



cerasonar
invisible speakers

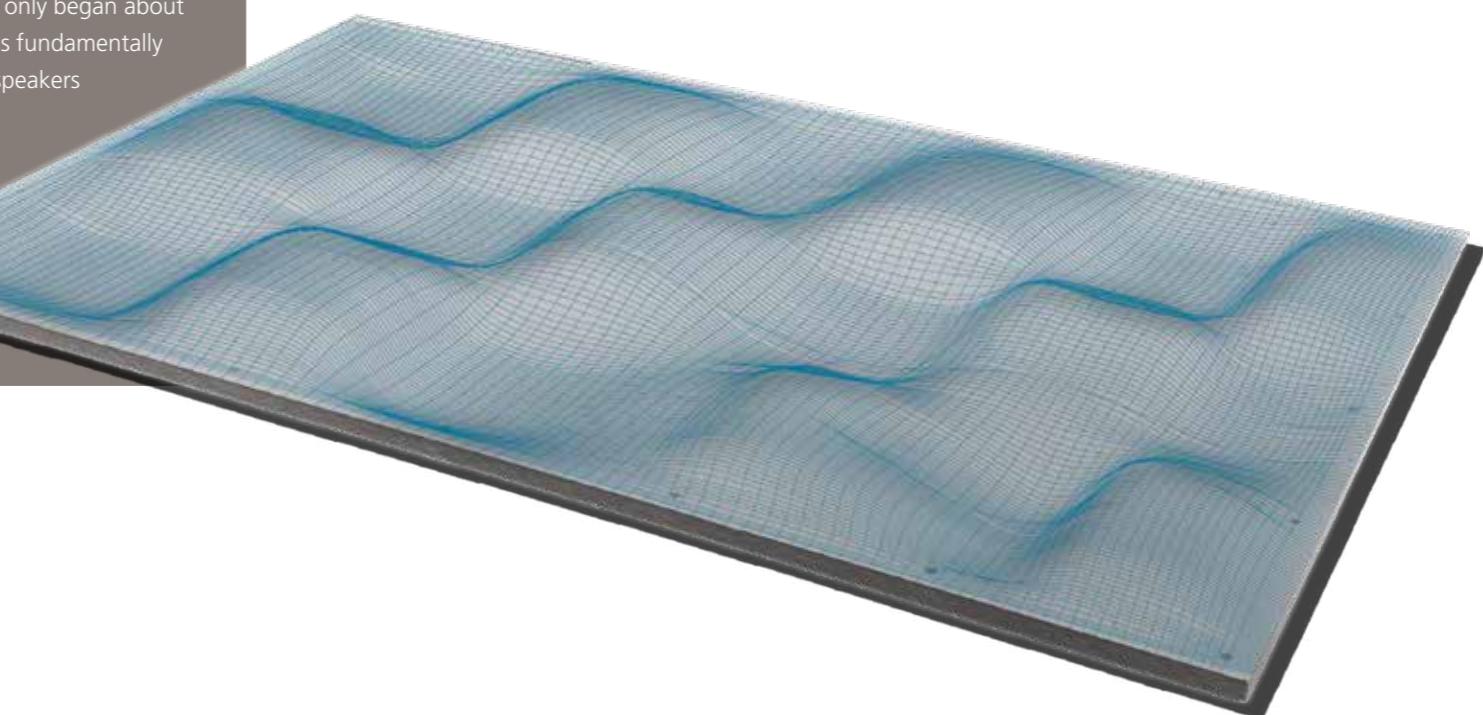


Passion is our spirit

At cerasonar, the pursuit of real sound and the love for perfection in details is a family matter. More than 40 years ago, Ulrich Ranke began to develop special loudspeakers that enable pure listening pleasure in technically and acoustically demanding situations. Today, together with his sons, cerasonar grew into a family owned company that believes in „made in Germany“ and serves its clients in more than 31 countries on 5 continents.

cerasonar gives you the freedom to enjoy superior sound in any situation – without cable clutter and loss of space. The loudspeakers are fully integrated into the walls or ceilings and totally invisible. As part of the house technology they are the optimal complement for any SmartHome project.

For about 15 years now, we have been involved in the further development of bending wave radiators, a technology that is only now being noticed, although it was already invented by Siemens in the 1930s. At that time, the conditions were not yet in place for success; you could say the invention came too early. There were no high-power magnets (neodymium) or stable and powerful amplifiers yet. In the end, the road to market maturity only began about 20 years ago. The way these loudspeakers work is fundamentally different, i.e. in contrast to the known way loudspeakers work, a bending surface is set in motion (modes). The sound advantages are enormous besides the completely invisible installation.





Handcrafted in Germany

Traditionally, loudspeaker production is handicraft, this has changed little until today and will definitely not change with us. In order to monitor the respective quality requirements, we still manufacture essential parts ourselves. cerasonar speakers are carefully monitored manually during the assembly process and thoroughly checked before being moved from one stage of production to the next. Several production lines provide us with the possibility to grant the drying times needed between the individual production steps.

Beautifully located in the artists' village Worpsswede, in the famous Hamme lowlands, you can find our production site in the middle of nature, a wonderful, inspiring spot for design and innovation.

In order to stock sufficient components, we installed our own high-bay warehouse. Absolutely needed, because since 2020, delivery times have virtually exploded.

