

# HECO®



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AUDIO | 2015

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# HISTORY

HECO – German HIFI since 1949



1949: Geburtsstunde der Firma HECO



1987: HECO Superior



1990: HECO Megaspacer



2005: HECO developed the Celan-series



2014: HECO Firmengebäude

HECO is a brand name that represents a rich and decades-long tradition in German speaker production. Ever since the day the company was founded 65 years ago, it has been committed to the uncompromising, high-quality reproduction of music in the home environment.

Back in 1950, HECO built the first speaker chassis in series production, which, at the time, was an absolute innovation. Another milestone in the company's history was the legendary "Type B130" compact hi-fi speaker in a six-litre cabinet. Thanks to this product, HECO had already established itself by 1965 as one of the first successful speaker brands. A whole range of legendary speaker series has shaped the image of this

traditional brand to date. In 1987, the company came out on top in a number of tests with its Superior and Interior product lines, attaining authoritative status as a result. Almost nine years later, HECO marked its 40th anniversary by launching the first Concerto Grosso - a top-class hand-crafted acoustic product. Only a year later, in 1990, the German speaker manufacturer became a trendsetter in the development of compact subwoofer/satellite systems. In 2005, the company made the definitive leap in terms of securing its status as a top-class speaker producer thanks to its Celan series. This exceptional series has won HECO a great deal of recognition across the industry.

The fact that HECO has reinvented itself time and again over the past 65 years – spanning a period that has witnessed some of the most important developments in hi-fi technology – is a testament to the strength and enduring innovative power of the brand. The year is 2014 and, at this year's High End trade fair, we have already celebrated the world premiere of the new Concerto Grosso - a new version, which marks another milestone for HECO in its history of speaker production.

**German HIFI since 1949 –  
and still ahead of the times.**



# TECHNOLOGY

## AINiCo-MIDRANGE DRIVER

The top-of-the range speakers „THE NEW STATEMENT“ and “CONCERTO GROSSO” are equipped with an AINiCo midrange - which is very important for the naturalness and precision of the midrange reproduction. The midrange is the crucial region in realizing the goal of a natural-sounding loudspeaker. The reason for this is the high degree of sensitivity of the human ear, particularly in the vocal range. The finest solution is a combination of a high-quality paper cone with an AINiCo magnet. AINiCo (Aluminium - Nickel - Cobalt) is a material that can carry extremely high magnetic field strengths and has a high temperature stability. Music lovers especially appreciate the repeatedly referred to acoustic advantages in terms of dynamics and resolution. However, the extremely high price and, in particular, the difficulties inherent in the production of consistent AINiCo have been responsible for it not being widely used these days.

After considerable research over a prolonged period HECO's engineers have now managed to develop an AINiCo powered drive unit which, with the help of modern laser technology (Klippel® system) and the “Finite Element Method” has resulted in a loudspeaker that works symmetrically with regard to its magnetic field, suspension and inductance. The acoustic conversion takes place via a lightweight „kraft paper cone“ coupled with a relatively stiff and fast suspension system. The result is a remarkably low level of distortion and an amazingly natural midrange reproduction.



## „KRAFT PAPER CONE“

The “Kraft paper cone” is the high tech cone of the HECO midrange speakers and woofers satisfies the most extreme of acoustic demands. Music lovers often prefer the particularly natural sound produced by high-quality paper-based cones. Indeed, many of the legendary cinema and high-end loudspeakers of the past used paper cones for that very reason.

It's perhaps explained by the particularly good ratio between low weight and high self damping. The cones are made from the best material available, known as “Kraft paper” under the DIN 6730 specification. The standard stipulates at least 90% long-fibre “Kraft pulp” to meet the highest requirements demanded in terms of tensile strength and extreme pressure resistance (DIN 53141). Specific types of wood are pre-selected to provide this high quality pulp. Only Nordic pine timber has the required strong fibres. Other woods and cheaper waste paper are excluded because of their low strength. The pulp is then mixed with the addition of 5% German-produced wool fibres (6 - 12 mm long). During this process all of the fibres interlock to form a densely conjoined weave. This material is then pressed evenly into the conical form of the cone under high pressure. The result of this is a loudspeaker diaphragm with the desired acoustic properties for high mechanical loading.

These positive attributes mean that the “Kraft paper cone” is used in practically all of HECO's loudspeakers. The long throw surround, highly durable voice coil and linearised magnet systems combine to guarantee maximum dynamic contrast and precision.

## DIE-CAST ALUMINIUM CHASSIS

The multi-ventilated die-cast aluminium chassis have extremely well controlled resonance characteristics and as a result provide the utmost stability. They genuinely offer the best possible foundation upon which the powerful magnets and paper cones can perform. However, in a purely aesthetic sense the aluminium baskets also exude precision with their diamond polished surfaces hinting at the purity of sound the speakers can deliver as a complete system.



It is based on a 30-mm diameter dome possessing a wide surround conferring a particularly low resonance frequency. The design increases its capability to disperse energy particularly at the transition to the mid-range and thus allows an especially harmonious blend at these critical frequencies. The dome is made from a very light polyfibre compound to enable it to reproduce the highest of frequencies. Copper rings integrated within the magnetic circuit reduce distortion while the carefully profiled, diamond-cut die-cast aluminium flange is responsible for the very controlled, wide and even dispersion from this new tweeter.

## CABINET

The perfect loudspeaker cabinet should contribute the least possible resonance. This is why HECO uses high quality MDF instead of cheaper chipboard. An asymmetric cabinet profile also reduces unwanted internal standing waves. All of the cabinets feature extensive multiple bracing to reduce panel resonance. To ensure perfect and secure location on differing floor types, all of the free-standing speakers are supplied with height-adjustable spikes and rubber feet.

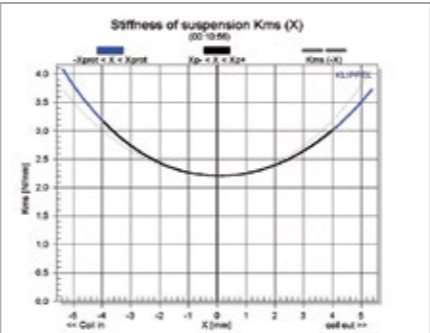


## HIGH ENERGY TWEETER

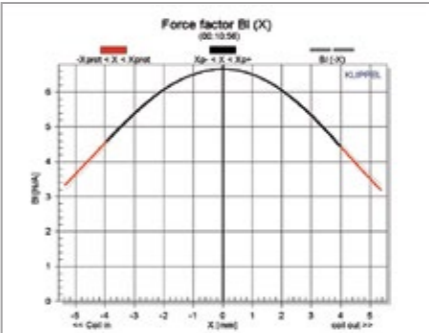
The HECO Research & Development team has developed a new tweeter which is characterised by high efficiency and exceptional resolution for the HECO Celan GT series.



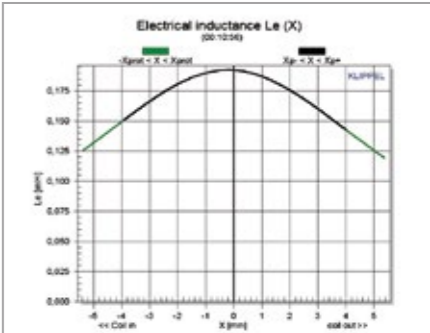
SYMMETRY OF THE AINiCo-COMIDRANGE



Measurement of stiffness



Measurement of magnetic field



Measurement of voice-coil inductance



# HECO Concerto Grosso

Premium quality and a sophisticated look for high-end sound enjoyment

Heco is celebrating its birthday – the perfect opportunity for us to set a new milestone in speaker design by unveiling the Concerto Grosso. High-tech meets the best assemblies and masterly workmanship in this unit. 63.2 kg „live weight“ speaks a language plain to everyone: Here comes an ultimate sound transducer that has raised the bar for years to come.

## THE TWEETER FOR PERFECT MUSIC PLEASURE

Only chassis that achieve the very best in every respect – be it load handling, detailing capacity or pulse fidelity – are used in the Concerto Grosso series. The rigorously selected high-end tweeter with 30 mm polyfiber-compound dome, aluminum front plate with wave-control horn and powerful double magnet system is sure to impress with the finest spatiality and unbelievable transparency. The concept culminates in 52 kHz of the highest crossover frequency - that means our masterpiece can also map the entire harmonics range with perfection, making it ideally suitable for high-resolution audio media.

## OUTSTANDING IN EVERY FREQUENCY RANGE

As the Concerto Grosso high-end series works according to the four-way principle, both a midrange driver as well as a separate midrange driver/subwoofer are an integral feature. The midrange driver measuring 170 mm is impressive thanks to its AlNiCo high-performance magnet system, hard-mounted paper/wool cone for the best possible pulse fidelity, a coated fabric surround with extremely low losses and a 25 mm voice coil for maximum load resistance. The 200 mm midrange driver/woofer is a cut above

the rest with its tremendously lightweight, extra braced kraft paper cone. A stabilizing, inverse kraft paper anti-dust dome is also installed.

Woofer and midrange with aluminium die-cast baskets.

Newly developed High Energy Tweeter with 30 mm Polyfiber Compound Dome (PFC-Dome), aluminium front plate with Wave Control Horn and double magnet system.



The low-loss rubber surround and extremely load-resistant 35 mm voice coil are further features that distinguish this top-class chassis. The Concerto Grosso can get down to 16 Hz – the 300 mm subwoofer, mounted on the side, is ideally suitable for such ventures into the subsonic range. With 50 mm voice coil, kraft paper cone, inverse kraft paper anti-dust dome and long-throw rubber surround, there is nothing here to stop the best possible bass reproduction. The additional bass radiator is also key to the enormous output in the low-frequency range.

High-end sidefire bass radiator construction for an extended bass range totally free of disruptive flow noise.





Very solid construction using MDF panels and elaborated struttings, fitted side panels for subwoofer and bass radiator which ensures optimum low-resonance properties.

