

**A LOUDSPEAKER WITH
ALL CHARACTERISTIC
BØRRESEN FEATURES AND
A REVOLUTION IN QUALITY,
PERFORMANCE AND PRICE**

This new Børresen X3 loudspeaker marks the creation of a completely new entry level into the Børresen loudspeaker universe.

Børresen Acoustics' philosophy is to bring music closer to people by creating access to great, authentic and emotional music experiences. Børresen believes that everyone deserves these kinds of wonderful moments. This is exactly why Børresen Acoustics has developed a new entry-level speaker at an affordable price, making the Børresen speaker universe accessible to even more people. The Børresen X3 has been designed on the solid foundation of Børresen Acoustics' development traditions, design philosophy and technological know-how.

The biggest challenge for the Børresen engineering team was to create an entry-level Børresen loudspeaker that was more affordable, yet still had the typical Børresen DNA and quality standard. To do this, they had to figure out which technologies and components from existing speaker models would have the greatest impact on sound performance and also guarantee the well-known Børresen qualities. The next task was then to find out how to make such a loudspeaker more cost-effective.

The result of this development and design process is a high-quality loudspeaker with all the outstanding acoustic properties of the Børresen M, O and Z series. The Børresen X3 loudspeaker is not only a new entry-level speaker into the Børresen universe, but also represents a real revolution in quality and performance in its price range.

THE NEW BØRRESEN X3 LOUDSPEAKER



BØRRESEN PRESS
RELEASE

X-SERIES MEMBRANE

To ensure the typical Børresen characteristics in the X3 loudspeaker, Michael Børresen and his team of designers and engineers were able to draw on the development process and technology of the newly created Børresen M1 membrane - Børresen's most ambitious loudspeaker project to date.

This membrane is designed to achieve maximum stiffness with minimum noise. The technological requirements for this unrivaled high-end membrane performance made it necessary to design, develop and assemble all components in-house. Michael Børresen and his team designed many different variations and models until they finally achieved their uncompromising goal of ultimate membrane performance for unprecedented sound quality. The result is the X3 membrane that consists of three skins laminated into a single unit: two layers of spread carbon fiber, with a layer of aramid honeycomb spacers in between.

The combination of these materials gives this membrane its unique properties. The spread-tow carbon fiber was designed to provide a skin with optimal stiffness. This unique feature of the membrane reduces sound-disturbing vibrations and resonances to unprecedented levels. The aramid honeycomb also has the best stiffness-to-weight ratio in the vertical direction.

A flat response membrane in terms of resonances paved the way to build a very transparent loudspeaker with a reduced size of the magnetic motor system to optimize costs.





THE MAGNETIC MOTOR SYSTEM

In the X3 magnet motor system, Børresen uses double copper caps on the pole rings to achieve high flux and low inductance. The use of copper caps has been adopted from the Børresen Z-series. Copper produces a response to flux changes - the better the counter-effect of these copper rings, the flatter the inductance curve, and the lower the electro-magnetic resonance.

In addition, lower inductance also means fewer spikes in the impedance curve. Both result in a lower load on the amplifier. To ensure high efficiency, the X3 has two pole rings. This causes the loss of some flux, which reduces efficiency, but this is compensated for by a larger magnet.

THE TWEETER

The tweeter chosen for the Børresen X3 has the same design used in all other Børresen loudspeaker series. However, there is a reduction in magnet and iron mass. This is possible due to the extremely high efficiency of the original tweeter design. As a result, the efficiency has dropped only slightly from the exceptional 94 dB to 88 dB, but this is still an amazing efficiency for a tweeter.

The tweeter operates from about 2.5 kHz upwards. The moving mass is extremely low at 0.01 grams. The fully concealed tweeter can operate at an impressive speed. The high robustness of this tweeter allows it to handle very high transients without causing any deafening dips.





CROSSOVER

The Børresen X3 is equipped with a parallel crossover built with the same high-quality components from the Z Series. This makes for a very mechanically stable crossover that minimizes its self-resonance.

THE CABINET

The surface of the cabinet is finished in black or white piano lacquer and reinforced with optical carbon fiber inserts. The cabinet is made of a heavily braced wood composite material that has the property of eliminating sound distortion. The material used for the cabinet also reduces mechanical influences, especially hysteresis. The sonic result is clearly audible. The Børresen X3 cabinet has six bass reflex ports. The tweeter is vented to compensate for the air pressure that builds up. The bass section consists of tuned ports calibrated for musically relevant frequencies.



X3

Please visit the Børresen website to **find a dealer near you**, contact your dealer, or contact Børresen Acoustics at sales@audiogroupdenmark.com. We would be delighted to arrange a personal auditioning for you.

PRICE: USD MSRP: \$11.000 / EURO MSRP: €10.000



borresen-acoustics.com