Further we are proud to have Truaudio as a strong partner for the North and South American market, where the cerasonar technology is living under Wraith invisible speakers.

Why cerasonar?

We specialise in the design and manufacturing of invisible loudspeakers. Through years of experience and a wide selection, we can offer the right product for every project & budget.

With our range of accessories, we can offer a complete system, and can also ensure proper functionality and the best possible sound.

As a German manufacturer, maximum quality is most important to us - this is also how we select our components and try to source them as locally as possible.

With our speakers, the highest possible finish quality can still be produced (Q4). That's why we use an innovative 10 mm foam, with high damping properties and excellent stability. Even several layers of plaster can be applied without affecting the sound quality. Therefore, labour intense measuring and sanding of the plaster is generally not required.



only 30 mm thickness - extremely shallow invisible speaker

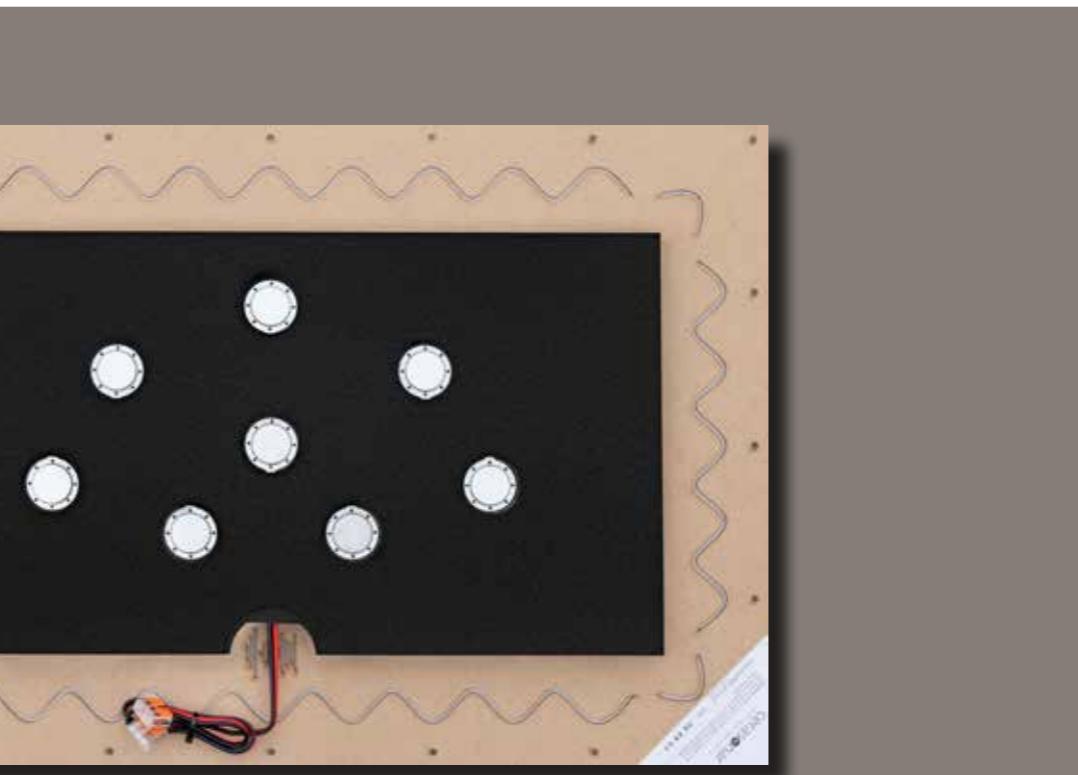
cerasonar 4062 architect v2 (1275)

Power rating	50 w RMS (100 w max)
Impedance	4 ohms
Frequency range	120 - 20.000 hz*
Frequency range with cs-500dsp4	100 - 20.000 hz*
max SPL	100 db
Dispersion range	180° x 180° h.v.
Single stereo mode	no
for humid environments	no
Drywall	1- or 2-layered 12,5 mm plasterboard
Installation cut out	35,0 x 57,0 cm
Dimensions	40,0 x 62,0 x 3,0 cm
Weight	1,5 kg
Accessories	protection unit pro 50w/100w (1200-1) transformer 100v - 50w (1204) cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202)
	installation frame 4062 architect (1291-3) placeholder 4062 (1307)
DSP Presets (HP / FULLRANGE *)	yes / yes (low bass!)
Protection (INBUILT / PROTECTION UNIT / DSP PRESET)	no / yes / yes