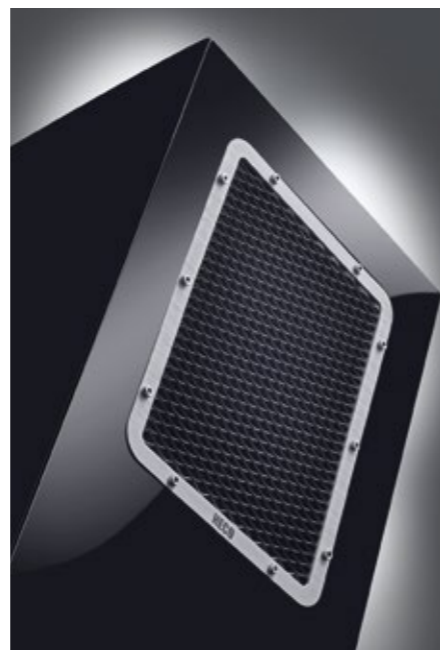


#### PERFECT DISTRIBUTION IS ALSO AN ART

And it is precisely for this reason that we have installed a crossover in the Concert-Grosso series of the type you seldom encounter: It is able to perform its task with extreme precision thanks to phase and impedance compensation along with components exhibiting very narrow tolerances. Individual adaptation options for the treble range and midrange ensure that the Concerto Grosso high-tech sound transducers sound just the way a proud owner wants.

Open, compression free midrange chamber with complex, aperiodic damping.

High-quality terminal with solid gold-plated screw connectors on a solid aluminium plate.



#### MADE FOR AN ETERNITY. SETTING THE STANDARD FOR YEARS TO COME.

A box from the Heco Concerto Grosso series is not simply a speaker. It is a work of art you can admire and enjoy afresh every day. The elegant high-gloss paintwork, the MDF housing with multiple bracing for an especially stable design along with side panels for subwoofer and bass radiator for a really low resonance level and the compression-free midrange chamber open at the rear are the kind of high-tech that make the Concerto Grosso stand out in a class of its own.

Concerto Grosso	
<b>Principle</b>	4 way bass reflex
<b>Equipment</b>	1x 12" woofer - sidefire/ 1x 12" passive radiator – sidefire/ 1x 8" woofer-midrange/ 1x 6.5" midrange/ 1" dome-tweeter
<b>Power Handling (RMS/max.)</b>	325 / 550 watts
<b>Impedance</b>	4 - 8 Ohm
<b>Frequency response</b>	16 – 52.000 Hz
<b>Crossover frequency</b>	110 Hz, 580 Hz, 3100 Hz
<b>Sensitivity</b>	92 dB
<b>Cabinet surface</b>	Piano Black
<b>Dimensions (W x H x D)</b>	324 x 1352 (excl. Spikes) x 617 mm





# HECO The New Statement

The best from 65 years of experience in speaker construction



HECO's flagship model, namely „The New Statement“, combines state-of-the-art measuring and testing methods with the best materials and decades of experience in the speaker construction industry.

## AT THE HEART OF THE SOUND - THE LEGENDARY AlNiCo MIDRANGE DRIVER

Modern technology, legendary AlNiCo magnetic material and laser-assisted measurements combine tried and tested components with new and virtually forgotten elements in one harmonious unit. Impressive dimensions, exquisite workmanship and a unique sound are characteristic features of „The New Statement“. HECO's flagship model has further enhanced the successful basic concept of its predecessor. It has given rise to numerous improvements, for example, in terms of dynamic response and the transparency of the sound pattern. Particular attention was paid here to the development of the speaker chassis, as it is critical to the overall sound. The midrange driver has been set in an open, aperiodically damped housing, which ensures an enhanced degree of spatiality for the sound pattern. The midrange chassis is also equipped with an AlNiCo magnet. This magnetic drive, which is extreme in every aspect, guarantees a wonderful, natural and precise reproduction of the midrange frequencies.

Bass reflex construction with screwed reflex ports and aluminium die cast flange.



## PERFECT INTERACTION BETWEEN THE INDIVIDUAL CHASSIS

Two 200 mm long-throw woofers operate in the low frequency range below 200 Hz. Kraft paper has also been used here as the material for the cone. An inverted kraft paper dust cap provides the woofer chassis with additional rigidity. A long-throw rubber surround and the symmetrical double-ferrite drive enable the chassis to reproduce extremely low frequencies with high dynamics and precision. The treble range is handled by a selected High Energy Tweeter.

All aluminium die cast driver were developed in the HECO laboratory in Germany.



The midrange is equipped with an AlNiCo magnet.

Thanks to its 30 mm dimensions, its oversized mount, a special geometry and weight distribution of the moving mass, its entire surface is used to generate sounds in the lower frequency

range. Only a defined portion of the low-mass polyfibre compound dome operates in the highest frequency range. Copper caps in the drive reduce distortion factors and the tweeter flange, with its short horn function, reduces sound-impairing edge reflections and harmonises the acoustic transition to the midrange.



Legendary sound –the AlNiCo drive ensures the lowest possible distortions and amazingly natural reproduction of midrange tones.

Optimised to give a long stroke – hardened papercone; inverse kraft paper dust cap; 32 mm voice-coil; long-throw surround.

Selected tweeter with nano-particle coated 30 mm dome tweeter, aluminium front-plate with short horn attempt, doublemagnet system and damped resonance chamber.



Piano Black,  
(Front grille black)

Piano Espresso,  
(Front grille black)

Piano White,  
(Front grille black)



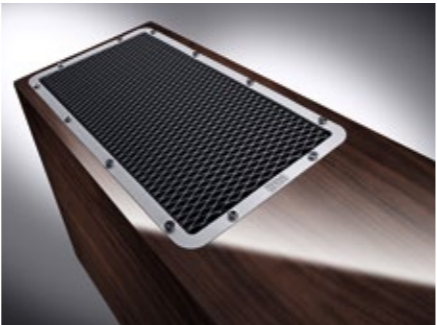
#### GERMAN CUTTING EDGE TECHNOLOGY IN EVERY DETAIL

The terminal area with its large gold-plated terminals is not only suitable for tri-wiring or tri-amping configurations, as it also offers a range of customisation options. An important feature is the completely redeveloped crossover with impedance linearisation function, which has been elaborately designed for „The New Statement“ and equipped with closely toleranced components, such as MKP capacitors and MOX resistors. To ensure the speaker has optimum protection from vibrations it is accommodated on solid metal spikes and a base plate with an absorbent damping element. The housing of „The New Statement“ consists of MDF panels with elaborate internal bracing. The front grille is secured in place with a number of small, integrated high-performance neodymium magnets. Despite bearing „new“ in its name, „The New Statement“ is a synthesis of both proven and entirely new technologies, and is a tribute to the experience gained in the speaker construction industry!

The tri-wiring terminal with large gold-plated and insulated terminals as well as level adjustment for high and midrange tones.

Heavy height-adjustable solid metal spikes.

The AlNiCo midrange drive unit is located in an open, non-resonant enclosure, enabling it to function entirely free of compression.



<b>Principle</b>	3 way bass reflex floorstanding speaker
<b>Equipment</b>	2 x 8" W/ 6.5" M/ 30 mm T
<b>Power Handling (RMS/max.)</b>	300/500 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	18 - 52 000 Hz
<b>Crossover frequency</b>	230/3 200 Hz
<b>Sensitivity</b>	93 dB
<b>Cabinet surface</b>	Piano Black, Piano Espresso, Piano White
<b>Dimensions (W x H x D)</b>	292 x 1245 x 450 (480 incl. Terminal) mm

#### The New Statement

stereoplay  
Highlight  
Ausgabe 9/12  
Highlight 09/12

AUDIO  
KLANG: 97 PUNKTE  
PREISLEISTUNG: UBERAUSGEZEICHNET  
Price/performance:  
Outstanding 01/13

AUDIO TEST  
Hörs „The New Statement“  
AUSGEZEICHNET  
Ausgabe 1/2013  
Excellent 01/13





## HECO Celan GT

### 3rd generation high-end speaker series

The „GT“ in HECO's Celan GT series stands for Generation Three; in other words, the series is the third generation of speaker which, since its launch, has fascinated audiophiles all over the world and has brought many people back to their original hobby – namely, listening to music in all its wonderful manifestations. With the assuredness of a convincing underlying concept and the potential for further development, all of the components were analysed in detail and then optimised, reinterpreted or even completely redeveloped. The aim was to further enhance the dynamic properties of the series while making the sound even more vibrant.

#### PERFECTLY COORDINATED INDIVIDUAL CHASSIS WITH AN OUTSTANDING LEVEL OF PRECISION

The tweeter has been completely redeveloped for this series. This 30 mm high-energy tweeter is significantly larger than conventional tweeters (25 mm) and features a special cone geometry that differs from other tweeters by its oversized edge mount. This tweeter uses the entire surface of the cone as well as its mount for low frequencies. This creates a considerably higher dispersion energy in the transition to the midrange than is possible with conventional designs. Only parts of the lightweight polyfibre compound cone are used to generate the sound at the highest frequencies. This reduced vibrating mass enables the tweeter to reproduce the very highest pitches. To prevent edge reflections, which impair the level of precision of the spatial sound pattern, the dome has been fitted in a milled

aluminium flange with a short horn attachment. The tweeter comes into play at a crossover frequency of approx. 3000 Hz. The 3-way models cater for frequencies below 3000 Hz with a mid-range chassis that has been optimised for broadband reproduction and provided with a coated fabric surround, a kraft paper cone, a lightweight paper dust cap and a 25 mm voice coil. The 170 mm bass-midrange drivers with long-throw surround are responsible for the mid and low frequency range.



All drivers feature the sturdy die-cast aluminium basket and a linearised magnet system.



The high quality and generously dimensioned connecting terminal with linear and tweeter plus 2 dB setting is located at the rear in a distinctive HECO design.



The High-Energy Tweeter with oversized membrane, complex drive, copper rings and die-cast aluminium horn flare.

Optimised midrange with kraft paper cone, light paper dust cap, coated fabric surround and 25 mm voice coil.

