

Magnat[®]

THE SCIENCE OF SOUND



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THE SCIENCE OF SOUND.

Magnat – for decades now, this name has stood for uncompromisingly genuine and pure sound. Authentic sound reproduction is our highest priority. Physical standards set clear parameters in this regard - understanding these and facilitating the maximum acoustic performance within this framework is what occupies our engineers every day. Technological know-how combined with our many years of experiences forms the basis of our success. Using tried-and-tested scientific methods, we develop our products in one of the most modern laboratories in Europe, repeatedly pushing the boundaries of acoustic development and challenging the current status quo. Innovation, high-tech, exclusive materials and individual know-how: The Science of Sound!

We are constantly in pursuit of the goal of providing our customers with the highest quality, state-of-the-art products with clear, meaningful advantages. With an unbeatable price/performance ratio. Our pronounced passion for hi-fi and perfectionism is reflected throughout the Magnat product range. Audiophile products, with clearly understandable scientific methods developed in Germany, for the highest audible and measurable quality.

Best design brand

Our endeavours were rewarded on the evening of 23 June 2016 with the Plus X Award in Bonn. On the occasion of the world's biggest innovation award for technology, sport and lifestyle, Magnat was able to clearly assert itself over the competition and was awarded the "Best Design Brand 2016/2017" prize in the "Consumer Electronics" product group by an international jury.



Magnat – a success story

Development of the company was initially strongly influenced by the company's founder Rainer Haas. He founded Magnat in 1973 and in the following year established the exceedingly innovative "Log" speaker series. With a "dream start", Magnat saw considerable success within the industry and at the same time made an impression on the international level in terms of innovation.

Products with cult status

Other key stages of development of the 70s were the development of the stable aluminum die cast chassis, market introduction of the All Ribbon series and the development year of the massless plasma tweeter. The All Ribbon 10 becomes the best-selling speaker in its class when introduced in 1978.

The success continues

In 1992, Rainer Haas gave control of the company to American hands. Product development, strategic product management, as well as all other marketing and product-related decisions have been and are today made at the company headquarters in Germany. Due to the strong financial backing of an American group, Magnat had access from this point on to bigger budgets for test laboratories and measuring equipment. From the start, this significant improvement in product development was reflected in subsequent outstanding product series such as the Vintage series from 1995. After many years of development work, Magnat crowns its own development work in 2001 with the most elaborate speaker in the company's history - the Vintage 990.



Over 40 years of Magnat - the legend lives on

As one of the leading international providers of high-quality home and car audio products, Magnat currently delivers an extensive range to more than 50 countries around the globe. Our home electronics range extends from our ultra-compact home cinema system to a well-coordinated portfolio of sound decks currently in great demand, as well as state-of-the-art floor-standing loudspeakers and high-end stereo electronics. 2016 marks Magnat's entry into the Wireless Multiroom world: With the CS range and the brand new Magnasphere loudspeakers, we offer maximum flexibility with audiophile hi-fi performance. The list of awards, test victories and industrial property rights goes back a long way in the company's history and continues up to the present day in an impressive manner. A new product category of small, elegant shelf speakers was created with Magnat's Quantum Edelstein – which has been the recipient of countless test awards. This once again demonstrates that ideas sometimes result in product

legends that go on to enjoy a cult status spanning decades – particularly in the high end sector. The premium Quantum Signature sound transducer and the RV 3 hybrid amplifier really caused a sensation in our anniversary year, which has continued unhindered to date. Our Magnat THX Cinema Ultra has also caused a sensation. The multiple award-winning THX Ultra 2-certified stealth design loudspeaker system meets the highest standards and delivers extremely dynamic, outstandingly authentic surround sound. Easily expandable, it is equipped for all current audio formats, including Dolby Atmos, DTS:X and Auro3D

Our ongoing endeavours to ensure the highest quality and audio performance in all our product areas has been rewarded once again in 2016. Magnat has been awarded the title of "Best Design Brand 2016/2017" in the "Consumer Electronics" product group, thus receiving the recognition and confirmation of the

international Plus X Award Jury for the world's greatest innovation award for Technology, Sport and Lifestyle. The constant expansion of Magnat's skills and competence and the resulting innovations in all product segments and categories provide for momentum throughout the entire sector and are confirmation of the performance and achievements attained by this long-established company.



The sound makes the difference



The emergence of the high-end Quantum Signature speaker is a good example of how true innovation finds its way into the market at Magnat. A new product is created first in the heads of the product developers and engineers. Specification of geometries and materials then follows. Magnat produces its own components only if components on the open market do not meet our high standards. Therefore, the company develops its own components such as woofers, tweeters and many other components itself, which are then used exclusively in products of the Magnat brand. In this way, Magnat gets closer and closer to the ideal of perfect sound with high demands, new ideas and no compromise.

Sound laboratory work supports the creative ideas

At the beginning of each project, the first forms of the product and thoughts about the combination of parts and materials occur.

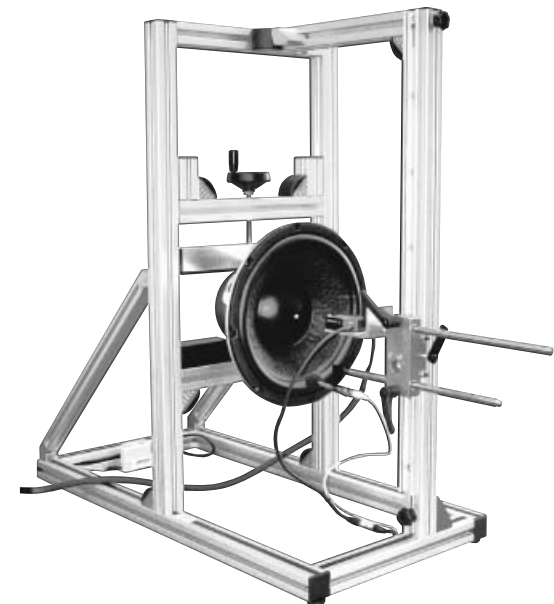
The competence of our development engineers defines many important parameters even before the initial simulations. The idea begins to take shape more and more. A rough sketch emerges and the laboratory work approaches the first design. Magnat utilizes complex measuring technology and simulation software during design and development. The laser-assisted Klippel system enables measurements to be conducted in a real-world dynamic range for the first time. The parameters of a speaker are not only determined with low-level signals, but also with variable pulses to simulate real music and vocal tones. In addition to the significantly more accurate reproduction, metrologically verifiable statements about the behavior of a loudspeaker are possible for the first time in a real-world large signal range.

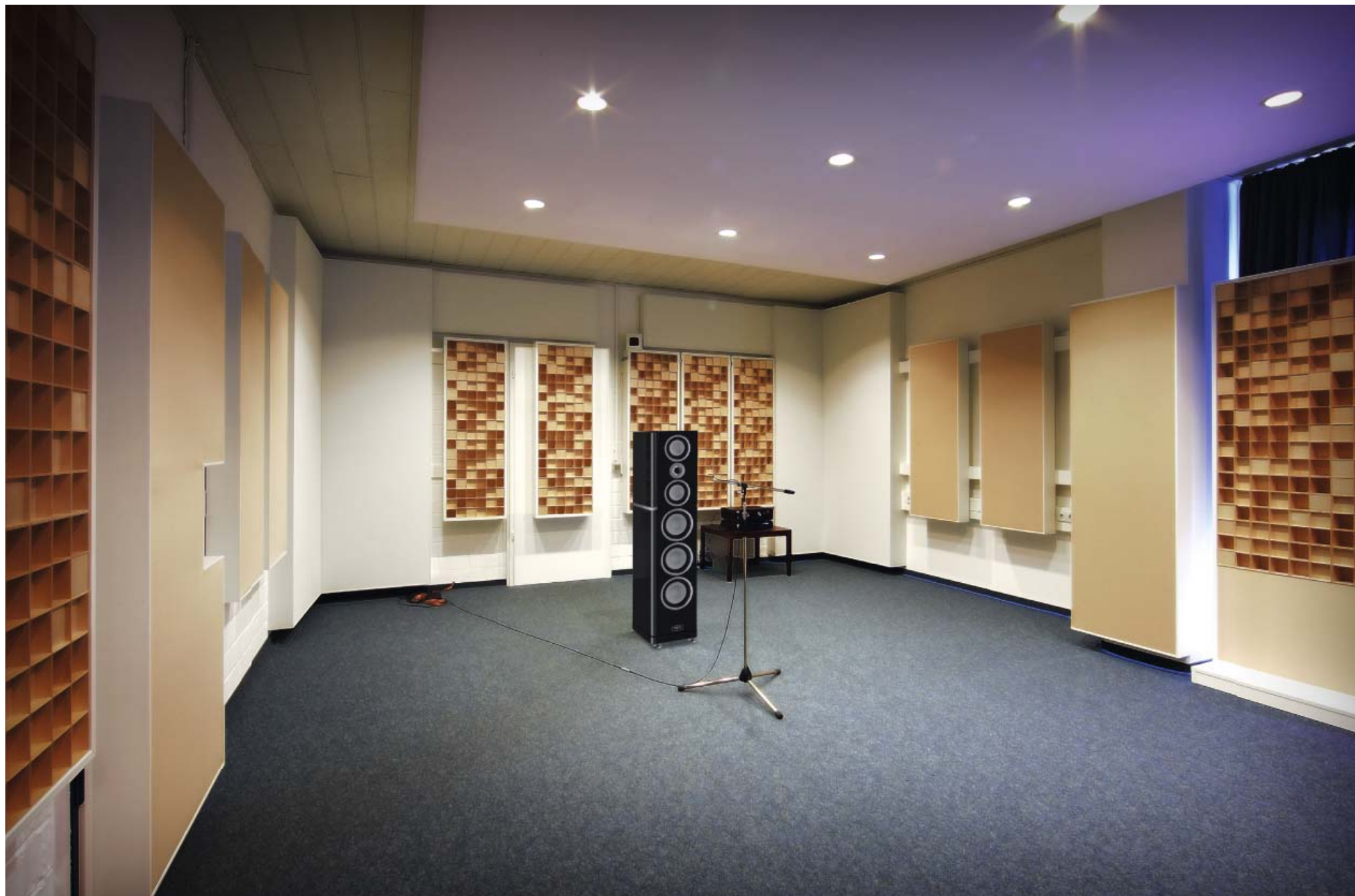
Listen, listen and listen again

The most important test of all is listening. After the design phase and prior to production release, a listening test is conducted on the prototypes. The listening test is carried out in rooms of various sizes and acoustics with electronics from entry-level devices to the reference class. The reference listening room is mandatory for all Magnat components whether electronics or speakers. The room is acoustically optimized in cooperation with the prestigious acoustic professionals of "W-Vier" and underscores the strict standards that apply to all Magnat products. The demand for the highest levels of quality is present in each component. The decision is ultimately made here whether a product is awarded the Magnat rating, is modified or discarded.

No chance of error

Those who purchase a Magnat product measure the quality of the entire company. Therefore, errors in production have no chance. Each component goes through a rigorous inspection process and even upstream suppliers are constantly checked to ensure Magnat quality standards are met at every level. After release for production, the quality concepts live on in series production and quality control. Both our development laboratory and headquarters Pulheim, Germany near Cologne, as well as our production sites are certified according to the ISO quality standard. The numerous international awards and successful testing are yet another confirmation of our capabilities.







RV 3

BALANCE

RV 3

High-end hybrid integrated amplifier with audiophile tube preamplifier

Magnat's developers have used the experience gained from its legendary RV 2 tube amplifier to effectively combine the advantages offered by tube technology with those offered by modern transistor technology. The result is an integrated amplifier which boasts a particularly audiophile tube preamplifier and a transistor output stage that is extremely willing to perform

THE HEART OF THE AUDIOPHILE UNIT BEATS IN THE RV 3'S TUBE PREAMPLIFIER

Magnat's RV 3 is a hybrid integrated amplifier with a channel-separated tube preamplifier and power amplifiers that utilize discrete transistor technology. The heart and control center of the RV 3 lies in the audiophile tube preamplifier, which amplifies the incoming signals directly after the input stage. One

‘ECC 82’ tube is used for each amplifier channel.

These Russian-made tubes have been burned-in for 60 hours prior to installation and then selected in pairs. The double triode is designed according to the SRPP principle and operates in a particularly linear and distortion-free manner. Fans of vinyl will be delighted by the elaborate phono section with its separate inputs for moving magnet (MM) and moving coil (MC) pickups.





PERFECT SOUND QUALITY AT ALL VOLUMES AND EXCELLENT COMPATIBILITY WITH MODERN SPEAKERS

The driving force behind the RV 3 is a discrete power amplifier with high quality power transistors from Toshiba. These guarantee 400 watts of continuous sine power and a short-term provision of more than 700 watts of total power. Thanks to a high internal damping factor the amplifier is perfectly suitable for driving speakers with critical connected loads. As it's the quality of the power supply unit and not high wattage values that are crucial for the sound quality and dynamics of an amplifier, the developers have placed special emphasis on this area. This has resulted in a vibration-resistant, encapsulated toroidal transformer being utilized in this part of the amplifier.

Elaborate, separately stabilized supply voltages and generously dimensioned buffer capacitors ensure dynamic, low-noise properties and excellent channel separation for the individual amplifier sections.

STATE OF THE ART MECHANICAL COMPONENTS AND EQUIPMENT

The two solid, customised heat sinks, the solid metal caps for the impressive transformer and the buffer capacitor battery generate a unique and distinctive design, without detracting from the flawless functionality of the device. A solid aluminum knob for volume control is positioned centrally in the 8 mm thick aluminum front panel, which actuates a high-precision ALPS motorized potentiometer. The selected input source is indicated on the front panel via a clear OLED display.

The unit itself can also be optionally operated via the solid metal remote control. The speaker terminals are generously dimensioned, gold-plated to ensure clean signal transmission and encapsulated in acrylic for safety. These terminals are extremely sturdy and enable cables, including those with large cross-sections, to be connected securely. Two pairs of connectors are available for each channel, thereby ensuring that bi-wiring operation is also possible.



Low-noise preamplifier tube



Preselected and burned-in Russian tubes



Discreetly configured power amplifier



Phono preamplifier with separate MM and MC inputs



Solid aluminium front panel



Solid aluminium control elements



Full-metal remote control



High-contrast "organic LED display"

RV 3

High-end hybrid integrated amplifier with audiophile tube preamplifier



RV 3

High-end hybrid integrated amplifier with audiophile tube preamplifier and 400 watt transistor output stage

Output power/Nominal

20 Hz - 20 kHz, THD < 1.0%
4 Ohm, 2 x 200 W
8 Ohm, 2 x 150 W

Peak

1 kHz, 4Ω: 2 x 350 W

Dimensions (WxHxD)

434 x 155 x 360 mm
(410 mm incl. control elements)

Color

Black



Audio Test
08/2014
Very good



Audioreview
11-12/2013
"Unique, it cannot be denied!"



What Hi-Fi
09/2013



av-magazin.de
08/2013
„HIGHLIGHT“



HiFi Test
6/2013
Sound tip



i-fidelity.net
06/2013
Very good



LP 06/2013
"Powerhouse"



FAZ Magazin 05/2014
„Like a powerful V12 engine, the RV3 is eager to get the loudspeaker's membranes moving.“



hifi&records
04/2013
„AN EYE-CATCHER“



Plus X Award
2013



Plus X Award
2013



M1000

M1000

Audiophile electronic components - integrated amplifier and pure CD player

Separate audio components offer a seemingly trivial, but crucial advantage: more space! As simple as it may sound, this is an invaluable asset for the development engineers. The eternal compromise between dimensions/compactness and acoustic aspects is largely eliminated here and the engineers are able to concentrate solely on creating an excellent audio performance.

The electronic components used by Magnat in its 1000 series models operate in a well thought-out and enclosed system, are equipped with the highest quality materials and components and share one common goal: to satisfy extremely high audiophile standards in every department.

THE MA 1000 HYBRID INTEGRATED AMPLIFIER - THE BEST OF TWO WORLDS

The core element of this stereo integrated amplifier is contained in its name, i.e. 'hybrid'. The audiophile sound of the high quality tube preamplifier and the enormous and stable power output of a modern transistor amplifier create the perfect foundation for an outstanding acoustic performance.













MAXIMUM PRECISION AND AUDIOPHILE PROPERTIES MAKE THE MCD 1050 THE PERFECT ADDITION TO THE MA 1000

Two worlds are also united in the MCD 1050. This high-end CD player combines the precision of high quality sampled and digitally recorded signals with the audiophile and unmistakable sound of a high quality analogue tube output stage. The pure CD drive ensures precise sampling of optical media. A special highlight, however, is made up by the digital inputs which support sampling rates up to 192 kHz/24 bit. Digital sources can be connected to the MCD 1050 via optical, coaxial and USB inputs to take advantage of its high quality D/A converter section. This incorporates exquisite, state of the art Burr-Brown digital/analogue converters, which offer maximum levels of precision. This cd player has also a selectable upsampling feature 192kHz/24bits for CD and digital inputs. The tube output stage is channel-separated and equipped with 2x ECC88 double triodes, which ensures a linear frequency response well beyond 40 kHz is achieved. Pre-selected and burned-in Russian-made tubes are also exclusively used in the MCD 1050. Like the hybrid integrated amplifier, this high-end CD player also features a high-resolution, high-contrast OLED display. The components are not only perfectly coordinated in terms of acoustic performance, but they are also perfectly suited in terms of their visual appearance.

At the heart of the MA 1000 is undoubtedly the tube preamplifier and the pre-selected ECC 82 Russian-made tubes that have been burned-in for 60 hours. In developing the MA 1000 special attention was given to the phono stage. This features two separate inputs, including one for moving magnet pickups (MM) and one for moving coil pickups (MC). When two pickups are connected they can be easily alternated between via the remote control. A discrete high-power amplifier with Toshiba power transistors ensures the necessary output. The MA 1000 is provided with 115 watts of continuous power per channel.

Generous filter electrolytic capacitors are also integrated in the power supply to absorb extreme power peaks (4 x 10,000 uF).

The exquisite parts and components are accommodated in a sturdy solid metal housing. The control elements are also manufactured from solid aluminium, while high quality ALPS motor potentiometers can be found behind the volume controls. The organic LED display on the front panel rounds off the elegant overall appearance of the unit. This high-resolution and high-contrast display not only greatly enhances legibility, but also creates an exquisite visual accent.

- | | | | |
|---|--|--|--|
|  Valve Pre-Amp Low-noise preamplifier tube |  Selected Valves Preselected and burned-in Russian tubes |  Power Amp Discreetly configured power amplifier |  MM/MC Phono Phono preamplifier with separate MM and MC inputs |
|  Alu Front Solid aluminium front panel |  Alu Control Elements Solid aluminium control elements |  LED Display High-contrast "organic LED display" |  High Quality CD Drive High-quality CD drive |

M1000

Audiophile electronic components - integrated amplifier and pure CD player



MA 1000

High-end hybrid integrated amplifier with tube preamplifier and transistor output stage

Output power/Nominal
20 Hz - 20 kHz, THD < 1.0%
4 Ohm, 2 x 115 W
8 Ohm, 2 x 80 W

Peak
1 kHz, 4Ω: 2 x 250 W

Dimensions (WxHxD)
434 x 125 x 330 mm
(380 mm incl. controls and connectors)
Remote control: 47 x 193 x 23 mm

Color
Black



i-fidelity.net
06/2014
Very good



areadvd.de
02/2014
Outstanding



New Audiophile,
China (04/2015)



Stereoplay
12/2014
Highlight



HiFiTest
01/2014 (Set)
Top class, very good



Plus X Award 2014



fairaudio.de
08/2014



What HiFi Russia
01/2014
"Very good for music"



lite-magazin.de
02/2014
Top class



MCD 1050

High-End CD player with tube output stage and digital audio inputs

Playable formats

CD-DA
CD-R
CD-RW
HDCD

Frequency response
CD: 5 Hz - 20 kHz (+/- 0.5 dB)

THD
< 0,0012%

Dimensions (WxHxD)
434 x 90 x 330 mm
(345 mm incl. controls and connectors)
Remote control: 47 x 198 x 23 mm

Color
Black



New Audiophile,
China (04/2015)



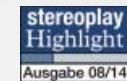
areadvd.de
02/2014
Outstanding



fairaudio.de
08/2014



HiFiTest
01/2014 (Set)
Very good



Stereoplay
08/2014
Highlight



Plus X Award 2014



i-fidelity.net
06/2014
Very Good



Plus X Award 2014



lite-magazin.de
02/2014
Top class



MA 600

MA 600 High-End Stereo Valve Power Amplifier with Hybrid Technology

With our high-end hybrid power amplifier, we bridge the gap between maximum power capacity and audiophile standard acoustic performance. The semi-conductor power amp guarantees maximum stability as well as huge output power. At the same time, with the tube pre-amp, the Magnat engineers deliver a mature, authentic sound for the audiophile. Thanks to strict component selection criteria, and the use of exclusive materials, the MA 600 meets the most challenging demands.

THE BEATING HEART OF THE MA 600 – THE TUBE PRE-AMP

While the separately built semi-conductor power amp ensures maximum power, the pre-amp is responsible for the particularly acoustically-pleasing, natural sound. The extremely low noise tube amplifier is equipped with an ECC 88 tube, naturally handpicked by us, and with 60 hours running-in time on the clock. High quality tube sockets ensure maximum signal stability.

The high audiophile standards are obvious, starting with the inputs. The digital coaxial and optical inputs and the USB port support sampling rates up to 192 kHz and sampling depth of 24 Bit. Anyone who wants to connect via Bluetooth can rely on the aptx standard. Thanks to this innovative protocol, lossless, wireless transmission is now possible to a great extent. High quality Burr/Brown converters then handle the digital to analogue conversion.



EXCLUSIVITY & PERFORMANCE

Both the tube pre-amp and the semi-conductor power amp are located in a solid metal housing for maximum power output. Output of 70 watt sine power (4 Ohm) is achieved with a high performance power amplifier chip per channel. The sophisticated power supply unit with separately stabilised voltages for the individual circuits, and a very generously sized toroidal transformer ensure extremely stable and clean power supply. In addition, high capacity smoothing capacitors easily handle any peaks in voltage. Despite its enormous output, the MA 600 uses very little energy when powered off due to a separate power supply for standby mode. The components selected for the inner workings are rounded off by high quality materials and outstanding quality of workmanship on the housing. Solid aluminium controls are recessed into the 5mm thick front panel. There is also 3.5 mm audio input for portable devices and a headphone output with 6.3 mm jack. An easy to read alpha-numeric display helps simple, menu-assisted operation. Naturally, a high quality remote control covering all functions is included.

Smart Audio meets Traditional Hifi Technology



Alu Front Solid aluminium front panel

Alu Control Elements Solid aluminium control elements

Valve Pre-Amp Low-noise preamplifier tube

MM Phono Phono preamplifier with MM input

TRADITIONAL HIFI

- Audiophile tube pre-amp equipped with an extremely low-noise ECC 88 tube, naturally hand-picked by us and with 60 hours running-in time on the clock.
- 2-channel amplifier with a discrete semi-conductor power amp for up to 70 watts per channel.
- High-quality Burr/Brown® converters ensure an optimum digital-to-analogue conversion.
- The phono input (MM), equipped with highest quality components, also emphasizes the traditional aspect of the MA 600.
- Audiophile headphones find their 6.3 mm jack socket on the front of the stereo amp.

SMART AUDIO

- Coaxial and optical digital inputs support sampling rates of up to 192 kHz and a sampling depth of 24 Bit.
- Instantly turn the MA 600 into a powerful external sound card for PC or notebook, using the USB input (192 kHz/24 Bit).
- Anyone who wants to connect via Bluetooth® can enjoy an almost lossless wireless transmission of one's music, thanks to the innovative aptX® standard.
- Portable devices may be connected via a 3.5 mm audio input on the front.



MA 600

High-end hybrid integrated amplifier with tube preamplifier and Integrated Circuit output stage



Output power/Nominal

20 Hz - 20 kHz, THD < 1.0%, 4 Ohm, 2 x 70 W
20 Hz - 20 kHz, THD < 1.0%, 8 Ohm, 2 x 55 W

Peak

1 kHz, 4Ω: 2 x 150 W

Dimensions (WxHxD)

430 x 101 x 287 mm (330 mm incl. controls and connectors)

Color

Black



areadvd.de
07/2015
Outstanding



av-magazin.de
08/2015
Very Good



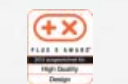
i-fidelity.net
04/2016
Very good



Stereoplay
07/2015
HIGHLIGHT



TD
06/2015
5 Stars



Plus X Award
2015



M500

M500

CD player and DAB/DAB+/FM tuner for sophisticated demands

Classic components have become obsolete? Not at all! Especially when the units are fitted with high-quality materials and components, offer an opulent range of features and are, at the same time, in a very fair price category. The focus with the MT 520 and MCD 550 is clearly on the area of audio performance and sound characteristics, though modern and innovative features are by no means ignored.

POWERFUL DAB/DAB+/FM TUNER WITH EXCELLENT AUDIO PERFORMANCE

Thanks to its high-quality internal structure, the Magnat MT 520 offers outstanding reception properties with high selectivity and low distortion values. Excellent sound performance is guaranteed by an audio output stage with low-noise operational amplifiers as well as the elaborately designed power supply with separate voltage regulators. The housing with its milled, 5 mm thick aluminium front panel is not only elegant, it is also very tough and accommodates an alphanumerical display for RDS/radio text information. The tuner provides 40 freely programmable station presets for each mode.

HIGH-PRECISION SCANNING AND EXCLUSIVE D/A CONVERSION

The MCD 550 CD player features a very high-quality CD drive with a Sanyo laser unit, guaranteeing absolutely reliable operation and constantly stable reading. A high-performance sample rate converter and a particularly high-quality 24-bit digital-analogue converter from Wolfson are responsible for outstanding sound characteristics, among other things. The analogue filter and output stage is also fitted with low-noise operational amplifiers. The entire audio electronics are accommodated on a single board, resulting in high operational safety and reliability as well as an excellent signal to noise ratio.





ELEGANT AND TIMELESS FAMILY DESIGN

The units display a very elegant, coordinated design characterised by the 5 mm thick aluminium front panel and nicely integrated controls. A system remote control is provided for the convenient operation of all the available functions. The MT 520 Universal tuner and the MCD 550 CD player are also naturally well suited, both acoustically and visually, for combining with the Magnat MA 600 and MA 400 hybrid integrated amplifier. The latter can even be operated using the remote control mentioned above.



DAB/DAB+

Digital DAB/DAB+ tuner



High-quality CD drive



Superhet tuner with RDS



Programmable memory for 40 stations

M500

CD player and DAB/DAB+/FM tuner for sophisticated demands



MCD 550

CD player with high-quality drive and particularly precise and low-noise digital/analogue conversion

Playable formats

CD-Audio, CD-R, CD-RW, MP3

Frequency response

20 Hz - 20 kHz (+/- 0.5dB)

THD

< 0,001 %

Dimensions (WxHxD)

Main unit: 430 x 62 x 287 mm
(295 mm incl. controls and connectors)
Remote control: 54 x 140 x 11 mm

Color

Black



MT 520

Powerful DAB/DAB+/FM tuner with excellent audio performance in an elegant housing

THD

Mono < 0,30 %

Stereo < 0,45 %

Dimensions (WxHxD)

Main unit: 430 x 62 x 287 mm
(295 mm incl. controls and connectors)
Remote control: 54 x 140 x 11 mm

Color

Black



MA 400

MA 400

Integrated amplifier with tube preamplifier and a great-sounding transistor power amplifier

The MA 400's integrated phono preamplifier has been constructed with very low-noise operational amplifiers, hand-chosen components guarantee a deviation from the RIAA equalisation curve of less than 0.3 dB. It is also equipped with an elaborate subsonic filter with an 18 dB/octave slope and 16 Hz cut-off frequency. The preamplifier's selected double triode tube (Type ECC88) is burned in for 60 hours before it is fitted.

