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THX
ULTRA 2

DOLBY ATMOS



"OUR NEW REFERENCE AMONG THX-COMPLIANT LOUDSPEAKER SYSTEMS."

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CINEMA ULTRA 5.1.4

- + THX ULTRA 2 LICENCE
- + OPTIONAL DOLBY ATMOS SPEAKERS
- + EXTREMELY POWERFUL SUBWOOFER



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03/04-2016

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For true connoisseurs of high-end home cinema enjoyment, the dynamics of a loudspeaker set cannot be high enough - with these movie enthusiasts also wanting to enjoy precisely "the" sound as it is in the cinema. The recommendation for such demands is in most cases: Loudspeakers with a THX licence!

Only a few loudspeaker manufacturers venture to design and build THX-compliant speakers - which means that the new Cinema Ultra Set from Magnat is one of the few surround sound sets available on the market with the particularly stringent THX Ultra 2 licence. To remind ourselves: THX was conceived by none other than George Lucas as a uniform standard for a constant image and sound quality in cinemas and home cinemas. The basic idea was for cinema-goers and home cinema owners to be able to enjoy a film with the best possible performance - just as the director, sound technician and cameraman had originally envisaged it. For this reason, a THX licence comprises - for loudspeakers for example - clearly defined specifications for undistorted minimum volumes, frequency response, dynamic range, lower cut-off frequency of the subwoofer as well as dispersion characteristics suitable for the cinema. The "THX Master Class", in particular, i.e. the THX Ultra 2 suitable for rooms with an area exceeding 40 square metres, places extremely high demands on loudspeakers.

Magnat Cinema Ultra

Mit dem neuen Cinema Ultra erfüllte der With the new Cinema Ultra, the brand manufacturers from Pulheim have met the Ultra 2 requirements, producing a loudspeaker set with the "highest blessing" of the THX testing consortium and making it the first choice for use in dedicated home cinemas of the highest quality. For optimum, homogeneous sound, Magnat relies on three identical loudspeakers for the front and centre channels. The LCR 100-THX units are used for this, really compact, closed systems fitted with two 140 mm subwoofers and a huge 38 mm dome tweeter. In this way, the Magnat developers have been able to achieve tremendous load capacity, high efficiency and THX-compliant dispersion characteristics. The LCR 100-THX speakers can either be placed on stands in the room or fitted flat against the wall next to the screen or large screen TV via the integrated wall brackets. If the situation in the room prevents the preferred upright positioning, the LCR 100-THX's can even be set up horizontally.

This is an absolute novelty for THX loudspeakers and has practically no audible drawbacks, as can be seen from our measurements. This unique property is a particularly practical feature when positioning the centre speaker below the screen. For the diffuse surround sound as defined by THX, Magnat relies on classic dipoles for the rear speakers, which ensure non-locatable, enveloping surround sound thanks to double 8 dispersion characteristics (where set up correctly at a height of around 1.8 metres on the axis of the listening location).

Subwoofer



The pivotal point of a rousing surround sound system is a powerful subwoofer, which is subjected to high demands by THX Ultra 2, in particular, in terms of maximum level and depth. Magnat's SUB 300 THX achieves these specifications with a surprisingly compact enclosure, in which a 250 mm subwoofer is driven by a 550 watt Class D power amplifier. Further deep bass support is provided by two equally large 250 mm passive membranes, which act like a bass reflex tuner but produce considerably less interfering noise at high levels. Magnat is particularly proud of the fact that this woofer with a lower cutoff frequency of 18 Hz(!) is the smallest woofer so far to be awarded a THX Ultra 2 licence - congratulations!

Dolby Atmos

Was wäre ein modernes, anspruchsvolles What would a modern, sophisticated home cinema set be without the option of expanding to Dolby Atmos? It goes without saying that Magnat offers add-ons for the sound channel "from above" that are suited to the Cinema Ultra. These add-on loudspeakers with the name AEH 400-ATM can be fitted below the room ceiling (ideal solution) via the integrated mounting plates or be positioned in a custom-fit manner on the front units as reflective systems. In this case, the slightly angled loudspeakers fitted with a 2-way coaxial driver radiate under the ceiling of the room at a defined angle, creating a real sound source from above, as it were. A small switch is provided on the AEH 400-ATM for the different frequency responses and dispersion characteristics needed according to the type of use.

As the AEH 400-ATM's are available individually like all the other components of the Cinema Ultra range, a variety of home cinema system setups can be achieved or retrofitted. For the other standard setups such as 5.1, 5.1.2, 7.2 or 7.2.4, Magnat offers reasonable package prices of between €4,400 and €8,400 depending on the scale of the setup.

Laboratory and practice

Our laboratory measurement of the Cinema Ultra Set yielded excellent results: The dispersion characteristics and linearity of all the components were exemplary, with distortions at an extremely low level. The SUB 300 THX subwoofer is particularly impressive with a full level above 18 Hertz and a virtually limitless dynamic range. In our test, we opted for a 5.1.4 setup with reflective Dolby Atmos add-on speakers operated in our roughly 40 square metre, acoustically well-damped test cinema on a powerful, Dolby Atmos-compatible Pioneer SC-LX59 AV receiver. Used as the playback device was our new Blu-ray-Referenz BDP-105 from Oppo. The setup was easy, with the discreet, unobtrusive appearance and the non-reflecting matt black surfaces helpful for use in "real" home theatres - after all, we don't want the technology to visually distract from the good audio and video quality of the screen. After setting up the level, things got going with "Mad Max: Fury Road". And did it take off - powerful, punchy, crystal clear and well-balanced in tone, the Cinema Ultra Set immediately made its top-class qualities clear. The sound from the front "stage" came across as a consistent unified whole thanks to the identical configuration of all the front channels, with the diffuse soundscape merging seamlessly and unobtrusively behind the listening location. The reproduction of the Dolby Atmos channels via ceiling reflection also functioned flawlessly in our cinema. Our special praise goes to the subwoofer, which generated perceptible pressure in the stomach region at the corresponding points of the movie with an extremely dry, clean and hugely enthralling performance: without any droning or humming - virtually without any limits.

Conclusion

Magnat has landed a very big hit with the new Cinema Ultra Set. This surround sound set plays at the very highest level and lends wings to any movie. With huge dynamics and crystal-clear, undistorted reproduction, the Cinema Ultra Set is extremely enjoyable, can be operated in various constellations and can be supplemented for Dolby Atmos. It has also been awarded the seal of approval from the movie sound authority, THX, in the form of a THX Ultra 2 licence, so there's nothing to stand in the way of perfect home cinema sound. Magnat Cinema Ultra - our new reference among THX-compliant loudspeaker systems.