Woofer - Optimised to give a long stroke – hardened papercone; new inverse geometry; 32 mm voice-coil; long-throw surround.

Specially optimised woofers with kraft paper cones, large dust caps, long-throw surrounds and high-load 32 mm voice coils are responsible for the bass frequencies in the floorstanding speakers. These have been optimised for the GT series, which is evident in the new inverse geometry of the dust cap.

#### PRECISION AND THE HIGHEST QUALITY WORKMANSHIP IN EVERY DETAIL

One feature all units have in common, immaterial whether it's a woofer, midrange or bass-midrange driver, is a sturdy die-cast aluminium basket with linearised magnet system. An elaborately constructed, sturdy MDF housing forms the workspace for the chassis. The speakers are rounded at the sides, which helps to reduce reflections more effectively as well as to maximize their stability. The interior of the housing is also reinforced at several locations. The speakers are accommodated on solid, height-adjustable metal spikes, which ensure they have sufficient clearance from the floor. Like the chassis, the bass

reflex flanges are also manufactured from aluminium and screwed firmly to the rear of the housing. The high quality and generously dimensioned connecting terminal in HECO's distinctive design is also located at the rear. The gold-plated terminals are suitable for both bi-wiring and bi-amping configurations. The treble level can be optionally adjusted directly at the terminal. A „Linear“ and „+2 dB“ setting is also available. The inbound music signals are relayed from this point by the elaborate crossover. All of the components used are of a high quality and adhere to tight tolerances in order to fulfil the demanding requirements of HECO's engineers. Both phase and amplitude behaviour have been taken into account.

#### HIGH PERFORMANCE FOR A REAL HIGH-END AND SPECTACULAR HOME CINEMA SETUP

Immaterial whether your main focus is on a high-end stereo sound or a powerful home-cinema setup, HECO's Celan GT series incorporates a variety of units that will satisfy all of your requirements - from the shielded centre, which has been acoustically coordinated with the other speakers in the series, to the active subwoofer.



CelanGT 902



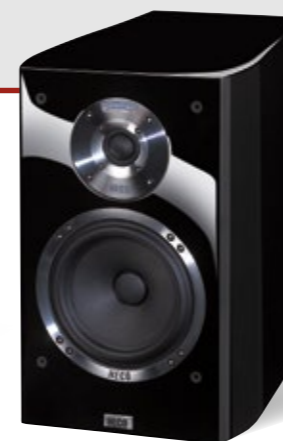
Celan GT 902



Celan GT 702



Celan GT 502



Celan GT 302



Celan GT Sub 322A

**Principle** 3 way bass reflex floorstanding speaker  
**Equipment** 2 x 8" W/6.5" M/30 mm T  
**Power Handling (RMS/max.)** 280/450 watts  
**Impedance** 4 - 8 ohms  
**Frequency response** 20 - 50 000 Hz  
**Crossover frequency** 250/3 000 Hz  
**Sensitivity** 93 dB  
**Cabinet surface** Piano Black, Piano White, Piano Espresso  
**Dimensions (W x H x D)** 277 x 1205 x 415 mm



**Principle** 3 way bass reflex floorstanding speaker  
**Equipment** 2 x 6.5" W/6.5" M/30 mm T  
**Power Handling (RMS/max.)** 220/350 watts  
**Impedance** 4 - 8 ohms  
**Frequency response** 22 - 50 000 Hz  
**Crossover frequency** 260/3 000 Hz  
**Sensitivity** 92 dB  
**Cabinet surface** Piano Black, Piano White, Piano Espresso  
**Dimensions (W x H x D)** 230 x 1145 x 365 mm



**Principle** 2 ½ way bass reflex floorstanding speaker  
**Equipment** 6.5" W/6.5" WM/30 mm T  
**Power Handling (RMS/max.)** 180/300 watts  
**Impedance** 4 - 8 ohms  
**Frequency response** 24 - 50 000 Hz  
**Crossover frequency** 280/3 000 Hz  
**Sensitivity** 91 dB  
**Cabinet surface** Piano Black, Piano White, Piano Espresso  
**Dimensions (W x H x D)** 230 x 1035 x 365 mm



**Principle** 2 way bass reflexbookshelf speaker  
**Equipment** 6.5" WM/30 mm T  
**Power Handling (RMS/max.)** 100/160 watts  
**Impedance** 4 - 8 ohms  
**Frequency response** 30 - 52 000 Hz  
**Crossover frequency** 3 000 Hz  
**Sensitivity** 90 dB  
**Cabinet surface** Piano Black, Piano White, Piano Espresso  
**Dimensions (W x H x D)** 230 x 380 x 330 mm



**Principle** 2 way bass reflex center speaker  
**Equipment** 2 x 6.5" WM/30 mm T  
**Power Handling (RMS/max.)** 120/180 watts  
**Impedance** 4 - 8 ohms  
**Frequency response** 30 - 50 000 Hz  
**Crossover frequency** 3 000 Hz  
**Sensitivity** 90 dB  
**Cabinet surface** Piano Black, Piano White, Piano Espresso  
**Dimensions (W x H x D)** 570 x 205 x 330 mm

**Principle** Active bass reflex subwoofer  
**Equipment** 12" woofer  
**Power Handling (RMS/max.)** 220/400 watts (power output)  
**Impedance** -  
**Frequency response** 20 - 150 Hz  
**Crossover frequency** 50 - 150 Hz, adjustable  
**Sensitivity** -  
**Cabinet surface** Piano Black, Piano White, Piano Espresso  
**Dimensions (W x H x D)** 405 x 585 x 465 mm

**CELAN GT SET**

**Highlight** Highlight 01/13  
(2x 502, 2x 302, Center & Sub)

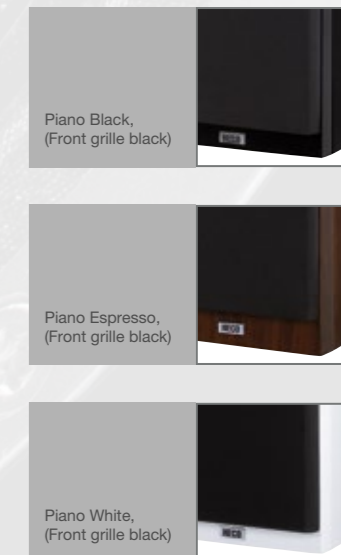
**HIFI VISION Highlight** Highlight 24/13  
(2x 502, 2x 302, Center & Sub)

**REIMKINO 7.0** Outstanding 6-7/12  
(2x 502, 2x 302, Center & Sub)

**video** Best Buy 04/12  
(2x 502, 2x 302, Center & Sub)

**KAUFTIPP**

**HV magazin** Very Good 03/12  
(4x 302, Center & Sub)





## HECO Celan GT

### High-end „Slim Fit“ loudspeaker series

It's immediately apparent that the new components in the Celan GT series are part of the range. That's because they also possess the high-gloss finish and the rounded edges that are typical for the series – but their slender language of shape means that they immediately become the centre of attention. Exclusive materials and innovative technology are responsible for the outstanding sound experience that even the slender models are also able to deliver.



#### TOPPING THE TREBLE RANGE WITH THE HIGH-ENERGY TWEETER

To be found in all Celan GT models: the newly developed high-energy tweeter! The large 30 mm polyfibre compound dome (PFC dome) sits on an aluminium front panel with wave-control horn and double magnet system. In conjunction with the specific cone geometry, this means that the dispersion energy, particularly in the critical transition to the midrange driver, is considerably higher than on other units. The high-energy tweeter is able to cover even the highest of frequencies due to the PFC dome's very low mass. The tweeter is able to handle up to 50,000 Hz and is therefore perfectly able to precisely develop the advantages that come with high-resolution audio files.

#### HIGH-END COMPONENTS FOR ANY PURPOSE

The chassis, which possesses a diameter of 130 mm, is used in the Celan GT series to handle the bass and middle ranges. The individual drivers have then been optimised for the respective intended use depending on the loudspeaker. The kraft-paper cone that delivers the optimum combination of stiffness and weight creates the ideal conditions for this. This includes a light paper dust-protection dome, a robust long-throw rubber surround and the highly resilient voice coil. The design is secured firmly within a robust aluminium die-cast basket and possesses a linearised magnet system.

Woofer and midrange with solid aluminium die-cast basket and linearized magnet system.

Woofers with kraft paper cone, large dustcap, long-throw surround and high-performance voice coil optimised for the low frequencies.

Bass reflex construction with two screwed reflex tubes and aluminium die-cast flange and high-quality terminal with solid gold-plated screw connectors.



Taken together, these features permit highest perfection to be achieved in conjunction with high efficiencies and massive resilience.

#### MODERN. ELEGANT. SLIM.

Our high-quality engineering naturally deserves an exclusive exterior. Such an exclusive exterior has been realised with the sturdily designed and multi-reinforced MDF case. The case has been rounded on the sides to further increase stability and eliminate reflections from the edges. The whole unit stands on



height-adjustable aluminium or optional rubber spikes. The bass-reflex design comes with screw-fastened reflex tubes and aluminium die-cast flanges. The sophisticatedly designed crossover filter with high-quality hand-picked components makes a +2dB treble adjustment directly on the loudspeaker possible. The back of the elegant case with high-gloss finish has been adorned with a high-quality terminal possessing sturdy gold-plated screw terminals. Both bi-wiring and bi-amping configurations are, of course, possible with most of the Celan GT loudspeakers.