With a "genuine" continuous performance of 40 watts per channel and the delivery of a total performance over 150 watts for short periods, this integrated amplifier is also suitable for demanding loudspeakers. Elaborate and separately stabilised supply voltages as well as generously dimensioned buffer capacitors (2 x 10,000µF for the power amplifier) ensure dynamics, low noise levels and outstanding channel separation for the individual amplifier sections.



Low-noise preamplifier tube



Phono preamplifier with MM input



Solid aluminium front panel



Solid aluminium control elements

Detailed Specifications on page 124 ff.



MA 400

Integrated amplifier with tube preamplifier and a great-sounding transistor power amplifier.

Output power/Nominal

20 Hz - 20 kHz, THD < 1.0%

4 Ohm, 2 x 40 W

8 Ohm, 2 x 32 W

Peak

1 kHz, 4Ω: 150 W

Dimensions (WxHxD)

430 x 91 x 287 mm

(330 mm incl. control elements)

Remote control: 54 x 140 x 11 mm

Color

Black



i-fidelity.net
07/2011
Very good





QUANTUM SIGNATURE



Quantum Signature Audiophile floorstanding speaker with genuine high-end aspirations

Magnat's engineers have drawn on the experience gained with the Quantum 1000 series and have once again pulled out all the stops to create an acoustic masterpiece based on Quantum's tried and tested technology. The Quantum Signature not only towers above all other models in terms of sheer size and mass, but it also represents the new technological spearhead in Magnat's speaker program.

IMPRESSIVE STATS TO REALLY WHET THE APPETITE

The Quantum Signature is impressive at first sight due to its sheer size. This first impression promises a lot and is backed up, as expected, by numerous top-class technical innovations. Designed as a 3-way bass reflex system, the speaker accommodates a total of six high-tech individual chassis in a high gloss MDF cabinet, which weighs in at 73 kg. The speaker's multi-braced, 100 liter housing with double-layered side panels is of a solid construction that rests on exclusively designed solid metal spikes.



AN IMPOSING APPEARANCE AND PERFECT BASS PERFORMANCE

The overall appearance of this exceptional transducer is predominantly shaped by three sumptuous 200 mm woofer chassis. High-strength aluminum/ceramic cones with inverted dust caps generate a thunderous bass line of the highest quality. The low-resonance die-cast aluminum basket ensures uninterrupted operating conditions. Non-conductive Kapton voice coil mounts and the well-ventilated and optimized drive system minimize electrical and mechanical losses and ensure negligible distortion values at maximum levels.

PERFECTLY COORDINATED D'APPOLITO CONFIGURATION

Thanks to the enhancement of the "Controlled Flexing Cone" the two 170 mm midrange drivers offer ideal properties in the critical vocal range. All of the stops have been pulled out here to reduce distortions to an absolute minimum. The new dome tweeter in the Signature speaker is positioned centrally in a D'Appolito configuration. The computer calculated geometry of the front panel ensures ideal dispersion properties, while a particularly lightweight fabric cone consisting of semi-crystalline polymer ensures a maximum degree of efficiency. In terms of sound this results in an outstanding, harmonious mid/treble range, which is totally free of audible transitions.

A UNIQUE SOUND EXPERIENCE

In sum, the individual parts which have been selected, optimized and developed according to the latest findings generate a sound that is truly impressive. From the deepest bass lines, which the bass trio pumps into the room with the support of two specially coated bass reflex ports, to the perfectly clean fundamental tone and the extremely precise midrange of the 'controlled flexing cones', right up to the fine resolution and impulsive treble generated by the special tweeter - the Quantum Signature has everything. Thanks to its enormous reserves in all frequency ranges and outstanding low-distortion properties, the speaker operates in a relaxed manner that only a few transducers are able to deliver.



The measure of things: the solid MDF housing measures 1410 mm in height

The 3D sectional drawing displays the struts and chambers inside the elaborately constructed housing. The low-resonance die-cast aluminium baskets used for the bass-midrange drivers ensure perfect operating conditions. Furthermore, a voice coil mount manufactured from non-conductive Kapton and the well-ventilated drive system also minimise electrical and mechanical losses.



Optimum quality, innovation and high-tech from Magnat



Sturdy ceramic/aluminium cone with excellent damping properties



Good ventilation ensured through optimised voice coil construction



Special cone construction for enhanced dispersion properties



Magnat chassis with low-distortion bass/mid-range transmission



Loudspeaker basket made from die-cast aluminium, torsionally rigid and anti-magnetic



Coated fabric dome for an improved dynamic range



Crossover with amplitude and phase optimisation



Flow-optimised, extremely large bass reflex port

Quantum Signature

Audiophile floorstanding speaker with genuine high-end aspirations

Quantum Signature

High-end floorstanding speaker as 3-way bass reflex system

Principle

3-way bass reflex, triple bass

Equipment

30 mm tweeter
2 x 170 mm midrange
3 x 200 mm woofer

Power Handling (RMS/Max.)

400/700 watts

Frequency Response

16 – 75.000 Hz

Sensitivity (2.8V/1m)

94 dB

Dimensions (WxHxD)

313 x 1410 x 465 mm



Piano White



Piano Black





Magnat

QUANTUM EDELSTEIN

Quantum Edelstein High-end compact - the audiophile shelf speaker



A compact housing in combination with a superior acoustic performance - this is an aim that can only be achieved with significant expenditure and an enormous amount of technical expertise. This challenge was the incentive for Magnat's engineers, who are able to draw on years of experience in the field of speaker development. The result, which combines technological excellence and innovative design, is a real masterpiece - a true gem!

SIMPLE, HIGH QUALITY, ELEGANT

Even the face of the sound transducer lives up to its Quantum Edelstein name (‘Edelstein’ is the German word for gem). You won’t find any extravagance, decorative elements or embellishments here! Instead, it is thoroughly compelling in terms of its simplicity and elegance, value and nobility. This speaker draws attention to itself in the same way as a polished diamond.





The MDF cabinet, which is optionally available in a high-gloss black or white finish, features a solid aluminium front panel with machined and burnished sound guide for the bass-midrange driver and tweeter. The double base plate has also been manufactured from solid aluminium and polished acrylic glass. The high quality fabric grille is attached magnetically and ensures optimum sound transmission.

THE COMBINATION OF PERFECTLY COORDINATED COMPONENTS

Only perfectly coordinated components can achieve the required objective in such a complex and elaborate design. Therefore, the 2-way bass reflex system has been fitted exclusively with the highest quality components, which include the selected chassis (110 mm bass-midrange driver, 25 mm dome tweeter), the high quality internal wiring with its large cross-sections and the airflex port with its particularly large opening and special coating to eliminate flow noise. Only the specific combination of these selected components ensures an ideal interaction that produces an audiophile acoustic performance.

HIGH-END THROUGH HIGH-TECH

One of the biggest challenges in speaker construction, especially where a compact housing is concerned, is the deep bass range. To compensate for the low housing volume, only innovative and high-performance speaker chassis have been used in the Quantum Edelstein. The bass-midrange driver consists of an aluminium/ceramic sandwich cone with an inverted dust cap, which offers optimum rigidity and maximum power handling capacity. A flow-optimised, non-magnetic die-cast aluminium basket was developed to counteract the large excursions that occur. This prevents compression effects and air turbulence. The particularly powerful magnet system also ensures minimal distortion with a high degree of efficiency.

A Kapton voice coil is responsible for a clean midrange and an even higher efficiency rating. A neodymium magnet system, which offers an optimum balance between performance and size, is utilised for driving the silk dome tweeter. The particularly broad surround is used in combination with the special sound guide in the aluminium front panel to ensure optimum dispersion properties.



Optimum quality, innovation and high-tech from Magnat



Coated fabric dome for an improved dynamic range



Sturdy ceramic/aluminium cone with excellent damping properties



Loudspeaker basket made from die-cast aluminium, torsionally rigid and anti-magnetic



Special cone construction for enhanced dispersion properties



Crossover with amplitude and phase optimisation



Magnat chassis with low-distortion bass/mid-range transmission



Flow-optimised, extremely large bass reflex port

Quantum Edelstein

High-end compact - the audiophile shelf speaker



Quantum Edelstein

Shelf loudspeaker, 2-way bass reflex

Principle

2-way bass reflex
High-End-Bookshelf Speaker

Equipment

25 mm tweeter
4.5" Woofer-midrange

Power Handling (RMS/Max.)

75/150 watts

Frequency Response

34 - 50000 Hz

Sensitivity (2.8V/1m)

90 dB

Dimensions (WxHxD)

135 x 232 x 246 mm



hdfever.fr
"...a true
little jewel"



av-magazin.de
10/2013
Very good



lite-magazin.de
12/2013
"A real gem in terms
of sound & design"



areadvd.de
12/2013
Outstanding



Stereoplay
12/2013
Highlight



HiFiTest
01/2014 (Set)
Outstanding



sempré-audio.at
07/2014
Recommendation



i-fidelity.net
07/2014
Reference



Plus X Award 2014
High Quality/Design

Cabinet in high-gloss black finish/
front panel and base plate in brushed
and anodised aluminium, base plate in
polished acrylic glass



Cabinet in high-gloss white finish/
front panel and base plate in brushed
and anodised aluminium, base plate in
polished acrylic glass





QUANTUM 1000 S



Quantum 1000 S "State of the Art" speaker series with high-end components

The Quantum 1000 S speakers are replacing the former flagship series produced by our audiophile speaker division. While the timeless and elegant design, excellent workmanship and high quality materials have all been maintained, the chassis used by the Signature series are now also responsible for actually converting the sound.

HIGH-END DOME FOR A PERFECT TREBLE RANGE

The 30 mm high-end dome tweeter is equipped with an extremely lightweight semi-crystalline polymer (PTFE) cone. This ensures maximum efficiency on one hand, while guaranteeing optimum precision and pulse fidelity on the other.



Increasingly popular high-resolution audio files require an upper frequency range that extends far beyond the conventional 20 kHz, therefore the tweeter has been provided with a wide surround to ensure optimum dispersion in the high frequency range. This is further enhanced by the solid aluminium front panel with its computer-optimised sound guide. A large magnet vent with low intrinsic resonance ensures perfect temperature management.

HIGH-TECH COMPONENTS AND INNOVATIVE TECHNOLOGY FOR AN OPTIMUM PERFORMANCE

The 170 mm woofer and midrange drivers, which are used throughout the Quantum S series, are perfectly coordinated for the housing construction and have been provided with numerous innovative enhancements by our engineers to ensure an audiophile performance. These enhancements include sophisticated voice-coil ventilation for high resilience, as well as a generously ventilated die-cast aluminium basket, which effectively prevents compression effects and air turbulence. In addition, the entire magnet system has also been optimised to prevent distortion and it has been equipped with double induction rings and stray field optimisation. The effectiveness of this setup is demonstrated by the distortion values, which barely register during our measurements. The woofer's Kapton voice coil mount ensures there is no eddy current loss. Both chassis offer high cone rigidity thanks to the inverse ceramic/aluminium dust caps.

THE CRUCIAL DIFFERENCE

At the acoustic heart of any speaker is the crossover! Hand-picked, high-end components are used exclusively in the Quantum 1000 S series. The crossovers, which are based on 24dB LKR topology with transformer core coils and audiophile polypropylene capacitors, have been designed to optimise the speakers during bi-wiring operation. Elaborate high-end internal wiring from Oehlbach ensures optimum distribution of the signals. The speaker connection terminal has also been designed accordingly. Even the largest of cable cross-sections can be accommodated easily by the gold-plated, acrylic-encapsulated terminals. Housing resonance is reduced by the double-walled side panel configuration and the varying degrees of material thickness. Additional bracing elements inside the housing support the chassis and minimise reflections. A resonance-absorbing chassis support has also been positioned behind the woofer to cope with the powerful forces that develop in the low frequency range.





Technical innovation for a high-end total package

The 3D sectional drawing of the complex construction of the housing clearly shows innovative features such as the double walled side construction of the speakers. Generous stiffeners and the resonance absorbing drivers behind the mid-range woofers guarantee the highest possible level of precision. Physical separation of the crossover on two circuit boards ensures optimal bi-wiring operation.



Quantum Technology Optimum quality, innovation and high-tech from Magnat

Controlled Flexing Cone Special cone construction for enhanced dispersion properties

fmax Signature Coated fabric dome for an improved dynamic range

APOC Crossover with amplitude and phase optimisation

Ceramic Alu Cone Sturdy ceramic/aluminium cone with excellent damping properties

ADVANCED Dynamics Driver Magnat chassis with low-distortion bass/mid-range transmission

Alu Basket Loudspeaker basket made from die-cast aluminium, torsionally rigid and anti-magnetic

Klippel® Engineered Optimised by laser-assisted Klippel measuring system

Quantum 1000 S

"State of the Art" speaker series with high-end components



Quantum 1009 S

Floorstanding speaker, 3-way bass reflex configuration with double bass driver

Principle

3-way, bass reflex

Equipment

30 mm tweeter
170 mm midrange
2 x 200 mm woofer

Power Handling (RMS/Max.)

330/620 watts

Frequency Response

17 - 75.000 Hz

Sensitivity (2.8V/1m)

94 dB

Dimensions (WxHxD)

275 x 1250 x 390 mm



lite-magazin.de
04/2016
Reference class"



av-magazin.de
07/2014
"Wonder Child"



HiFi Test
05/2014
Very Good



Video 05/2015
5.0Set
Best Buy



Plus X Award
2015



Heimkino
9/10-2014 (5.0Set)
Outstanding



Audio
09/2014
Recommendation



Quantum 1003 S

Shelf speaker, 2-way bass reflex configuration

Principle

2-way bass reflex

Equipment

30 mm tweeter
170 mm woofer-midrange

Power Handling (RMS/Max.)

150/230 watts

Frequency Response

27 - 75000 Hz

Sensitivity (2.8V/1m)

91 dB

Dimensions (WxHxD)

230 x 360 x 315 mm



Video 05/2015
5.0Set
Best Buy



Plus X Award
2015



areadvd.de
07/2014
Outstanding



Heimkino
9/10-2014 (5.0Set)
Outstanding



Quantum Center 1000 S

Centre speaker, 2-way bass reflex configuration

Principle

2-way bass reflex

Equipment

30 mm tweeter

2 x 6.5" Midrange-woofer

Power Handling (RMS/Max.)

180/280 watts

Frequency Response

27 - 75000 Hz

Sensitivity (2.8V/1m)

92 dB

Dimensions (WxHxD)

586 x 205 x 315 mm



Heimkino
9-10/2014 (Set)
Outstanding



Video 05/2015
5.0Set
Best Buy



Piano White



Piano Black





QUANTUM 750



Quantum 750

Audiophile loudspeaker series with attached baffle

A clear and wideband sound pattern with no bias towards a single frequency range along with high dynamism and pulse fidelity represent a lofty ideal for audiophiles. Loudspeakers should also work perfectly with different music genres while still looking good. To achieve this goal, an enormous investment in material, design experience and technical know-how is needed. But the love of good sound is perhaps the most important basic requirement. The Quantum 750 series has faced this challenge.

NO CHANCE FOR RESONATING CASES

Based on the premise that only the cones of a loudspeaker should move, and thus distorting case resonances kept to a minimum, solid double-layered MDF housing front panels measuring 45 and 40 mm in thickness have been realised for the new Quantum 750 series. Such effort may also be extremely rare in the entire world market and, in conjunction with the multi-struts inside the case, provides the optimum foundation for the loudspeaker chassis used.





The loudspeakers are set up with the support of built-in resonance absorbers whereby metal spikes may be alternatively used with the floor-standing boxes.

TWEETERS AND WOOFERS IN PERFECT HARMONY

The loudspeaker baskets for the low and mid-range drivers have also been manufactured from non-magnetic and torsionally rigid die-cast aluminium – the built-in membranes have been made from an aluminium-ceramic material. They guarantee pulse fidelity and a clean bass response. These excellent drivers are powered by double magnet systems and ventilated precisely dimensioned voice coils, which results in considerably greater resilience than is possible with conventionally designed chassis. A new high-efficiency Fmax tweeter with double magnet system and dual-compound fabric dome has been created as the appropriate partner for the treble range.

To achieve a particularly smooth transition to the mid-range, the tweeter has also been equipped with a dampened bored pole core, so technically speaking it possess its own small enclosure at the rear. To further optimise the dispersion properties, the aluminium-ABS tweeter flange was also designed with a special geometry to channel the sound.

CROSSOVER

Both phase- and amplitude-optimised crossovers work with high-quality components and forward the signal to internal wiring made of highly pure copper. Encapsulated terminals have been used to connect the loudspeaker cables to the large terminal, proper contact has also been ensured for cables with larger cross-sections. Bi-amping and bi-wiring are also possible.





Quantum Technology Optimum quality, innovation and high-tech from Magnat

fmax Signature Coated fabric dome for an improved dynamic range

Ceramic Alu Cone Sturdy ceramic/aluminium cone with excellent damping properties

Alu Basket Loudspeaker basket made from die-cast aluminium, torsionally rigid and anti-magnetic

APOC Crossover with amplitude and phase optimisation

FE Driver Dynamics Magnat woofer with enhanced dynamics and improved efficiency

airflexport Flow-optimised, extremely large bass reflex port

CVS Good ventilation ensured through optimised voice coil construction

Quantum 750

Audiophile loudspeaker series with attached baffle



Quantum 759 (T.O.T.L.)

**Floor-standing speaker,
3-way bass reflex configuration
with double bass driver**

Principle

3-way, double bass, bass reflex

Equipment

25 mm tweeter
170 mm midrange
2 x 200 mm woofer

Power Handling (RMS/Max.)

280/450 watts

Frequency Response

19 - 50000 Hz

Sensitivity (2.8V/1m)

94 dB

Dimensions (WxHxD)

239 x 1211 x 373 mm

**TOP OF
THE LINE**



HiFi Test
06/2015
Conclusion: Top class



AREA DVD
12/2015
Outstanding



stereoplay
11/2012
Top class



Plus X Award
2016



Quantum 757

**Floor-standing loudspeaker,
3-way bass reflex with double bass**

Principle

3-way, double bass, bass reflex

Equipment

25 mm tweeter
170 mm midrange
2 x 170 mm woofer

Power Handling (RMS/Max.)

220/350 watts

Frequency Response

20 - 50.000 Hz

Sensitivity (2.8V/1m)

93 dB

Dimensions (WxHxD)

190 x 1062 x 370 mm



av-magazin.de
11/2012
Conclusion: very good



Audiovision
01/2013
Conclusion: very good



hdfever.fr
04/2013
Experience
Audiophile



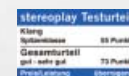
HiFi Test
03/2013
Gold class, price/
performance: very good



FAZ
04/2013
Conclusion: opulent sound
from classic to pop



i-fidelity.net
04/2013
Price tip, very good



stereoplay
11/2012
Top class, price/
performance: outstanding



Heimkino
01/2013
Top class: outstanding



Video
02/2013 (5.1Set)
Testwinner



AudioVideo Russia
01/2014

Quantum 753

**Shelf loudspeaker,
2-way bass reflex**



Principle

2-way bass reflex

Equipment

25 mm tweeter
170 mm woofer-midrange

Power Handling (RMS/Max.)

120/180 watts

Frequency Response

30 - 50000 Hz

Sensitivity (2.8V/1m)

91 dB

Dimensions (WxHxD)

190 x 362 x 335 mm



av-magazin.de
03/2013
Conclusion: very good



areadvd.de
11/2012
Outstanding



i-fidelity.net
12/2012
Price tip: very good



Heimkino
01/2013 (5.1 Set)
Top class: outstanding



Audiovision
01/2013 (5.1Set)
Conclusion: very good



Video
02/2013 (5.1Set)
Price tip: very good



AudioVideo (Russia)
05/2014
05/2014
Recommendation



hdfever.fr
04/2013
Experience Audiophile



Quantum Center 73

Centre loudspeaker, 2-way bass reflex, double bass

Principle

2-way bass reflex, double bass

Equipment

25 mm tweeter
2 x 130 mm woofer-midrange

Power Handling (RMS/Max.)

120/180 watts

Frequency Response

30 - 50000 Hz

Sensitivity (2.8V/1m)

91 dB

Dimensions (WxHxD)

470 x 170 x 295 mm



Audiovision
01/2013
Conclusion: very good



Video
02/2013
Price/performance: very good



Heimkino
01/2013
Top class: outstanding



hdfever.fr
04/2013
Experience Audiophile

Quantum 731 A

**Active subwoofer,
bass reflex, downfire**

Principle

Bassreflex, down-fire

Equipment

300 mm woofer

Output power (RMS/Max.)

180/360 watts

Frequency Response

18 - 200 Hz

Dimensions (WxHxD)

340 x 568 x 475 mm



Heimkino
01/2013
Top class: outstanding



hdfever.fr
04/2013
Experience Audiophile



Audiovision
01/2013
Conclusion: very good



Video
02/2013
Price/performance: very good



Piano White/
White satin



Piano Black/
Black satin





QUANTUM 720



Quantum 720

High-performance Quantum loudspeaker with elegant styling

The Quantum 720 range combines stylish, discreet design with high-quality components and innovative technology. The result is a high-performance loudspeaker system for acoustically demanding users which also attaches importance to solid build quality and an elegant appearance.

AUTHENTIC AND STYLISH

The loudspeakers in the Quantum 720 range are based on a sturdy MDF enclosure with complex interior bracing, stable cross-pieces with height-adjustable metal tapered spikes and a particularly low-resonance 25 mm baffle. The baffle has a silk-matt lacquer finish and, together with the loudspeaker enclosure rounded at the sides and rear, the Quantum 720 range offers a stylish, discreet look. Both metal and rubber spike tips are provided to ensure optimum adaptation to the floor covering.





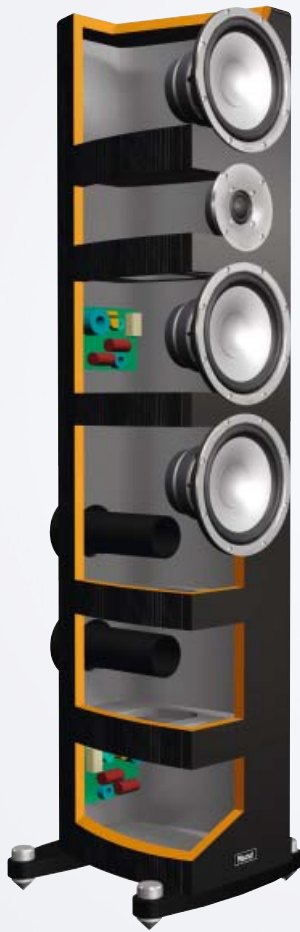
EXCLUSIVE DRIVERS

The entire range of Quantum 720 loudspeakers is fitted with selected, extremely high-quality drivers. In the treble range, Magnat relies on HRH tweeters with a 30 mm fabric membrane and a Harmonic Radiation Horn made of aluminium. The tweeters are fitted with a wide bead and also have special damping and ferrofluid cooling. Ideal conditions for a very dynamic as well as transparent, spatial upper frequency range. Operating below these are FE Dynamics 170mm Ø ceramic-aluminium membrane woofers and subwoofers. A stable steel basket with generous vents and a ventilated voice coil unit guarantee maximum load capacity. On the outside, the Klippel-optimised overall design is rounded off by solid aluminium cover rings. The obligatory subwoofer stages a great spectacle right down to the lowest ranges with a 300 mm high-power long-throw woofer with a Klippel-optimised magnet system. The subwoofer, equipped with a powerful 180 watt RMS amplifier, operates according to the downfire principle and is perfectly suited to the other components of the Quantum 720 range in terms of appearance.

PERFECTION IN DETAIL

To minimise the flow noise of the bass-reflex systems, Airflex ports with generously dimensioned, rounded reflex openings are integrated into all sound transducers. In addition, bi-wiring/bi-amping terminals with large screw terminals and gold-plated contacts are fitted to both floor-standing and shelf-top speakers. The amplitude and phase-optimised crossover provides acoustic 24 dB filters, using only the most carefully selected components.





Acoustic giant: The solid MDF enclosure measures more than 1 m in height

A total of four loudspeaker chassis are accommodated in the multiple braced Quantum 727 enclosure, which is rounded at the sides and rear. The elaborate design with a 25 mm baffle and sturdy traverses with height-adjustable metal spikes hardly allows any resonance despite the huge bass power of the two 170 mm FE Dynamics woofers. The physical separation of the crossover on two circuit boards facilitates optimum bi-wiring operation



Optimum quality, innovation and high-tech from Magnat



Tweeter with wide surround for improved dispersion properties



Crossover with amplitude and phase optimisation



Magnet woofer with enhanced dynamics and improved efficiency



Optimised by laser-assisted Klippel measuring system



Flow-optimised, extremely large bass reflex port



Good ventilation ensured through optimised voice coil construction



Downward-firing subwoofer chassis for an enhanced bass range

Quantum 720

High-performance Quantum loudspeaker with elegant styling



Quantum 727

3-way bass-reflex loudspeaker with dual bass system

Principle

3-way, bass reflex

Equipment

30 mm tweeter
170 mm midrange
2 x 170 mm woofer

Power Handling (RMS/Max.)

200/350 Watts

Frequency Response

22 - 52.000 Hz

Sensitivity (2.8V/1m)

93 dB

Dimensions (WxHxD)

200 x 1055 x 310 mm
290 x 1100 x 310 mm (incl. base)



Quantum 725

2.5-way bass-reflex loudspeaker

Principle

2,5-way, bass reflex

Equipment

30 mm tweeter
170 mm woofer-midrange
1 x 170 mm woofer

Power Handling (RMS/Max.)

180/320 watts

Frequency Response

22 - 52.000 Hz

Sensitivity (2.8V/1m)

92 dB

Dimensions (WxHxD)

290 x 1030 x 310 mm (incl. base)
200 x 975 x 310 mm



Quantum 723

2-way bass-reflex shelf-top loudspeaker

Principle

2-way bass reflex

Equipment

30 mm tweeter
170 mm woofer-midrange

Power Handling (RMS/Max.)

110/180 watts

Frequency Response

30 - 52.000 Hz

Sensitivity (2.8V/1m)

91 dB

Dimensions (WxHxD)

200 x 355 x 310 mm



Quantum Center 72

2-way bass-reflex centre loudspeaker

Principle

2-way bass reflex, double bass

Equipment

30 mm tweeter
2 x 170 mm Midrange-woofer

Power Handling (RMS/Max.)

120/200 Watts

Frequency Response

32 - 52.000 Hz

Sensitivity (2.8V/1m)

91 dB

Dimensions (WxHxD)

518 x 185 x 310 mm



Quantum 7230A

Active bass-reflex subwoofer

Principle

Active bass-reflex subwoofer, down-fire

Equipment

300 mm Woofer

Output power (RMS/Max.)

180/360 watts

Dimensions (WxHxD)

420 x 545 x 500 mm

Black satin/
Ash decor black



Black satin/
Ash decor mocca





QUANTUM 670



Quantum 670

The ascent into Quantum loudspeaker technology

Based on the visually and technically successful design of the Quantum 650 series, significant improvements have been achieved in regard to the acoustic dynamics, treble reproduction and pulse fidelity. But the loudspeakers in the Quantum 670 series do not only convince with their elaborate technological features. The clean and modern lines

and high-quality workmanship turn an acoustic high-tech product into a fine piece of furniture. With the Quantum Center 67 and the Quantum 6725A, this series features two true home-cinema specialists that allow home-cinema systems to be built at a high acoustic level and that visually come from a single mould.





