

## Credo Audio Switzerland - EV Reference ONE

This is our latest and top of the „EV-series“ model, the Reference ONE. **Michael Kraske developed** this model around the idea of a wide-band, closed cabinet speaker. Knowing about the tonal 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 and 12" long-throw subwoofer. The mid-woofers slices-cone prevents effectively cone breakups, so it is playing from 50 Hz and blending over gently to the tweeter creating **a speaker with full-range characteristic** - but with punchy bass down to 25 Hz and extended treble smooth as silk. As always with Credo Audio speakers, we achieved linear impedance and a high efficiency (of 87.6 dB), making it an easy load for amplifiers.



- Three-way floor standing loudspeaker
- Top cabinet: closed design, mid woofer & tweeter separated
- Sub cabinet: closed design
- Double-vibration decoupled
- Tweeter: 1 x 1" Coated textile, neodymium magnet, symmetrical drive motor
- Midwoofer: 1 x 6.5" Sliced paper cone (coated), large ferrite magnet, symmetrical drive motor
- Subwoofer: 1 x 12" Alu cone, double ferrite magnet
- Crossover: Passive proprietary 3-way filters, coils: Mundorf CFC air-core coils, capacitors: Mundorf MCap Supreme EVO
- Hand-crafted by Credo Audio Switzerland
- Tuning: closed cabinets
- Frequency response: 40 Hz - 20 kHz, +/- 1.5dB
- Bass roll-off: 30 Hz @ -3dB / 25 Hz -6dB / 20 Hz -10dB
- Sensitivity: 87.6 dB @ 2.83V @ 1kHz @ 1m
- Linear impedance: nominal 6 ohms, minimal 4.8 ohms at 5 - 20 kHz, max 9.8 ohms @ 1.2 kHz
- Recommended amplifier power (3m listening distance): 80 - 200 W RMS
- Weight: 55 kg p.p. without packing
- Size (H x D x W): 126 cm x 45 cm x 22 cm

### 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 4Ω. 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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### Swiss made

These high-end speakers are made in small quantities and by hand! Almost everything is made in-house. We use our CNC mills to machine the parts for the cabinet, the boards for the crossover, the 12 mm aluminum feet and more. We also work with specialist suppliers - anodizing and the painting is done in our region.