with separate filter section for precise control.

And for optimal connectivity, the SC203 houses three inputs - analog RCA, digital optical and USB - which will allow you to conveniently connect a wide range of sources. Furthermore, a volume controlled subwoofer output lets you connect an additional subwoofer (TS107 und TS108) to the master speaker and create a powerful 2.1 system. A DIP switch located at the speaker's back panel allows you to select the SC203's to work as "satellites" from 80Hz and upwards, or as a full range units.

### The $\mu\text{A.M.T.}$ Tweeter

The simple goal of bringing the sound quality, low distortion and high resolution of our now famous A.M.T. tweeter to a much smaller format speaker took us on a many-month journey to find the perfect solution for the SC203. In the end, a new tweeter was born: the new  $\mu\text{A.M.T.}$ .

This high resolution  $\mu\text{A.M.T.}$  delivers an astonishing high frequency resolution combined with extraordinary precision and clarity. The folded membrane of this high resolution  $\mu\text{A.M.T.}$  is only 400mm<sup>2</sup> in surface area, about less than half as our RS1 tweeter (which is used, for example, in the SC204 speaker). An integrated waveguide helps create an optimal dispersion pattern over a wide frequency range. No fighting over your sweet spot with this tweeter!

To complete the system, we've used strong neodymium magnets, coupled with a magnetic holder and membrane holder optimized for very low distortion values at the specified SPL. As usual with EVE Audio, no cutbacks were made to save money at the expense of a high quality tuned system. Non-detachable loudspeaker grilles protect both, woofer and  $\mu$ A.M.T. tweeter against damage.

## DSP

With every EVE Audio speaker, you also get high resolution DSP electronics.

One push knob operation and you will have access to accurate volume control, balance and several different filter settings (High shelf, Low shelf, LED brightness, Input selector and Speaker-Position such as Flat, Desk and Console) to tailor your set up comfortably and with ease to the way you work. An LED indicates clearly the status of each setting you have chosen.

And if you always avoid digital processing, we've got you covered. The DSP engine is supported with a high quality 192kHz/24bit A/D converter from Cirrus Logic, which delivers a pristine signal to the DSP section. And since the PWM amplifiers are directly connected to the DSP, no additional conversion is necessary. When the optical digital input is used, the Cirrus Logic converter is removed from the audio path to avoid any additional conversion.

Please visit our DSP page to learn more about our DSP philosophy.

## Passive Radiator

Passive radiator technology can be simply understood as having a passive woofer unit, along with the main active driver that does most of the work. This way, the internal air pressure generated by the active driver is used to move the passive radiator in order to reproduce lower frequencies than standard speakers with similar dimensions.

Also, the reason you don't usually see this kind of technology in smaller pro-audio systems is mainly because of cost and engineering concerns. Passive radiators are more expensive and not so easy to precisely tune them.

Another advantage of our passive radiator is the complete elimination of all audible noise related to air turbulences, as there are no reflex tubes involved with this design. Unwanted pipe resonances (at multiples of half the fundamental wavelength), which are unavoidable with two-sided pipe openings, are eliminated this way.

We've also built a custom suspension for the passive radiator, which exerts a restoring force underneath its tuning frequency, thereby reducing inaudible excursions of the speaker into the subsonic range. This results in reduced intermodulation distortion in the audible spectrum.

In short, thanks to the passive radiator technology being used (and a few more engineering secrets, of course), the SC203 works and behaves as a fully fledged full- range speaker, with precise bass reproduction and a very small footprint.

## Measurements

Freq. response

Polar pattern

Distortion

Product SC203

Description 2-way master/slave system

Dimensions (WxHxD) [mm] 116 x 190 x 134

Dimensions (WxHxD) ["] 4.56 x 7.48 x 5.27

Free-field frequency range (-3dB) 62Hz - 21kHz

Tweeter  $\mu$ A.M.T.

Mid-Woofer 75mm/3"

Cross-over frequency 4800Hz

Maximum SPL @ 1m 94dB

Number of amplifiers 4

Output power (woofer) 30W

Output power (tweeter) 30W

Protection limiter

Settings

Volume -inf. - +6dB

High-shelf filter (-5dB - +3dB) > 3kHz

Position filter flat, desk, console

Low-shelf filter (-5dB - +3dB) < 300Hz

LED brightness setting

Input select

Input level dip switch +8dBu/+22dBu  
Standby dip switch locks cont. mode  
Satellite filter dip switch 80Hz high-pass filter  
Connectors  
RCA in (impedance) left-right (10k)  
Digital optical in TOSLink  
USB in Type B  
RCA subwoofer out  
Power consumption  
Standby < 1W  
Full output 110VA  
Misc.  
Backmounting thread inserts  
Mic stand thread inserts  
Weight kg/lb. Master: 1.9 / 4.19  
Slave: 1.7 / 3.75  
FlexiPad: 0.19 / 0.86