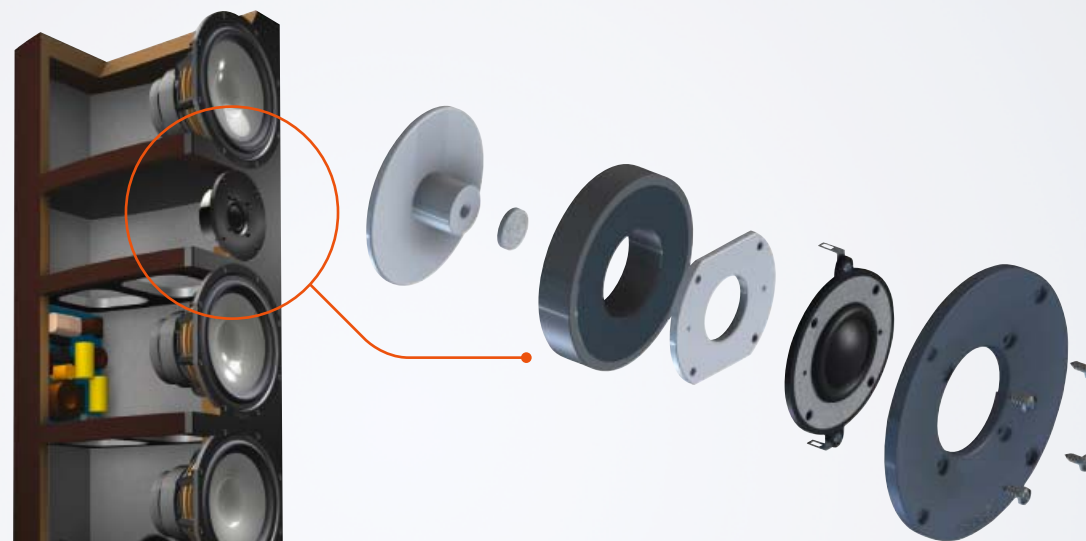
THE SECOND-GENERATION DRIVERS HAVE BECOME CONSIDERABLY MORE DYNAMIC

Newly developed FE Dynamics drivers with very stable aluminium-ceramic cones have been used for the bass/mid-range to produce a very precise and dynamic sound. The non-magnetic loudspeaker baskets manufactured from carbon-fibre-reinforced ABS have been flow-optimised. The voice coils have been designed for high resilience and feature an air-cooling system on the loudspeaker basket. The "harmonic radiation horn" ("HRH") tweeter first introduced in the predecessor series has been further developed in the new Quantum 670 series and now – besides a more finely tuned drive – particularly features a new and flatter design. The new tweeter exhibits a high level of efficiency and also permitted the woofers and mid-range loudspeakers to be recalibrated for a more dynamic overall experience of sound with more of a "live character". The lightweight synthetic-silk dome tweeter possesses a 20% larger cone area than conventional one-inch domes. The completely redesigned level- and phase-optimised crossovers in an acoustic fourth order are also responsible for a completely "rounded sound". High-quality crossover components, including air-core coils and film capacitors, have naturally also been used.

A HIGHLY COHERENT OVERALL PACKAGE

Large bi-wiring/bi-amping terminals with gold-plated screw connections ensure optimum contact. The bass-reflex coordination and the chassis have been developed with the help of the Klippel laser measuring system using different frequencies and levels. All reflex tubes have been flow-optimised – which can be recognised by their trumpet-like shape – and have been fitted flush and even screw-fastened in the cases for optimum stability and functionality. The elaborate case uses a design that is unusual in this price range. Parasitic standing waves have been reduced thanks to the rounded side panels. Multiple internal reinforcements are also responsible for enhanced stability and freedom from resonance. Solid high-gloss baffles measuring up to 25 mm in thickness guarantee optimum operating conditions for the loudspeaker chassis. Furthermore, the floor-standing loudspeakers also come with a sturdy base plate to ensure separation from the floor. All of the loudspeakers feature height-adjustable rubber feet; the floor-standing loudspeakers also come with metal spikes.





The entry levels models in the Quantum series have a lot to offer

The 3D cross-section reveals the amount of effort that has gone into the structure of the Quantum 677. The cones used for the FE Dynamics bass-midrange drivers consist of a special aluminium/ceramic composite, which handles all frequency ranges with particular ease. These drivers are supported by the newly designed, 2nd generation HRH tweeter.



ABS Basket Loudspeaker basket made from fibre-reinforced ABS, stable and low resonance

Quantum Technology Optimum quality, innovation and high-tech from Magnat

fmax Tweeter with wide surround for improved dispersion properties

Ceramic Alu Cone Sturdy ceramic/aluminium cone with excellent damping properties

APOC Crossover with amplitude and phase optimisation

FE Dynamics Magnat woofer with enhanced dynamics and improved efficiency

airflexport Flow-optimised, extremely large bass reflex port

CVS Good ventilation ensured through optimised voice coil construction

Quantum 670

The ascent into Quantum loudspeaker technology



Quantum 677

**Floor-standing loudspeaker,
3-way bass reflex with double bass**

Principle

3-way, bass reflex

Equipment

30 mm tweeter
170 mm midrange
2 x 170 mm woofer

Power Handling (RMS/Max.)

200/350 watts

Frequency Response

20 - 50.000 Hz

Sensitivity (2.8V/1m)

93 dB

Dimensions (WxHxD)

202 x 1080 x 316 mm



AudioVideo
Russia 01/2013
Recommendation



Quantum 675

**Floor-standing loudspeaker,
2.5-way bass reflex with double bass**

Principle

2,5-way, bass reflex

Equipment

30 mm tweeter
170 mm woofer-midrange

Power Handling (RMS/Max.)

180/300 watts

Frequency Response

22 - 50000 Hz

Sensitivity (2.8V/1m)

92 dB

Dimensions (WxHxD)

202 x 995 x 316 mm



AudioVideo Russia
09/2013
Grand Prix



Quantum 673

**Shelf loudspeaker, 2-way
bass reflex**

Principle

2-way bass reflex

Equipment

30 mm tweeter
170 mm woofer-midrange

Power Handling (RMS/Max.)

100/180 watts

Frequency Response

30 - 50000 Hz

Sensitivity (2.8V/1m)

91 dB

Dimensions (WxHxD)

202 x 350 x 280 mm



AudioVideo Russia
06/2013
Recommendation



Quantum Center 67

Centre loudspeaker, 2-way bass reflex, double bass

Principle

2-way bass reflex, double bass

Equipment

30 mm tweeter
2 x 130 mm woofer-midrange

Power Handling (RMS/Max.)

100/180 watts

Frequency Response

32 - 50000 Hz

Sensitivity (2.8V/1m)

91 dB

Dimensions (WxHxD)

490 x 175 x 280 mm



Quantum 6725 A

Active subwoofer, bass reflex, downfire

Principle

Active bass-reflex subwoofer, down-fire

Equipment

10" subwoofer

Output power (RMS/Max.)

175/350 watts

Frequency Response

19 - 300 Hz

Dimensions (WxHxD)

320 x 490 x 455 mm

Piano black/
Ash decor black



Piano black/
Ash decor mocca





SHADOW



Shadow

Price/performance champions with exclusive components and innovative technology

The new Shadow speaker series has not only been developed using state of the art measurement and simulation equipment, but it also features innovative and exclusive components. A perfect balance between efficiency and an authentic sound performance makes the Shadow series stand out from the crowd in its highly competitive price/performance category.

HIGH-TECH COMPONENTS FOR OUTSTANDING PERFORMANCE

High-performance FE-Dynamics drivers are used to reproduce the bass and midrange in the Shadow speakers. The majority of speakers in the series feature two of these drivers, with three being used in the flagship model. Lightweight, specially coated paper cones and non-magnetic, fibre-reinforced ABS cast baskets are utilised to ensure maximum throw and load handling capacity.





The ventilated voice coil unit guarantees optimum temperature management in this setup. The construction has been Klippel-optimised to ensure a perfect balance between efficiency and sound performance. This enables the components in the Shadow series to achieve their full acoustic potential with smaller, less expensive amplifiers.

The newly developed fmax tweeter is responsible for the transparent, brilliant and, at the same time, pleasant treble range. With its wide surround, a powerful ferrite drive and a front panel with dispersion-optimised sound guide and effective prevention of edge reflections, outstanding dynamics are inevitable. The frequency range of the new fmax tweeter extends far beyond the usual 20 kHz.

AN EXCLUSIVE HOUSING FOR EXCLUSIVE COMPONENTS

E1 MDF wooden panels have been used to create a sturdy and low-resonance housing construction, which almost completely eliminates "standing waves". In addition, resonance-absorbing rubber feet and metal spikes are also supplied to ensure perfect installation in any living room. All of the speakers in the Shadow series are designed as bass reflex speakers. The overall technical configuration is based on various signal analyses and not just on one frequency or a certain level. This results in absolutely clean bass pulses irrespective of the music genre or the volume level. Magnat's airflex ports are exclusively used to ensure the prevention of flow noise. These bass reflex tubes with their rounded openings ensure optimum reduction of unwanted background noise.

ACOUSTICS AND AESTHETICS IN PERFECT HARMONY

The visual impression of the sound transducers in the Shadow series is as exquisite as the acoustic performance. All of the components are available in two colours and feature a high gloss lacquered baffle. Behind the rugged and removable fabric grille are the speaker baskets and the tweeter flange in a high quality metal finish.

The Shadow Sub 300 A rounds off the series and its generously dimensioned 30 cm chassis and a maximum output of 320 watts ensure a huge and powerful bass response. The subwoofer is also available in a piano white and piano black/ash finish.



MAGNAT Shadow stands for innovative driver technology, sophisticated cabinet design and acoustic performance on its highest level

High-quality surfaces and sophisticated design: The high-gloss lacquered baffle is the eye-catcher of the Shadow speakers. Extremely precise and very dynamic, the newly developed 30-mm-fmax dome tweeter with extra big surround and dispersion-optimised sound conduction provides convincing sound at all sound sequences. No chance for unpleasant resonances, the cabinet is made of solid and massive MDF panels.



Loudspeaker basket made from fibre-reinforced ABS, stable and low resonance



Tweeter with wide surround for improved dispersion properties



Crossover with amplitude and phase optimisation



Magnet woofer with enhanced dynamics and improved efficiency



Optimised by laser-assisted Klippel measuring system



Flow-optimised, extremely large bass reflex port



Good ventilation ensured through optimised voice coil construction



For separate control of the treble and bass unit

Shadow

Price/performance champions with exclusive components and innovative technology



Shadow 209

Floorstanding speaker, 3-way
bass reflex configuration with
three woofers

Principle

3-way, bass reflex

Equipment

30 mm tweeter
170 mm midrange
3 x 170 mm Tieftöner

Power Handling (RMS/Max.)

220/360 watts

Frequency Response

20 - 48000 Hz

Sensitivity (2.8V/1m)

92 dB

Dimensions (WxHxD)

190 x 1150 x 350 mm



Audio
07/2015
Price/Performance: Very good



i-fidelity.net
06/2015
Best Buy



av-magazin.de
04/2015
Very good



areaddvd.de
04/2015
Outstanding



Shadow 207

Floorstanding speaker, 3-way
bass reflex configuration with
two woofers

Principle

3-way, bass reflex

Equipment

2 x 170 mm woofer
30 mm tweeter
170 mm midrange

Power Handling (RMS/Max.)

180/340 watts

Frequency Response

22 - 48.000 Hz

Sensitivity (2.8V/1m)

92 dB

Dimensions (WxHxD)

190 x 1070 x 350 mm



Shadow 205

Floorstanding speaker,
2 ½-way bass reflex
configuration

Principle

2,5-way, bass reflex

Equipment

30 mm tweeter
170 mm woofer-midrange

Power Handling (RMS/Max.)

160/300 Watts

Frequency Response

24 - 48.000 Hz

Sensitivity (2.8V/1m)

92 dB

Dimensions (WxHxD)

190 x 1000 x 350 mm



Shadow 203

Shelf speaker, 2-way bass reflex configuration

Principle

2-way bass reflex

Equipment

30 mm tweeter

170 mm woofer-midrange

Power Handling (RMS/Max.)

90/160 watts

Frequency Response

32 - 48.000 Hz

Sensitivity (2.8V/1m)

91 dB

Dimensions (WxHxD)

190 x 350 x 300 mm



lite-magazin.de
05/2015
Price/Performance:
Very good



Audio
08/2015
Recommendation
(Efficiency Level)



Shadow Center 213

Centre speaker, 2-way bass reflex configuration

Prinzip

2-way bass reflex

Equipment

30 mm tweeter

2 x 130 mm woofer-midrange

Power Handling (RMS/Max.)

90/160 watts

Frequency Response

34 - 48.000 Hz

Sensitivity (2.8V/1m)

91 dB



Shadow Sub 300A

Active bass reflex subwoofer

Principle

Active bass-reflex subwoofer, down-fire

Equipment

300 mm Woofer

Output power (RMS/Max.)

160/320 watts

Frequency Response

19 - 200 Hz

Dimensions (WxHxD)

345 x 495 x 420 mm

Piano black/ Ash decor black



Piano white, white decor





TEMPUS



Tempus

High performance entry-level speakers with high quality components and a coherent overall concept

The Tempus family, which marks the entry to Magnat's portfolio of high quality speaker components, is thoroughly compelling thanks to its sensational price/performance ratio. Selected materials, tried and tested technology and newly developed components enable high performance acoustic surround & hifi equipment at reasonable prices.

TRIED AND TESTED. INNOVATIVE.

From the floorstanding speaker to the center speaker and the subwoofer: The Tempus components feature a sturdy and low-resonance housing construction consisting of E1-MDF panels. The solid feet and crossbeams at the base of the floorstanding speakers guarantee optimum stability. In addition, resonance damping rubber feet and metal spikes are also supplied.





The sound transducers are equipped with rounded, generously dimensioned, aerodynamic Airflex ports to eliminate flow noise. The front grille, which is covered with acoustic material, can naturally be removed.

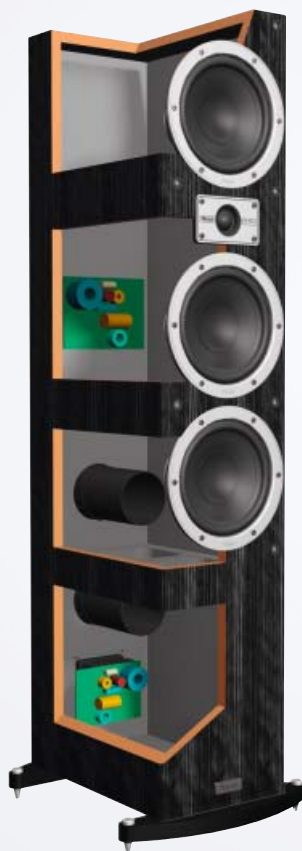
EXCLUSIVE CHASSIS, HOMOGENEOUSLY CONFIGURED.

The configuration of the chassis used by the speaker components in the Tempus series, from the shelf speaker to the flagship model, has been optimized for an homogeneous family sound. 170 mm and 130 mm FE Dynamics woofers and mid-range drivers ensure the fastest possible response from a coated paper cone. The Klippel-optimized construction is extremely resilient thanks to the ventilated voice coil unit and a sturdy metal basket with air vents. The upper frequency range is catered for by a new developed 25 mm fmax tweeter. With a dispersion-optimized sound guide and powerful neodymium drive, it guarantees an optimum resolution. The amplitude- and phase-optimized crossover, which boasts acoustic 24dB filters and high quality components, forms a central interface for the input signals.

SUB? SUB!

Of course, the Tempus series wouldn't be complete without a powerful subwoofer. The Sub 300A operates according to the down-firing principle and is equipped with a 300 mm high performance long-throw woofer and a Klippel-optimized magnet system. A coated paper cone is also used here to ensure a fast response and high precision. The high performance class-D amplifier provides up to 120 watts RMS and coaxes peak values from the Sub 300A when it comes to bass response.





Entry level flagship with two 170 mm FE Dynamics subwoofers

The individual compartments inside the multiple braced, extremely sturdy MDF enclosure of the Tempus 77 are clearly recognisable in the 3D sectional drawing. Combined with the high-quality base traverses with metal spikes, the floor-standing dual-bass loudspeaker displays particularly low resonance. The 25 mm fmax dome tweeter with the powerful neodymium drive is located between the two subwoofers and the identically large woofer.



Crossover with amplitude and phase optimisation



Magnet woofer with enhanced dynamics and improved efficiency



Optimised by laser-assisted Klippel measuring system



Flow-optimised, extremely large bass reflex port



For separate control of the treble and bass unit

Tempus

High performance entry-level speakers with high quality components and a coherent overall concept



Tempus 77

3-way bass reflex floorstanding speaker

Principle

3-way, bass reflex

Equipment

25 mm tweeter
170 mm midrange
2 x 170 mm woofer

Power Handling (RMS/Max.)

175/320 watts

Frequency Response

22 - 45.000 Hz

Sensitivity (2.8V/1m)

92 dB

Dimensions (WxHxD)

200 x 1005 x 320 mm
295 x 1025 x 320 mm (incl. base)



Tempus 55

2.5-way bass reflex floorstanding speaker

Principle

2,5-way, bass reflex

Equipment

25 mm tweeter
170 mm woofer-midrange
1 x 170 mm woofer

Power Handling (RMS/Max.)

150/280 watts

Frequency Response

24 - 45.000 Hz

Sensitivity (2.8V/1m)

92 dB

Dimensions (WxHxD)

200 x 880 x 320 mm
295 x 900 x 320 mm (incl. base)



Tempus 33

2-way bass reflex shelf speaker

Principle

2-way bass reflex

Equipment

25 mm tweeter

170 mm woofer-midrange

Power Handling (RMS/Max.)

85/150 watts

Frequency Response

33 - 45.000 Hz

Sensitivity (2.8V/1m)

91 dB

Dimensions (WxHxD)

200 x 345 x 270 mm



Tempus Center 22

2-way center speaker

Principle

2-way bass reflex

Equipment

25 mm tweeter

2 x 130 mm woofer-midrange

Power Handling (RMS/Max.)

85/150 watts

Frequency Response

34 - 45.000 Hz

Sensitivity (2.8V/1m)

91 dB

Dimensions (WxHxD)

460 x 180 x 230 mm



Tempus Sub 300A

Active bass reflex subwoofer

Principle

Active bass-reflex subwoofer, front-firing

Equipment

300 mm Woofer

Output power (RMS/Max.)

120/240 watts

Frequency Response

20 - 200 Hz

Dimensions (WxHxD)

355 x 447 x 422 mm

355 x 447 x 445 mm (incl. base)

Ash decor mocca



Ash decor black





CS SERIE

CS Serie

Exclusive multi-room components for musical enjoyment at the push of a button

Magnat goes multi-room! The CS range offers multi-room music playback in your own home – convenient, simple and wireless! Up to 10 loudspeakers can be integrated into the home network in a multi-room group to play back your favourite music individually in different rooms or as a group in party mode. The system is controlled conveniently via a smartphone application for iOS and Android.

EASY OPERATION WITH NO NETWORK CABLE

A power cable is all that is needed to get the CS range components working. The multi-room loudspeakers are integrated wirelessly into your own existing home network and can be controlled very conveniently via a smartphone application for iOS and Android operating systems.

Up to 10 speakers, which can all be controlled individually, can be operated in the home network. Individual loudspeakers can be combined into a group, and the volume can also be controlled individually per CS speaker within the group.



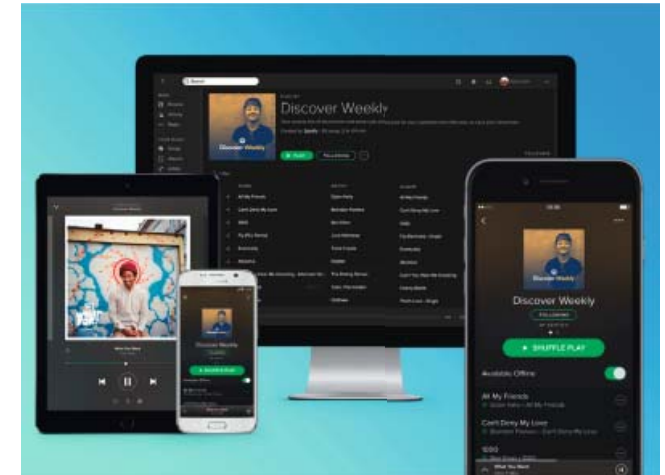


FLEXIBILITY AND WIDE RANGE OF OPTIONS

The WLAN loudspeakers in the CS range work with Qualcomm AllPlay and support various music services, including Spotify and the AllPlay Internet radio service. In addition, of course, you can also play back your own music library, located on a DLNA server in the network, for example. If you do not have a smartphone within reach, the device can be operated directly in a way using three sensor buttons. Maximum flexibility is provided by the more compact CS 10 WLAN loudspeaker, which is also fitted with a built-in battery enabling completely wireless music enjoyment for up to 2 hours.

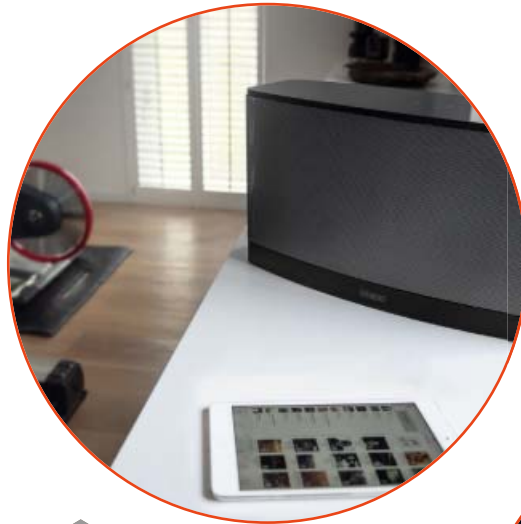
STYLISH, TIMELESS LOOKS

The WLAN loudspeakers of the CS range come in an elegant black finish and feature an anthracite-coloured metal speaker grille on the front of the unit, providing a stylish highlight and effectively protecting the integrated chassis against bumps and knocks. The compact CS-10 is also pleasing to the eye in white with a silver-coloured metal speaker grille.



Qualcomm® AllPlay™





CS Serie

Exclusive multi-room components for musical enjoyment at the push of a button



CS 10

WLAN loudspeaker

Principle

Two-way stereo active loudspeaker

Equipment

25 mm dome tweeter
1 x 120 mm fullrange loudspeaker

Frequency Response

70-18.000 Hz

Dimensions (WxHxD)

180 x 131 x 90 mm



CS 40

WLAN loudspeaker

Principle

Two-way stereo active loudspeaker

Equipment

1 x passive radiator
2 x 25 mm dome tweeter
2 x 120 mm woofer-midrange

Frequency Response

70-18.000 Hz

Dimensions (WxHxD)

412 x 230 x 172 mm



Qualcomm®
AllPlay™

Black with anthracite-coloured
metal speaker cover



White with silver-coloured
metal speaker cover





MAGNASPHERE

Magnasphere Wireless high-end speaker system

Wireless high-end multi-room has a name: Magnat Magnasphere! The fully active stereo speaker components, which come with a separate transmitter unit, are equipped with a digital wireless system that is completely resistant to interference. Furthermore, the components have also been designed to generate an authentic and audiophile acoustic performance. In addition to the innovative technology used, the focus is naturally also on a system that is easy to operate and has a stylish visual appearance: With its silk matt lacquered surfaces, the elegant housing really stands out.

DIGITAL HIGH-END WIRELESS TRANSMISSION

The audio signals are transmitted to the speakers in a completely stable and reliable manner. Three selectable frequency bands (2.4 GHz, 5.2 GHz and 5.8 GHz) guarantee maximum transmission stability. For maximum flexibility, the transmitter module also features Bluetooth connectivity. In order to enable a high quality signal here, the Magnasphere components offer full Qualcomm aptX compatibility, thereby ensuring audio signals are transmitted via Bluetooth in CD quality. The multi-zone functionality of the Magnasphere series supports up to three speaker zones.





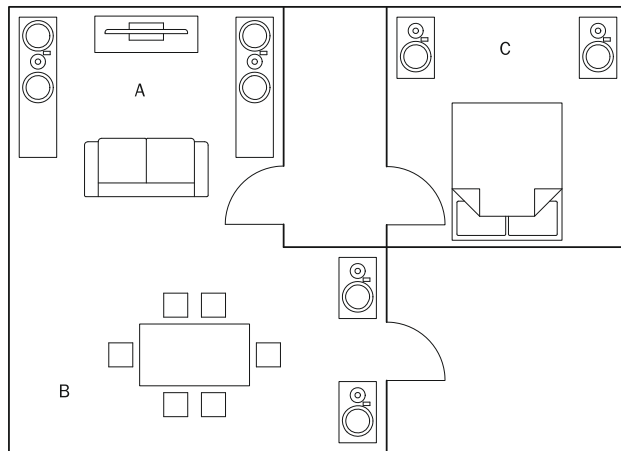
WIRELESS
HIGH-END AUDIO

FLEXIBLE AND VERSATILE

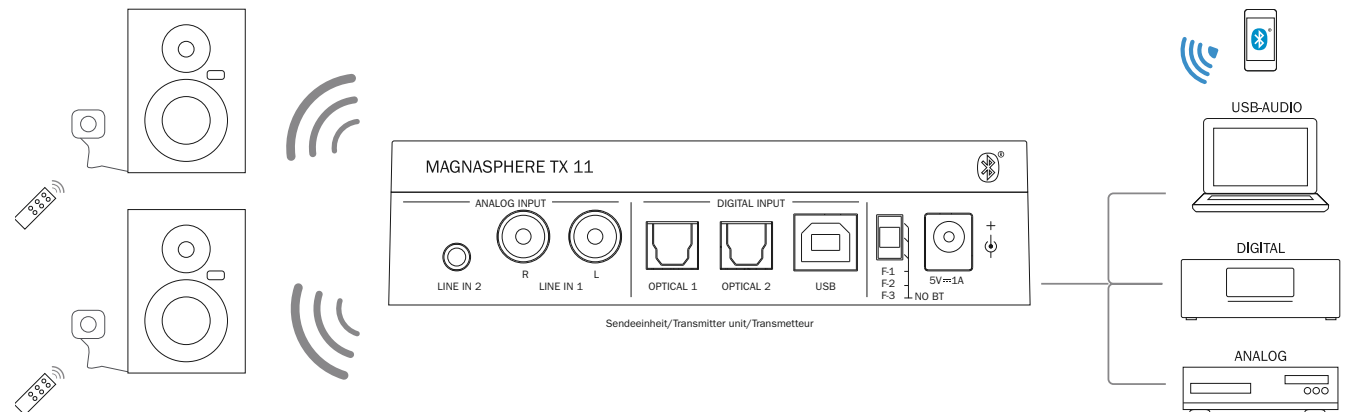
In addition to Bluetooth compatibility, the TX11 Magnasphere transmitter can also be connected directly to a PC via USB. The Magnasphere component then functions as an external sound card and caters for the elaborate internal D/A conversion process. This completely bypasses the audio components in a computer and notebook, which are often weak in comparison. In addition, two optical digital inputs are integrated, which, like all digital inputs, enable sampling rates of up to 24bit/96kHz to be processed. Stereo analog inputs for RCA and 3.5 mm jacks are also present.



