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THX
ULTRA 2

DOLBY ATMOS

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INNOVATION
MAGNAT CINEMA ULTRA

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HIGHLIGHT
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VERY GOOD
MAGNAT CINEMA ULTRA

"With its Cinema Ultra set, Magnat translates its comprehensive technical expertise into a fascinating sound quality both for movie soundtracks and, what is somewhat unusual for THX sets, for music as well."

Magnat

CINEMA ULTRA 5.1

- + Very homogeneous, natural sound
- + Extremely high maximum level
- + Very precise, powerful bass response



Magnat

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Ultra compact

The fact that Magnat has christened its new home cinema set the "Cinema Ultra" is no accident. Despite its compact dimensions, the € 4,400 speaker combo fulfills the stringent THX Ultra2 standard.

Magnat, the traditional speaker manufacturer from Germany, has adequately proven that it knows how to build sound transducers with optimum sound quality. This is not least demonstrated by the market success the company, which is based in Pulheim near Cologne, has enjoyed for decades with its products, particularly in the stereo sector. It is also the company's ambition to show die-hard home cinema fans what its development department is really capable of. In addition to achieving THX certification, the development department has been tasked with tailoring speakers to fulfill the requirements of cinema sound reproduction. Magnat has opted for the biggest challenge THX has to offer, namely the Ultra2 category. Speakers with an Ultra2 certificate must be able to fill rooms that have a volume of up to 85 cubic meters (at a ceiling height of 2.5 meters, such a room will measure approximately 34 square meters) with the THX standard level of 85 decibels without any distortion, and still exhibit a further 20 decibels of headroom. In addition, the speakers also need to exhibit a defined angular radiation pattern across the entire frequency range, which often proves the nut that is the most difficult to crack during the development phase.

Technology

Magnat's engineers took on this challenge for the new Cinema Ultra set, which they managed to solve in a unique, yet, on closer inspection, surprisingly simple manner: They developed a brand new dome tweeter with a 45 mm diameter cone that generates a more clearly defined sound pattern in the critical midrange than conventional 25 mm domes. To ensure this angle is homogeneous up to the highest frequency range, a diffuser has been positioned in front of the dome. To the amazement of the THX testers, the LCR 100-THX, which functions as a front and center speaker, was able to comply with the guidelines in both a horizontal and vertical setup, which, according to Magnat, no other manufacturer has successfully managed to date. This is worthy of an "Innovation" award in our opinion. Two 17 cm diameter chassis, which are arranged above and below the tweeter in a classic configuration, serve as bass-midrange drivers in the LCR-100 THX. Their cones are manufactured from aluminum with a particularly deep anodized coating, which makes them extremely rigid. They do not exhibit any partial oscillations whatsoever until well beyond their operating range, which extends to 1,500 Hz. The RD 200-THX surround speakers feature two 45 degree angled sides, each of which accommodates a 45 mm dome in a dipole configuration. These are operated out of phase. A chassis, which is identical in construction to the front speakers and is mounted at the front of the housing, caters for the bass and mid-range tones. The compact SUB 300 THX fulfills the role of an Ultra2 subwoofer.

Of its three chassis, each of which measures 32 cm in diameter, only the front-facing chassis is actively powered; the other two operate as passive cones. These, like a bass reflex tube, convert the energy that the active woofer radiates into the housing into audible sound.

Surround sound quality

While THX Ultra sets have been susceptible to discoloration in the stereo mode in the past, Magnat's set is capable of generating a compelling performance with unadulterated, natural vocals. This is demonstrated, for example, by Therese Juel's "Tiden Bara Gar". Also noteworthy is the three-dimensional, airy degree of spatiality, with which the set reproduces stereophonic sounds. The subwoofer integrates seamlessly into the overall sound pattern to provide the icing on the cake.

CONCLUSION

With its Cinema Ultra set, Magnat translates its comprehensive technical expertise into a fascinating sound quality both for movie soundtracks and, what is somewhat unusual for THX sets, for music as well. Thanks to such a universal appeal the set enters our reference class.

- + Very homogeneous, natural sound
- + Extremely high maximum level
- + Very precise, powerful bass response