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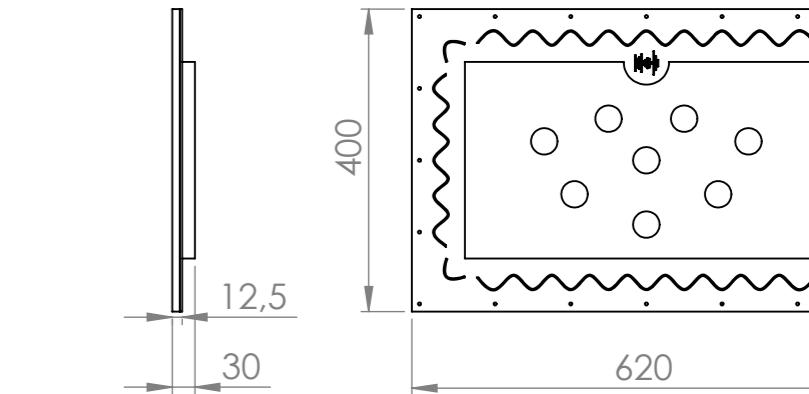
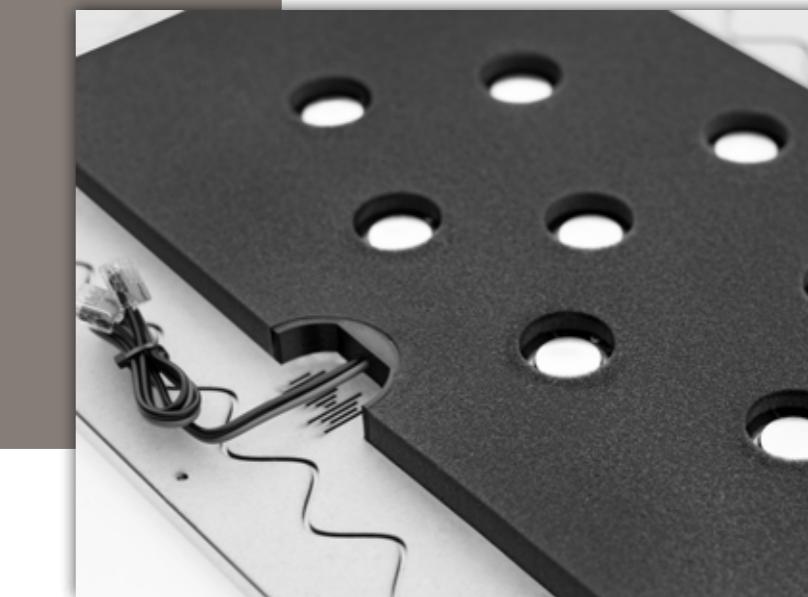
* depending on installation situation
*³ cs-500dsp4 with dynamic bass boost or cs-2000dsp4 (limited max SPL)



With 30 mm - the flattest invisible speaker in the world

The development of our 4062 architect was a particularly special milestone for us. This innovative loudspeaker is designed for use in extremely shallow ceilings or walls, making it ideal for renovation projects in older buildings where installation depth is highly limited. In such cases, every millimeter counts. Drywall installation requires only a thin batten as a substructure, which is mounted directly to the ceiling, covered with plasterboard, and seamlessly integrated with the cerasonar invisible speaker.

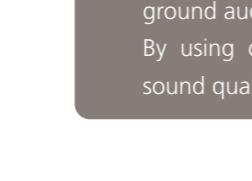
At just 30 mm thin, the cerasonar 4062 architect is the world's flattest invisible loudspeaker. Its wide dispersion pattern ensures a harmonious and immersive sound experience, thanks to eight ultra-flat excitors. These excitors feature smaller voice coils, allowing for an even more detailed reproduction of high frequencies. Additionally, with a total of eight excitors, the system provides exceptional power handling, making it perfectly suited for its application. By using our cs-500dsp4 with dynamic bass boost, the sound quality is significantly enhanced.



	cerasonar 1520 fit (1270)	cerasonar 2525 fit (1271)
Power rating	25 w RMS (50 w max)	50 w RMS (100 w max)
Impedance	8 ohms	4 ohms / 2x 8 ohms
Frequency range	100 - 18.000 hz*	100 - 18.000 hz*
Frequency range with cs-500dsp4	80 - 20.000 hz*	80 - 20.000 hz*
max SPL	97 db	100 db
Dispersion range	180° x 180° h.v.	180° x 180° h.v.
Single stereo mode	no	yes
for humid environments	yes	yes
Drywall	1-layered 12,5 mm plasterboard	1-layered 12,5 mm plasterboard
Installation place	in the centre of the plasterboard to improve bass response	in the centre of the plasterboard to improve bass response
Installation cut out	20,0 x 16,5 cm	25,5 x 25,5 cm
Dimensions	23,4 x 16,3 x 5,3 cm	28,9 x 25,3 x 5,3 cm
Weight	0,3 kg	0,6 kg
Accessories	protection unit 25w (1203) transformer 100v - 20w (1205-2) cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202) installation frame 1520 (1291-1)	protection unit 50w (1204) transformer 100v - 50w (1204) cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202) installation frame 2525 (1291-2)
Fire-Protection Housing (3rd party)	Kaiser FlamoX® (9435-03)	/
DSP Presets (HP / FULLRANGE *)	yes / yes (low bass!)	yes / yes (low bass!)
Protection (INBUILT / PROTECTION UNIT / DSP PRESET)	no / yes / yes	no / yes / yes



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* depending on installation situation
*2 cs-500dsp4 with dynamic bass boost or cs-2000dsp4 (limited max SPL)

Our budget friendly series - in the price range of in ceiling speakers

The easy-to-install and space-saving models of the cerasonar fit series bring music and life to even the smallest rooms—whether it's the bathroom, kitchen, living room, or hallway.

As invisible speakers continue to grow in popularity in humid environments such as bathrooms, swimming pools, spa areas, boats, and yachts, we have designed this series to be moisture-proof down to the finest detail. It remains highly stable in high-humidity conditions while delivering crystal-clear and dynamic sound.