The TX-11 transmitter is the interface: it receives signals in analogue and digital mode and via Bluetooth and transmits them wirelessly to the Magnasphere loudspeaker in high-end sound quality



Multi-zone application: up to three loudspeaker groups receive the wireless signals from the centrally placed transmitter simultaneously



ENORMOUS ACOUSTIC PERFORMANCE

The Magnasphere speakers accommodate powerful class-D amplifiers, which are subdivided into individual modules for the bass and mid/treble range, thereby ensuring extremely precise control. The DSP-controlled digital filter stage also offers scope for individual adaptation, whereby the bass and treble frequencies can be adjusted between -2 dB and +2 dB. FE-Dynamics woofers and bass-midrange drivers with ceramic/aluminum cones and distortion-optimized magnet systems are responsible for the solid bass range, while the upper frequency ranges are catered for by fmax tweeters with dual-compound fabric domes and powerful neodymium drives.

All of the Magnasphere loudspeaker functions are controlled using the high-quality solid metal remote control



MAGNASPHERE OVERVIEW

- *Wireless high-end loudspeaker system*
- *Fully active loudspeakers with built-in Class D power amps, DSP filtering, display and Quantum chassis technology*
- *Compact transmitter with numerous inputs (2x analogue, 2x digital, USB Audio, Bluetooth® with aptX®)*
- *Very interference-resistant, easy to set up digital wireless system with 3 selectable frequencies*
- *Multi-zone functionality: up to 3 loudspeaker zones, source freely selectable in each case, several speakers can be grouped together*
- *Each Magnasphere set comprises:*
 - 1 x transmitter TX-11*
 - 1 x remote control*
 - 2 x Magnasphere 33 or 55 loudspeaker*



Magnasphere

Wireless high-end speaker system



Magnasphere 55

Wireless high-end speaker system

Principle

2 ½-way bass reflex, fully active

Equipment

25 mm tweeter
170 mm woofer-midrange
170 mm woofer

Power Handling (RMS/Max.)

Active

Frequency Response

24 - 50.000 Hz

Sensitivity (2.8V/1m)

active

Dimensions (WxHxD)

196 x 955 x 330 mm



Magnasphere 33

Wireless high-end speaker system

Principle

2-way bass reflex, fully active

Equipment

25 mm tweeter
170 mm woofer-midrange

Power Handling (RMS/Max.)

Active

Frequency Response

28 - 50.000 Hz

Sensitivity (2.8V/1m)

active

Dimensions (WxHxD)

196 x 325 x 285 mm



Qualcomm aptX™



White satin



Black satin





CINEMA ULTRA

Cinema Ultra

This is as compact, flexible and powerful in sound as THX Ultra2 gets



Even the THX specialists themselves were amazed and had to heap praise on us in the end: The LCR 100-THX front loudspeaker of the Magnat Cinema Ultra system is the first in the world to have been awarded the strict THX Ultra2 licence – although it was designed for both horizontal and vertical operation. And on account of it also being one of the most compact front/centre loudspeakers ever certified, one of our most important objectives has therefore already been achieved: maximum set-up flexibility.

As a reminder: Hidden behind THX Ultra2 are by far the toughest conditions ever established for home cinemas by THX. This concerns not only the optimum dispersion characteristics of the front and effect speakers but, rather, also sheer volume. For example, Ultra2 requires a level ability of 117 decibels in the bass range - corresponding to thunder in the immediate vicinity. Our Cinema Ultra Sub 300-THX system subwoofers meet these requirements effortlessly; the front and rear speakers of the system have also been developed to ensure level stability and extremely low distortion. A gripping action film with spectacular bass ranges sounds absolutely realistic with the Cinema Ultra system. You will be able to hear and even feel every detail - promise!



PERFECT ENGINEERING FOR THE ULTIMATE PERFORMANCE

But an awful lot of technical effort was needed to achieve this. For example, we have developed what is probably the biggest tweeter cone in the world with a diameter of 42 millimetres. Only with this could the strict guidelines regarding large band width and freedom from distortion be implemented. The Cinema Ultra 100-THX front loudspeaker is fitted with one of these world record tweeters, while the Cinema Ultra RD 200-THX dipole effect speakers have two of them! However, the 17 cm subwoofer with its aluminium-ceramic diaphragm (used in the front and the effect speakers) and the 32 cm high-performance bass of the subwoofer are also new developments, with their low-distortion qualities setting new standards. And you can hear it immediately: The acoustic patterns are stress-free, rich in detail and outstandingly transparent even at very high levels. That is why music in stereo format also sounds so incredibly good with Cinema Ultra.

All of the Cinema Ultra enclosures have stylishly unobtrusive surfaces – our "stealth look". In a home cinema, the speakers should attract attention by producing the best sound, not because of shiny surfaces. For this reason, we have avoided reflecting surfaces and also paid attention to the little things: even our Magnat metal logos do not have a bright aluminium finish but, rather, a subtle brushed titanium look.

PERFECT SPATIAL REPRESENTATION

The huge flexibility of the Cinema Ultra even applies to the playback of Dolby Atmos recordings. Dolby Atmos is based on a large number of additional virtual channels and represents a major step towards perfect 3D surround sound. For this playback process, we have, with the Cinema Ultra AEH 400-ATM, developed a compact coaxial loudspeaker that implements Dolby's guidelines in relation to dispersion characteristics to the letter. Four of these add-on loudspeakers turn our "simple" THX Ultra2 system into a Dolby Atmos configuration. And the sound really is breathtaking: And, given the right type of recording, spatial depth and height become literally tangible.

HIGHLIGHTS:

- *World's first THX Ultra2-certified loudspeaker system to feature an LCR-speaker approved for vertical and horizontal orientation at all positions!*
- *World's most compact THX Ultra2-certified loudspeaker system to fulfill the very demanding requirements for maximum output and low distortion with only one subwoofer!*
- *World's first Dolby Atmos-enabled add-on loudspeaker featuring a switchable crossover to become a direct-radiating on-wall or on-ceiling speaker!*
- *All models can also be used as powerful home cinema loudspeakers within non-THX-certified systems!*
- *Thanks to its small dimensions and versatility, this high performance home cinema loudspeaker system is extremely flexible in configuration and placement!*



Sturdy ceramic/aluminium cone with excellent damping properties



Loudspeaker basket made from die-cast aluminium, torsionally rigid and anti-magnetic



Crossover with amplitude and phase optimisation



Magnet chassis with low-distortion bass/mid-range transmission



Optimised by laser-assisted Klippel measuring system



Good ventilation ensured through optimised voice coil construction



Long-throw subwoofer for maximum performance in the low bass range



Filter circuit for optimisation of the frequency response in subwoofers



Active control circuit for limiting cone excursion

Cinema Ultra LCR 100-THX

Horizontal or vertical: the best THX front loudspeaker of its class

Never before in the history of THX: Despite the strict requirements regarding dispersion characteristics, the LCR 100-THX was granted the coveted licence for both horizontal and upright operation. Two 17 cm subwoofers as well as the large tweeter cone ensure distortion-free levels up to beyond 110 decibels as well as outstanding purity of sound. The 42 mm tweeter cone runs in an optimally linear way from 1,500 – 27,500 hertz thanks to the installed horn (Waveguide) and sound distribution lens.

This helps the LCR 100-THX to achieve a level of efficiency far in excess of 90 decibels. In other words: Even smaller AV receivers make it possible to experience a great cinema feeling with Cinema Ultra. The enclosure of the LCR 100-THX is flat and is perfectly suitable for unobtrusive wall mounting via wall brackets and VESA fittings.



World's first THX Ultra2-certified loudspeaker system to feature an LCR-speaker approved for vertical and horizontal orientation at all positions



Sophisticated mounting system with numerous variations, wall-fixing mountings according to the widespread VESA standard



Particularly tight-fitting chassis layout and specially tuned crossover for uniquely homogeneous horizontal and vertical dispersion characteristics

Cinema Ultra RD 200-THX

High power performance with great spatial representation

One of the 42 mm tweeter cones is located on each sloping side at the centre of the powerful 17 cm subwoofers: The Cinema Ultra RD 200-THX follows the ideal structure of classic dipole speakers. The two tweeters are – as stipulated by THX – connected together with reversed polarity to produce a diffuse, very three-dimensional soundscape. Because our cone operates in an extremely wide band, the Cinema Ultra RD 200-THX creates this desired diffuse sound field from as low as 1500 hertz.

Despite its small size and moderate overall depth of just 16 centimetres, the effect speaker is capable of impressive sound levels - an important factor for the best cinema sound. And optimum installation is also child's play thanks to the large number of wall-mounting options, including VESA brackets.



The Magnat Cinema Ultra RD 200-THX is the ideal rear speaker - it is powerful in terms of sound and level



It produces a broad soundscape thanks to its dipole design



For the audibly perfect match, the drivers of the LCR speakers and the surround speakers are identical

Cinema Ultra SUB 300-THX

18 hertz and no end of acoustic pressure licensed by THX

The Cinema Ultra Sub 300-THX subwoofer also amazed the THX testers: It is the smallest woofer so far to have been awarded the Ultra-2 seal. Here, too, the basis for the record is the very latest technology. The 32 cm high-performance driver is optimised for a large stroke and minimal distortions. For power right from the bottom - the Cinema Ultra Sub 300-THX goes all the way down to 18 Hertz! – the subwoofer is supported by two passive radiators of the same size and appearance.

Together with the newly developed 550 watt Class D power amp, they are located in a compact, extremely sturdy enclosure where the baffle alone, made of 45 mm thick MDF, effectively suppresses a lot of vibrations.



A perfect bass machine – also for non-THX applications



32 cm high-performance long-throw woofer with flow-optimised, highly stable die-cast aluminium cage



"Star Wars" director George Lucas was also a man of conviction with regard to audio. The effects and sounds he incorporated into his films back then still set standards today. We were even more dissatisfied at that time with the quality of the sound in cinemas. So he instructed his sound engineer, Tomlinson Holman, to study the recording process up to and including playback and create a process to drastically increase film audio quality. This resulted in 1983 in the Tomlinson Holman Experience, a catalogue of requirements for cinemas and later also for home cinemas, which - always related to the size of the cinema - guarantees sufficient level, low distortions and the best speech quality. In the jungle of the many specifications, THX has remained the only reliable indicator for over 30 years now. In cinemas, the THX certifications have ensured a huge surge in quality and, not least of all, made the cinema attractive again. Although the quality label is now also awarded in various categories, the THX requirements are still very high, also for home cinema devices. The inspection process sometimes takes months and requires several improvements by the manufacturers. Ultra2 is by far the most ambitious of the THX standards and applies to large home cinemas with an area in excess of 40 square metres. A surround system with an Ultra2 licence has received the highest THX accolade and is equipped for every demand.

Combining high performance and unmatched versatility

Thanks to its small dimensions and its versatility, the Cinema Ultra allows for numerous configurations. THX already approves of the minimum configuration of a 5.1 set (top right). But many movie connoisseurs will surely demand more. A second subwoofer will add the extra bass punch to their home cinema, additional surround dipole speakers or even LCR speakers in the rear transform the Cinema Ultra into a highly capable 7.2 system (bottom right). The flexible LCR speaker can take THX Ultra2 to a new level of practicality: three LCR speakers in horizontal orientation slim down the front trio, generating extra space for large televisions, screens and sideboards.

Three LCR speakers in horizontal orientation transform the Cinema Ultra into a THX Ultra2-certified system of unrivaled space requirements (surround speakers not shown).



Cinema Ultra AEH 400-ATM

With defined dispersion characteristics for perfect Dolby Atmos surround sound

Dolby also imposes extremely strict requirements to ensure that the demanding multi-channel procedure can generate perfect reproduction. The dispersion characteristics and position of the add-on loudspeakers are important. A subwoofer with an integrated tweeter, a so-called coaxial driver, is the best option here. The Cinema Ultra AEH 400-ATM is a coax with a 13 cm bass plus 25 mm tweeter cone and is a perfect fit, in terms of both external appearance and installation depth, on top of an LCR 100-THX – which is also where it should be according to the Dolby guidelines.

For those cases where home cinema fans prefer to mount the excellent sounding AEH 400-ATM on the wall or ceiling, we have, instead of the frequency response optimised for ceiling reflection as stipulated by Dolby, included a second crossover for linear reproduction which can be activated via a toggle switch.



The Cinema Ultra AEH 400-ATM is the ideal addition to every surround sound system intended to reproduce the new multi-channel process like Dolby Atmos



Sound characteristics that can be switched over to direct dispersion ensure maximum flexibility

DOLBY ATMOS®

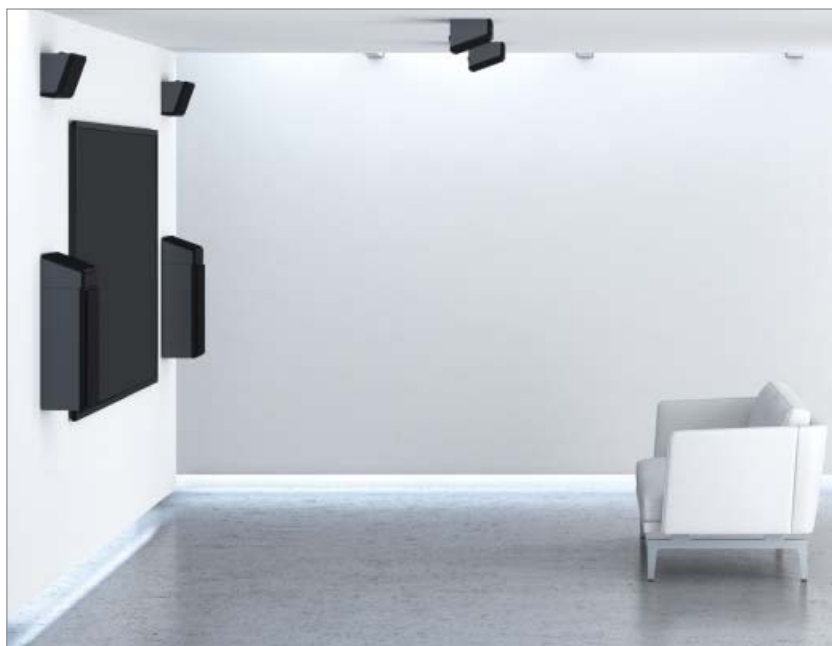
This concerns nothing less than achieving the acoustic third dimension. Most classic surround sound systems were previously designed as follows: Front and centre speakers at around ear height and the rear speakers fitted somewhat higher behind the head. This meant that the sound patterns were almost all moving at one level because the movie soundtrack itself did not provide for upward and downward movements at all. Dolby's new Atmos process makes a lot more possible in this respect - and with comparatively modest means. For this, Dolby uses the existing discrete audio tracks but produces additional "audio objects" in the recording which the sound engineer can virtually play and position anywhere in the soundscape. The Dolby Atmos-compatible processor in the AV receiver decodes this information and distributes it optimally to the connected speaker system - be it a 5.1-, 7.1 or 9.2 configuration.

It works amazingly well. With Dolby Atmos, the reproduction is made much more vivid, with the soundscape gaining in height and depth. The only drawback: Without additional treble or ceiling speakers, the playback remains two-dimensional as usual. However, as ceiling loudspeakers can often not be used, a number of Dolby manufacturers have developed specially licensed designs that emit upwards at a precisely stipulated angle to simulate ceiling speakers. This enables an impressively three-dimensional sound field to be created with very little effort.

Home cinema becomes three-dimensional

In a movie theater, a large number of ceiling speakers generates the impressive extension of the sound field with Dolby Atmos soundtracks. At home, Dolby suggests a more practical approach: add-on speakers placed on the existing speakers radiate sound towards the ceiling at a defined angle. The reflection of this sound reaches the listener, generating the illusion of overhead speakers. The Dolby Atmos-enabled add-on speakers AEH 400-ATM are part of the Cinema Ultra and the perfect extension for this set (top right). They do not only fulfill all of the strict requirements for Atmos-enabled speakers, they also offer a direct-radiating mode. This transforms them into the ideal accessory for your home cinema as on-wall and on-ceiling speakers (bottom right).

Thanks to its dual-crossover and VESA mount, the AEH 400-ATM has many options of placement: as an Atmos-enabled add-on speaker on top of or near your front speakers, as a direct-radiating speaker on your wall or on your ceiling



Cinema Ultra

This is as compact, flexible and powerful in sound as THX Ultra2 gets



Cinema Ultra LCR 100-THX

Principle

THX Ultra2-certified LCR Speaker
2-way, sealed

Equipment

2 x 6.5" Midrange-woofer
1.65" dome-tweeter

Power Handling (RMS/Max.)

220/350 watts

Frequency Response

80 - 27.000 Hz

Sensitivity (2.8V/1m)

93 dB

Dimensions (WxHxD)

280 x 520 x 188 mm



Cinema Ultra RD 200-THX

Principle

THX Ultra2-certified dipole surround
speaker, 2-way, sealed

Equipment

170 mm woofer-midrange
2 x 1.65" dome-tweeter

Power Handling (RMS/Max.)

150/240 watts

Frequency Response

80 - 27.000 Hz

Sensitivity (2.8V/1m)

89 dB

Dimensions (WxHxD)

400 x 300 x 160 mm





Cinema Ultra SUB 300-THX

Principle

THX Ultra2-certified active
high-performance subwoofer
Dual passive radiator

Equipment

320 mm subwoofer
2 x 320 mm passive radiator

Output power (RMS/Max.)

550/1100 watts

Frequency Response

18 - 200 Hz

Dimensions (WxHxD)

468 x 461 x 460 mm
468 x 461 x 478 mm (incl. amplifier)



Cinema Ultra AEH 400-ATM

Principle

Dolby Atmos-enabled high-performance
add-on loudspeaker with direct-radiating mode

Equipment

1 x 5,25" coaxial speaker

Power Handling (RMS/Max.)

50/120 Watts

Frequency Response

45 - 37.000 Hz

Sensitivity (2.8V/1m)

89 dB

Dimensions (WxHxD)

280 x 150 x 188 mm



Cinema Ultra 5.1.4
Heimkino 03-04/2016
Reference



Cinema Ultra 5.1.2
video 04/2016
Highlight



Cinema Ultra 5.1
audiovision 04/2016
Highlight



Cinema Ultra
Plus X Award 2016



Cinema Ultra 5.1.2
lowbeats.de 04/2016
"Allrounder"



Cinema Ultra 5.1
SFT 05/2016
"Superlative"



Cinema Ultra 5.1.2
areadvd 07/2016
"Champions League"



SBW 250

SBW 250

Fully active home cinema soundbar with wireless subwoofer

Impressive home cinema sound from just two components: The Magnat SBW 250 soundbar/subwoofer combination delivers the full dynamic range, crisp bass and a particularly immersive sound experience. For the most problem-free initial installation and start-up, the soundbar is equipped with numerous ports, including HDMI with ARC function. UltraHD/4K signals are also looped through. SBW 250 displays flexibility with an integrated Bluetooth function and aptX support.

EXCLUSIVE COMPONENTS FOR A PERFECT SOUND EXPERIENCE

Two high-quality two-way stereo systems with two tweeters and four subwoofers are incorporated into the sturdy plastic enclosure of the SBW 250 soundbar. Two 25 mm tweeters and four 35x90 mm woofers are powered by a four-channel power amplifier with digital filtering and linearisation via DSP.

Separate amplifiers for tweeters and subwoofers guarantee the highest precision and maximum dynamics. The separate, active sidefire subwoofer with a powerful long-throw chassis 20 cm in diameter achieves maximum output power of 200 watts. The combination of the aerodynamically designed bass-reflex tube and a sturdy MDF enclosure produces an extremely powerful, voluminous foundation with thrust and high precision. The signal transmission from the soundbar to the subwoofer is completely digital and is based on the reliable 2.4 GHz standard.





HIGH FLEXIBILITY AND TOP QUALITY

A wide range of connectivity options, including HDMI, not only simplifies installation and start-up of the SBW 250, it also guarantees a high degree of playback flexibility. The Audio Return Channel makes single-cable connection with the TV possible without any difficulty, while HDMI CEC even enables the soundbar to be controlled via the TV remote control.

Other devices are connected to three additional, UltraHD-compatible HDMI inputs. The SBW 250 soundbar can also receive audio signals wirelessly via Bluetooth. Combined with an aptX-compatible device, wireless transmission is even produced in CD quality.

DOLBY DIGITAL DECODER AND 3D SURROUND SOUND

Dolby digital signals, which are sent via HDMI or the optical digital input, are decoded by the SBW 250 itself. In addition, an integrated DSP-controlled 3D surround sound program is included which provides a particularly immersive sound experience for both films and music. Three EQ presets optimally adapt the playback to film material and music or improve voice clarity. Also included is a lip-synch function and a night mode with reduced dynamics for volume-sensitive times.



Crossover with amplitude and phase optimisation



Optimised by laser-assisted Klippel measuring system



Long-throw subwoofer for maximum performance in the low bass range



Including wall mounts



Filter circuit for optimisation of the frequency response in subwoofers



Active control circuit for limiting cone excursion

SBW 250

Fully active home cinema soundbar with wireless subwoofer

SBW 250

Fully active home cinema soundbar with wireless subwoofer,
Bluetooth® and HDMI®



Qualcomm® aptX™



Principle

2 x 2-way systems, active
powered bass-reflex subwoofer

Equipment

2 x 25 mm dome tweeter
4 x 35x90 mm woofers
1 x 200 mm Subwoofer

Output power (RMS/Max.)

4 x 20/40 W (L+R channel)
1 x 100/200 W (Subwoofer)

Frequency Response

25 - 28.000 Hz

Dimensions (WxHxD)

1000 x 79 x 60 mm (Soundbar)
196 x 334 x 370 mm (Subwoofer)





SOUNDDECK 150

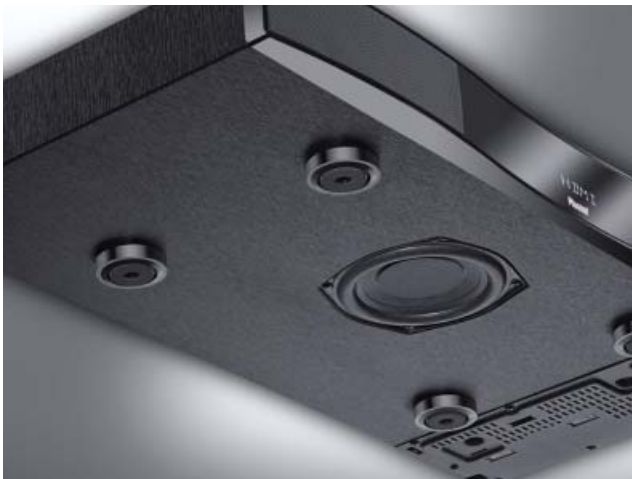
Sounddeck 150

Powered home cinema sound deck with integrated subwoofer, Bluetooth® and HDMI® functionality

Modern LCD and plasma TVs are already dominated by flat housing profiles and new OLED technology will further enhance this trend. Ever decreasing housing dimensions mean the already weak acoustic performance generated by today's TVs will further deteriorate. Audiophile requirements will therefore no longer be satisfied. The flexible and compact sound deck system from Magnat, however, ensure high audio enjoyment can be combined with reduced space requirements.

The Sounddeck 150 offers full, dynamic home movie theater sound and extensive features. The compact sound deck, which carries all popular TV sizes thanks to the stable MDF housing, is equipped with numerous inputs, including HDMI. Thanks to the HDMI-CEC function, the Sounddeck 150 is prepared for control via the TV remote control and receives audio signals via the HDMI Audio Return Channel. A Dolby digital data stream can be played via HDMI as well as the optical and coaxial digital input. Bluetooth, including the audiophile high-end audio standard aptX, ensures music transmission in CD quality.

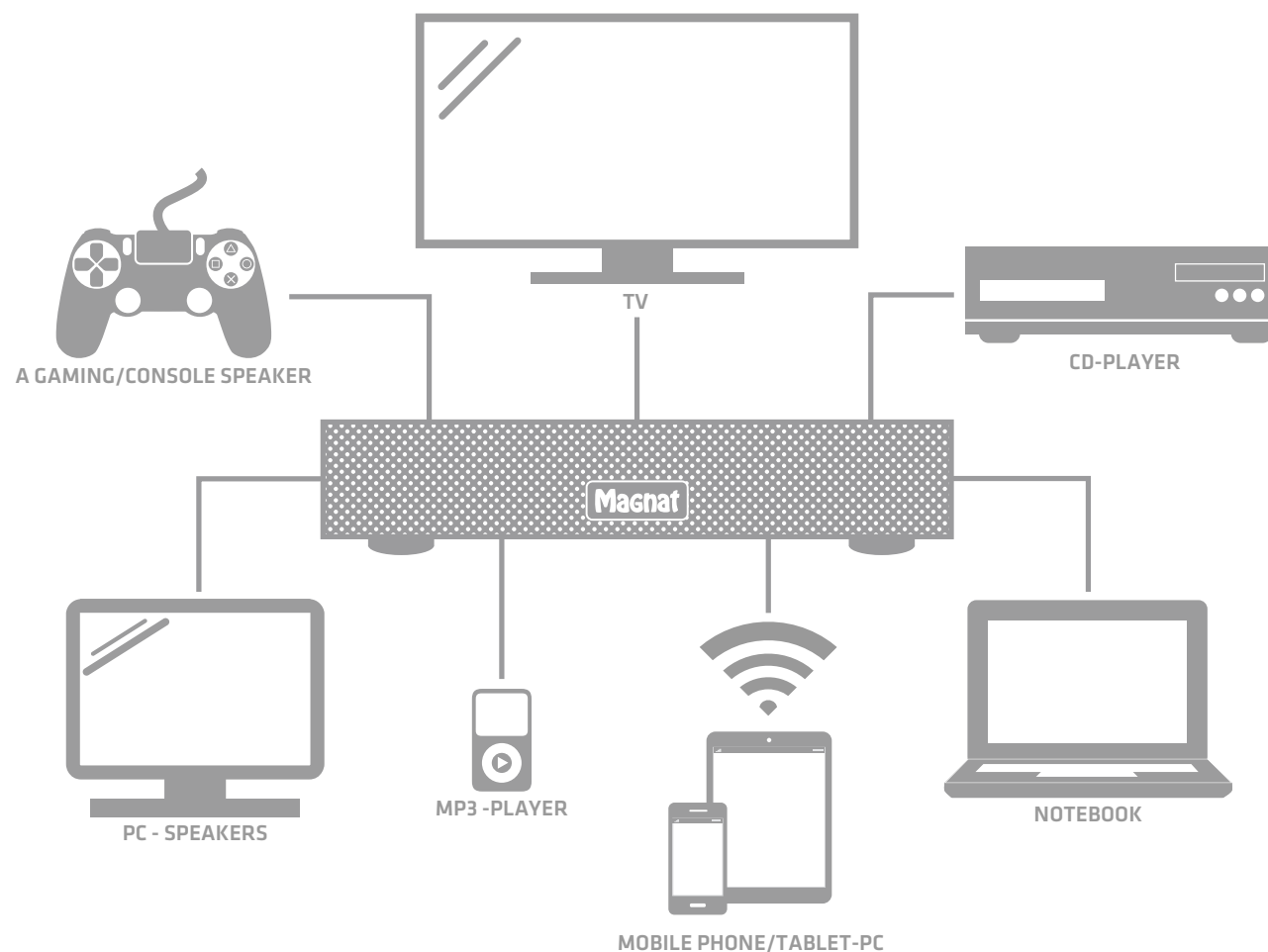
The integrated downfire subwoofer provides for a powerful bass foundation, while two fully-fledged stereo systems at the front guarantee excellent voice clarity and high detail resolution. All important information is shown in the 5-digit LED display, which is integrated into the front of the unit and dims automatically after operation.



The Magnat home theater sound deck provides captivating and effecting home theater sound from one single compact loudspeaker enclosure. Emotional and intensive surround sound is guaranteed by the integrated electronics. In addition, Sounddeck 150 can be connected to a large number of playback devices, such as TV sets, gaming consoles and even mobile devices with a Bluetooth® interface.