**Celan GT 602**

<b>Principle</b>	3 way floorstanding speaker, bass reflex
<b>Equipment</b>	2 x 5.25" woofer, 1 x 5.25" midrange, 1" dome-tweeter
<b>Power Handling (RMS/max.)</b>	200 / 330 watts
<b>Impedance</b>	4 - 8 Ohm
<b>Frequency response</b>	25 - 50.000 Hz
<b>Crossover frequency</b>	320 Hz, 3.000 Hz
<b>Sensitivity</b>	91 dB
<b>Cabinet surface</b>	Piano Black, Piano Espresso, Piano White
<b>Dimensions (W x H x D)</b>	196 x 1030 x 310 (340 incl. Terminal) mm



**Celan GT 202**

<b>Principle</b>	2 way bookshelf speaker, bass reflex
<b>Equipment</b>	1 x 5.25" woofer-midrange, 1" dome-tweeter
<b>Power Handling (RMS/max.)</b>	90 / 150 watts
<b>Impedance</b>	4 - 8 Ohm
<b>Frequency response</b>	34 - 50.000 Hz
<b>Crossover frequency</b>	3.000 Hz
<b>Sensitivity</b>	90 dB
<b>Cabinet surface</b>	Piano Black, Piano Espresso, Piano White
<b>Dimensions (W x H x D)</b>	196 x 335 x 290 (320 incl. Terminal) mm



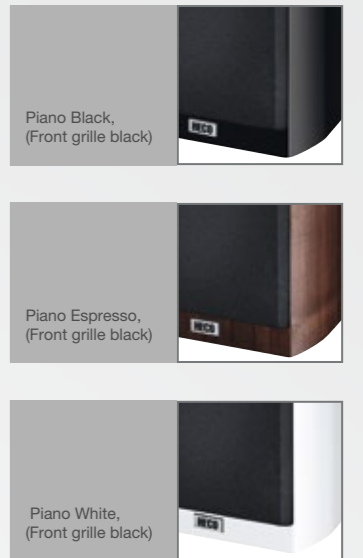
**Celan GT 102F**

<b>Principle</b>	2 way Bookshelf/on-wall speaker
<b>Equipment</b>	1 x 5.25" woofer-midrange, 1" dome-tweeter
<b>Power Handling (RMS/max.)</b>	80 / 140 watts
<b>Impedance</b>	4 - 8 Ohm
<b>Frequency response</b>	45 - 50.000 Hz
<b>Crossover frequency</b>	3 000 Hz
<b>Sensitivity</b>	89 dB
<b>Cabinet surface</b>	Piano Black, Piano White
<b>Dimensions (W x H x D)</b>	196 x 330 x 110 mm



**Celan GT Center 32**

<b>Principle</b>	2 way center speaker, bass reflex
<b>Equipment</b>	2 x 5.25" woofer-midrange, 1" dome-tweeter
<b>Power Handling (RMS/max.)</b>	110 / 170 watts
<b>Impedance</b>	4 - 8 Ohm
<b>Frequency response</b>	33 - 50.000 Hz
<b>Crossover frequency</b>	3 000 Hz
<b>Sensitivity</b>	90 dB
<b>Cabinet surface</b>	Piano Black, Piano Espresso, Piano White
<b>Dimensions (W x H x D)</b>	490 x 175 x 290 (320 incl. Terminal) mm





## HECO Aleva GT – Power and elegance in perfect harmony

Timeless designs, perfectly lacquered surfaces and, of course, a perfectly balanced, precise sound have made the Aleva series extremely popular with many music enthusiasts. These attributes were the minimum requirements that had to be fulfilled by HECO's engineers in developing the second generation of Aleva units, namely the Aleva GT.

### AN EXTREMELY LOW-RESONANCE MDF HOUSING IN AN ELEGANT HIGH-GLOSS PIANO FINISH

The solid panels and internal bracing that have been used for the cabinets of each Aleva GT unit ensure excellent low-resonance properties, while the crucial baffles used for all models are particularly thick at 25 mm. The clear stylistic elements together with a black or white piano lacquer finish creates an attractive visual appearance. In addition, the generously sloped sides of the baffle optimise acoustic properties by reducing edge reflections. Screwed, flow-optimised bass reflex tubes at the rear of the housing ensure a powerful and distortion-free bass response. Connectivity is provided by connecting terminals with gold-plated and insulated screw connections, which are compatible with bi-wiring and bi-amping configurations. Phase- and amplitude-corrected crossovers - which are complemented in the floorstanding speakers by an optional treble adjustment function - ensure an above-average acoustic performance.

Newly developed speaker chassis with aluminium die-cast baskets and front panels.

### AN IMPRESSIVE ACOUSTIC PERFORMANCE OVER THE ENTIRE FREQUENCY RANGE

All of the chassis used for the Aleva GT series have been completely redeveloped, while the state-of-the-art 130 mm bass-midrange driver, which has been integrated in these chassis, has been entrusted with a central and particularly important role. Five different versions are available in total, with each being perfectly optimised in terms of its frequency range. Aerodynamically formed, diamond cut aluminium die-cast baskets, durable rubber surrounds and cones manufactured from tried and tested HECO kraft paper are naturally also incorporated in the new Aleva GT series.



The flagship model, namely the Aleva GT 1002, also features a heavy-duty 250 mm woofer in the side panel for an enhanced bass response. The dome tweeter has also been redesigned according to state-of-the-art developments. The short horn attachment accommodated in the diamond-cut aluminium front panel, the powerful double magnet system and the particularly wide surround ensure a high loading capacity, excellent dynamics at all volumes and a harmonious sound pattern.

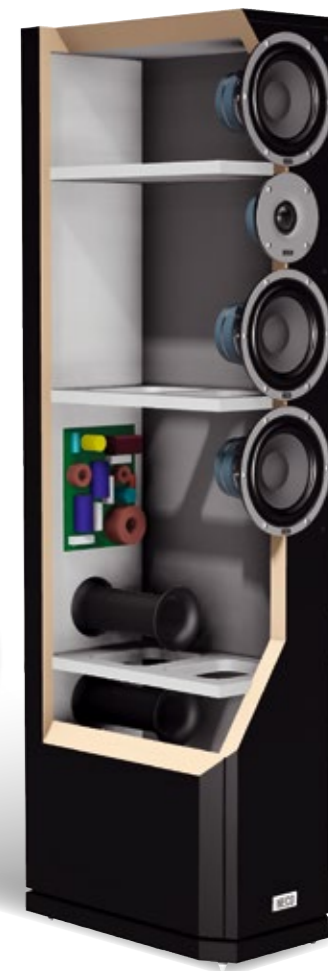
### HECO ALEVA GT - A SOFT SPOT FOR FILM BUFFS

This high quality series from HECO has naturally also been developed with film buffs in mind! In addition to three floorstanding speakers and the Aleva GT 202 shelf speaker, which is ideal for rear surround sound, the series also includes a magnetically shielded centre speaker and the powerful Aleva GT 322 A active subwoofer. While the side-firing active subwoofer has been designed in keeping with the slim-line style of the series, it doesn't disappoint when it comes to generating an impressive deep bass response, which can be attributed to its 320 watt power amplifier with active frequency response equalization, 300 mm long-throw woofer and aerodynamically rounded reflex ports.

Aerodynamically rounded, screwed bass reflex tubes with Bi-wiring/bi-amping connecting terminal with gold-plated and insulated screw connectors.



The cut drawings of the midrange and tweeter clearly show the extensive development made.

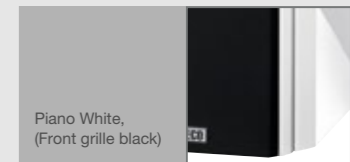




ALEVA GT 5.1 SET

Outstanding 4-5/14  
(2x 602, 2x 202,  
Center & Sub)

Good 02/14  
(2x 402, 2x 202,  
Center & Sub)



Aleva GT 1002

Aleva GT 602

Aleva GT 402

Aleva GT 202

Aleva GT Center 32

Aleva GT Sub 322 A

<b>Principle</b>	3 way bass reflex speaker
<b>Equipment</b>	10" W/ 2 x 5.25" WM/ 1.1" T
<b>Power Handling (RMS/max.)</b>	200/350 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	23 - 42 000 Hz
<b>Crossover frequency</b>	170/3 400 Hz
<b>Sensitivity</b>	91 dB
<b>Cabinet surface</b>	Piano Black, Piano White
<b>Dimensions (W x H x D)</b>	207 x 1200 x 410 mm

<b>Principle</b>	3 way bass reflex speaker
<b>Equipment</b>	2 x 5.25" W/5.25" WM/ 1.1" T
<b>Power Handling (RMS/max.)</b>	180/320 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	27 - 42 000 Hz
<b>Crossover frequency</b>	350/3 400 Hz
<b>Sensitivity</b>	91 dB
<b>Cabinet surface</b>	Piano Black, Piano White
<b>Dimensions (W x H x D)</b>	207 x 1100 x 350 mm

<b>Principle</b>	2 1/2 way bass reflex speaker
<b>Equipment</b>	5.25" W/ 5.25" WM/ 1.1" T
<b>Power Handling (RMS/max.)</b>	120/200 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	30 - 42 000 Hz
<b>Crossover frequency</b>	3 400 Hz
<b>Sensitivity</b>	91 dB
<b>Cabinet surface</b>	Piano Black, Piano White
<b>Dimensions (W x H x D)</b>	207 x 1000 x 320 mm

<b>Principle</b>	2 way bass reflex bookshelf speaker
<b>Equipment</b>	5.25" WM/ 1.1" T
<b>Power Handling (RMS/max.)</b>	80/140 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	36 - 42 000 Hz
<b>Crossover frequency</b>	3 400 Hz
<b>Sensitivity</b>	90 dB
<b>Cabinet surface</b>	Piano Black, Piano White
<b>Dimensions (W x H x D)</b>	207 x 320 x 280 mm

<b>Principle</b>	2 way center speaker, bass reflex
<b>Equipment</b>	2 x 5.25" WM/ 1.1" T
<b>Power Handling (RMS/max.)</b>	100/160 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	35 - 42 000 Hz
<b>Crossover frequency</b>	3 400 Hz
<b>Sensitivity</b>	90 dB
<b>Cabinet surface</b>	Piano Black, Piano White
<b>Dimensions (W x H x D)</b>	510 x 180 x 280 mm

<b>Principle</b>	Active bass reflex subwoofer
<b>Equipment</b>	12" woofer
<b>Power Handling (RMS/max.)</b>	180/320 watts (power output)
<b>Impedance</b>	-
<b>Frequency response</b>	20 - 150 Hz
<b>Crossover frequency</b>	50 - 150 Hz, adjustable
<b>Sensitivity</b>	-
<b>Cabinet surface</b>	Piano Black, Piano White
<b>Dimensions (W x H x D)</b>	290 x 500 x 464 mm



# HECO Aleva TC

## Form harmonises with function

The external beauty of the slim-line Aleva TC series is plain to see and the moment the first sound is generated it's evident that its internal qualities are just as compelling.

