

Success story with crystalline clarity: ELAC 310 CE



Concept:

The "310" is one of ELAC's most widely acclaimed speakers, which has received awards all over the world. Making use of the latest ELAC technologies, it has been improved even further. "CE" stands for "Crystal Edition": the new crystal membrane technology that has created a worldwide sensation. It therefore seemed the natural next step that, in addition to the JET tweeter drives and other technological goodies, the "310" – ELAC's highly-successful speaker – should be equipped with prize-winning crystal membrane woofer technology.

Technical features:

- The crystal-like surface of the aluminium membrane is eye-catching. Partial vibrations are reduced considerably by the new, angled surface structure.

In addition, by using a press formed structure, the membrane is more rigid and has lower distortion, which not only prevents partial vibrations in the crossover zone, but also reduces harmonic distortion. Due to the high rigidity of the aluminium membrane, it is now possible to attach the voice coil not only to the cone neck but also directly to the aluminium membrane. This significantly extends the cone's bandwidth right across the frequency range giving a noticeably more even, continuous frequency response.



- In the treble range, ELAC uses its JET tweeters, which have justifiably gained an international reputation. Their internal design has been revised, creating an almost perfectly linear frequency response and a reduction in harmonic distortion.
- Another interesting feature is the acoustic tuning element made of open-pored foam. The "JET DC" acoustic tuning spoiler (JET Dispersion Control)

has been especially developed to ensure that instruments and voices can be precisely localised even under difficult acoustic conditions, particularly in hall-like rooms with a lot of glass, parquet flooring etc., for example.

The crossover network:

Sophisticated filter technology for a perfect directivity characteristic, approximated to a pinpoint sound source. Robust internal cabling with 2 x 2.5mm². High quality ELAC bi-wiring terminal with separate circuit boards for bass-midrange and treble circuits. The inclined binding posts are easy to access and allow larger cable diameters (16mm²), as well as high-quality spade connectors (e. g. WBT products).

Other technical features:

The solid cabinet – made of a massive 6.5 mm (!!) thick aluminium extrusion with central partition reinforcement – creates especially low resonance.

The ELAC 310 CE has been designed to be set up in standalone configuration in rooms with areas of 10 – 35 m². Matching "LS-70" speaker stands are available as accessories for this purpose. They can also be installed on the shelf or on sideboards, or be mounted on walls, ceilings and inclined surfaces with "Cinema" wall holders.

Finishes: titan shadow, silver shadow, white high-gloss, black high-gloss



Specifications	ELAC 310 CE	Crossover Frequency	3200 Hz
Dimensions HxWxD	208 x 123 x 270/282 mm	Rated load	70 W
Weight	6.5 kg	Pulse load	90 W
Design type	2-way, bass reflex	Frequency range	42...50,000 Hz
Woofers	115 mm Ø AS-XR cone	Sensitivity	86 dB/2.83V/m
Tweeters	JET III tweeters	Nominal impedance	4 Ω
Rec. amplifier power at	50-150 W/channel	Minimum impedance	3.4/280 Ω/Hz