MODEL CAN BE USED AS:

1. A home cinema soundbar
2. A wireless Bluetooth® speaker
3. A gaming/console speaker
4. A PC speaker
5. A (New Style) HiFi System



Crossover with amplitude and phase optimisation



Magnat woofer with enhanced dynamics and improved efficiency



Optimised by laser-assisted Klippel measuring system



Flow-optimised, extremely large bass reflex port



Good ventilation ensured through optimised voice coil construction



Downward-firing subwoofer chassis for an enhanced bass range



Long-throw subwoofer for maximum performance in the low bass range



Filter circuit for optimisation of the frequency response in subwoofers

Sounddeck 150

Powered home cinema sound deck with integrated subwoofer, Bluetooth® and HDMI® functionality



Sounddeck 150

Powered home cinema sound deck with integrated subwoofer, Bluetooth® and HDMI® functionality



Qualcomm® aptX™



Principle

2 x 2-way systems at the front,
integrated vented subwoofer

Equipment

2 x 20 mm dome tweeter
4 x 1.8" midrange
1 x 5.25" subwoofer

Output power (RMS/Max.)

100/200 Watts

Frequency Response

28 - 26.000 Hz

Dimensions (WxHxD)

700 x 80 x 340 mm



Video
03/2016
Best buy



Audiovision
12/2015
Test winner



av-magazin.de
01/2016
Very good



lowbeats.de
12/2015
Very good



SFT
02/2016
Good



lite-magazin.de
11/2015
Mark 1,0



Satvision
01/2016
Very good





NEEDLE ALU SUPER



Needle Alu Super

Particularly slim designer speaker series with brushed aluminium finish

The Needle Alu Super series is the perfect companion for a discreet and design-oriented home cinema system. Aluminium is a material that has always exuded a certain "touch of cool", regardless of its form. In keeping with the comeback of black appliances in the entertainment electronics sector, the entire Needle Alu Super series is available in both a silver and a black anodised aluminium finish.

WITH LOOKS TO MATCH THE SOUND

from looking cool, aluminium can also sound extremely good. The speaker enclosures consist of thick-walled continuous cast aluminium and accommodate up to four 70 mm bass/midrange drivers and one 13 mm polycarbonate dome tweeter.





The bass/midrange drivers operate with specially hardened cellulose cones and a "low-distortion" centering element, which prevents the cone from wobbling at high volumes. These ensure a rating of 90 dB measured according to the DIN standard (1 watt/metre), which is more than enough for a party. And if it does get a bit too lively sometimes, the elaborate crossover will prevent any damage to the speaker.

PERFECTLY COORDINATED FOR HOME CINEMA APPLICATIONS

To guarantee optimum performance from the tower, centre and satellite speakers in a home cinema setup, all of the speakers have been magnetically shielded. The different models in the range can, of course, be combined at will. We recommend combining these speakers with the active subwoofers in the Betasub series, as these round-off the sound pattern perfectly.



APOC

Crossover with amplitude and phase optimisation

Wall Mount

Including wall mounts



Ferrofluid Cooled

Tweeter voice coil with effective ferrofluid cooling



Overload Protection

Enhanced safety at high volumes thanks to overload protection

Needle Alu Super

Particularly slim designer speaker series with brushed aluminium finish



Needle Alu Super Tower

2-way bass-reflex loudspeaker with double bass

Principle

2-way bass reflex, double bass

Equipment

13 mm tweeter

4 x 70 mm woofer-midrange

Power Handling (RMS/Max.)

70/120 Watts

Frequency Response

45 - 30000 Hz

Sensitivity (2.8V/1m)

90 dB

Dimensions (WxHxD)

90 x 1025 x 115 mm



Needle Alu Sat

2-way satellite loudspeakers

Principle

2-way bookshelf speaker

Equipment

13 mm tweeter

70 mm midrange-woofer

Power Handling (RMS/Max.)

45/70 watts

Frequency Response

75 - 30000 Hz

Sensitivity (2.8V/1m)

88 dB

Dimensions (WxHxD)

90 x 145 x 115 mm



Needle Alu Super Center

2-way centre speaker with dual bass driver

Principle

2-way double bass

Equipment

13 mm tweeter

4 x 70 mm woofer-midrange

Power Handling (RMS/Max.)

65/100 watts

Frequency Response

55 - 30000 Hz

Sensitivity (2.8V/1m)

90 dB

Dimensions (WxHxD)

402 x 90 x 115 mm

Aluminium black



Aluminium silver





INTERIOR 5.1X

Interior 5.1X Compact 5.1 home cinema system with active subwoofer

Many home cinema enthusiasts are on the look-out for compact alternatives! This is because of the deteriorating sound of modern flatscreen TVs on one hand, and because of the large amount of space that is often required for separate audio systems on the other. Even compact soundbar systems are visually too dominant for some film buffs. Magnat has developed virtually invisible, yet very melodious solutions for these very customers.

PERFECT SPEECH INTELLIGIBILITY

Magnat's Interior Cinema systems are ideally suited for the interaction between high intelligibility of speech, precision effects and emotional soundtracks. They deliver an almost perfect balance in the threshold range between the midrange and treble areas which play such a key role in a home-cinema experience. The satellite chassis have all been configured using two-way coaxial geometries, the centre loudspeaker, on the other hand, feature a horizontal layout with two bass/mid-range loudspeakers and an additional dome tweeter.

LOW DISTORTION DEEP BASS

All subwoofers have been equipped with a precisely calculated bass-reflex tunnel to enhance the lower frequency ranges. The various active subwoofers in the series have been equipped with special long-throw drivers for the reproduction of the lowest frequencies.

Interior 5.1X

Compact 5.1 home cinema system with active subwoofer

Satellite Speakers

Principle

2-way speaker

Equipment

½" tweeter

85 mm woofer

Power Handling (RMS/Max.)

50/100 watts

Dimensions (WxHxD)

90 x 110 x 110 mm

Center Speaker

Principle

2-way center speaker

Equipment

½" tweeter

85 mm woofer

Power Handling (RMS/Max.)

60/120 watts

Dimensions (WxHxD)

210 x 90 x 110 mm

Subwoofer

Principle

Active bass-reflex subwoofer, down-fire

Equipment

170 mm subwoofer

Output power (RMS/Max.)

40/100 watts

Dimensions (WxHxD)

225 x 380 x 350 mm



Crossover with amplitude and phase optimisation



Downward-firing subwoofer chassis for an enhanced bass range



Long-throw subwoofer for maximum performance in the low bass range



Filter circuit for optimisation of the frequency response in subwoofers



NEW OMEGA 380

NEW OMEGA 380

High-end active subwoofer for genuine home cinema enthusiasts

The Omega Sub from Magnat has been designed as a real all-rounder and is perfect for a variety of applications and combinations. The tremendously powerful subwoofer, with its generously dimensioned 38 cm chassis, is an ideal partner for fully-fledged floorstanding speakers or compact satellite speakers and it provides a voluminous foundation for acoustic events in the deep bass range, which is of significant importance for the home cinema sector.



PREMIUM CHASSIS AND HIGH-POWER AMPLIFIER FOR OPTIMUM PERFORMANCE

An exclusive feature of the Omega Sub 380 is naturally its 380 mm high-power long-throw chassis. The coated and hardened paper cone guarantees a profound, yet faithful reproduction of the lowest frequencies. This high level of precision ensures structures are clearly discernible in the bass range without a trace of reverberation. The chassis is equipped with a Klippel-optimized magnet system, while the ventilated high-performance voice coil ensures maximum operational reliability.



The integrated amplifier generates a maximum output power of 300 watts. The sub is naturally also provided with controllers for the volume, crossover frequency and phase response. A front panel with LED status display facilitates operation. An automatic standby function, which has a very low power consumption, is also available. The supplied remote control, which can be used to switch the subwoofer on and off as well as adjust the volume, is something of a rarity.

BASS REFLEX COORDINATION AND DOWN-FIRING PRINCIPLE DEFINE THE HOUSING CONCEPT

The Omega 380 subwoofer is accommodated in a sturdy MDF housing with elaborate bracing and operates according to the down-firing principle. The distance to the base plate has been meticulously calculated and this, in combination with the generously dimensioned airflex ports with their low flow resistance, not only results in a particularly deep and precise bass range, but also an elimination of flow noise and unwanted frequency ranges.



NEW OMEGA 380

High-end active subwoofer for genuine home cinema enthusiasts



New Omega 380

Active bass reflex subwoofer

Principle

Active bass-reflex subwoofer, down-fire

Equipment

380 mm woofer

Output power (RMS/Max.)

150/300 watts

Frequency Response

17 - 200 Hz

Dimensions (WxHxD)

458 x 545 x 620 mm



BETA SUB 20 A

BETA SUB 20A

Active bass-reflex subwoofer with 200 mm woofer driver

Active bass-reflex subwoofer with 200 mm woofer driver. The Betasub 20A is the smallest model in the Betasub series and is driven by a 140 watt high-performance power amplifier. This subwoofer covers a low-bass bandwidth that ranges from 200 to 25 Hz – which is infinitely adjustable between 200 and 50 Hz.

NUMEROUS TESTS UNDERLINE THE EXCELLENT PERFORMANCE

This, the smallest but still powerful Betasub model, is powered by a 140 watt high-performance power amplifier and covers a low-bass bandwidth that ranges from 200 to 25 Hz – which is infinitely adjustable between 200 and 50 Hz.



Flow-optimised, extremely large bass reflex port



Downward-firing subwoofer chassis for an enhanced bass range



Filter circuit for optimisation of the frequency response in subwoofers



Active control circuit for limiting cone excursion

The downfire case design enables the subwoofer to deliver a bass that in relation to its external dimensions is very deep and powerful. The reason: the cone surface area has been fitted at a very small and precisely defined distance from the floor in the solid and low-resonance case. The driver is supported by the Airflex bass-reflex port that has been secured to the front of this bass powerhouse with five screws. The Betasub 20A is the ideal bass partner for a loudspeaker from Magnat's Shadow series.



Detailed Specifications on page 124 ff.



Betasub 20 A

**Active bass-reflex subwoofer
with 200 mm woofer driver**

Principle

Active bass-reflex subwoofer, down-fire

Equipment

200 mm woofer

Output power (RMS/Max.)

70/140 watts

Frequency Response

25 - 200 Hz

Dimensions (WxHxD)

260 x 430 x 400 mm

silver



Black Satin/Ash Decor Black





SYMBOL PRO

Symbol Pro Rugged, compact multi-functional speakers for shelf and wall mounting

Whether on the shelf or under the ceiling, for music or home cinema, at home or in the studio – Magnat's successful Symbol Pro speakers have established themselves in recent years as universal sound transducers in a variety of applications.

THANKS TO ITS MAGNETIC SHIELDING, CLOSE PROXIMITY TO THE TV IS ALSO NO PROBLEM

The extremely compact 2-way systems are located in a rugged, lightweight enclosure. Depending on the enclosure dimensions, different bass-midrange formats of 110 to 140 to 160 mm diameter have been accommodated. Magnetic shielding also makes it possible to set up the three models in direct proximity to the TV or PC monitor without any problem.

HORIZONTALLY AND VERTICALLY PIVOTING

The dome tweeter is protected against overload and signal spikes. The Symbol Pro speakers available in black and white enclosures in black and white are equipped with integrated vertically and horizontally adjustable suspension devices.



LWDOME

Small, extremely light dome tweeter



APOC Crossover with amplitude and phase optimisation



Outdoor Speaker Suitable for roofed outdoor use



Overload Protection Enhanced safety at high volumes thanks to overload protection



Symbol Pro 160

2-way multi-functional speakers
for shelf and wall mounting

Principle

2-way bass reflex

Equipment

19 mm tweeter

160 mm midrange-woofer

Power Handling (RMS/Max.)

100/225 watts

Dimensions (WxHxD)

180 x 310 x 240 mm



Symbol Pro 110

2-way multi-functional speakers
for shelf and wall mounting

Principle

2-way bass reflex

Equipment

19 mm tweeter

4.5" Woofer-midrange

Power Handling (RMS/Max.)

60/150 watts

Dimensions (WxHxD)

120 x 205 x 160 mm



Symbol Pro 130

2-way multi-functional speakers
for shelf and wall mounting

Principle

2-way bass reflex

Equipment

19 mm tweeter

140 mm midrange-woofer

Power Handling (RMS/Max.)

80/200 watts

Dimensions (WxHxD)

151 x 255 x 215 mm

White



Black





INTERIOR QUANTUM

Interior Quantum Built-in loudspeaker series for ceiling and wall installation with genuine high-end aspirations

Many audiophiles want an in-wall/in-ceiling series on the acoustic level of Magnat's top Quantum home speaker series. At Magnat, Quantum stands for the highest demands on sound quality and technical complexity.

TECHNOLOGY AND SOUND QUALITY AT THE QUANTUM LEVEL

Like its "big brothers", the Interior Quantum models with woofer and mid-tone diaphragms are made with highly stable and rigid anodized ceramic-aluminum cones. This material provides extremely accurate reproduction and reveals even the finest acoustic details. As equal partners for the high frequencies, coated fabric dome tweeters are used. They stand for pulse fidelity playback without distortion effects.

GREAT FLEXIBILITY IN USE

Because installation situations can differ significantly, the tweeters can be swivel-mounted. The special ICQ 262 model has two angularly disposed tweeters and 3-way treble level adjustment and allows both mono and stereo operation thanks to the dual voice coil and switch. Cascading also is possible. For the models with a tweeter, the woofer can also be adjusted 3 ways in the midrange. These options service to even optimize the sound in extremely open spaces. Settings are made on the front and may thus also be made after fitting has been concluded.



Optimum quality, innovation and high-tech from Magnat



Sturdy ceramic/aluminium cone with excellent damping properties



Crossover with amplitude and phase optimisation



Frameless design allows inconspicuous installation

Interior ICQ 82

2-way high-end recessed speaker



Principle
2-way in-wall/in-ceiling loudspeaker

Equipment
25 mm tweeter
200 mm woofer

Power Handling (RMS/Max.)
120/200 Watts

Outer Dimensions Ø
272 mm

Cutting Out Ø
240 mm

Mounting depth
115 mm

Interior ICQ 62

2-way high-end recessed speaker



Principle
2-way in-wall/in-ceiling loudspeaker

Equipment
25 mm tweeter
160 mm woofer

Power Handling (RMS/Max.)
100/180 Watts

Outer Dimensions Ø
220 mm

Cutting Out Ø
193 mm

Mounting depth
98 mm

Interior ICQ 262

2 x 2-way high-end recessed speaker



Principle
2 x 2 way loudspeaker

Equipment
2 x 19 mm tweeters
160 mm woofer

Power Handling (RMS/Max.)
100/180 Watts

Outer Dimensions Ø
220 mm

Cutting Out Ø
193 mm

Mounting depth
98 mm



Interior IWQ 62

2 way High-End in-wall/in-ceiling loudspeaker

Principle
2-way in-wall/in-ceiling loudspeaker

Equipment
25 mm tweeter
200 mm woofer

Power Handling (RMS/Max.)
100/180 Watts

Outer Dimensions (WxH)
211 x 297 mm

Cutting Out (WxH)
185 x 272 mm

Mounting depth
76 mm





INTERIOR

Interior High-quality recessed speaker series for ceiling and wall mounting

With its Interior series, Magnat has further expanded its range of high-quality built-in loudspeakers for living areas. The appeal of these products lies in the fact that a virtually invisible sound is achieved through the installation of speakers in ceilings or walls. In combination with the outstanding technical developments achieved by Magnat's engineers, an entirely new range of products has been opened up to customers who afford great importance both to living room aesthetics and good sound.

THE BUILT-IN LOUDSPEAKERS SET NEW STANDARDS FOR QUALITY AND SOUND

All woofers feature cones made from a weave of carbon and glass-fibre strands. This mix of materials delivers extreme stability and long-term quality and is otherwise only used to manufacture bulletproof vests. The result is a very clear and dynamic sound.

INDIVIDUAL ADAPTATION TO THE AVAILABLE SPACE IS NOT A PROBLEM

The tweeter used for the in-wall models is a large-format 25 mm textile dome, which has been fitted into the front so that it may be adjusted horizontally and vertically. Which means that the emitted sound may be perfected to suit even very different room conditions. The in-ceiling loudspeakers possess two built-in coaxial tweeters. Two circuit versions are possible – sound directed over a wide area or at specific points.



Enhanced dynamic behaviour ensured
by carbon/Kevlar cone



Crossover with amplitude and phase
optimisation



Horizontally and vertically adjustable
Magnat tweeter



Simple installation system for
recessed Magnat speaker

Interior IW 810

2-way recessed speaker

**Principle**

2-way in-wall/in-ceiling loudspeaker

Equipment

25 mm tweeter
200 mm woofer

Power Handling (RMS/Max.)

100/180 watts

Outer Dimensions (WxH)

255 x 358 mm

Cutting Out (WxH)

224 x 335 mm

Mounting depth

90 mm

Interior IW 610

2-way recessed speaker

**Principle**

2-way in-wall/in-ceiling loudspeaker

Equipment

25 mm tweeter
160 mm woofer

Power Handling (RMS/Max.)

75/140 watts

Outer Dimensions (WxH)

220 x 306 mm

Cutting Out (WxH)

188 x 275 mm

Mounting depth

85 mm

Interior IC 82

2-way recessed ceiling speaker

**Principle**

2-way in-wall/in-ceiling loudspeaker

Equipment

2 x 19 mm tweeters
200 mm woofer

Power Handling (RMS/Max.)

100/180 watts

Outer Dimensions Ø

272 mm

Cutting Out Ø

238 mm

Mounting depth

100 mm

Interior IC 62

2-way recessed ceiling speaker

**Principle**

2-way in-wall/in-ceiling loudspeaker

Equipment

2 x 19 mm tweeters
160 mm woofer

Power Handling (RMS/Max.)

75/140 watts

Outer Dimensions Ø

228 mm

Cutting Out Ø

195 mm

Mounting depth

80 mm



INTERIOR PERFORMANCE

Interior Performance Recessed speaker series for ceiling and wall mounting

Many music enthusiasts want a concealed sound system in their living room. The Interior Performance series from Magnat makes it possible. The transducers can be installed in the wall and ceiling directly and require no separate enclosure. The technical design of the series is based on the high-quality Interior series and represents the new Upgrade series in the recessed speaker range.

GREAT FLEXIBILITY IN USE

All in-wall models are equipped with a generous 25 mm PET tweeter whereas the somewhat smaller in-ceiling systems have a 19 mm version. Since the use of built-in speakers usually means highly customized installation scenarios, these products must bring a high degree of flexibility to the installation. The tweeters of the models equipped with a tweeter can be pivoted in all directions up to 35°. Thanks to this "swivel technology", most installation situations can be handled successfully. The ICP 262 has a special place in the Interior Performance series. It has two tweeters arranged at a fixed angle and 3-way treble level adjustment.

NOTHING STANDS IN THE WAY OF INSTALLING THE ICP 262 IN THE BATHROOM OR SWIMMING POOL

Thanks to the coated surface of the cone and high-quality components, installation in humid areas such as in bathroom or near a swimming pool is no problem. In addition, installation with the help of the rugged clamping mechanism is easy.

LWDOME

Small, extremely light dome tweeter



Crossover with amplitude and phase optimisation



Special Magnat tweeter which can be swivelled through 35° in all directions



Simple installation system for recessed Magnat speaker

Interior IWP 82

2-way recessed speaker

**Principle**

2-way in-wall/in-ceiling loudspeaker

Equipment

25 mm tweeter
200 mm woofer

Power Handling (RMS/Max.)

80/140 watts

Outer Dimensions (WxH)

254 x 359 mm

Cutting Out (WxH)

218 x 321 mm

Mounting depth

88 mm



Interior IWP 62

2-way recessed speaker

Principle

2-way in-wall/in-ceiling loudspeaker

Equipment

25 mm tweeter
160 mm woofer

Power Handling (RMS/Max.)

70/120 watts

Outer Dimensions (WxH)

218 x 305 mm

Cutting Out (WxH)

185 x 272 mm

Mounting depth

67 mm



Interior ICP 262

2x2-way recessed ceiling speaker

Principle

2 x 2 way loudspeaker

Equipment

2 x 19 mm tweeters
160 mm woofer

Power Handling (RMS/Max.)

70/120 watts

Outer Dimensions Ø

233 mm

Cutting Out Ø

198 mm

Mounting depth

88 mm

Interior ICP 82

2-way recessed ceiling speaker

**Principle**

2-way in-wall/in-ceiling loudspeaker

Equipment

19 mm tweeter
200 mm woofer

Power Handling (RMS/Max.)

80/140 watts

Outer Dimensions Ø

275 mm

Cutting Out Ø

240 mm

Mounting depth

102 mm



Interior ICP 62

2-way recessed ceiling speaker

Principle

2-way in-wall/in-ceiling loudspeaker

Equipment

19 mm tweeter
160 mm woofer

Power Handling (RMS/Max.)

70/120 watts

Outer Dimensions Ø

233 mm

Cutting Out Ø

198 mm

Mounting depth

88 mm



Interior ICP 52

2-way recessed ceiling speaker

Principle

2-way in-wall/in-ceiling loudspeaker

Equipment

19 mm tweeter
130 mm woofer

Power Handling (RMS/Max.)

60/100 watts

Outer Dimensions Ø

202 mm

Cutting Out Ø

168 mm

Mounting depth

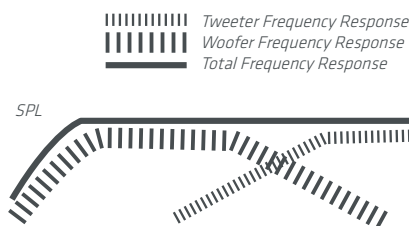
81 mm

Loudspeaker-Technology

APOC



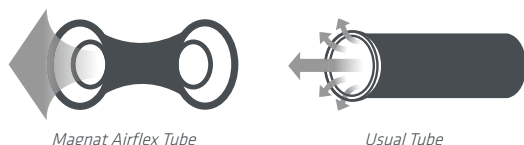
One of the most important elements in a speaker is the crossover. It divides the incoming music signal between the different chassis in the housing and is largely responsible for sound quality and load capacity. Magnat's APOC technology ("Amplitude and Phase Optimized Crossover") ensures clean and symmetrical transitions between the individual channels in terms of amplitude and phase, thereby resulting in an unadulterated and precise reproduction.



Airflexport



Bass reflex configurations set the scene by delving deeply into the bass range - but while there's an advantage there's also a disadvantage: high air speed in the bass reflex tube can result in disruptive flow noise. The Airflex port from Magnat, however, does not suffer from this issue. Thanks to the use of computer-optimised, generously dimensioned tubes with aerodynamically formed openings on both sides, disruptive ambient noise is effectively eliminated.



Bi-wiring Bi-amping

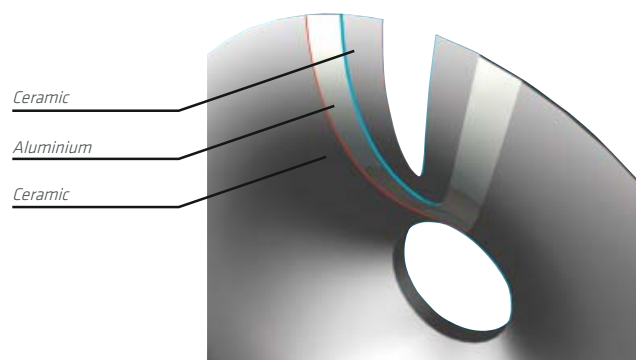


In a bi-wiring configuration the signals are sent to the speaker via two separate cables. This ensures maximum signal purity and direct connection of the amplifier to the bass and mid/treble range of the speaker. In a bi-amping configuration each speaker is driven via two amplifier channels to produce an optimum performance and create an exceptionally clean sound. A prerequisite for both configurations is a speaker with four terminals, which allows woofers and the mid/treble range unit to be controlled separately.

CAC - Ceramic Alu Cone



Magnat's engineers have developed the CAC cone speaker to ensure a particularly precise and smooth playback. A complex combination of aluminium and a ceramic layer creates an ideal mix of high internal damping and rigidity, which effectively prevents distorting partial oscillations and offers excellent characteristics with regard to the group delay.



CFC - Controlled Flexing Cone



The "Controlled Flexing Cone" represents a unique cone geometry used in Magnat's midrange and bass-midrange speakers. The special shape of the metal cone ensures controlled behaviour at higher frequencies. Instead of moving chaotically it emits bending waves in a controlled manner, which ensures a good-natured response in the upper midrange and enables a particularly harmonious connection to the tweeter.

CVS - Coil Ventilation System

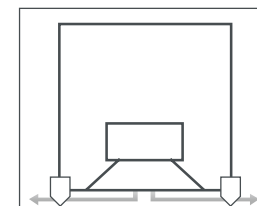


A high load capacity is immensely important for our high quality speakers; basically it's their life blood. As high power processing is always associated with a generation of heat, we attach significant importance to good heat dissipation. The drive systems used in Magnat's speakers are optimally cooled thanks to numerous ventilation measures in the baskets and voice coils, which guarantee high thermal loads and constant parameters. The result is a more precise and dynamic sound, even at a sustained high load.

Downfire System



"Downfire" is the term given to a technique in which the bass chassis radiates downwards. This technology is particularly favoured by enclosure subwoofers. The boundary surface (base plate) that is located at a defined distance to the cone enhances the connection to the surrounding air, which increases the sound pressure rating and simultaneously controls the movement of the cone. In addition, the unavoidable emission of unwanted tones from the midrange are significantly reduced. The result is a high degree of efficiency and an optimum pulse response for a clean bass range.

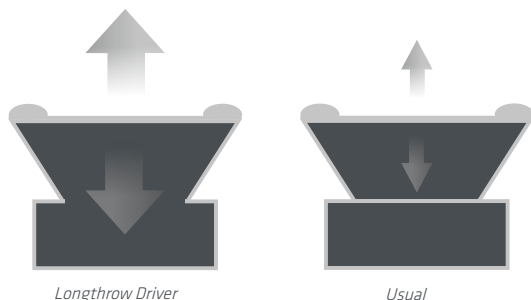


Downfire System

Driver Longthrow



Large excursions of the sound-generating cone are particularly important for subwoofers; they are crucial for listening to music at loud volumes and ensuring sufficient levels in a home cinema setup. Magnat's bass chassis with the "long throw driver" label are equipped with long throw drive systems that exhibit a linear operating principle, thereby ensuring optimum pulse fidelity, even when operated at high volumes. These enable an optimum movement of the cone that is proportional to the signal, which effectively reduces distortion and enhances the accuracy of the reproduction even when subjected to very high levels of excursion.



fmax Signature



The fmax Signature tweeter is a specially coated fabric dome developed by Magnat which generates a high-resolution reproduction and a broad frequency range. It is used in two different versions in the Quantum 1000 series and the Quantum 800 series. It is hand-coated with ceramic particles, double vented to prevent unbalancing effects and equipped with a particularly wide surround, which, together with the computer-optimised solid metal tweeter flange and the particularly powerful drive, ensure an optimised distribution of frequencies above 20 kHz.



fmax



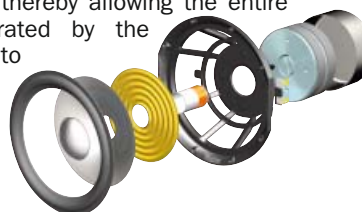
High-resolution music formats demand tweeters with an enhanced frequency range. In order to achieve such a performance, Magnat's fmax tweeters utilise an artificial silk dome with a particularly wide surround and a computer-optimised tweeter flange. This optimises dispersion properties and eliminates disruptive edge reflections. When used in combination with the powerful drive and ferrofluid-cooled voice coil, a transparent and phase-stable reproduction of the enhanced frequency range is guaranteed.