SPEAKERS THAT ARE OF A HIGH, TECHNICALLY SOPHISTICATED LEVEL

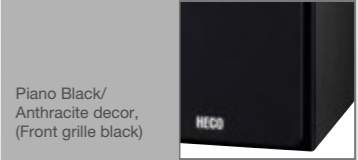


The strutted MDF cabinet exhibits extremely low resonance properties thanks to its thick panels. The offset baffle is resplendent in its fine high-gloss finish. The rugged surface of the speaker lends a modern metal-like appearance to the black model, while the white version is compelling thanks to its fine structure and timeless elegance. Both the die-cast front panel of the tweeter and the basket of the bass-midrange driver have been manufactured from diamond-cut aluminium. A lightweight 25 mm fabric dome is traditionally used by HECO for the treble range. The powerful double magnet system and the short horn attachment in the front panel ensure a high degree of efficiency and ideal dispersion properties. The broadband-modulated Aleva bass-midrange drivers cannot quite conceal their technical roots either. HECO's engineers have used specially developed „kraft paper“ for the material of the cone in this setup. This is where music lovers really get their money's worth.

### SOLID SCREW TERMINALS ENSURE LOSSLESS SIGNAL TRANSMISSION

The high quality bi-wiring and bi-amping-compatible connecting terminal, which features gold-plated, insulated screw connectors, allows the treble level to be optionally increased by 2 dB. In order to channel music signals to the sound transducers in a clean and lossless manner, the amplitude- and phase-corrected crossover has been equipped with premium components and high quality wiring. Both of the models in the Aleva TC series are available in a piano black/anthracite and piano white/white finish.

Baffle in a high gloss finish, body with durable textured veneer.



#### ALEVA 400 TC

<b>Principle</b>	2 1/2 way bass reflex floorstanding speaker
<b>Equipment</b>	5.25" W/ 5.25" WM/ 1" T
<b>Power Handling (RMS/max.)</b>	120/200 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	30 - 42 000 Hz
<b>Crossover frequency</b>	400/3 500 Hz
<b>Sensitivity</b>	90 dB
<b>Cabinet surface</b>	Piano Black/Anthracite decor, Piano White/White decor
<b>Dimensions (W x H x D)</b>	170 x 980 x 270 mm

#### ALEVA 200 TC

<b>Principle</b>	2 way bass reflex bookshelf speaker
<b>Equipment</b>	5.25" WM/ 1" T
<b>Power Handling (RMS/max.)</b>	80/140 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	36 - 42 000 Hz
<b>Crossover frequency</b>	3 500 Hz
<b>Sensitivity</b>	89 dB
<b>Cabinet surface</b>	Piano Black/Anthracite decor, Piano White/White decor
<b>Dimensions (W x H x D)</b>	170 x 285 x 270 mm



# HECO MUSIC STYLE – High quality sound technology in a sensual form

A major challenge in terms of speaker construction is, and remains, the synthesis of high quality technology and an aesthetic appearance. With regard to technology, the Music Style series also draws on tried and tested HECO technologies that have been developed for flagship models such as The New Statement and Celan GT series.



**A STABLE AND HARMONIOUS SOUND PATTERN**  
Particularly lightweight, long-fibre paper is used as the cone material for the woofer and midrange - the legendary HECO kraft paper cone. Combined with high-performance voice coils, powerful ferrite magnets and sturdy steel baskets, this produces a clear sound pattern with high pulse fidelity.

Important features of the tweeter include the 25 mm silk compound dome, which ensures maximum transparency and freedom from distortion in all frequencies. To enable harmonic transition to the midrange the dispersion properties of the tweeter have been optimised with a Wave Control geometry. Like all HECO speakers, the models in the Music Style series also feature crossovers which take both the phase and amplitude behaviour into account. The result is a spatially stable sound pattern that is free from discolouration.

**THE SERIES SKILLFULLY COMBINES DIFFERENT SURFACE FINISHES**  
The housing consists of a variety of sturdy individual MDF panels and offers a high degree of rigidity with low resonance properties. The front, base plate and top panels are provided with a high-gloss finish, while the rounded side panels exhibit a high-quality decorative coating. Damping rubber feet are included in delivery and the floorstanding speakers are also provided with height-adjustable metal spikes. The bass reflex sound is issued via flow-optimised tubes that are rounded and screwed on both sides. A secure connection of high quality speaker cable is permitted by the large connection panel with its gold-plated and encapsulated screw terminals - bi-wiring and bi-amping configurations are also possible for all floorstanding speakers.



**HOME CINEMA WITH HECO MUSIC STYLE? NO PROBLEM.**  
Besides the front and shelf speakers, the Music Style series also incorporates a magnetically shielded centre speaker with a double bass/midrange configuration and an active 260 mm subwoofer that is equipped with its own 250 watt amplifier. This allows both fans of an audiophile stereo sound and home cinema enthusiasts alike to select combinations according to their own taste.

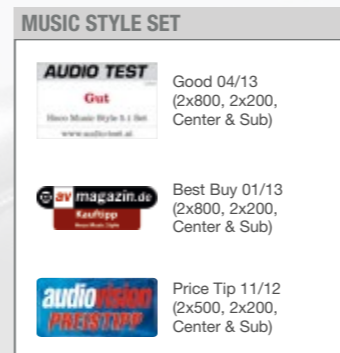
The amplifier panel on the subwoofer offers individual setting options for different rooms and personal tastes.

The silk-compound dome and waveguide face plate of the tweeter ensure a transparent sound with excellent transient response.

The powerful 8 inch side driver of Heco's Music Style 800 caters for the lowest bass range.



Music Style 800



### Music Style 900

<b>Principle</b>	3 way bass reflex speaker
<b>Equipment</b>	2 x 6.5" W/6.5" M/1" T
<b>Power Handling (RMS/max.)</b>	170/300 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	25 - 40 000 Hz
<b>Crossover frequency</b>	300/3 200 Hz
<b>Sensitivity</b>	91 dB
<b>Cabinet surface</b>	Piano Black / Ash decor black
<b>(Top, Front, Base-plate/</b>	Piano Black / Espresso decor
<b>Side panels)</b>	Piano White / Ash decor white
<b>Dimensions (W x H x D)</b>	225 x 1130 x 353 mm

### Music Style 800

<b>Principle</b>	3 way bass reflex speaker
<b>Equipment</b>	8" W (side-fire)/2 x 5" WM/1" T
<b>Power Handling (RMS/max.)</b>	160/280 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	26 - 40 000 Hz
<b>Crossover frequency</b>	220/3 200 Hz
<b>Sensitivity</b>	91 dB
<b>Cabinet surface</b>	Piano Black / Ash decor black
<b>(Top, Front, Base-plate/</b>	Piano Black / Espresso decora
<b>Side panels)</b>	Piano White / Ash decor white
<b>Dimensions (W x H x D)</b>	199 x 1100 x 338 mm

### Music Style 500

<b>Principle</b>	2 1/2 way bass reflex speaker
<b>Equipment</b>	6.5" W/ 6.5" WM/ 1" T
<b>Power Handling (RMS/max.)</b>	150/275 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	27 - 40 000 Hz
<b>Crossover frequency</b>	350/3 200 Hz
<b>Sensitivity</b>	91 dB
<b>Cabinet surface</b>	Piano Black / Ash decor black
<b>(Top, Front, Base-plate/</b>	Piano Black / Espresso decor
<b>Side panels)</b>	Piano White / Ash decor white
<b>Dimensions (W x H x D)</b>	225 x 1050 x 353 mm

### Music Style 200

<b>Principle</b>	2 way bass reflex bookshelf speaker
<b>Equipment</b>	5" WM/ 1" T
<b>Power Handling (RMS/max.)</b>	80/140 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	34 - 40 000 Hz
<b>Crossover frequency</b>	3 250 Hz
<b>Sensitivity</b>	89 dB
<b>Cabinet surface</b>	Piano Black / Ash decor black
<b>(Top, Front, Base-plate/</b>	Piano Black / Espresso decor
<b>Side panels)</b>	Piano White / Ash decor white
<b>Dimensions (W x H x D)</b>	195 x 300 x 277 mm

### Music Style 200

<b>Principle</b>	2 way bass reflex center speaker
<b>Equipment</b>	2 x 5" WM/ 1" T
<b>Power Handling (RMS/max.)</b>	90/150 watts
<b>Impedance</b>	4 - 8 ohms
<b>Frequency response</b>	35 - 40 000 Hz
<b>Crossover frequency</b>	3 250 Hz
<b>Sensitivity</b>	89 dB
<b>Cabinet surface</b>	Piano Black / Ash decor black
<b>(Top, Front, Base-plate/</b>	Piano Black / Espresso decor
<b>Side panels)</b>	Piano White / Ash decor white
<b>Dimensions (W x H x D)</b>	490 x 169 x 280 mm

### Music Style Sub 25 A

<b>Principle</b>	Active bass reflex subwoofer
<b>Equipment</b>	10" active woofer
<b>Power Handling (RMS/max.)</b>	125/250 watts (power output)
<b>Impedance</b>	-
<b>Frequency response</b>	22 - 150 Hz
<b>Crossover frequency</b>	50 - 150 Hz, adjustable
<b>Sensitivity</b>	-
<b>Cabinet surface</b>	Piano Black / Ash decor black
<b>(Top, Front, Base-plate/</b>	Piano Black / Espresso decor
<b>Side panels)</b>	Piano White / Ash decor white
<b>Dimensions (W x H x D)</b>	320 x 470 x 430 mm



Stereo & Video  
11/2013 (Award)



Reference in its  
Price class 12/12



Test Winner 29/13



Test Winner 03/13



Excellent 11/12



# HECO Victa Prime

## Ascent to the premium audio range

HECO places a high demand on the dynamic and distortion-free reproduction of an acoustic signal, regardless of whether it's from music or a film. HECO's Victa Prime series, which is the latest addition to its continuously enhanced Victa range, is now available with even more features and structural details from its high-end models.