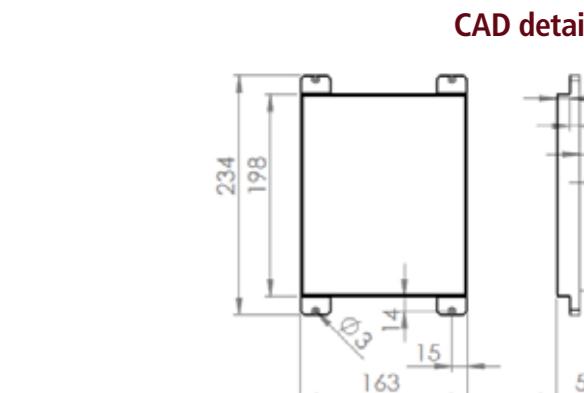
The lightweight and ultra-slim fit series is designed to fit seamlessly into the space of most standard in-wall speakers. Despite its compact size, it provides exceptionally balanced and immersive sound, making it a preferred choice for background audio in the hotel, tourism, and cruise industries. By using our cs-500dsp4 with dynamic bass boost, the sound quality is significantly enhanced.



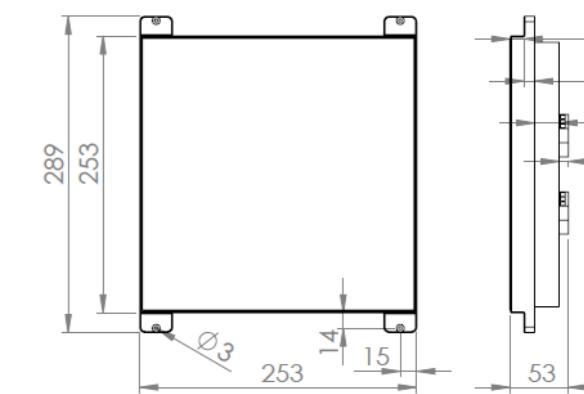
cerasonar 1520 fit



cerasonar 2525 fit



CAD details:

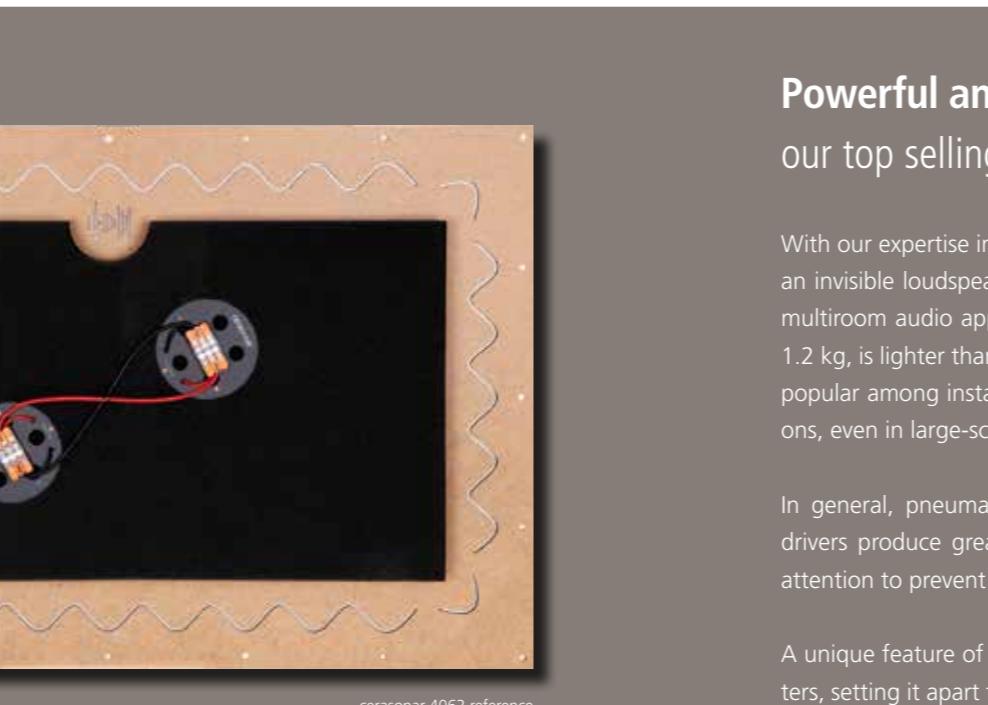


	cerasonar 4062 reference (1261)	cerasonar 6062 reference (1262)
Power rating	50 w RMS (100 w max)	100 w RMS (200 w max)
Impedance	4 ohms / 2x 8 ohms	8 ohms / 2x 4 ohms
Frequency range	70 - 20.000 hz*	60 - 20.000 hz*
Frequency range with cs-500dsp4	60 - 20.000 hz*	50 - 20.000 hz*
max SPL	105 db	108 dB
Dispersion range	180° x 180° h.v.	180° x 180° h.v.
Single stereo mode	yes	yes
for humid environments	no	no
Drywall	1- or 2- layered 12,5 mm plasterboard	1- or 2- layered 12,5 mm plasterboard
Installation cut out	35,0 x 57,0 cm	55 x 57 cm
Dimensions	40,0 x 62,0 x 5,8 cm	60,0 x 62,0 x 5,8 cm
Weight	1,2 kg	2,1 kg
Accessories	protection unit pro 50w/100w (1200-1) transformer 100v - 50w (1204) cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202) installation frame 4062 (1291) placeholder 4062 (1307)	protection unit pro 50w/100w (1200-1) transformer 100v - 50w (1204) cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202) installation frame 6062 (1292) placeholder 6062 (1308)
DSP Presets (HP / FULLRANGE *)	yes / yes	yes / yes
Protection (INBUILT / PROTECTION UNIT / DSP PRESET)	no / yes / yes	no / yes / yes