FE Driver Dynamics



Bass and midrange drivers that bear the FE Dynamics Driver seal are equipped with a computer-optimised and technically verified ferrite drive system. Non-magnetic baskets with voice coil ventilation and large basket openings ensure a high load capacity and a minimisation of electrical and mechanical losses, thereby allowing the entire operating energy generated by the powerful magnet system to be used for precise reproduction of the corresponding signals.



Klippel® Engineered



The construction of a speaker obeys the laws of physics. Selected lab equipment is essential to determine its properties. Magnat therefore relies on complex measuring technology and simulation software. The laser-assisted Klippel system enables measurements to be conducted in a real-world dynamic range, instead of only addressing the static parameters and simple acoustic measurements, which is the case for other conventional systems. All of the properties of a speaker chassis can thereby be determined more comprehensively and accurately and improved in the next step. The result is a more detailed speaker with lower distortions and an enhanced dynamic performance.

LPC – Linearisation and Protection Circuit



The LPC circuit is used in all of Magnat's active subwoofers. This is an active filter circuit for linearisation of the frequency response and protection from subsonic frequencies. It protects and effectively relieves the woofer and amplifier, thereby enabling them to focus fully on the reproduction range with the acquired reserves. It is also simultaneously optimises the bass response, thereby allowing the subwoofer to live up to its name and support the other speakers with a clean reproduction of the lowest frequencies.

Real Time Limiter



To enable our subwoofers to be operated cleanly to their limit without the risk of damage, all of the amplifiers in Magnat's subwoofers are equipped with a built-in "Real Time Limiter". The control circuit prevents hard limitation of the output signal (clipping) from occurring when the maximum power output is reached. This significantly reduces distortion and keeps harmful signals well away from the woofer. In addition, the subwoofer is also automatically protected against thermal and mechanical overload.

Quantum Technology



QUANTUM – At Magnat this term stands for the highest quality, innovation and state of the art technology. Prefabricated standard components are simply insufficient wherever music and vocals need to be reproduced with perfection. This exclusively requires specially developed technology and selected parts. Magnat therefore develops the components used for the Quantum speaker itself. The exclusivity of Magnat's speakers stands out with cutting edge technology, such as the "fmax Signature" dome tweeter, which is hand-coated with ceramic particles, and the midrange speakers with their "Controlled Flexing Cone" profile. By combining decades of experience and the motivation of Magnat's engineers to continuously create new and better products, we are able to achieve our aim of perfect audio reproduction.

Technical specifications

RV 3

	RV 3
Output power/Nominal	20 Hz – 20 kHz, THD < 1.0% 4 Ohm, 2 x 200 W 8 Ohm, 2 x 150 W
Peak	1 kHz, 4Ω: 2 x 350 W
Frequency response	CD/Tuner/Aux/Line/Tape: 20 Hz – 20 kHz (+/-0,2 dB) Phono: 20 Hz – 20 kHz (+/-0.2 dB) Phono Subsonic Filter: 16 Hz, 18 dB/Oct. CD/Tuner/Aux/Line/Tape: 5 Hz – 110 kHz (-3.0 dB) 20 Hz – 20 kHz (+/- 0.1 dB)
Input sensitivity	CD/Tuner/Aux/Line/Tape: 600mV/100kΩ Phono MC: 0,3mV/470Ω Phono MM: 3mV/47kΩ
Power consumption	Max 650 W
Mains voltage	230 VAC/50 Hz
S/N ratio	CD/Tuner/Aux/Line/Tape: 110 dB Phono MM: 90 dB Phono MC: 78 dB
Dimensions (WxHxD)	434 x 155 x 360 mm (410 mm incl. control elements)
Weight	19.5 kg
Color	Black

Amplifiers:

Frequency response:

- CD/Tuner/Aux/Line/Tape:
• 20 Hz – 20 kHz (+/-0,2 dB)
- Phono: 20 Hz – 20 kHz (+/-0.2 dB)
- Phono Subsonic Filter: 16 Hz, 18 dB/Oct.
- CD/Tuner/Aux/Line/Tape:
• 5 Hz – 110 kHz (-3.0 dB) 20 Hz – 20 kHz (+/-0.1 dB)

Highlights:

- Clear legible organic-LED display
- Elegant full-metal system remote for controlling

Cabinet:

- Open design with individual modules and solid heat sinks
- Sturdy solid metal housing with 8 mm front panel
- Solid aluminium control elements

Preamplifier:

- Low-noise tube amplifier with 2 x 12AU7/ECC 82 tubes
- Preselected and burned-in (60 hours) tubes produced in Russia
- Phono preamplifier with separate MM/MC inputs, low-noise operational amplifiers and subsonic filters

- High quality tube sockets with gold-plated contacts
- Input signal switching via high quality reed relays
- Volume control via high-precision motorised potentiometer from ALPS
- Low-loss WIMA audio capacitors in the signal path

Amplifier and power supply:

- Discrete high-performance amplifier with high quality power transistors from Toshiba
- Output rating of 200 watts of sine power per channel (4 ohms)
- Filter/electrolytic capacitor with a particularly large storage capacity
- Generously dimensioned toroidal transformer in a vibration-resistant and air-tight configuration
- Elaborate mains adapter with separately stabilised supply voltage for the individual circuits

Connections:

- Phono MM and MC inputs
- 4 high-level inputs
- Preamplifier output for connecting subwoofers or additional power amplifiers
- Headphone output with high quality 6.3 mm jack
- Record Out fixed level output
- Bi-wiring output terminal with large, insulated speaker terminals

M1000

	MA 1000	MCD 1050
Output power/Nominal	20 Hz – 20 kHz, THD < 1.0% 4 Ohm, 2 x 115 W 8 Ohm, 2 x 80 W	
Peak	1 kHz, 4Ω: 2 x 250 W	
Playable formats		CD-DA HDCD CD-R CD-RW
Digital inputs		USB 2.0, type B connector optical (Toslink™) coaxial (cinch) Supported sampling frequencies: 44.1/48/88.2/96/176.4/192kHz Supported bit depth: 16/24bits
Digital output		Optical and coaxial
Frequency response	CD/Tuner/Aux/Line/Tape: 5 Hz – 100 kHz (-3,0 dB) CD/Tuner/Aux/Line/Tape: 20 Hz – 20 kHz (+/-0,1 dB) Phono: 20 Hz – 20 kHz (+/-0,3 dB) Phono Subsonic Filter: 16 Hz, 18 dB/Oct.	CD: 5 Hz – 20 kHz (+/- 0.5 dB)
Input sensitivity	Phono MC: 0,3mV/470Ω CD/Tuner/Aux/Line/Tape: 400mV/100kΩ Phono MM: 2,5mV/47kΩ	
Impedance		2,0 V/10 Ohm
THD		< 0,0012%
Channel separation/		> 106 dB (1 kHz)
Power consumption	Max 420 W Standby < 0,5 W	Type 25 W Standby < 0,5 W
Mains voltage	230 VAC/50 Hz	230 VAC/50 Hz
S/N ratio	CD/Tuner/Aux/Line/Tape: 110 dB (A) Phono MM: 89 dB (A) Phono MC: 77 dB (A)	> 109dB (20Hz – 20kHz, A)
Dimensions (WxHxD)	434 x 125 x 330 mm (380 mm incl. controls and connectors) Remote control: 47 x 193 x 23 mm	434 x 90 x 330 mm (345 mm incl. controls and connectors) Remote control: 47 x 198 x 23 mm
Weight	11 kg	7.5 kg
Color	Black	Black

CD players:

Frequency response:

- CD: 5 Hz – 20 kHz (+/- 0.5 dB)

Highlights:

- Separate standby power-supply unit for low standby power consumption
- Elaborate power supply unit with R-core transformer
- Handy remote control to access all functions
- High-contrast, state-of-the-art "Organic LED" display
- Two different display modes available
- High quality headphone amplifier with volume adjustment via remote control

Cabinet:

- Sturdy case with milled 8 mm thick aluminium front
- Solid aluminium control elements

CD player:

- High-quality Pure CD drive with Sanyo laser unit
- Burr-Brown 24-bit digital-analogue converter
- Channel-separated tube output stage equipped with two ECC88 double triodes
- Preselected and burned-in (60 hours) tubes produced in Russia
- Philips CD controller unit
- Switchable up-sampling function (192 kHz/24 Bit) for CD and all digital inputs
- CD/track repeat function

Connections:

- Digital inputs (optical and coaxial) for sampling frequencies up to 192kHz/24Bit
- USB 2.0 input supports sampling frequencies up to 192kHz/24Bit
- Digital outputs (optical and coaxial)
- High-quality RCA output sockets

Amplifiers:

Frequency response:

- CD/Tuner/Aux/Line/Tape:
5 Hz – 100 kHz (-3,0 dB)
- CD/Tuner/Aux/Line/Tape:
20 Hz – 20 kHz (+/-0,1 dB)
- Phono: 20 Hz – 20 kHz (+/-0,3 dB)
- Phono Subsonic Filter: 16 Hz, 18 dB/Oct.

Highlights:

- High-quality full-metal system remote control for adjusting all functions
- Separate standby power-supply unit for low standby power consumption
- High-contrast, state-of-the-art "Organic LED" display

Cabinet:

- Sturdy solid metal housing with 8 mm front panel
- Solid aluminium control elements

Preamplifier:

- Low-noise tube amplifier with 2 x 12AU7/ECC 82 tubes
- Preselected and burned-in (60 hours) tubes produced in Russia
- Phono preamplifier with separate MM/MC inputs, low-noise operational amplifiers and subsonic filters
- High quality tube sockets with gold-plated contacts
- Input signal switching via high quality reed relays
- Volume control via high-precision motorised potentiometer from ALPS
- Low-loss WIMA audio capacitors in the signal path

Amplifier and power supply:

- Discrete high-performance amplifier with high quality power transistors from Toshiba
- Output rating of 115 watts of sine power per channel (4 ohms)
- Generously dimensioned toroidal transformer
- Filter/electrolytic capacitors with a particularly large capacity (4 x 10000 µF)
- Elaborate mains adapter with separately stabilised supply voltage for the individual circuits

Connections:

- Phono MM and MC inputs
- 4 high-level inputs
- Additional 3.5 mm audio input on the front for portable devices
- Preamplifier output for connecting subwoofers or additional power amplifiers
- Headphone output with high quality 6.3 mm jack
- Record Out fixed level output
- Bi-wiring output terminal with large, insulated speaker terminals

MA 600

MA 600	
Digital inputs	USB 2.0, type B connector optical (Toslink™) coaxial (cinch) Supported sampling frequencies: 44.1/48/88.2/96/176.4/192kHz Supported bit depth: 16/24bits
Output power/Nominal	20 Hz – 20 kHz, THD < 1.0%, 4 Ohm, 2 x 70 W 20 Hz – 20 kHz, THD < 1.0%, 8 Ohm, 2 x 55 W
Peak	1 kHz, 4Ω: 2 x 150 W
Frequency response	CD/Tuner/Aux/Line/Tape: 8 Hz – 120 kHz (-3,0 dB) Phono 20 Hz - 20 kHz (-1,0 dB) Phono Subsonic Filter: 16 Hz, 18 dB/Oct.
Input sensitivity	CD/Tuner/Aux/Tape: 500mV/100kΩ Phono: 5mV/470Ω
Power consumption	Max 250 W Standby <0,4 W
S/N ratio	CD/Tuner/Aux/Line/Tape: 100 dB Phono MM: 85 dB
Dimensions (WxHxD)	430 x 101 x 287 mm (330 mm incl. controls and connectors)
Weight	8.1 kg
Color	Black

Amplifiers:

Frequency response:

- CD/Tuner/Aux/Line/Tape:
- 8 Hz – 120 kHz (-3,0 dB)
- Phono 20 Hz - 20 kHz (-1,0 dB)
- Phono Subsonic Filter: 16 Hz, 18 dB/Oct.

Highlights:

- Easy-to-read alphanumeric display
- The latest high-end Bluetooth® 4.0 standard „aptX“ ensures the transmission of CD-quality music
- Remote control for all functions
- Simple, menu-guided operation

Cabinet:

- Sturdy case with milled 5 mm thick aluminium front
- Solid aluminium control elements

Preamplifier:

- Preset and burned-in (60 hours) tubes produced in Russia
- MM phono pre-amplifier with low noise operational amplifiers
- Input signal switching via high quality reed relays
- Low-noise tube amplifier with 1 x ECC 88 tube
- High quality tube sockets
- MM-phono preamplifier with low-noise operational amplifiers and subsonic filters
- Burr Brown digital-to-analogue converter

Amplifier and power supply:

- Wide-band high-performance power-amplifier chip
- Filter/electrolytic capacitor with a particularly large storage capacity
- Generously dimensioned toroidal transformer
- Elaborate mains adapter with separately stabilised supply voltage for the individual circuits
- Output rating of 70 watts of sine power per channel (4 ohms)
- One high-performance power chip for each channel

Connections:

- Phono MM input
- 4 high-level inputs
- Additional 3.5 mm audio input on the front for portable devices
- Digital inputs (optical and coaxial) for sampling frequencies up to 192kHz/24Bit
- USB 2.0 input supports sampling frequencies up to 192kHz/24Bit
- Headphone output with high quality 6.3 mm jack
- Record Out fixed level output
- Bluetooth® with aptX®

M500

MCD 550		MT 520
Technical specifications FM tuner		Tuner frequency range 87.5 – 108 MHz Audio frequency range 20 Hz – 15 kHz (+1dB/-3dB) Signal to noise ratio Mono > 74 dB, Stereo > 68 dB Harmonic distortion Mono: < 0,30 % Stereo < 0,45 %
Technical specifications DAB tunerx		Frequency range 174 – 240 MHz (Band III) Audio frequency range 20 Hz – 20 kHz (+/-1dB) Signal to noise ratio > 92 dB Harmonic distortion < 0,05 %
Playable formats	CD-Audio, CD-R, CD-RW, MP3	
Digital output	coaxial	
Frequency response	20 Hz – 20 kHz (+/- 0.5dB)	
THD	< 0,001 %	Mono < 0,30 % Stereo < 0,45 %
Channel separation/	> 88 dB (1kHz)	
Power consumption	Max 30 W Standby < 0,5 W	Max 30 W Standby < 0,5 W
Mains voltage	220 – 240 VAC/50 Hz	220 – 240 VAC/50 Hz
S/N ratio	> 105 dB (A) (20Hz – 20kHz)	Mono: > 74 dB Stereo: > 68 dB
Dimensions (WxHxD)	Main unit: 430 x 62 x 287 mm(295 mm incl. controls and connectors)Remote control: 54 x 140 x 11 mm	Main unit: 430 x 62 x 287 mm(295 mm incl. controls and connectors)Remote control: 54 x 140 x 11 mm
Weight	3 kg	3.1 kg
Color	Black	Black

CD players:

Frequency response:

- 20 Hz – 20 kHz (+/- 0.5dB)

Highlights:

- Easy-to-read alphanumeric display
- System remote control for all functions
- Short connecting paths due to accommodation of all important circuits on one circuit board
- Analogue filter stage and output stage with low-noise operational amplifiers
- Sophisticated power supply with separate voltage stabilization for the audio output stage
- Standby power supply for low power consumption in standby mode

Cabinet:

- Sturdy case with milled 5 mm thick aluminium front

CD player:

- High-quality CD drive with Sanyo pick-up
- Very precise and low-noise digital/analogue conversion thanks to combination of two converter stages:
- High-performance conversion of sampling frequencies (SRC circuit) with upsampling via linear interpolation
- High-quality Wolfson 24-bit digital/analogue converter
- Repeat function (title/CD)
- Random function

M500

FM/AM Tuners:

Highlights:

- Easy-to-read alphanumeric display
- System remote control for all functions
- Digital DAB/DAB+ tuner
- FM tuner
- RDS/radio text function
- 40 programmable station presets each for DAB/DAB+ and FM
- Station search (DAB)
- Automatic scanning function (FM)

Cabinet:

- Sturdy case with milled 5 mm thick aluminium front

Amplifier and power supply:

- Separate standby power-supply unit for low standby power consumption
- High-quality audio output stage with low-noise operational amplifiers
- Sophisticated power supply with separate voltage stabilization for the audio output stage

MA 400

	MA 400
Output power/Nominal	20 Hz – 20 kHz, THD < 1.0% 4 Ohm, 2 x 40 W 8 Ohm, 2 x 32 W
Peak	1 kHz, 4Ω: 150 W
Frequency response	CD/Tuner/Aux/Line/Tape: 8 Hz – 120 kHz (-3,0 dB) CD/Tuner/Aux/Line/Tape: 20 Hz – 20 kHz (+/-0,2 dB) Phono: 20 Hz – 20 kHz (+/-0,3 dB) Phono Subsonic Filter: 16 Hz, 18 dB/Oct.
Input sensitivity	CD/Tuner/Aux/Line/Tape: 550mV/10kΩ Phono MM: 2mV/47kΩ
Power consumption	Maximum 150 W Standby < 0,5 W
Mains voltage	230 VAC/50 Hz
S/N ratio	CD/Tuner/Aux/Line/Tape: 95 dB Phono MM: 80 dB
Dimensions (WxHxD)	430 x 91 x 287 mm (330 mm incl. control elements) Remote control: 54 x 140 x 11 mm
Weight	5.8 kg
Color	Black

Amplifiers:

Frequency response:

- CD/Tuner/Aux/Line/Tape:
8 Hz – 120 kHz (-3,0 dB)
- CD/Tuner/Aux/Line/Tape:
20 Hz – 20 kHz (+/-0,2 dB)
- Phono: 20 Hz – 20 kHz (+/-0,3 dB)
- Phono Subsonic Filter: 16 Hz, 18 dB/Oct.

Highlights:

- Easy-to-read alphanumeric display
- System remote control for all functions

Cabinet:

- Sturdy case with milled 5 mm thick aluminium front
- Control elements made from solid machined aluminium

Amplifier and power supply:

- Wide-band high-performance power-amplifier chip
- Tube preamplifier equipped with ECC88 double triodes
- Selected and burned-in (60 hours) tubes of Russian manufacture
- MM phono preamplifier with low-noise operational amplifiers
- Separate standby power-supply unit for low standby power consumption
- Elaborate power supply unit with generously dimensioned toroidal transformer

Connections:

- Phono MM input
- 4 high-level inputs
- Additional 3.5 mm audio input on the front for portable devices
- Headphone output
- Generously dimensioned and insulated loudspeaker connection terminals

QUANTUM SIGNATURE

QUANTUM SIGNATURE	
Principle	3-way bass reflex, triple bass
Equipment	30 mm tweeter 3 x 200 mm woofer 2 x 170 mm midrange
Power Handling (RMS/Max.)	400/700 watts
Sensitivity (2.8V/1m)	94 dB
Impedance	4 – 8 Ohm
Frequency Response	16 – 75.000 Hz
Crossover Frequencies	200 Hz/2.900 Hz
Recommended Amplifier Output	> 35 watts
Dimensions (WxHxD)	313 x 1410 x 465 mm
Weight	73 kg
Cabinet surface	Piano Black Piano White

Loudspeaker:

Highlights:

- High-quality internal Oehlbach® wiring
- Klippel® -optimised overall design
- Height-adjustable metal spikes included
- Removable protective fabric grille with optimum sound transmissivity and concealed magnet fastenings

Cabinet:

- Airflex ports with extremely large opening areas to guarantee best-possible bass coupling
- Double-walled side panels with varying material thickness to reduce case resonances
- Generous bracing inside the case with chassis support
- Sturdy and low-resonance MDF case
- Sturdy, MDF case with rounded sides and elaborate struts and decorative high-gloss front

Tweeter:

- f-max Signature tweeter with a particularly wide surround for optimised dispersion characteristics at frequencies above 20 kHz
- Sturdy aluminium flange with optimised acoustic channels
- Particularly lightweight cone construction consisting of semicrystalline polymer (PTFE) for maximum efficiency
- Copper cap-optimised drive system for minimum distortion
- Generous magnet ventilation with low natural resonance

Woofer/midrange:

- Generously vented die-cast basket for preventing turbulence and compression effects
- Distortion-optimised magnet system with double induction rings and stray field optimisation
- Kapton voice coil to minimise eddy current loss, thereby ensuring minimal distortion of the midrange
- „Controlled Flexing Cone“: Cone geometry for controlled dispersion of bending waves in the midrange, and with it the capability to reproduce a greater bandwidth
- High cone rigidity ensured by inverse ceramic/aluminium dust caps for the woofer and midrange
- Sophisticated voice coil ventilation for a particularly high degree of resilience

Crossover:

- 24 dB LKR topology with transformer core coils and audiophile PP capacitors
- Crossover on two separate circuit-boards to optimise use with bi-wiring
- Crossover mechanically isolated from the case

Connections:

- Matt gold-plated loudspeaker terminals sealed with acrylic
- Large bi-wiring terminal area with solid screw connections and high-quality cable bridges

QUANTUM EDELSTEIN

QUANTUM EDELSTEIN	
Principle	2-way bass reflex High-End-Bookshelf Speaker
Equipment	25 mm tweeter 4.5“ Woofer-midrange
Power Handling (RMS/Max.)	75/150 watts
Sensitivity (2.8V/1m)	90 dB
Impedance	4 – 8 Ohm
Frequency Response	34 – 50.000 Hz
Crossover Frequencies	2.500 Hz
Recommended Amplifier Output	> 30 watts
Dimensions (WxHxD)	135 x 232 x 246 mm
Weight	5 kg
Cabinet surface	Cabinet in high-gloss Black finish/front panel and base plate in brushed and anodised aluminium, base plate in polished acrylic glass Cabinet in high-gloss White finish/front panel and base plate in brushed and anodised aluminium, base plate in polished acrylic glass

Loudspeaker:

Cabinet:

- Sturdy MDF cabinet with high-quality glossy finish
- Solid aluminium front panel with machined and burnished sound guide for the bass-midrange driver and tweeter
- Double base plate manufactured from polished acrylic glass and solid aluminium, decoupled from one another
- Reinforcing board in the housing with chassis support for the bass-midrange, which ensures optimum low-resonance properties and minimal intrinsic vibration

Tweeter:

- Silk dome tweeter with a particularly wide surround for optimised dispersion characteristics at frequencies above 20 kHz
- Special sound guide in the aluminium front panel for optimum dispersion properties
- Mechanical coupling to the aluminium front panel for reduced intrinsic vibration
- High performance neodymium magnet system for excellent dynamics and a high resolution

midrange-woofer:

- Airflow-optimized, non-magnetic aluminium die-cast basket to prevent turbulence and compression effects to handle large cone excursions
- Distortion-optimised, powerful magnet system with induction ring and stray field optimisation, thereby ensuring minimal distortion and high efficiency
- Kapton voice coil to minimise eddy current loss, thereby ensuring minimal distortion of the midrange and optimised efficiency
- Aluminium/ceramic sandwich cone with an inverted dust cap for optimum rigidity with high internal damping

Crossover:

- Elaborate phase- and amplitude-optimised crossover equipped with high-quality and select components
- High-quality internal wiring
- Particularly low-impedance bass-midrange channel for minimal electrical loss

Connections:

- Milled aluminium terminal with gold-plated screw connectors encapsulated in acrylic

QUANTUM 1000 S

	QUANTUM 1009 S	QUANTUM 1003 S	QUANTUM CENTER 1000 S
Principle	3-way, bass reflex	2-way bass reflex	2-way bass reflex
Equipment	30 mm tweeter 170 mm midrange 2 x 200 mm woofer	30 mm tweeter 170 mm woofer-midrange	30 mm tweeter 2 x 6.5" Midrange-woofer
Power Handling (RMS/Max.)	330/620 watts	150/230 watts	180/280 watts
Sensitivity (2.8V/1m)	94 dB	91 dB	92 dB
Impedance	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm
Frequency Response	17 - 75.000 Hz	27 - 75.000 Hz	27 - 75.000 Hz
Crossover Frequencies	470 Hz/3.100 Hz	2.800 Hz	3.000 Hz
Recommended Amplifier Output	> 30 watts	> 30 watts	> 30 watts
Dimensions (WxHxD)	275 x 1250 x 390 mm	230 x 360 x 315 mm	586 x 205 x 315 mm
Weight	51.4 kg	11.4 kg	15.5 kg
Cabinet surface	Piano Black Piano White	Piano Black Piano White	Piano Black Piano White

Loudspeaker:

Cabinet:

- High-quality high-gloss varnish finish
- Double-walled side panels with varying material thickness to reduce case resonances
- Removable protective fabric grille with optimum sound transmissivity and concealed magnet fastenings
- Sturdy MDF cabinet with low-resonance baffle
- Extensive bracing inside the cabinet
- Resonance-absorbing supports behind all cone chassis
- M8 thread insert for cabinet feet, resonance-absorbing, threaded rubber feet for optimum floor protection included
- Specially coated Airflex ports with aerodynamically rounded openings ensure an optimum bass response without ambient noise

Tweeter:

- Solid aluminium front panel with computer-optimised sound guide
- Particularly lightweight cone construction consisting of semicrystalline polymer (PTFE) for maximum efficiency
- Copper cap-optimised drive system for minimum distortion
- Generous magnet ventilation with low natural resonance
- High-end dome tweeter with a particularly wide surround for optimised dispersion characteristics at frequencies above 20 kHz

Woofer/midrange:

- Generously vented die-cast basket for preventing turbulence and compression effects
- Controlled Flexing Cone: New type of cone geometry for controlled dispersion of bending waves in the mid-range and consequently better bandwidth

- Distortion-optimised magnet system with double induction rings and stray field optimisation
- High cone rigidity ensured by inverse ceramic/aluminium dust caps for the woofer and midrange
- Sophisticated voice coil ventilation for a particularly high degree of resilience

Crossover:

- 24 dB LKR topology with transformer core coils and audiophile PP capacitors
- Crossover mechanically isolated from the case
- High-quality internal Oehlbach® wiring
- Large, connecting plate with gold-plated speaker terminals encapsulated in acrylic
- Bi-wiring and bi-amping option, supplied with cable bridges for single-wire operation

QUANTUM 750

	QUANTUM 759 T.O.T.L	QUANTUM 757	QUANTUM 753	QUANTUM CENTER 73	QUANTUM 731 A
Principle	3-way, double bass, bass reflex	3-way, double bass, bass reflex	2-way bass reflex	2-way bass reflex, double bass	Bassreflex, down-fire
Equipment	25 mm tweeter 170 mm midrange 2 x 200 mm woofer	25 mm tweeter 170 mm midrange 2 x 170 mm woofer	25 mm tweeter 170 mm woofer-midrange	25 mm tweeter 2 x 130 mm woofer-midrange	300 mm woofer
Power Handling (RMS/Max.)	280/450 watts	220/350 watts	120/180 watts	120/180 watts	
Output power (RMS/Max.)					180/360 watts
Sensitivity (2.8V/1m)	94 dB	93 dB	91 dB	91 dB	
Impedance	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	
Frequency Response	19 - 50.000 Hz	20 – 50.000 Hz	30 – 50.000 Hz	30 – 50.000 Hz	18 - 200 Hz
Crossover Frequencies	330 Hz/2.800 Hz	250 Hz/2.800 Hz	2.800 Hz	2.800 Hz	Adjustable from 40 to 180 Hz
Phase					0° - 180° switchable
Recommended Amplifier Output	> 30 watts	> 30 watts	> 20 watts	> 20 watts	
Dimensions (WxHxD)	239 x 1211 x 373 mm	190 x 1062 x 370 mm	190 x 362 x 335 mm	470 x 170 x 295 mm	340 x 568 x 475 mm
Weight	32,3 kg	24.8 kg	9.2 kg	9.4 kg	26.1 kg
Cabinet surface	Piano Black/Black satin Piano White/White satin	Piano Black/Black satin Piano Black/Mocca veneer Piano White/White satin	Piano Black/Black satin Piano Black/Mocca veneer Piano White/White satin	Piano Black/Black satin Piano Black/Mocca veneer Piano White/White satin	Piano Black/Black satin Piano Black/Mocca veneer Piano White/White satin