### EXCELLENT INTERACTION BETWEEN SOPHISTICATED TECHNOLOGIES

The quality of the woofer and midrange is crucial for the sound quality of a speaker. One element that comes under particular scrutiny here is the cone that is used for the driver. Long-fibre paper cones have been used for the bass-midrange units and their inverted dust caps.



This is a material that is characterised by an excellent low weight/high damping ratio. A rich bass and transparent sound pattern is enabled in conjunction with powerful, high-quality ferrite magnets and heavy-duty voice coils. The mounting ring, which is screwed to the housing in six or eight places depending on the model, is now more solid. The 25 mm silk dome, which features ferrofluid cooling for improved power handling, has a short horn attachment for enhanced transition to the midrange. An amplitude and phase-optimised crossover is responsible for the harmonious interplay of the individual chassis.

### HIGH QUALITY AESTHETICS AND EXCELLENT WORKMANSHIP IN EVERY DETAIL

The rounded sides have been meticulously manufactured from layers of glued and moulded MDF panels. The housing construction is thereby more stable with reduced resonance. This results in a low-resonance structure which offers optimum conditions for the chassis and bass reflex coordination. The floorstanding speakers are also equipped with a solid MDF base plate. The terminal area has been completely redesigned

to ensure more space for the gold-plated and encapsulated connecting terminals. Damping rubber feet are included in delivery and the floorstanding speakers are also provided with height-adjustable metal spikes.

Finely-tuned bass-midrange with long fibre-paper cone and a powerful ferrite magnet and 1" tweeter.

The Victa Prime models, which are designed as bass reflex systems for a powerful and precise reproduction of the bass range, generate additional pressure via specially formed and screwed reflex ports.

### HOME CINEMA ENJOYMENT AT A VICTA PRIME LEVEL

The magnetically shielded centre speaker, which exhibits a double woofer configuration, and the subwoofer, which is equipped with its own power amplifier, enable home cinema enjoyment at a Victa Prime level. Besides the above mentioned features, all of the chassis are naturally also subjected to a fine tuning process with the help of our Klippel® laser measuring and analysis system, after which they are coordinated in final listening and practical tests. The Victa Prime series once again demonstrates the enhanced possibilities of a fundamentally correct concept.

New terminal area with encapsulated and gold-plated screw terminals.

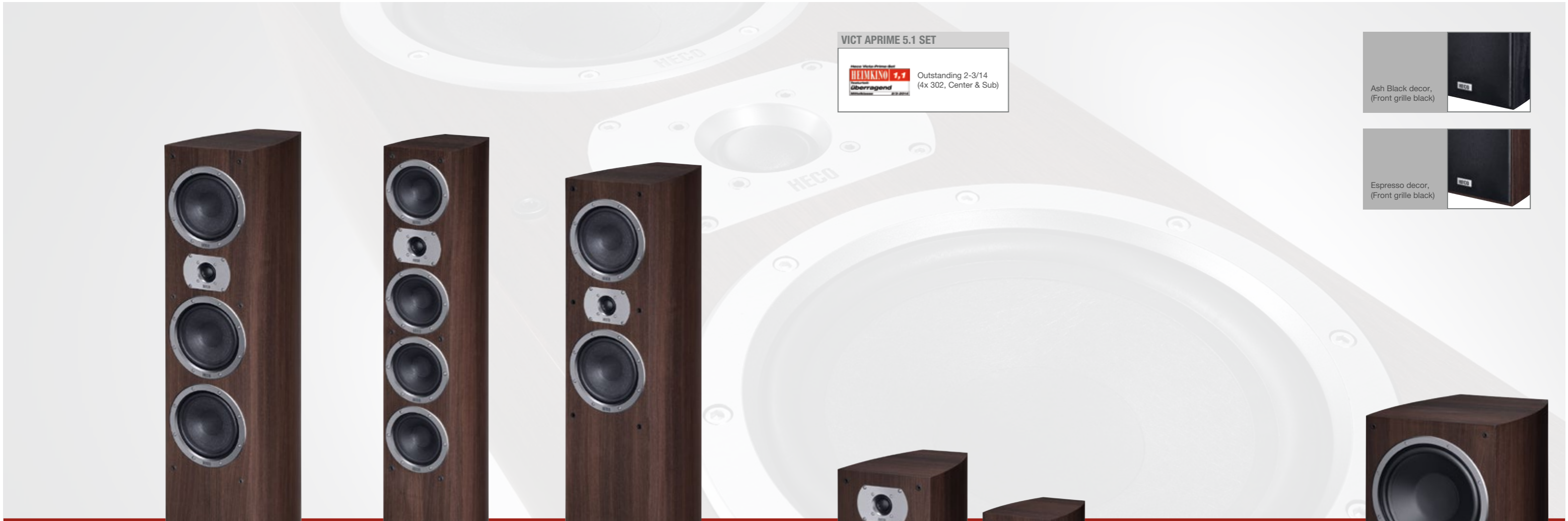


Same as for Heco's premium series: Screwed (!) reflex tube with flow-optimised profile.

Solid metal spikes or optional rubber pucks.



Victa Prime 702



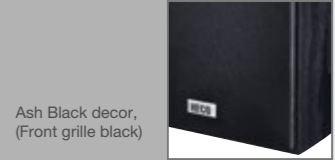
VICT APRIME 5.1 SET

HEIMKINO 7.7


Überlegend

HECO VICTA Prime Set

Outstanding 2-3/14  
(4x 302, Center & Sub)



	Victa Prime 702	Victa Prime 602	Victa Prime 502	Victa Prime 302	Victa Prime 202	Victa Prime Center 102	Victa Prime Sub 252 A
Principle	3 way bass reflex floorstanding speaker	3 way bass reflex floorstanding speaker	21/2 way bass reflex floorstanding speaker	2 way bass reflex	2 way bass reflex	2 way bass reflex center	Active bass-reflex subwoofer
Equipment	2 x 6.5" W/ 6.5" M/ 1" T	2 x 5" W/2x 5" M/ 1" T	6.5" W/ 6.5" WM/ 1" T	6.5" WM/1" T	5" WM/ 0.75" T	2 x 5" WM/ 0.75" T	10" woofer
Power Handling (RMS/max.)	170/300 watts	160/280 watts	145/265 watts	85/150 watts	65/110 watts	85/150 watts	100/200 watts (power output)
Impedance	4 - 8 ohms	4 - 8 ohms	4 - 8 ohms	4 - 8 ohms	4 - 8 ohms	4 - 8 ohms	-
Frequency response	25 - 40 000 Hz	26 - 40 000 Hz	28 - 40 000 Hz	33 - 40 000 Hz	35 - 40 000 Hz	35 - 40 000 Hz	22 - 200 Hz
Crossover frequency	350/3 250 Hz	450/3 250 Hz	380/3 250 Hz	3 250 Hz	3 300 Hz	3 300 Hz	50 - 200 Hz, adjustable
Sensitivity	91 dB	91 dB	91 dB	90 dB	89 dB	90 dB	-
Cabinet surface	Ash Black Decor, Espresso decor	Ash Black Decor, Espresso decor	Ash Black Decor, Espresso decor	Ash Black Decor, Espresso decor	Ash Black Decor, Espresso decor	Ash Black Decor, Espresso decor	Ash Black Decor, Espresso decor
Dimensions (W x H x D)	203 x 1052 x 315 mm	205 x 1058 x 250 mm (incl. base-plate)	203 x 977 x 315 mm	203 x 347 x 315 mm	167 x 265 x 235 mm	482 x 157 x 265 mm	318 x 450 x 405 mm

  
Outstanding 03/13



# HECO Music Colors

An attractive, rich sound with a living room-friendly design

The speakers in HECO's Music Colors series have been specifically optimised for the acoustic conditions that prevail in many living rooms. In order to prevent timbres from becoming blurred and to ensure a realistic degree of spatiality at the locations where speakers are typically installed, i.e. near a wall or shelf, the acoustic properties prevalent at these areas were directly involved in the development of the Music Colors series.



High-quality connections.

The cut drawing shows the solid and strutted MDF cabinet of the Music Colors 200 in detail.

The cut drawing shows the elaborate construction of the Music Colors 100 series.



Music Colors 100



Music Colors 200

**A FULL AND CLEAN SOUND FROM THE SHELF**  
The compact HECO Music Colors 100 forms the foundation for this particular speaker series. Computer simulations, measurements and listening tests were conducted from the very outset near the walls in a living room setup. The front of the speaker has been optimised and the bass reflex port positioned at the front to ensure an optimum output of low frequencies. Technological innovations such as the long-fibre paper of the bass-midrange cone and the carefully coated 25 mm fabric dome tweeter ensure a natural, detailed and dynamic sound. The Music Colors Stand 100 is also available as a special accessory in the HECO range.



#### A PRECISE BASS RANGE EVEN WHEN POSITIONED DIRECTLY NEXT TO THE WALL

Most floorstanding speakers are designed in such a way that they require a certain minimum distance from the rear wall to produce an optimum sound. In creating the HECO Music Colors 200 both the geometry of the transducer and the crossover were developed directly next to the wall for a living room-friendly setup. The 200 mm woofer, which has been accommodated on the side panel, permits the slim silhouette of the speaker and it too has been coordinated in the bass reflex enclosure for installation near a wall.

Fitted with 2 x 4.5" woofer mid-range speakers and dome tweeter for accurate sound reproduction: the HECO Music Colors 200.

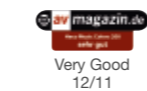


Bass reflex construction with air-flow optimized reflex port at the front.