Scan the QR code with your telephone to show the **cerasonar** installation video

* depending on installation situation
*³ cs-500dsp4 with dynamic bass boost or cs-2000dsp4 (limited max SPL)



cerasonar 4062 reference

Powerful and light - our top selling series

With our expertise in acoustic development, our goal was to create an invisible loudspeaker that excels in home cinema and high-end multiroom audio applications. The reference series, starting at just 1.2 kg, is lighter than other invisible speakers, making it particularly popular among installers—especially for overhead ceiling installations, even in large-scale projects.

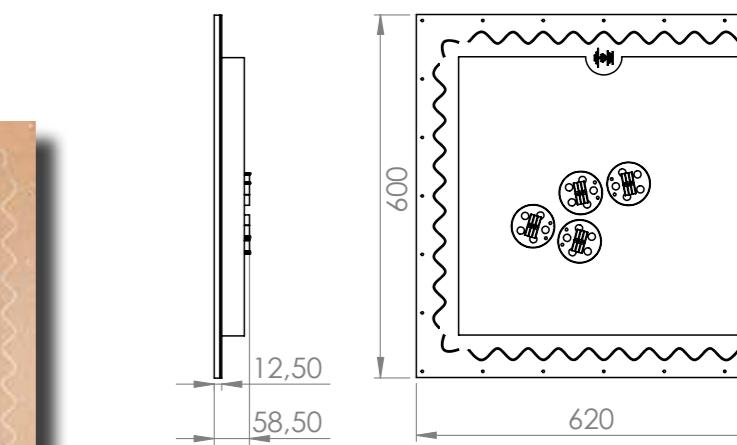
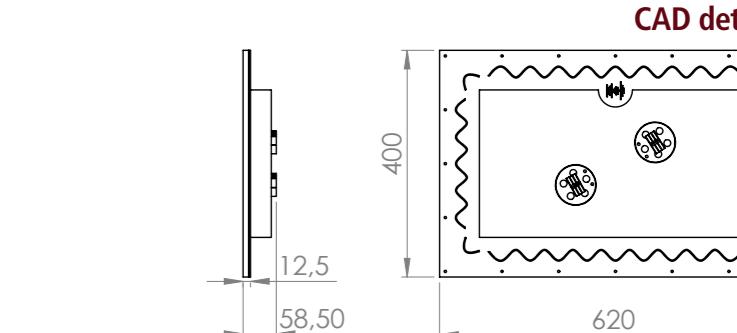
In general, pneumatically driven systems with conventional bass drivers produce greater excursion and vibration, requiring special attention to prevent cracks in filler joints.

A unique feature of our reference series is its exclusive use of exciters, setting it apart from other market offerings. This allows for effortless installation without the need for reinforced substructures—an essential advantage over traditional invisible speaker systems.

To enhance sound quality and bass performance, we recommend pairing it with our cs-500dsp4 (with dynamic bass boost) or cs-2000dsp4 dsp amplifiers, or adding a cerasonar subwoofer for high bass performance.



cerasonar 6062 reference



	cerasonar 4062 reference pro (1261-1)	cerasonar 12030 reference pro (1265)
Power rating	75 w RMS (150 w max)	75 w RMS (150 w max)
Impedance	4 ohms	4 ohms
Frequency range	65 - 20.000 hz*	65 - 20.000 hz*
Frequency range with cs-500dsp4	55 - 20.000 hz*	55 - 20.000 hz*
max SPL	107 db	107 db
Dispersion range	180° x 180° h.v.	180° x 180° h.v.
Single stereo mode	no	no
for humid environments	no	no
Drywall	1- or 2- layered 12,5 mm plasterboard	1- or 2- layered 12,5 mm plasterboard
Installation cut out	35,0 x 57,0 cm	115,0 x 25,0 cm
Dimensions	40,0 x 62,0 x 5,8 cm	120,0 x 30,0 x 5,8 cm
Weight	1,4 kg	1,7 kg
Accessories	protection unit pro 50w/100w (1200-1) transformer 100v - 50w (1204) cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202) installation frame 4062 (1291) placeholder 4062 (1307)	protection unit pro 50w/100w (1200-1) transformer 100v - 50w (1204) cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202) installation frame 12030 (1298)
DSP Presets (HP / FULLRANGE *)	yes / yes	yes / no
Protection (INBUILT / PROTECTION UNIT / DSP PRESET)	no / yes / yes	no / yes / yes



Scan the QR code with your telephone to show the cerasonar installation video



* depending on installation situation
* cs-500dsp4 with dynamic bass boost or cs-2000dsp4 (limited max SPL)

reference pro - when perfection is key

The cerasonar reference pro is an evolution of our best-selling reference series, designed for applications where that little extra performance makes all the difference. With enhanced maximum level performance and an optimized sound pressure curve, it sets a new benchmark for invisible loudspeakers.