Loudspeaker:

Cabinet:

- Airflex ports with extremely wideopenings for optimized bassconnection (Quantum 759 T.O.T.L)
- Airflex port with a large opening area to guarantee best bass coupling (Quantum 753, Quantum 757, Quantum Center 73)
- Large resonance absorbers (Quantum 753, Quantum 757, Quantum Center 73)
- Case in an elaborate silk-matt varnish or natural wood veneer finish (Quantum 759 T.O.T.L)
- Very sturdy and elegant design made from MDF boards with elaborate bracing
- 30 mm thick base plate in a high-gloss varnish finish (Quantum 753)
- 35 mm thick base plate in a high-gloss varnish finish (Quantum 757, Quantum 759 T.O.T.L)
- 40 mm thick, two-layer baffle in a high-gloss varnish finish (Quantum 753, Quantum Center 73)
- 45 mm thick, two-layer baffle in a high-gloss varnish finish (Quantum 757, Quantum 759 T.O.T.L)
- Removable cover frame
- Resonance-damping rubber feet, metal spikes included (Quantum 759 T.O.T.L)
- Metal spikes included (Quantum 757)

Tweeter:

- fmax tweeter with extended frequency range
- Sturdy aluminium/ABS flange with optimised acoustic channels
- Damped drilled pole core
- Dual compound fabric cone
- Double magnetic circuit with optimized stray field (Quantum 759 T.O.T.L)

Woofer/midrange:

- Distortion-optimised double magnet systems, magnetically shielded (Quantum Center 73)
- Ceramic/aluminium cones for highest quality playback
- Ventilated high-performance voice coils guarantee highest operational reliability
- Flow-optimised, non-magnetic die-cast aluminium baskets reduce air turbulence and resonances
- Woofer with long throw magnet system to minimize distortions (Quantum 759 T.O.T.L)
- Midrange with double magnet system to minimize distortions (Quantum 759 T.O.T.L)

Crossover:

- Elaborate phase- and amplitude-optimised crossover equipped with high-quality and select components
- High-quality internal wiring

Connections:

- Large connection panel with sturdy and encapsulated terminals to guarantee reliable contact even with high-quality cables possessing large cross-sections
- Bi-Wiring, Bi-Amping Option

Active subwoofers:

Cabinet:

- Down-fire construction
- Airflex port with a large opening area to guarantee best bass coupling
- Large resonance absorbers
- Very sturdy and elegant design made from MDF boards with elaborate bracing
- 35 mm thick base plate in a high-gloss varnish finish
- 45 mm thick, two-layer front panel in a high-gloss varnish finish

Woofer/midrange:

- high-power long-throw woofer
- Coated and hardened paper cone guarantees deep-reaching reproduction with simultaneous pulse fidelity
- Ventilated high-performance voice coil to guarantee highest operational reliability
- Klippel® -optimised magnet system

Amplifier and power supply:

- Active frequency-response equalisation up to 180 Hz for easy integration into AV environments
- Real-time limiter minimises distortion and prevents the loudspeaker from being overloaded
- Adjustable volume and crossover frequency
- Phase switchable from 0° to 180°
- Separate standby power-supply unit for low standby power consumption
- Mains switch
- Clearly arranged control panel made ofbrushed aluminium with large heatsink

Connections:

- Low-level stereo inputs
- High-level stereo inputs
- LFE input

QUANTUM 720

	QUANTUM 727	QUANTUM 725	QUANTUM 723	QUANTUM CENTER 72	QUANTUM 7230A
Principle	3-way, bass reflex	2,5-way, bass reflex	2-way bass reflex	2-way bass reflex, double bass	Active bass-reflex subwoofer, down-fire
Equipment	30 mm tweeter 170 mm midrange 2 x 170 mm woofer	30 mm tweeter 170 mm woofer-midrange 1 x 170 mm woofer	30 mm tweeter 170 mm woofer-midrange	30 mm tweeter 2 x 6.5" Midrange-woofer	300 mm Woofer
Power Handling (RMS/Max.)	200/350 watts	180/320 watts	110/180 watts	120/200 watts	
Output power (RMS/Max.)					180/360 watts
Sensitivity (2.8V/1m)	93 dB	92 dB	91 dB	91 dB	
Impedance	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	
Frequency Response	22 - 52.000 Hz	22 - 52.000 Hz	30 - 52.000 Hz	32 – 52.000 Hz	
Crossover Frequencies	280 Hz/3.200 Hz	260 Hz, 3.200 Hz	3.100 Hz	2.600 Hz	Adjustable from 50 to 150 Hz
Phase					0° - 180° switchable
Recommended Amplifier Output	> 30 watts	> 30 watts	> 20 watts	> 20 watts	
Dimensions (WxHxD)	200 x 1055 x 310 mm 290 x 1100 x 310 mm (incl. base)	200 x 975 x 310 mm 290 x 1030 x 310 mm (incl. base)	200 x 355 x 310 mm	518 x 185 x 310 mm	420 x 545 x 500 mm
Weight	18.7 kg	16.5 kg	6.7 kg	9.5 kg	22.4 kg
Cabinet surface	Black Satin/Ash Decor Black Black Satin/Mocca Decor	Black Satin/Ash Decor Black Black Satin/Mocca Decor	Black Satin/Ash Decor Black Black Satin/Mocca Decor	Black Satin/Ash Decor Black Black Satin/Mocca Decor	Black Satin/Ash Decor Black Black satin/Ash decor Black

Loudspeaker:

Cabinet:

- Airflex port with rounded reflex opening for reducing wind noises
- Baffle in a silk-matt varnish finish
- Sturdy MDF case with rounded sides and low-resonance 25 mm baffle
- Removable protective fabric grille with optimum sound transmissivity and concealed magnet fastenings (Quantum 725, Quantum 727, Quantum Center 72)
- Removable fabric protection grille with optimum sound transmission and invisible magnet attachment (Quantum 723)
- Solid cross beams made of painted MDF with height-adjustable massive metal cone spikes (Quantum 725, Quantum 727)
- Exchangeable metal/rubber spike tips for an optimum adaptation to the floor type (Quantum 725, Quantum 727)

Tweeter:

- HRH tweeter with 30 mm cloth dome, special damping and ferrofluid-cooling, big surround and aluminium Harmonic Radiation Horn

Midrange-woofer:

- Ceramic-aluminium cone
- FE-Dynamics bass/mid-range loudspeaker
- Ventilated voice-coil unit for maximum resilience
- Klippel®-optimised overall design
- Solid metal basket with generous ventilation openings
- Solid aluminum cover rings

Crossover:

- Amplitude- and phase-optimised crossover with acoustic 24 dB filters and high-quality components
- Big Bi-Wiring/Bi-Amping connecting terminal with big screw connectors and gold-plated contacts

Active subwoofers:

Amplifiers:

- Real-time limiter minimises distortions and prevents overloading
- Active frequency response equalization up to 150 Hz (LPC circuit) for seamless integration in AV environments
- Automatic standby function with low power consumption <0.5 watts (can be switched off)
- Selectable mains voltage (115/230 V)

- Power switch
- Switchable phase 0°/180°
- Adjustable volume and crossover frequency

Cabinet:

- "Down-firing" principle
- Two generously dimensioned Airflex ports with low flow resistance
- Sturdy MDF housing with rounded sides, elaborate bracing and decorative silk matt front panel
- Sturdy, silk matt lacquered base plate with resonance-damping rubber spikes

Woofer:

- Coated and hardened paper cone guarantees deep-reaching reproduction with simultaneous pulse fidelity
- Ventilated high-performance voice coil to guarantee highest operational reliability
- 300 mm high-power long-throw woofer with Klippel®-optimised magnet system

Connections:

- Stereo low level inputs (RCA connections)
- Stereo high level inputs (screw terminals)
- Mains supply

QUANTUM 670

	QUANTUM 677	QUANTUM 675	QUANTUM 673	QUANTUM CENTER 67	QUANTUM 6725 A
Principle	3-way, bass reflex	2,5-way, bass reflex	2-way bass reflex	2-way bass reflex, double bass	Active bass-reflex subwoofer, down-fire
Equipment	30 mm tweeter 170 mm midrange 2 x 170 mm woofer	30 mm tweeter 170 mm woofer-midrange 1 x 170 mm woofer	30 mm tweeter 170 mm woofer-midrange	30 mm tweeter 2 x 130 mm woofer-midrange	10" subwoofer
Power Handling (RMS/Max.)	200/350 watts	180/300 watts	100/180 watts	100/180 watts	
Output power (RMS/Max.)					175/350 watts
Sensitivity (2.8V/1m)	93 dB	92 dB	91 dB	91 dB	
Impedance	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	
Frequency Response	20 – 50.000 Hz	22 – 50.000 Hz	30 – 50.000 Hz	32 - 50.000 Hz	19 - 300 Hz
Crossover Frequencies	300 Hz, 3.100 Hz	250 Hz, 3.100 Hz	3.100 Hz	2.600 Hz	Adjustable from 50 to 150 Hz
Phase					0° - 180° switchable
Recommended Amplifier Output	> 30 watts	> 30 watts	> 30 watts	> 20 watts	
Dimensions (WxHxD)	202 x 1080 x 316 mm	202 x 995 x 316 mm	202 x 350 x 280 mm	490 x 175 x 280 mm	320 x 490 x 455 mm
Weight	19.5 kg	17 kg	6.8 kg	9.2 kg	19.5 kg
Cabinet surface	Piano Black/Ash decor Black Piano Black/Ash decor mocca	Piano Black/Ash decor Black Piano Black/Ash decor mocca	Piano Black/Ash decor Black Piano Black/Ash decor mocca	Piano Black/Ash decor Black Piano Black/Ash decor mocca	Piano Black/Ash decor Black Piano Black/Ash decor mocca

Loudspeaker:

- Highlights:**
- Klippel® -optimised overall design

Cabinet:

- Airflex ports with extremely large opening areas to guarantee best-possible bass coupling
- Baffle in a high-quality varnished finish
- Sturdy MDF case with rounded sides and low-resonance 25 mm baffle
- Solid base plate (Quantum 675, Quantum 677)
- Removable protective grille with optimised acoustic transmissivity
- Metal spikes included (Quantum 675, Quantum 677)

Tweeter:

- Second-generation harmonic radiation horn (HRH) tweeter with 30 mm fabric dome, special damping, ferrofluid cooling and wide surround

Woofer/midrange:

- FE-Dynamics bass/mid-range loudspeaker with ceramic-aluminium cones, 25 mm voice-coil unit and a flow-optimised basket made from carbon-fibre composite

Crossover:

- High-quality internal wiring

Connections:

- Large bi-wiring terminal with solid screw connections (Quantum Center 67)
- Large bi-wiring terminal area with solid screw connections (Quantum 673, Quantum 675, Quantum 677)

Active subwoofers:

Cabinet:

- Down-fire construction
- Airflex port with low flow resistance
- Sturdy, MDF case with rounded sides and elaborate struts and decorative high-gloss front
- Resonance-damping rubber feet, metal spikes included

Woofer/midrange:

- high-power long-throw woofer
- Linearised double-magnet system

Amplifier and power supply:

- Active frequency-response equalisation up to 200 Hz for easy integration into AV environments
- Real-time limiter
- Adjustable volume and crossover frequency
- Phase switchable from 0° to 180°
- Automatic standby circuit
- Selectable mains voltage (115/230 V)
- Mains switch
- Low stand-by power consumption

Connections:

- High level input
- Low-level input

SHADOW

	SHADOW 209	SHADOW 207	SHADOW 205	SHADOW 203	SHADOW CENTER 213	SHADOW SUB 300A
Principle	3-way, bass reflex	3-way, bass reflex	2,5-way, bass reflex	2-way bass reflex	2-way bass reflex	Active bass-reflex subwoofer, down-fire
Equipment	3 x 170 mm Tieftöner 30 mm tweeter 170 mm midrange	30 mm tweeter 170 mm midrange 2 x 170 mm woofer	30 mm tweeter 170 mm woofer-midrange	30 mm tweeter 170 mm woofer-midrange	30 mm tweeter 2 x 130 mm woofer-midrange	300 mm Woofer
Power Handling (RMS/Max.)	220/360 watts	180/340 watts	160/300 watts	90/160 watts	90/160 watts	
Sensitivity (2.8V/1m)	92 dB	92 dB	92 dB	91 dB	91 dB	
Impedance	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	
Frequency Response	20 – 48000 Hz	22 – 48.000 Hz	24 – 48.000 Hz	32 – 48.000 Hz	34 – 48.000 Hz	19 – 200 Hz
Crossover Frequencies	280 Hz/3.000 Hz	280 Hz/3.000 Hz	280 Hz/3.000 Hz	3.000 Hz	3.000 Hz	Adjustable from 50 to 150 Hz
Recommended Amplifier Output	> 30 watts	> 30 watts	> 30 watts	> 20 watts	> 20 watts	
Dimensions (WxHxD)	190 x 1150 x 350 mm	190 x 1070 x 350 mm	190 x 1000 x 350 mm	190 x 350 x 300 mm		345 x 495 x 420 mm
Weight	22.5 kg	19.8 kg	17.6 kg	6.5 kg	8.5 kg	19.5 kg
Cabinet surface	Piano Black/Ash decor Black Piano White/White decor	Piano Black/Ash decor Black Piano White/White decor	Piano Black/Ash decor Black Piano White/White decor	Piano Black/Ash decor Black Piano White/White decor	Piano Black/Ash decor Black Piano White/White decor	Piano Black/Ash decor Black Piano White/White decor

Loudspeaker:

Highlights:

- Resonance-damping rubber feet included (Shadow 203, Shadow Center 213)
- Resonance-damping rubber feet and metal spikes included (Shadow 205, Shadow 207, Shadow 209)

Cabinet:

- Airflex port with rounded reflex opening for reducing wind noises
- Sturdy and low-resonance case design with E1 MDF wooden boards
- Removable fabric cover
- Baffle in high-gloss lacquering

Tweeter:

- New developed 30 mm fmax tweeter with a particularly wide surround, soundguide in the front plate for optimised dispersion properties and powerful drive for excellent dynamics

Woofer/midrange:

- Coated paper cone
- Ventilated voice-coil unit for maximum resilience
- Non-magnetic, fibre-reinforced cast ABS basket
- Klippel® -optimised overall design
- FE-Dynamics woofer-midrange

Crossover:

- Amplitude- and phase-optimised crossover with acoustic 24 dB filters and high-quality components
- Big Bi-Wiring/Bi-Amping connecting terminal with big screw connectors and gold-plated contacts (Shadow 203, Shadow 205, Shadow 207, Shadow 209)
- Large connection panel with generously dimensioned screw terminals and gold-plated contacts (Shadow Center 213)

Active subwoofers:

Amplifiers:

- Real-time limiter minimises distortions and prevents overloading
- Active frequency response equalization up to 150 Hz (LPC circuit) for seamless integration in AV environments
- Automatic standby function with low power consumption <0.5 watts (can be switched off)
- Selectable mains voltage (115/230 V)
- Power switch
- Switchable phase 0°/180°
- Adjustable volume and crossover frequency

Cabinet:

- Sturdy MDF case front in a high-gloss varnish finish
- 'Down-firing' principle
- Two generously dimensioned Airflex ports with low flow resistance
- Sturdy feet with large silicon base

Woofer:

- Coated and hardened paper cone guarantees deep-reaching reproduction with simultaneous pulse fidelity
- Ventilated high-performance voice coils guarantee highest operational reliability
- 300 mm high-power long-throw woofer with Klippel® -optimised magnet system

Connections:

- Stereo low level inputs (RCA connections)
- Stereo high level inputs (screw terminals)
- Mains supply

TEMPUS

	TEMPUS 77	TEMPUS 55	TEMPUS 33	TEMPUS CENTER 22	TEMPUS SUB 300A
Principle	3-way, bass reflex	2,5-way, bass reflex	2-way bass reflex	2-way bass reflex	Active bass-reflex subwoofer, front-firing
Equipment	25 mm tweeter 170 mm midrange 2 x 170 mm woofer	25 mm tweeter 170 mm woofer-midrange 1 x 170 mm woofer	25 mm tweeter 170 mm woofer-midrange	25 mm tweeter 2 x 130 mm woofer-midrange	300 mm Woofer
Power Handling (RMS/Max.)	175/320 watts	150/280 watts	85/150 watts	85/150 watts	
Output power (RMS/Max.)					120/240 watts
Sensitivity (2.8V/1m)	92 dB	92 dB	91 dB	91 dB	
Impedance	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	
Frequency Response	22 - 45.000 Hz	24 - 45.000 Hz	33 - 45.000 Hz	34 - 45.000 Hz	20 – 200 Hz
Crossover Frequencies	320/3.300 Hz	350/3.300 Hz	3.300 Hz	3.300 Hz	Adjustable from 50 to 150 Hz
Phase					0° - 180° switchable
Recommended Amplifier Output	> 30 watts	> 30 watts	> 20 watts	> 20 watts	
Dimensions (WxHxD)	200 x 1005 x 320 mm 295 x 1025 x 320 mm (incl. base)	200 x 880 x 320 mm 295 x 900 x 320 mm (incl. base)	200 x 345 x 270 mm	460 x 180 x 230 mm	355 x 447 x 422 mm 355 x 447 x 445 mm (incl. base)
Weight	15.5 kg	13 kg	5 kg	6 kg	16.3 kg
Cabinet surface	Ash decor Black Ash decor mocca	Ash decor Black Ash decor mocca	Ash decor Black Ash decor mocca	Ash decor Black Ash decor mocca	Ash decor Black Ash decor mocca

Loudspeaker:

Cabinet:

- Airflex port with rounded reflex opening for reducing wind noises
- Sturdy and low-resonance case design with E1 MDF wooden boards
- Removable fabric cover
- Resonance-damping rubber feet, metal spikes included (Tempus 55, Tempus 77)
- Sturdy base struts for stability (Tempus 77)
- Resonance-damping rubber spikes included in delivery (Tempus Center 22)

Tweeter:

- Newly developed 25 mm fmax dome tweeter with dispersion-optimized sound guide and powerful neodymium drive for an optimum resolution

Woofer/midrange:

- Coated paper cone
- Ventilated voice-coil unit for maximum resilience
- Klippel®-optimised overall design
- FE-Dynamics woofer-midrange
- Solid metal basket with generous ventilation openings
- Cover rings for bass and mid-range speakers in a high quality metal finish

Crossover:

- Amplitude- and phase-optimised crossover with acoustic 24 dB filters and high-quality components
- Big Bi-Wiring/Bi-Amping connecting terminal with big screw connectors and gold-plated contacts (Tempus 55, Tempus 77, Tempus Center 22)
- Large connection panel with generously dimensioned screw terminals and gold-plated contacts (Tempus 33)

Active subwoofers:

Amplifiers:

- Mains voltage 110 – 240V
- Active frequency response equalization up to 150 Hz (LPC circuit) for seamless integration in AV environments
- Automatic standby function with low power consumption <0.5 watts (can be switched off)
- Power switch
- Switchable phase 0°/180°
- Adjustable volume and crossover frequency
- High performance class-D amplifier

Woofer:

- 300 mm high-power long-throw woofer with Klippel®-optimized magnet system
- Ventilated high-performance voice coil to guarantee highest operational reliability
- The coated paper cone ensures a profound audio reproduction

Cabinet:

- Front-fire construction
- Two generously dimensioned Airflex ports with low flow resistance
- Sturdy MDF housing with elaborate bracing and removable front grille
- Resonance-damping rubber spikes included in delivery

Connections:

- Low-level stereo inputs
- High-level stereo inputs
- Mains supply

CS SERIE

	CS 10	CS 40
Frequency Response	70-18.000 Hz	70-18.000 Hz
Principle	Two-way stereo active loudspeaker	Two-way stereo active loudspeaker
Equipment	25 mm dome tweeter 1 x 120 mm fullrange loudspeaker	1 x passive radiator 2 x 25 mm dome tweeter 2 x 120 mm woofer-midrange
Weight	1,49 kg	4,85 kg
Dimensions (WxHxD)	180 x 131 x 90 mm	412 x 230 x 172 mm
Cabinet surface	Black with anthracite-coloured metal speaker cover White with silver-coloured metal speaker cover	Black with anthracite-coloured metal speaker cover
Multiaudio	If several CS 10 speakers are being operated in one WLAN network, each speaker can play different music (limited to 10 speakers approximately/depending on WLAN/internet data transfer). Volume individually adjustable for each speaker via the control app.	
Output power	15 watts	50 watts

WLAN Speaker:

Control:

- Via Qualcomm app for iOS and Android phones and tablets

APPS, IOS APPLE APP STORE (IPHONE), ANDROID GOOGLE PLAY STORE:

- AllPlay Radio: AllPlay Radio (eMbyence Inc.) = internet radio app
- AllPlay Jukebox: AllPlay Jukebox (eMbyence Inc.) = control app for music services, network hard drives, playing back music from the phone

WLAN:

- Supported frequencies: 2.4 GHz and 5 GHz (dual band) (CS 10, CS 40)
- WLAN standard: 802.11 a/b/g/n (CS 10, CS 40)
- Encryption: WPA2 (CS 10, CS 40)
- Operating range: up to 100 m depending on WLAN supply (CS 10, CS 40)

Equipment:

- On/off switch for internal battery on the back (CS10)
- Automatic power down of the CS 40, if no audio input signal received for 15 minutes
- Built-in Lan socket
- Built-in AUX audio input via 3.5 mm jack socket on the back of the CS 40
- 3 sensor buttons (volume, +/- and mute)
- Internal power supply 100-240 V AC 150 watts (CS40)
- External power supply AC 230V AC/ DC 12V 2A 24 watts (CS 10)
- Multicolour status LED: orange = AUX input connected White = start/operation red = standby green = reset and software update

Multiaudio:

- If several CS 10 speakers are being operated in one WLAN network, each speaker can play different music (limited to 10 speakers approximately/depending on WLAN/internet data transfer)
- Volume individually adjustable for each speaker via the control app

Multiroom:

- Up to 10 loudspeakers can be operated in one network

Grouping:

- Individual speakers can be "joined together" to form groups with the same music. Within a group the volume can be adjusted via the master volume or for each CS speaker individually. Furthermore different groups can be formed or f.i. a group for "party mode"

Output power:

- 50 watts (CS 40)
- 15 watts (CS 10)

MAGNASPHERE

	MAGNASPHERE 33	MAGNASPHERE 55
Principle	2-way bass reflex, fully active	2 ½-way bass reflex, fully active
Equipment	25 mm tweeter 170 mm woofer-midrange	25 mm tweeter 170 mm woofer-midrange 1 x 170 mm woofer
Power Handling (RMS/Max.)	Active	Active
Power output overall	65/110 watts	100/180 watts
Sensitivity (2.8V/1m)	active	active
Impedance	active	active
Frequency Response	28 - 50.000 Hz	24 - 50.000 Hz
Crossover Frequencies	2.750 Hz	320/2.750 Hz
Dimensions (WxHxD)	196 x 325 x 285 mm	196 x 955 x 330 mm
Weight	6.6 kg	18.4 kg
Cabinet surface	Black satin White silk matt	Black satin White silk matt

Loudspeaker:

Power output overall:

- 65/110 watts (Magnasphere 33)
- 100/180 watts (Magnasphere 55)

Amplifiers:

- A powerful class D amplifier module per speaker with 100 watts RMS/Max each
- Fully active amplifier modules (one amplifier each for the woofer, woofer-midrange and tweeter)
- DSP-controlled digital filter
- Adjustable bass and trebles (-2dB/0dB/+2dB) for individual sound settings
- Three-digit 7-segmet-LED-display on the speaker front
- Complete system control via supplied solid metal remote control (batteries included)
- Mains voltage 110 – 240V
- Low standby power consumption of the speakers <0.5 watts
- Power supply 100 – 240 VAC 50/60 Hz

Chassis:

- fmax tweeter with enhanced frequency range, dual compound fabric dome and neodymium drive
- Fmax tweeter with advanced frequency range, dual-compound cloth dome and neodymium drive
- Flow-optimised non-magnetic speaker baskets made of carbon fiber composite material, fixed by 8 screws

Highlights:

- Fully active bookshelf speaker stereo set with separate transmitter (Magnasphere 33)
- Fully active floorstanding speaker/stereo set with separate transmitter unit (Magnasphere 55)
- Wireless high-end speaker system
- Very interference-resistant easy-to-install digital wireless system
- Compact transmitter unit with numerous inputs (2x analog, 2x digital, USB Audio, Bluetooth® /Qualcomm® aptX™)
- Fully active, DSP-filtered loudspeakers with Quantum technology
- Elegant cabinet design with matte painted surfaces
- Multizone function with up to 3 loudspeaker zones

Cabinet:

- Very solidly constructed housing made of E1 MDF panels
- Elegant design in a Black or White silk matt lacquer finish with rounded vertical edges
- Sturdy base plate
- Removable speaker grille with acoustic material and invisible magnetic mount
- Bass reflex configuration with flow-optimized reflex port
- Screwed-in rubber spikes for stability on any surface

SBW 250

SBW 250	
Principle	powered bass-reflex subwoofer 2 x 2-way systems, active
Equipment	2 x 25 mm dome tweeter 4 x 35x90 mm woofers 1 x 200 mm Subwoofer
Power output overall	180/360 watts
Output power (RMS/Max.)	4 x 20/40 watts (L+R channel) 1 x 100/200 watts (Subwoofer)
Frequency Response	25 - 28.000 Hz
Crossover Frequencies	180/3.100 Hz
Dimensions (WxHxD)	1000 x 79 x 60 mm (Soundbar) 196 x 334 x 370 mm (Subwoofer)
Weight	2.5 kg (Soundbar) 6.9 kg (Subwoofer)
Cabinet surface	Black

Active loudspeakers:

Power output overall:
• 180/360 Watts

Technology:

- Two high-quality stereo 2-way systems with 2 dome tweeters and 4 midranges (Soundbarbar)
- 4-channel power amplifier (separate amplifiers for tweeter and midranges) with digital filtering for best dynamic and sound quality (Soundbarbar)
- 5-digit alphanumeric LED display (Soundbarbar)
- Basic functions can be controlled via a lateral panel (Soundbar)
- Sturdy plastic cabinet ready for wall-mounting (Soundbar)
- Low standby power consumption: <0.5 Watts (Soundbar)
- Separate powered sidefire subwoofer with powerfull long-throw drivers (Subwoofer)
- Digital signal transmission from the soundbar to the subwoofer (2.4GHz standard) (Subwoofer)
- Air-flow optimised bass reflex opening on the front (Subwoofer)
- Elegant and compact cabinet design (Subwoofer)
- Sturdy wooden MDF cabinet (Subwoofer)
- Low standby power consumption: <0.5 Watts (Subwoofer)

Highlights:

- Entirely controlled through the system remote control
- The latest high-end Bluetooth® 4.0 standard „aptX“ ensures the transmission of CD-quality music
- Dolby® Digital decoder (for HDMI® and digital input)

- Easy to install due to numerous inputs, can be connected directly to the TV due to HDMI®
- HDMI® with ARC and CEC function (Sounddeck can be controlled via TV remote control)
- Night mode with reduced dynamic for use at volume-sensitive times
- Easy-to-read LED info display on the front panel
- Fully-fledged, dynamic home cinema sound from a slim soundbar and a wirelessly controlled high-performance subwoofer (SBW 250)
- 3 additional HDMI® audio/video inputs with loss-free video repeater function, ultra-HD compatible (4K)
- Perfect integration in the living room through the slim soundbar with a sturdy wall bracket and compact subwoofer
- Additional bass and treble controls (via the menu) for optimum sound adjustment
- Lip synchronisation function for lipsync sound reproduction
- Fully-fledged, dynamic home cinema sound from a slim soundbar and a wirelessly controlled high-performance subwoofer (SBW 250)