Detachable cloth protection cover with magnetic fastening.



Fitted subwoofer: View of the 20-cm side driver HECO Music Colors 200.



Awarded for High Quality & Design 2012



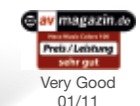
Very Good 05/12



Very Good 07/12



Very Good 05/12 (5.1 A Set)



Very Good 01/11



Awarded for High Quality & Design 2010



#### Music Colors 200

<b>Principle Equipment</b>	3-way floorstanding speaker, bass-reflex
<b>Power Handling (RMS/max.)</b>	2 x 4.5" WM/ 1" T/8" woofer (side-fire)
<b>Impedance</b>	140/220 watts
<b>Frequency response</b>	4 - 8 ohms
<b>Crossover frequency</b>	30 - 35 000 Hz
<b>Sensitivity</b>	220/2 750 Hz
<b>Cabinet surface</b>	90 dB
<b>Dimensions (W x H x D)</b>	Piano Black, Piano White
	150 x 1025 x 306 mm

#### Music Colors 100

<b>Principle Equipment</b>	2-way bookshelf speaker, bass-reflex
<b>Power Handling (RMS/max.)</b>	4.5" WM/ 1" T
<b>Impedance</b>	70/120 watts
<b>Frequency response</b>	4 - 8 ohms
<b>Crossover frequency</b>	38 - 35 000 Hz
<b>Sensitivity</b>	2 800 Hz
<b>Cabinet surface</b>	89 dB
<b>Dimensions (W x H x D)</b>	Piano Black, Piano White
	150 x 235 x 200 mm

# HECO

## Ambient 5.1A

A reference class compact home cinema system

HECO's Ambient 5.1A home cinema system demonstrates that a high quality design and outstanding sound are not necessarily mutually exclusive. With its four compact satellite speakers, a matching centre speaker and a subwoofer that can be freely positioned in the room, the set is extremely unobtrusive in a living room setup. Closer scrutiny reveals the genuine class of the components.

**THE FINEST INGREDIENTS CREATE A SOLID FOUNDATION**  
All five speakers feature a low resonance, brushed aluminium housing and a fabric grille to protect the cones. The front and rear of each unit is provided with an elegant piano black finish. All of the satellite speakers are equipped with a removable 6 mm thick tempered safety glass base. In addition, the set also includes four practical wall brackets for the satellites. The connections are designed as gold-plated screw terminals.



**CUTTING EDGE TECHNOLOGY IN THE SMALLEST SPACE**  
The inner workings of a speaker are decisive when it comes to its acoustic performance. There hasn't been any compromise here at all, as numerous technical innovations have been adopted from HECO's high-end speakers. All of the speakers in the Ambient 5.1A set feature 2-way systems with specially developed 20 mm fabric dome tweeters and 75 mm bass-midrange drivers. The bass-midrange drivers, which have been optimised in terms of their bandwidth, feature long-fibre paper cones, long-throw surrounds and extremely resilient voice coils. The centre speaker is equipped with two of these drivers for optimum dynamics as well as additional magnetic shielding. The subwoofer, which caters for the low frequencies, features a down-firing base that maintains a defined distance to the ground.

Practical wall mount for the satellites included.

The cases on all five loudspeakers have been made of low-resonance brushed aluminium. The front and rear panels gleam in a sophisticated piano black finish.

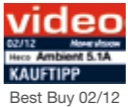
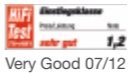
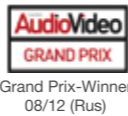


Responsible for the bass duties: the sub-woofer equipped with its own amplifier and which can be positioned anywhere in the room.

At the bottom of the housing is a 20 cm woofer with hardened paper cone, which is driven by the integrated power amplifier with a real time limiter to minimise distortion. The level, crossover frequency and acoustic phase are adjustable and allow customisation with regard to positioning and overall sound. The front of the unit, which consists of solid, low resonance MDF panels, has been finished in a high-gloss piano black lacquer. The entire system has been coordinated using state-of-the-art measuring technology for both music and film material.



	CENTER	FRONT/REAR	SUBWOOFER
<b>Principle</b>	2-way center speaker	2 way speaker	bass reflex, downfire
<b>Equipment</b>	2 x 3" WM/¾" T	3" WM/¾" T	8" subwoofer
<b>Power Handling (RMS/max.)</b>	-	-	-
<b>Power Output (RMS/max.)</b>	60/120 watts	50/100 watts	60 / 120 watts
<b>Impedance</b>	4 - 8 ohms	4 - 8 ohms	-
<b>Frequency response</b>	80 - 34 000 Hz	80 - 34 000 Hz	28 - 200 Hz
<b>Crossover frequency</b>	3 600 Hz	3 600 Hz	50 - 200 Hz
<b>Sensitivity</b>	88 dB	88 dB	-
<b>Cabinet surface</b>	Black	Black	Black
<b>Dimensions (W x H x D)</b>	222 x 92 x 117 mm	90 x 155 x 117 mm	236 x 410 x 390 mm



# HECO

## New Phalanx

Depth, precision and reproduction perfectly combined

Heco is getting to the bottom of things by exploring the deepest realms of the frequency spectrum. With the New Phalanx active subwoofer series, we have added flexible and tremendously powerful bass speakers with Class D high-performance amplifiers to our product range. Optionally available with 200 or 300 mm bass driver, it always includes an identically sized additional passive radiator for even better bass reproduction.

**A POWERFUL BASS PACKAGE FOR ANY INTENDED USE**  
No matter whether specially compact (Heco New Phalanx 202A with only 270 mm width, 285 mm height and 290 mm depth) or specially powerful (Heco New Phalanx 302A with 300 mm bass driver and 400 watt maximum output as well as 18 Hz lower frequency crossover frequency) – the New Phalanx series ensures excellent bass quality under any conditions. Equipped with an adjustable bass equalizer with setting range from 0 to + 6 dB, infinite controls for volume and crossover frequency as well as an active frequency response equalization in the low-bass range, the New Phalanx subwoofers are able to meet even the most demanding challenge. Stereo low-level inputs for connection to amplifiers without pre-amplifier output for active subwoofers ensures the greatest possible flexibility. Yet despite the impressive power the New Phalanx bass units have in use – they only output less than 0.5 watt in standby mode.

High-performance  
Class-D power amplifier.



Solid construction with front and top side in high-quality high-gloss lacquering.

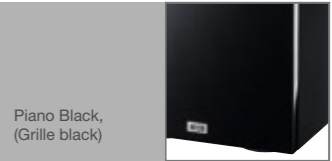


Woofer and bass-radiator in sidefire configuration.

**TREMENDOUSLY SOLID AND VISUALLY CHIC**  
The best technology is of little benefit if the housing does not offer an equally impressive, first-class standard. Heco has therefore opted for an MDF housing with extremely solid design. The front and top are provided with elegant high-gloss paintwork, optionally in white or black. An ESD (Extended Surface Damper) ensures that the New Phalanx active subwoofer can stand reliably on any base.



	New Phalanx 302A	New Phalanx 202A
Principle	Powered compact-subwoofer with bass-radiator	Powered compact-subwoofer with bass-radiator
Equipment	1 x 12" active subwoofer 1 x 12" bass-radiator	1 x 8" active subwoofer 1 x 8" bass-radiator
Power Output (RMS/max.)	250 / 400 watts	220 / 350 watts
Frequency Response	18 - 150 Hz	20 - 150 Hz
Crossover Frequencies	50 – 150 Hz (adjustable)	50 – 150 Hz (adjustable)
Cabinet surface	Piano Black, Piano White	Piano Black, Piano White
Dimensions (WxHxD)	380 x 442 x 420 mm, 380 x 442 x 435 mm (incl. controls)	270 x 285 x 290 mm, 270 x 285 x 305 mm (incl. controls)



Piano Black,  
(Grille black)



Piano White,  
(Grille gray)

# HECO

## Ascada 300 BTX

Hi-fi sound for a modern  
ambience



HECO's Ascada 300 BTX is ideal for anyone not wanting to forsake high-quality music reproduction in a modern living environment. A built-in high-performance digital amplifier means the compact stereo speaker system does not require any external stereo components. The integrated DSP control system generates a rich, detailed and balanced sound at all volumes, while four audio programmes ensure the correct sound is reproduced for all genres of music. The sturdy MDF housing used for the Ascada 300 BTX is available in a black or white high gloss lacquer finish. The metal insert embedded at the top of the speaker underlines the high quality of the elegantly rounded body, while the removable front grille can produce a more discreet appearance if required.



**EXCELLENT WIRELESS SOUND QUALITY WITH BLUETOOTH® AND aptX®**  
Music can be played wirelessly from all modern smartphones and tablets via Bluetooth® or via the analogue stereo input.

The metal insert embedded at the top of the speaker underlines the high quality of the elegantly rounded body.



The latest high-end audio standard „aptX®“ ensures a smooth transmission with perfect sound quality. The elegant remote control covers all of the functions of the Ascada 300 BTX and makes operation a breeze. One of the tasks assigned to HECO's engineers was to ensure the speaker produces a genuine hi-fi sound. Two fully-fledged two-way systems, which have been optimally positioned on the baffle, generate a pleasant stereo image. Fabric domes and mid-range drivers with real HECO paper cones are responsible for the extraordinarily precise sound and the extremely detailed reproduction of vocal segments. The heavy-duty long-throw subwoofer at the centre of the speaker is supported by an aerodynamically shaped down-firing bass reflex port at the bottom of the housing to ensure an impressive bass response.

Compact digital amplifier with analog input and USB charging port.