To achieve even more precise high-frequency reproduction and higher power handling, the reference pro series features a specially optimized exciter driver with a modified voice coil and a stronger neodymium magnet system. The cerasonar mcc system and integrated counterweights further linearize the frequency response, ensuring an exceptionally balanced sound with enhanced low-frequency performance.



cerasonar 4062 reference pro

The reference pro series includes three different models, with the 4062 reference pro (400 x 620 mm) being the most popular. Thanks to its compact size and lightweight design, it can be seamlessly installed in both ceilings and walls.

For applications requiring a powerful yet ultra-slim solution, we developed the 12030 reference pro. Designed in response to frequent customer requests, this model enables installation between TVs and furniture, making it the slimmest yet most powerful home cinema invisible speaker available.

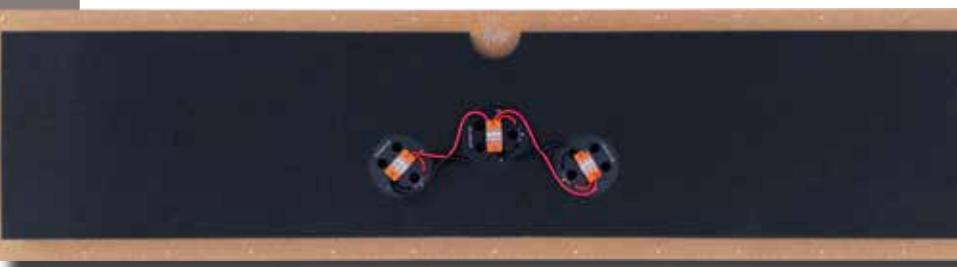
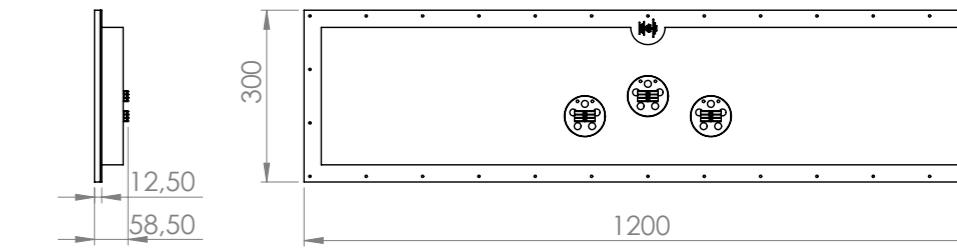
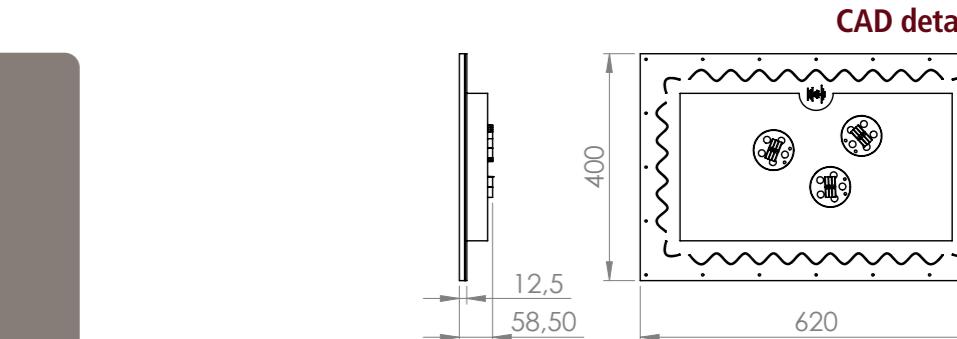
Designed for Seamless Installation

Customer feedback has shown that perfect substructures are not always available. With the most powerful exciter-based loudspeaker, we developed a solution that delivers full performance even in less-than-ideal installations. Unlike pneumatically driven systems with additional bass speakers, which often cause vibrations—especially in metal substructures—the Reference Series guarantees trouble-free installation.

For optimal performance, we recommend pairing the reference pro series with our cs-500dsp4 or cs-2000dsp4 amplifier. The full-range preset delivers deep and powerful bass, providing an unparalleled experience for music lovers. Additionally, a high-SPL preset is available, making it an ideal choice for home cinema applications.

Flexibility Without Limits

Working with concrete or masonry, where load-bearing capacity is a concern? The 12030 reference pro can also be installed vertically, ensuring maximum adaptability to meet your project's requirements.



cerasonar 12030 reference pro

cerasonar reference pro

the leading exciter-based loudspeaker on the market

cerasonar 6280 reference pro (1263-1)

Power rating	150 w RMS (300 w max)
Impedance	8 ohms / 2x 4 ohms
Frequency range	60 - 20.000 hz*
Frequency range with cs-500dsp4	40 - 20.000 hz*
max SPL	110 db
Dispersion range	180° x 180° h.v.
Single stereo mode	yes
for humid environments	no
Drywall	1- or 2- layered 12,5 mm plasterboard
Installation cut out	57,0 x 75,0 cm
Dimensions	62,0 x 80,0 x 5,8 cm
Weight	3,0 kg
Accessories	protection unit pro 50w/100w (1200-1) transformer 100v - 50w (1204) cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202) installation frame 6280 (1299)
DSP Presets (HP / FULLRANGE *)	yes / yes
Protection (INBUILT / PROTECTION UNIT / DSP PRESET)	no / yes / yes



Scan the QR code with your telephone to show the cerasonar installation video

* depending on installation situation

¹³ cs-500dsp4 with dynamic bass boost or cs-2000dsp4 (limited max SPL)

reference pro - when perfection is key

The new 6280 reference pro is the result of over 15 years of expertise in the development of invisible loudspeakers. Equipped with six high-performance excitors, it delivers an impressive 150W RMS / 300W peak power.