Connections:

- HDMI® -ARC input for direct connection to the TV
- Optical digital input
- HDMI® -CEC function: Control via TV remote control (if the TV supports this function)
- 3 additional HDMI® audio/video inputs with video repeater function up to 4K resolution (the video signal is output to the HDMI® /ARC port)
- Bluetooth® with Qualcomm® aptX™

SOUNDDECK 150

SOUNDDECK 150	
Principle	2 x 2-way systems at the front, integrated vented subwoofer
Equipment	2 x 20 mm dome tweeter 4 x 1.8" midrange 1 x 5.25" subwoofer
Output power (RMS/Max.)	100/200 watts
Frequency Response	28 - 26.000 Hz
Crossover Frequencies	200/3.0000 Hz
Dimensions (WxHxD)	700 x 80 x 340 mm
Weight	6 kg
Cabinet surface	Black

Active loudspeakers:

Highlights:

- Entirely controlled through the system remote control
- Separate standby power-supply unit for low standby power consumption
- Fully-fledged and dynamic home cinema sound from a single speaker system
- Perfect integration into the living room underneath flat screen TVs thanks to its flat construction
- Realistic, DSP-controlled 3D surround sound for movies and music (Sounddeck 150)
- Dolby® Digital decoder (for HDMI® and digital input)
- Easy to install due to numerous inputs, can be connected directly to the TV due to HDMI®
- Night mode with reduced dynamic for use at volume-sensitive times
- Bluetooth® with the latest high-end audio standard „aptX® “ ensures the transmission of CD-quality music
- Realistic, DSP-controlled 3D surround sound for movies and music (Sounddeck 150)

- Easy-to-read LED info display on the front panel
- Various connecting cables included
- Built-in downfire subwoofer with powerful long-throw driver on the bottom of the housing
- Air-flow optimised bass reflex opening for the subwoofer on the back

Cabinet:

- Noble, flat cabinet
- Sturdy and low-resonance MDF case

Connections:

- Digital input (optical)
- Digital input (coaxial)
- HDMI® -ARC input for direct connection to the TV
- HDMI® -CEC function: Control via TV remote control (if the TV supports this function)
- Bluetooth® with aptX®
- Analogue RCA input
- USB input to playback MP3 and WMA files

CINEMA ULTRA

	CINEMA ULTRA LCR 100-THX	CINEMA ULTRA RD 200-THX	CINEMA ULTRA SUB 300-THX	CINEMA ULTRA AEH 400-ATM
Principle	THX Ultra2-certified LCR Speaker 2-way, sealed	2-way, sealed THX Ultra2-certified dipole surround Speaker	THX Ultra2-certified active high-performance subwoofer Dual passive radiator	Dolby Atmos-enabled high-performance add-on loudspeaker with direct-radiating mode
Equipment	2 x 6.5" Midrange-woofer 1.65" dome-tweeter	170 mm woofer-midrange 2 x 1.65" dome-tweeter	320 mm subwoofer 2 x 320 mm passive radiator	1 x 5,25" coaxial speaker
Power Handling (RMS/Max.)	220/350 watts	150/240 watts		50/120 watts
Output power (RMS/Max.)			550/1100 watts	
Sensitivity (2.8V/1m)	93 dB	89 dB		89 dB
Impedance	4 – 8 Ohm	4 – 8 Ohm		6 ohms
Frequency Response	80 - 27.000 Hz	80 - 27.000 Hz	18 - 200 Hz	45 – 37.000 Hz
Crossover Frequencies	1.550 Hz	1.500 Hz	THX: without filtering Line-Modus: 40-180 Hz	Atmos-Modus: 3.200 Hz Direct-Modus: 3.300 Hz
Phase			0° to 180° continuously variable	
Recommended Amplifier Output	> 50 watts	> 40 watts		20 - 120 watts
Dimensions (WxHxD)	280 x 520 x 188 mm	400 x 300 x 160 mm	468 x 461 x 460 mm 468 x 461 x 478 mm (incl. amplifier)	280 x 150 x 188 mm
Weight	12.5 kg	7.6 kg	32,5 kg	3.7 kg
Cabinet surface	Front: Black silk matt/body: textured film - anthracite	Front: Black silk matt/body: textured film - anthracite	Front: Black silk matt/body: textured film - anthracite	Front: Black silk matt/body: textured film - anthracite

Loudspeaker:

High-performance front loudspeaker:

- THX Ultra2-certified front loudspeaker/centre loudspeaker for the Magnat Cinema Ultra set (Cinema Ultra LCR 100-THX)
- Can be operated in a vertical or horizontal position, ensuring maximum set-up flexibility (Cinema Ultra LCR 100-THX)
- All of the chassis have been specially developed for the Cinema Ultra set in order to meet the very strict requirements of the THX Ultra2 standard (Cinema Ultra LCR 100-THX)
- The loudspeaker chassis are identical to the dipole surround sound loudspeaker RD 200-THX for optimum tonal harmony (Cinema Ultra LCR 100-THX)
- Particularly tight-fitting chassis layout and specially tuned crossover for uniquely homogeneous horizontal and vertical dispersion characteristics (Cinema Ultra LCR 100-THX)
- Perfect tonal harmony through identical loudspeakers for all three front channels (Cinema Ultra LCR 100-THX)
- Top acoustic performance through individual components developed for high performance in all details (Cinema Ultra LCR 100-THX)
- Markedly compact and flat enclosure for easy and unobtrusive integration into every home cinema system (Cinema Ultra LCR 100-THX)
- Various set-up and wall-mounting options (Cinema Ultra LCR 100-THX)
- Can also be used according to THX Ultra2 guidelines as a directly emitting surround or rear surround loudspeaker (Cinema Ultra LCR 100-THX)

High-performance dipole surround loudspeaker:

- THX Ultra2-certified dipole surround Speaker (Cinema Ultra RD 200-THX)
- All of the chassis have been specially developed for the Cinema Ultra set in order to meet the very strict requirements of the THX Ultra2 standard (Cinema Ultra RD 200-THX)
- Enveloping surround soundscape without speaker localisation due to the special chassis layout (Cinema Ultra RD 200-THX)
- Specially tuned crossover for optimally diffuse sound emission according to the strict requirements of the THX Ultra2 standard (Cinema Ultra RD 200-THX)

- Top acoustic performance through individual components developed for high performance in all details (Cinema Ultra RD 200-THX)
- Markedly compact and flat enclosure for easy and unobtrusive integration into every home cinema system (Cinema Ultra RD 200-THX)
- Various wall-mounting options (Cinema Ultra RD 200-THX)
- Can also be used according to the THX Ultra2 guidelines as a rear surround dipole loudspeaker (Cinema Ultra RD 200-THX)

Cabinet:

- Removable protective fabric grille with optimum sound transmissivity and concealed magnet fastenings (Cinema Ultra AEH 400-ATM)
- Very stable, braced MDF enclosure with particularly low-resonance, 30 mm thick baffle (Cinema Ultra LCR 100-THX)
- Cinema Ultra stealth design comprising: offset baffle in a high-quality deep Black silk matt lacquer finish durable brushed-metal textured film in anthracite on the body front panel and trim rings in matt Black with a Black chrome gloss ring magnetically held cloth cover on a thin MDF frame low-reflection metal logo in brushed titanium look (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Closed housing for reproduction absolutely free of background noise at high levels according to the THX Ultra2 standard (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Rotating Magnat/THX logo for correct alignments in vertical or horizontal operation (Cinema Ultra LCR 100-THX)
- Removable fabric protection grille with optimum sound transmission and invisible magnet attachment (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Sophisticated mounting system with numerous variations: Wall-fixing mountings according to the widespread VESA standard, hole pattern 200x200mm M6 Sturdy metal wall brackets for vertical and horizontal mounting with silicone spacer (Cinema Ultra LCR 100-THX)
- Braced MDF enclosure with particularly low-resonance, 30 mm thick baffle (Cinema Ultra RD 200-THX)
- Sophisticated mounting system with numerous variations: Wall-fixing mountings according to the widespread VESA standard, hole pattern 100x200mm M4; Stable metal brackets for wall mounting with silicone

- spacers; (Cinema Ultra RD 200-THX); Stable enclosure in console form, with the dimensions and design adapted for combination with the Magnat Cinema Ultra system (Cinema Ultra AEH 400-ATM)
- Cinema Ultra stealth design comprising: offset baffle in a high-quality deep Black silk matt lacquer finish; durable brushed-metal textured film in anthracite on the body; front panel and trim rings in matt Black with a Black chrome gloss ring; magnetically held cloth cover on a thin MDF frame; low-reflection metal logo in brushed titanium look (Cinema Ultra AEH 400-ATM)
- Closed housing for reproduction absolutely free of background noise at high levels (Cinema Ultra AEH 400-ATM)
- Sophisticated mounting system with numerous variations: Wall-fixing mountings according to the widespread VESA standard, hole pattern 100x100mm M4; Sturdy metal wall brackets for wall mounting with silicone spacer; Adhesive silicone feet provided for set-up on front loudspeakers, sideboards etc (Cinema Ultra AEH 400-ATM)

Tweeter:

- Extremely large 42 mm high-performance polyfibre-compound cone (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Computer-optimised Waveguide front panel with integrated diffusor for optimum dispersion characteristics according to the strict THX Ultra2 standard (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Extremely powerful neodymium annular magnet system for the highest efficiency and outstanding broadband capability (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Highly resilient precision voice coil on a ventilated aluminium support (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Solid die-cast aluminium enclosure with large pole piece hole (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Multiple damped coupling volume for particularly low resonance frequency (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Fine mesh cover grille for a discreet look (Cinema Ultra RD 200-THX)

midrange-woofer:

- Flow-optimised, highly stable die-cast aluminium cage to avoid compression effects and resonances (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Multiple-ventilated high-performance voice coil for high resilience (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Rigid ceramic/aluminum sandwich cone and dust cap for optimum precision (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- 8 screw fixings for firm anchoring in the baffle (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)

Crossover:

- Particularly elaborate, amplitude and phase-optimised crossover to meet the strict THX Ultra2 standard (Cinema Ultra LCR 100-THX)
- Single-wiring connection terminal with gold-plated, acrylic sealed terminals (Cinema Ultra LCR 100-THX, Cinema Ultra RD 200-THX)
- Amplitude and phase-optimised crossover to meet the strict THX Ultra2 standard (Cinema Ultra RD 200-THX)
- Switchable dual crossover in one loudspeaker, optimised for the respective operating mode (Cinema Ultra AEH 400-ATM)
- Amplitude and phase-optimised crossover to meet the strict THX Ultra2 standard (Cinema Ultra AEH 400-ATM)
- High-quality connection terminal with stable, gold-plated and encapsulated screw terminals and a toggle switch for selecting the operating mode (Cinema Ultra AEH 400-ATM)

Active subwoofers:**Amplifiers:**

- Class D high-performance amplifier specially developed for this subwoofer
- Class D technology and a switch mode power supply ensure low heating and compact dimensions despite extremely high-efficiency performance
- Real-time limiter minimises distortions and prevents overloading
- Active frequency range equalisation according to the strict THX Ultra2 guidelines
- THX input and stereo inputs for flexible use in any surroundings
- Adjustable volume, phase and crossover frequency (in stereo mode)
- Auto stand-by and automatic switch-on for high user convenience
- Low stand-by power consumption < 1 Watts

High-performance subwoofer:

- All of the chassis have been specially developed for the Cinema Ultra set in order to meet the very strict requirements of the THX Ultra2 standard
- THX Ultra2-certified subwoofer for the Magnat Cinema Ultra set
- Top acoustic performance through individual components developed for high performance in all details
- Non-ventilated design to eliminate any air-flow noise at high levels
- Two long-stroke passive diaphragms adapted to the woofer and enclosure volume ensure deep extended bass without any background noise

Woofer:

- 30 cm high-performance long-stroke woofer, 30 cm long-stroke passive diaphragms with selber Membran
- Flow-optimised, highly stable die-cast aluminium cage to avoid compression effects and resonances
- Double-magnet high-power drive system with inductivity control ring for extremely low distortion
- Extremely large linear hub for maximum signal purity with large deflections
- Multiple-ventilated high-performance voice coil for high resilience
- Multiple coated paper diaphragm and dust cap for ideal rigidity
- Low-loss rubber surrounds for woofer and passive diaphragms
- 8 screw fixings for firm anchoring in the baffle

Cabinet:

- Very stable, braced MDF enclosure with particularly low-resonance, 45mm thick baffle

High-performance add-on loudspeaker:

- Dolby Atmos-certified add-on loudspeaker matching the Magnat Cinema Ultra set (Cinema Ultra AEH 400-ATM)
- The diaphragm materials are identical to the front and surround sound loudspeakers of the Magnat Cinema Ultra for optimum tonal harmony (Cinema Ultra AEH 400-ATM)
- Coaxial chassis layout and specially tuned crossover for ideally homogeneous dispersion characteristics (Cinema Ultra AEH 400-ATM)
- Compact, flat enclosure for easy and inconspicuous integration into every home cinema system (Cinema Ultra AEH 400-ATM)
- Can also be used as a directly emitting wall or ceiling loudspeaker (Cinema Ultra AEH 400-ATM)
- Two integrated crossovers that can be selected via a switch for extremely flexible use: "Atmos mode" for ceiling reflection according to Dolby Atmos guidelines: "Direct mode" for direct emission use on the wall or ceiling (Cinema Ultra AEH 400-ATM)

Chassis:

- Coaxial loudspeaker specially developed in accordance with the strict Atmos guidelines (Cinema Ultra AEH 400-ATM)
- 25mm tweeter with silk compound cone and computer-optimised acoustic equalizer (Cinema Ultra AEH 400-ATM)
- 130mm subwoofer with rigid ceramic-aluminium sandwich diaphragm and highly resilient voice coil (Cinema Ultra AEH 400-ATM)
- Flow-optimised, extremely sturdy die-cast aluminium cage with high-quality trim ring secured with six screws (Cinema Ultra AEH 400-ATM)

NEEDLE ALU SUPER

	NEEDLE ALU SUPER TOWER	NEEDLE ALU SUPER CENTER	NEEDLE ALU SAT
Principle	2-way bass reflex, double bass	2-way double bass	2-way speaker
Equipment	13 mm tweeter 4 x 70 mm woofer-midrange	13 mm tweeter 4 x 70 mm woofer-midrange	13 mm tweeter 70 mm midrange-woofer
Power Handling (RMS/Max.)	70/120 watts	65/100 watts	45/70 watts
Sensitivity (2.8V/1m)	90 dB	90 dB	88 dB
Impedance	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm
Frequency Response	45 - 30.000 Hz	55 - 30.000 Hz	75 - 30.000 Hz
Crossover Frequencies	400 Hz/3.700 Hz	400 Hz/3.700 Hz	3.700 Hz
Recommended Amplifier Output	20 - 120 watts	20 - 100 watts	20 - 70 watts
Dimensions (WxHxD)	90 x 1025 x 115 mm	402 x 90 x 115 mm	90 x 145 x 115 mm
Weight	6.8 kg	2.3 kg	0.9 kg
Cabinet surface	Aluminium silver Aluminium Black	Aluminium silver Aluminium Black	Aluminium silver Aluminium Black
<div><div>Loudspeaker: Highlights:<ul style="list-style-type: none">• Loudspeakers magnetically shielded• Overload protection</div><div>Cabinet:<ul style="list-style-type: none">• Sturdy aluminium caseTweeter:<ul style="list-style-type: none">• Very light PC tweeter-dome</div><div>midrange-woofer:<ul style="list-style-type: none">• Low/mid-range loudspeaker with specially hardened cellulose cone and `low distortion` centringConnections:<ul style="list-style-type: none">• Solid connecting terminals</div></div>			

INTERIOR 5.1X

	INTERIOR 5.1X SAT	INTERIOR 5.1X CENTER	INTERIOR 5.1X SUB
Principle	2-way speaker	2-way center speaker	Active bass-reflex subwoofer, down-fire
Equipment	½" tweeter 85 mm woofer	½" tweeter 85 mm woofer	170 mm subwoofer
Power Handling (RMS/Max.)	50/100 watts	60/120 watts	
Output power (RMS/Max.)			40/100 watts
Sensitivity (2.8V/1m)	88 dB	89 dB	
Impedance	4 – 8 Ohm	4 – 8 Ohm	
Frequency Response	90 – 32.000 Hz	80 - 32.000 Hz	
Crossover Frequencies	5.000 Hz	5.000 Hz	Adjustable from 50 to 150 Hz
Recommended Amplifier Output	> 15 watts	> 15 watts	
Dimensions (WxHxD)	90 x 110 x 110 mm	210 x 90 x 110 mm	225 x 380 x 350 mm
Weight	0.9 kg	1.6 kg	8.5 kg
Cabinet surface	Black	Black	Black

Satellite speakers: Highlights: <ul style="list-style-type: none">• Loudspeakers magnetically shielded• Klippel® -optimised overall design Cabinet: <ul style="list-style-type: none">• Bass-reflex design• Fibre-filled ABS cabinet Loudspeaker drivers: <ul style="list-style-type: none">• Newly developed coaxial loudspeaker Tweeter: <ul style="list-style-type: none">• 15 mm tweeter with silk dome and acoustically optimised horn attachment	midrange-woofer: <ul style="list-style-type: none">• woofer-midrange with high-performance double magnet system, high-quality voice-coil• Coated paper cone Connections: <ul style="list-style-type: none">• Solid connecting terminals Center speaker: Highlights: <ul style="list-style-type: none">• Loudspeakers magnetically shielded• Overload protection Cabinet: <ul style="list-style-type: none">• Bass-reflex design• Fibre-filled ABS cabinet	Connections: <ul style="list-style-type: none">• Solid connecting terminals Active subwoofers: Highlights: <ul style="list-style-type: none">• Very compact active subwoofer with sturdy MDF case• Simple 'AV plug & play' operation Cabinet: <ul style="list-style-type: none">• Down-fire construction Amplifier and power supply: <ul style="list-style-type: none">• LPC circuit• Adjustable volume and crossover frequency
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SYMBOL PRO

	SYMBOL PRO 160	SYMBOL PRO 130	SYMBOL PRO 110
Principle	2-way bass reflex	2-way bass reflex	2-way bass reflex
Equipment	19 mm tweeter 160 mm midrange-woofer	19 mm tweeter 140 mm midrange-woofer	19 mm tweeter 4.5" Woofer-midrange
Power Handling (RMS/Max.)	100/225 watts	80/200 watts	60/150 watts
Sensitivity (2.8V/1m)	92 dB	90 dB	89 dB
Impedance	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm
Frequency Response	30 - 35.000 Hz	35 – 35.000 Hz	40 - 30.000 Hz
Crossover Frequencies	4.000 Hz	4.000 Hz	4.000 Hz
Recommended Amplifier Output	20 - 220 watts	20 - 200 watts	20 - 150 watts
Dimensions (WxHxD)	180 x 310 x 240 mm	151 x 255 x 215 mm	120 x 205 x 160 mm
Cabinet surface	Black White	Black White	Black White
Loudspeaker:		Cabinet:	Tweeter:
Highlights:		• Bass-reflex design	• Magnesium tweeter
• Moisture-proof loudspeaker system, also suitable for damp rooms (bathrooms)		• Compact shelf loudspeaker with low resonance, glass-fibre-reinforced ABS case	Woofer/midrange:
• Loudspeakers magnetically shielded			• Polypropylene cone
• Overload protection			Connections:
• Sturdy wall mount, horizontally and vertically infinitely adjustable			• Connection panel with generously dimensioned screw terminals and gold-plated contacts

INTERIOR QUANTUM

	INTERIOR ICQ 82	INTERIOR ICQ 62	INTERIOR ICQ 262	INTERIOR IWQ 62
Principle	2-way in-wall/in-ceiling loudspeaker	2-way in-wall/in-ceiling loudspeaker	2 x 2-way loudspeaker	2-way in-wall/in-ceiling loudspeaker
Equipment	25 mm tweeter 200 mm woofer	25 mm tweeter 160 mm woofer	2 x 19 mm tweeters 160 mm woofer	25 mm tweeter 200 mm woofer
Power Handling (RMS/Max.)	120/200 watts	100/180 watts	100/180 watts	100/180 watts
Sensitivity (2.8V/1m)	91 dB	90 dB	91 dB	90 dB
Impedance	4 Ohm	4 Ohm	2 x 4 Ohms	4 – 8 Ohm
Frequency Response	32 – 26.000 Hz	34 – 26.000 Hz	34 – 26.000 Hz	34 – 26.000 Hz
Crossover Frequencies	3.800 Hz	3.800 Hz	4.000 Hz	3.800 Hz
Recommended Amplifier Output	20 - 250 watts	20 - 200 watts	20 - 200 watts	20 - 200 watts
Outer Dimensions Ø	272 mm	220 mm	220 mm	
Cutting Out Ø	240 mm	193 mm	193 mm	
Mounting depth	115 mm	98 mm	98 mm	76 mm
Outer Dimensions (WxH)				211 x 297 mm
Cutting Out (WxH)				185 x 272 mm
Weight	1.7 kg	1.3 kg	1.4 kg	1.3 kg
in-wall/in-ceiling loudspeaker:		• Coated soft-dome fabric tweeterTweeter with Swivel technology(can be turned by 35°) Low-resonance aluminium woofer cone in a hairline finish Long-throw rubber surround for maximum excursion		Connections:
Highlights:		• Exclusive aluminium designer protective grille		• Gold plated push terminal
• High-End in-ceiling loudspeaker				
• Easy installation thanks to clamping mechanism				
• Moisture-proof loudspeaker system, also suitable for damp rooms (bathrooms)				
Loudspeaker drivers:		Crossover:		
• Dual tweeter, dual voice coil for the woofer, connection for stereo or mono operation (Interior ICQ 262)		• High-quality crossovers with triple level adjustment for the high ranges (Interior ICQ 262)		
		• High-quality crossovers with triple level adjustment for the high- and mid-ranges (Interior ICQ 62, Interior ICQ 82)		

INTERIOR

	INTERIOR IW 810	INTERIOR IW 510 C	INTERIOR IC 82	INTERIOR IC 62
Principle	2-way in-wall/in-ceiling loudspeaker	2-way in-wall/in-ceiling loudspeaker	2-way in-wall/in-ceiling loudspeaker	2-way in-wall/in-ceiling loudspeaker
Equipment	25 mm tweeter 200 mm woofer	25 mm tweeter 2 x 130 mm woofers	2 x 19 mm tweeters 200 mm woofer	2 x 19 mm tweeters 160 mm woofer
Power Handling (RMS/Max.)	100/180 watts	90/160 watts	100/180 watts	75/140 watts
Sensitivity (2.8V/1m)	91 dB	90 dB	91 dB	90 dB
Impedance	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm	4 – 8 Ohm
Frequency Response	32 - 32.000 Hz	38 - 32.000 Hz	32 - 35.000 Hz	35 – 35.000 Hz
Crossover Frequencies	3500 Hz	3500 Hz	3500 Hz	3500 Hz
Recommended Amplifier Output	30 - 180 watts	30 - 160 watts	20 - 180 watts	20 - 140 watts
Outer Dimensions Ø			272 mm	228 mm
Cutting Out Ø			238 mm	195 mm
Mounting depth	90 mm	85 mm	100 mm	80 mm
Outer Dimensions (WxH)	255 x 358 mm	448 x 222 mm		
Cutting Out (WxH)	224 x 335 mm	416 x 190 mm		

in-wall/in-ceiling loudspeaker:

- Highlights:
- High-End in-ceiling loudspeaker (Interior IW 610, Interior IW 810)
 - High-End in-wall/in-ceiling loudspeaker (Interior IC 62, Interior IC 82)
 - Simplest installation with the help of a special clamping mechanism
 - Multi-directivity circuit for optimum adaptation to room acoustics (Interior IC 62, Interior IC 82)
 - High-End built-in center speaker (Interior IW 510 C)

Loudspeaker drivers:

- Twin tweeters each with 19 mm aluminium dome and strong neodymium drive (Interior IC 62)
- Tweeter with 25 mm aluminium dome and strong neodymium drive (Interior IW 510 C, Interior IW 610, Interior IW 810)
- Tweeter with 19 mm aluminium dome and strong neodymium drive (Interior IC 82)
- Tweeter may be aligned with the listening position (Interior IW 510 C, Interior IW 610, Interior IW 810)
- Special tweeter layout for best omnidirectional characteristics (Interior IC 62, Interior IC 82)
- Low/mid-range loudspeaker with carbon/glass-fibre cone and phase-correction element

Crossover:

- High-quality, phase-and amplitude-corrected crossover APOC
- Switchable treble elevation (Interior IW 510 C, Interior IW 610, Interior IW 810)

Connections:

- Solid connecting terminals

INTERIOR PERFORMANCE

	INTERIOR ICP 82	INTERIOR ICP 62	INTERIOR ICP 52	INTERIOR IWP 62	INTERIOR IWP 82
Principle	2-way in-wall/in-ceiling loudspeaker	2-way in-wall/in-ceiling loudspeaker	2-way in-wall/in-ceiling loudspeaker	2-way in-wall/in-ceiling loudspeaker	2-way in-wall/in-ceiling loudspeaker
Equipment	19 mm tweeter 200 mm woofer	19 mm tweeter 160 mm woofer	19 mm tweeter 130 mm woofer	25 mm tweeter 160 mm woofer	25 mm tweeter 200 mm woofer
Power Handling (RMS/Max.)	80/140 watts	70/120 watts	60/100 watts	70/120 watts	80/140 watts
Sensitivity (2.8V/1m)	91 dB	90 dB	89 dB	90 dB	91 dB
Impedance	8 Ohms	8 Ohms	8 Ohms	8 Ohms	8 Ohms
Frequency Response	34 – 24.000 Hz	36 – 24.000 Hz	38 – 24.000 Hz	36 – 26.000 Hz	34 – 26.000 Hz
Crossover Frequencies	4.000 Hz	4.000 Hz	4.000 Hz	3.800 Hz	3.800 Hz
Recommended Amplifier Output	20 - 160 watts	20 - 140 watts	20 - 120 watts	20 - 140 watts	20 - 160 watts
Outer Dimensions Ø	275 mm	233 mm	202 mm		
Cutting Out Ø	240 mm	198 mm	168 mm		
Mounting depth	102 mm	88 mm	81 mm	67 mm	88 mm
Outer Dimensions (WxH)				218 x 305 mm	254 x 359 mm
Cutting Out (WxH)				185 x 272 mm	218 x 321 mm
Weight	1.4 kg	1.0 kg	1.0 kg	1.3 kg	1.6 kg

in-wall/in-ceiling loudspeaker:

- Highlights:
- Built-in wall and ceiling loudspeakers
 - Easy installation thanks to clamping mechanism
 - Moisture-proof loudspeaker system, also suitable for damp rooms (bathrooms)

Loudspeaker drivers:

- Dual tweeter, dual voice coil for the woofer, connection for stereo or mono operation (Interior ICP 262)
- PET dome tweeter
- Tweeter with Swivel technology(can be turned by 35°) (Interior ICP 52, Interior ICP 62, Interior ICP 82, Interior IWP 62, Interior IWP 82)
- Hairline polypropylene woofer cone

- Long-throw rubber surround for maximum excursion
- Sturdy protective grille

Crossover:

- High-quality crossovers with triple level adjustment for the high ranges

Connections:

- Gold plated push terminal



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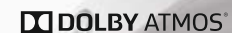
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