



Highlight
Magnet Quantum 653



Magnet Quantum 653
Preis / Leistung
überragend

Magnet

Quantum 653



Magnet Quantum 653
sehr gut

“Exemplary well developed and balanced”
“Unbridled acoustic power”
“Acoustically much larger than its dimensions ”
“Sound quality produced is absolutely outstanding”
“AV-Magazin is presenting it with a well-deserved "highlight award”



"Magnat has supplemented its speaker portfolio with three additional model series. Equipped with state of the art transducer technology the speakers are set to be compelling through a fair price/performance ratio and a unique sound quality. AV-Magazin got hold of the smallest member of the 650 series, namely the Quantum 653, and put it to the test.

Magnat, the Rhenish electronics manufacturer, is part of the Audio-vox group, which also owns brands such as Bernstein Audio, Heco and Mac Audio.

Besides its well-known range of speakers Magnat's extensive product portfolio also includes high-quality amplifier electronics with tube technology and numerous car audio products.

Despite its compact dimensions and favourable price, the 653 speaker used in this test can be regarded as a promising technological showpiece within the new Quantum 650 series. The reason for this can be read in the following test.

The Quantum 650 series, which was first presented at IFA 2010 in Berlin, includes five speaker models. As tall floorstanding speakers the Quantum 657 and 655 models are the spearhead of the series. Thanks to a double and triple bass-midrange configuration they offer sufficient power reserves to fill even larger living areas with powerful bass levels.

Besides the compact Quantum 653 tested here, two additional speakers are also available for a home cinema setup. The Quantum Center 63 is coordinated for reproducing dialogue and vocals. Thanks to its symmetrical double cone configuration it provides a sufficient surface area for superior performance at increased volumes during demanding home cinema use.

The Quantum 625 A active subwoofer weighs in at a whopping 20 kilograms. Jointly responsible for this are the 250 mm bass chassis complete with double magnet and the amplifier module which delivers a maximum power of 350 watts. As an added bonus the bass-reflex woofer even features an active frequency response equalizer for acoustic room calibration.

Design and workmanship

The speakers in the 650 series are designed according to a three-colour concept; i.e. the cone's chassis basket and the front panel are a metallic silver-grey, the baffle is a high gloss black and the colour of the rear body depends on the customer's selection. The cabinets are available in four different colours, which enable the 650 series to blend in harmoniously with various decors. The selection available includes dark brown mocha, light brown Calvados, reddish brown cherry and classic black. The Calvados finish comes with a silver metal front grille, while all other finishes are provided with a black grille.

The cabinet is extremely sturdy. The speaker, which weighs in at around seven kilograms, exhibits a particularly low susceptibility to resonance thanks to the use of solid MDF panels. The workmanship of the film veneers, the tolerances of the cabinet edges and the chassis cutouts are also very good.

Technology

The tweeter and bass-midrange are perfectly coordinated both acoustically and visually.

A passive two-way system is accommodated inside the 35 cm tall Quantum 653 speaker. The treble range is reproduced by a fabric tweeter with a 30 mm cone dome. The front panel curves into the fabric dome in a funnel shape and the sound transmission generated as a result of this is supposed to improve the speaker's omnidirectional characteristics.

The bass-midrange operates up to approximately 3,000 hertz via a 17 cm cone. Magnat has used a blend of ceramic and aluminium to ensure the cone surface has optimum damping properties and is as sturdy as possible. The chassis basket is manufactured from a torsionally rigid carbon fibre composite that houses the soft rubber surround.

To improve the bass response the developers designed a ventilated reflex volume. Its rounded outlet is located at the rear of the speaker above the cable terminal area. The latter is equipped with four solid, gold-plated screw terminals which are capable of accommodating cable lugs, banana plugs or stranded wires. The Quantum 653 can alternatively be operated in a bi-wiring or bi-amping configuration by removing the jumpers between the bass-midrange and treble.

Sound

We used selected audio CDs in our listening test to ascertain the capabilities of Magnat's new speaker. The sound pattern generated during highly demanding classical music compositions surprised us with a perfect blend of neutrality and agility. The acoustics seemed to be rather unspectacular at first with little in terms of effects. A closer listen, however, revealed a captivating sound with optimum depths and flawless transparency. This effect is particularly striking during vocal segments, whose formant ranges are reproduced via the high-tech midrange driver. The elaborate development work that has been conducted really bears fruit here. The Magnat 653 is able to cope perfectly with tonally sophisticated music. Double bass strings and dynamic kettledrums are reproduced via the 17 cm cone chassis in a lively and direct manner. The well-coordinated bass reflex system sounds more accurate than deep, more level-headed than pleasing. And it's precisely this that makes the smallest member of the Quantum family so endearing. While extremely low frequencies may be lacking due to its design, the Quantum 653 compensates for this with higher octaves and excellent playback quality. Anyone looking for a simple and neutral sounding speaker which reproduces even the smallest of musical details really can't go wrong with the Quantum 653.

Plain text

The Magnat Quantum 653 has been developed and coordinated in a scrupulous manner. The favourably priced compact speaker is acoustically much larger than its dimensions may allude to at first glance. Its true size unfolds during the listening test, where it goes about its work with unbridled acoustic power. Considering its low price the sound quality produced is absolutely outstanding. This is why AV-Magazin is presenting it with a well-deserved "highlight award".