Two integrated counterweights effectively balance the surface, ensuring outstanding bass reproduction.

Unlike the 4080 ultimate, the 6280 reference pro operates without a woofer or crossover, offering distinct advantages. By utilizing an array of excitors and eliminating power losses from resistors or crossovers, it achieves an exceptionally high maximum SPL.

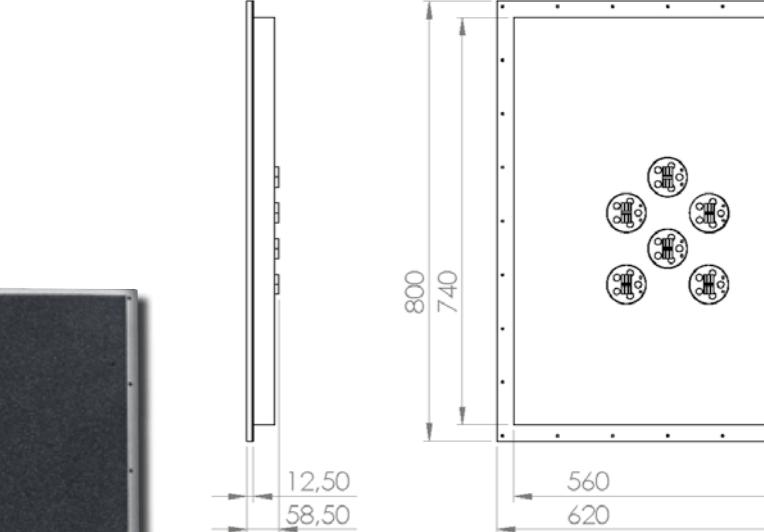
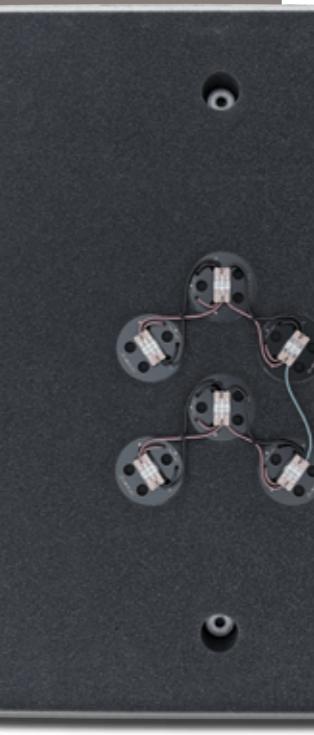
As a pure exciter-based loudspeaker, it avoids phase issues that typically occur at the crossover frequency between a woofer and an exciter.

This makes it an ideal satellite speaker for large home cinema systems, especially when paired with a cerasonar subwoofer such as the 6280 sub or 62200 sub.

When used as a stereo speaker, it offers a significant advantage over invisible speakers with conventional woofers: it is much lighter and requires significantly less installation depth. To fully unlock its potential, we strongly recommend using a cerasonar dsp amplifier.

Customer feedback has shown that perfectly constructed substructures are not always guaranteed. With the most powerful exciter-based loudspeaker, we have developed a product that delivers full audio performance even in challenging installations.

While other pneumatically driven systems with additional bass speakers can often cause vibrations—especially in metal substructures—our reference series (pro) ensures trouble-free installation.



cerasonar 4080 ultimate (1281-1)

Power rating	75 w RMS (150 w max)
Impedance	4 ohms
Frequency range	35 - 30.000 hz* / * ²
Frequency range with cs-500dsp4	30 - 30.000 hz* / * ²
max SPL	103 db
Dispersion range	180° x 180° h.v.
Single stereo mode	no
for humid environments	no
Drywall	1- or 2-layered 12,5 mm plasterboard
Installation cut out	34,0 x 74,0 cm
Dimensions	40,0 x 80,0 x 9,3 cm
Weight	6,7 kg
Accessories	transformer 100v - 50w (1204) cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202) installation frame 4080 (1297) placeholder 4080 (1312)
DSP Presets (HP * ⁴ / FULLRANGE)	no / yes
Protection (INBUILT / PROTECTION UNIT / DSP PRESET)	yes / no / yes



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* depending on installation situation
*² we recommend min. 50 litres installation volume!
*⁴ use reference (pro) series for high pass filter applications

All cerasonar loudspeakers and subwoofers with conventional woofer drivers (except cerasonar architect sub) require a high-quality substructure to ensure the best performance possible.

We recommend the use of wooden studs. The wall or ceiling should be planked in two layers, the first of which is OSB 12-21 mm.