### HECO Ascada 300 BTX

<b>Principle</b>	3-way, stereo, closed box, integrated bass-reflex-subwoofer
<b>Equipment</b>	2 x 0.75" dome tweeter/2 x 3.6" midrange/5.25" subwoofer
<b>Total-Power Output</b>	80/160 Watts
Power Output for Subwoofer (RMS/max.)	1 x 40/80 Watts
Power Output for midrange-high (RMS/max.)	2 x 20/40 Watts
<b>Frequency response</b>	32 - 28 000 Hz
<b>Crossover frequency</b>	180, 3 800 Hz
<b>Cabinet surface</b>	Piano Black, Piano White
<b>Dimensions (W x H x D)</b>	380 x 202 x 252 mm, 380 x 222 (incl. feet) x 263 (incl. grill) mm



Exellent  
02/14



Very Good  
12/13



Editor's choice  
12/13



# HECO Ascada 2.0

## Fully active Bluetooth® stereo louspeaker set

The market for Bluetooth® loudspeakers is mainly dominated by very compact, low price units. Authentic, natural reproduction of sound is certainly not the focus of these components. Magnat have already clearly indicated that it doesn't have to be this way with the Ascada 300 BTX. A genuine stereo set up, a powerful digital amplifier and high-quality DSP-technology. The Ascada 2.0 goes further down and perfects this route. Exclusive components and innovative technology are enclosed in a modern, elegant housing, for a highly flexible yet acoustically pleasing stereo experience from one unit.

Elegant design in a black or white high-gloss finish and slanted side panels.

### FLEXIBE SHELF SPEAKER SYSTEM FOR THE DEMANDS OF THE AUDIOPHILE

The Ascada 2.0 is no simple Bluetooth® loudspeaker. It is much more of a fully active, high quality HECO shelf louspeaker system with integrated stereo amplifier and a wide range of connection options. The stereo amplifier module delivers a rich 35 Watt RMS output per speaker. The driver itself is a silk compound fabric cap with aluminium Wave Control sound conductors plus optimised mid range woofers, with light long-fibre paper membrane, and high performace coils. This results in maximum precision, high level stablity and a natural stereo stage.

Audio signals can be sent to the HECO device in a variety of ways. The latest version of Bluetooth® including aptX support in integrated for wirelss audio pleasure. This high end audio standard guaranteed wireless transmission of the signal at CD quality. A digital signal can also the sent to the Ascad 2.0 via the optical and coaxial inputs. What makes it special is that the Bluetooth® stereo system can also be used as an external audio device with a PC. The excellent internal digital / audio conversion is superior to the conversion within a desktop or even a notebook PC in every way. The PC is simply connected to the Ascada 2.0 via USB. Naturally, the unit also receives analogue signals and it has an analogue stereo input for this purpose. There is also a subwoofer output, if even more punch is required at the low frequency range, as well as a USB high power charger port up to 2.1 A for smartphones and tablets.

Powerful stereo amplifier module with 35 watts RMS per speaker.

LED status indicator at the speaker front, control for input selection, volume, bass and treble at the side panel of the left loudspeaker.

### ELEGANCE & FUNCTIONALITY

The Ascada 2.0 housing is really well built, bonded with mutually stabilising MDF panels. It comes with bass reflex construction, equipped with a two-sided current optimising reflex port tube for effective prevention of flow noise. Skilful positioning of the bass reflex opening also means there is no problem placing the stereo system near walls. With its elegant design in black or

white high gloss finish, with bevelled side walls, the Ascada 2.0 makes a fashionable, modern impression in any surroundings. The front cover is made from permeable acoustic material, and can be removed. The back boasts a high-quality connection terminal with solid, gold-plated enclosed screw terminals. Rubber spikes ensure solid positioning on any surface.



### Ascada 2.0

<b>Principle Equipment</b>	2 way bass reflex, active
<b>Total power output</b>	5" woofer- midrange, 1" dome-tweeter
<b>Power output per loudspeaker (RMS/Max)</b>	70 / 140 watts
<b>Frequency response</b>	35 / 70 watts
<b>Crossover frequencies</b>	32 – 40.000 Hz
<b>Cabinet surface</b>	2.600 Hz
<b>Dimensions (WxDxH)</b>	Piano Black, Piano White
	184 x 280 x 284 mm



Piano Black, (Front grille black)



Piano White, (Front grille black)

# HECO Install

Optimum sound quality  
and perfect visual  
integration



HECO's built-in speakers in its Install series combine excellent sound quality, easy installation and perfect visual integration. These speakers are ideal for anyone who is looking for an elegant audio solution, but doesn't want to compromise when it comes to sound quality. With five different models available for wall or ceiling installation, there is a suitable solution for every conceivable scenario, ranging from subtle, high quality background music to an invisible home cinema setup. In addition, the tried and tested clamping mechanism makes installation a breeze.

**CUTTING EDGE TECHNOLOGY FOR OPTIMUM RESULTS**  
The „Cool Metal“ polypropylene cone that is used for the bass-midrange driver in all models and has been developed specifically for the Install series, is not only extremely resistant to environmental influences, but also offers excellent sound quality. The specially coated soft dome fabric tweeters complement this sound quality with a treble range that is as gentle as it is detailed. Crossovers that have been generously equipped with the best components ensure a high quality and low-loss distribution of the audio signal. Furthermore, gold-plated connecting terminals ensure a reliable connection to the source of the signal. Protective aluminium grilles not only provide an unobtrusive yet harmonious appearance, but are also extremely suitable for use in wet rooms.

**PERFECT ADAPTABILITY TO ALL SITUATIONS**  
Further highlights include the extensive customisation options offered by the Install series. This starts with the selection of models that are available, i.e. three in-ceiling speakers and two speaker systems that have been optimised for wall installation. The tweeters used in all models can be pivoted by up to 35 degrees in any direction thanks to „swivel“ technology. This ensures the sound is distributed optimally for any position in the room. In addition, all models are equipped with switches integrated in the basket which can be used to individually fine-tune the sound level for the mid- and treble range after installation.

Tweeter with Swivel technology (can be turned by 35°).

Double the performance: The INC 2602 features two 19 mm soft dome tweeters.



Special clamping mechanism for easy installation.



Principle	
Equipment	
Power Handling (RMS/max.)	
Impedance	
Frequency response	
Crossover frequency	
Sensitivity	
Cabinet surface	
Outer dimensions (W x H/Ø)	
Mounting dimensions (W x H/Ø)	
Mounting depth	



INC 802	INC 602	INC 2602	NW 802	INW 602
2-way high-end flush mount speaker 8" WM/ 1" T	2-way high-end flush mount speaker 6.5" WM/ 1" T	2 x 2-way high-end flush mount speaker 6.5" WM/ 2 x ¾" T	2-way high-end flush mount speaker 8" WM/ 1" T	2-way high-end flush mount speaker 16.5" WM/ 1" T
120/200 watts	100/180 watts	100/180 watts	120/200 watts	100/180 watts
4 ohms	4 ohms	2 x 4 ohms	4 ohms	4 ohms
32 - 32 000 Hz	35 - 32 000 Hz	35 - 30 000 Hz	32 - 32 000 Hz	38 - 32 000 Hz
3 500 Hz	3 500 Hz	3 600 Hz	3 500 Hz	3 500 Hz
91 dB	90 dB	90 dB	91 dB	90 dB
white	white	white	white	white
272 mm	231 mm	231 mm	253 x 356 mm	219 x 306 mm
242 mm	198 mm	198 mm	223 x 325 mm	188 x 274 mm
112 mm	98 mm	92 mm	90 mm	75 mm

# HECO

## Install Basic

Simple installation and optimum acoustic adaptation



The built-in speakers in the Install-Basic series represent sophisticated HECO technology, simple installation and optimum acoustic adaptation. These speakers are designed specifically for customers that have high demands when it comes to living room aesthetics, on one hand, and who also attach significant importance to a good sound on the other. Their acoustic parameters and practical features are perfectly coordinated for various installation conditions, which makes them ideal for virtually any location.

### HIGH QUALITY TECHNOLOGY FOR SMOOTH OPERATION

The textured polypropylene cone, which has been specially developed for built-in speaker systems, ensures excellent dynamic capabilities in the low frequency range in combination with the long-throw rubber surround. The INC 62 and INC 82 models are equipped with a specially coated 25 mm soft dome fabric tweeter for the treble range, while the INC 262 features two 19 mm fabric domes for a particularly homogeneous sound pattern. The tweeters are positioned centrally in front of the bass-midrange drivers (in a coaxial configuration) to ensure the sound is distributed evenly in all directions. Crossovers with high quality components ensure a clean, low-loss distribution of the signals.



All components are also suitable for use in wet rooms, which means the speakers in the Install Basic series can be used in both bathrooms and swimming pool environments.

INC-262 with dual tweeter and dual voice coil for the woofer: Stereo or mono modes can be optionally selected.

### EXTENSIVE ADAPTABILITY FOR AN OPTIMUM SOUND

The dome tweeters used by the INC 62 and INC 82 can be pivoted by 35° in all directions to ensure a fully-fledged sound pattern in any setup. The bass-midrange driver of the INC 262 is equipped with a double voice coil, which enables the speaker to be operated in both a mono and stereo mode. In addition, the mid-range and treble level can also be individually adjusted for all systems in 3 stages. This enables the sound generated by the speakers to be perfectly adapted to any installation.

Moisture-proof loud-speaker, also suitable for humid locations.



	INC 82	INC 62	INC 262
Principle	2-way flush mount speaker	2-way flush mount speaker	2 x 2-way flush mount speaker
Equipment	8" WM/ 1" T	6.5" WM/ 1" T	6.5" WM/ 2 x ¾" T
Power Handling (RMS/max.)	100/180 watts	80/150 watts	80/150 watts
Impedance	4 ohms	4 ohms	2 x 4 ohms
Frequency response	34 - 28 000 Hz	36 - 28 000 Hz	36 - 28 000 Hz
Crossover frequency	3 600 Hz	3 600 Hz	3 800 Hz
Sensitivity	91 dB	90 dB	90 dB
Cabinet surface	white	white	white
Outer dimensions (W x H/Ø)	271 mm	228 mm	228 mm
Mounting dimensions (W x H/Ø)	237 mm	193 mm	193 mm
Mounting depth	88 mm	73 mm	75 mm

# HOME AUDIO | 2015

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