

## Credo Audio Switzerland - EV 350 Ref

Space should not be a limiting factor when you want to enjoy your music. Compact or bookshelf speakers often come with unacceptable compromises, that is why we created the EV 350Ref. This is our latest model of the EV series introduced 2019. **Michael Kraske developed** this model with all his experience of designing high-performance monitoring-speakers. Knowing about the benefits of an accurate tool for mixing and mastering and the goal to create speaker that let's your music bloom. Balance and richness that a full-range speaker can reproduce, not willing to accept the lack of bass and presence of high percentage of distortion.

So the paper-cone, symmetrical drive mid-woofer is accompanied by a 1" tweeter. The mid-woofers sliced-cone prevents effectively cone breakups, so it is playing from 37 Hz and blending over gently to the tweeter, protected by a high-pass filter. As always with Credo Audio speakers, we achieved linear impedance and a good efficiency, making it an easy load for amplifiers.



- Tweeter: 1" soft-textile-dome, Double Ferrite Magnet;
- Mid-Woofer: 5.5" sliced paper cone, large ferrite magnet symmetrical-drive
- Tuning: Bass reflex (back)
- Crossover: 2-way proprietary filter-design
- Frequency response: 44 Hz - 20 kHz, +/- 3dB
- Roll-off: 44 Hz -2dB, 40 Hz -4dB, 37 Hz -10dB
- Sensitivity: 84 dB @ 2.83V @ 1m
- Linear impedance: nominal 4  $\Omega$ , min. 3.2  $\Omega$  @ 44 Hz; max. 10  $\Omega$  @ 1.2 kHz
- Recommended amplifier: 50 W RMS
- Weight: 8.5 kg p.p. without packing
- Size: (H x D x W): 35 cm x 22 cm x 18 cm
- Hand-crafted by Credo Audio Switzerland
- At 2.5 meters listening distance, you'll need 39 watts per channel for 92dB SPL

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### Smooth impedance - amplifier optimized

Why do we optimize the impedance of our Credo speakers? To provide optimum working conditions for the amplifier. This is achieved by making the load "amplifier friendly". In High-End we often speak about matching the components, the most critical is the relationship between amplifier and loudspeaker. The speaker is a significant load for the power amplifier's output stage. When we look at numbers we often read four or eight Ohms specified impedance, which is meant from 20 Hz - 20 kHz - but that is radically simplified, since no speaker has a stable impedance of exactly 4 $\Omega$ . So we never have a stable load for our amplifier. When looking at the typical design, it is obvious that a stable impedance helps the amplifier to perform, also at higher frequencies.

#### Our design guidelines:

- The impedance of a loudspeaker must be as linear and smooth as possible
- No excessive "impedance correction circuits" in the crossover
- No dips exceeding 20% of specified impedance according to the IEC 60268-5 standard

### **Why even a superb amplifier will sound better with Credo speakers:**

- An uneven impedance causes reactive behavior, making the amplifier stressed and unstable
- Performance will improve with a well-defined, stable impedance compared to a heavily fluctuating one
- It will improve performance for all types of amplifiers

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## Made in Switzerland

We manufacture our products. And for us that does not mean to do the final assembly of purchased parts which were produced in Far East.

The manufacture of loudspeaker terminals and circuit boards for crossovers or CNC milling and engraving, and much more is done here at the manufactory. All boards are also equipped by hand.

Also large parts made of MDF for speakers or aluminum for amplifiers are manufactured on our CNC milling machine.

A small team is responsible for the entire process, from the design, programming, milling to the to final assembly and quality inspection.