Sound experience on a next level

The cerasonar 4080 ultimate is a hybrid-pneumatic driven speaker in a compact form factor. Designed as an easy-to-install and user-friendly invisible full-range speaker, it delivers exceptional performance while remaining completely concealed.

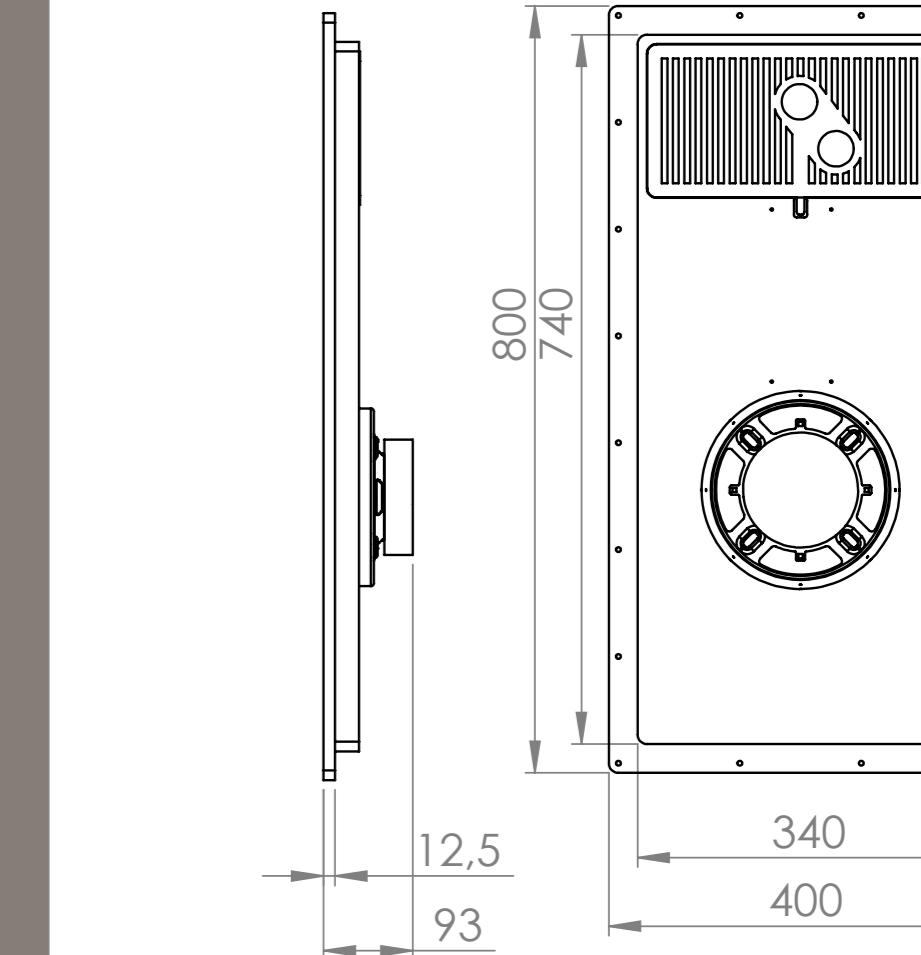
Building on our expertise in invisible speaker technology, our focus was to develop a full-range speaker that excels in high-frequency reproduction. This was achieved through the development of a 25 mm exciter driver, which offers outstanding mid-to-high frequency resolution and best-in-class off-axis frequency response. To ensure reliability and longevity, the exciters feature passive cooling, ferrofluid-based heat management, impedance correction, and a copper ring for voice coil stabilization.

The 8" woofer operates pneumatically, delivering deep and powerful bass while working in perfect harmony with the midrange section. The advanced crossover is equipped with a built-in protection circuit, allowing connection to conventional amplifiers without requiring an additional protection unit.

For the best possible sound experience, we recommend using our cs-500dsp4 or cs-2000dsp4 dsp amplifier. The latest version includes a dedicated 4080 ultimate preset and the option to activate a dynamic bass boost, enhancing bass response at low to mid listening volumes—feel the difference.

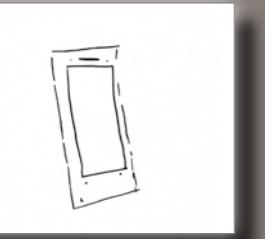
Ideally installed in timber constructions, this series guarantees an immersive sound experience, where music is not just heard but felt with every powerful push of the woofer.

CAD details:

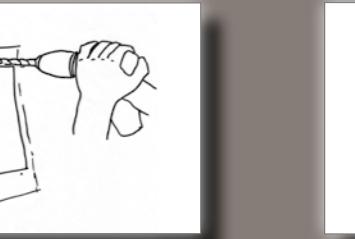


cerasonar installation process

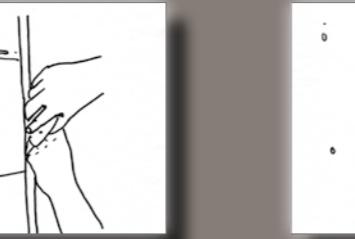
how to install the fit series



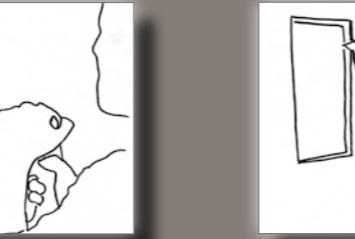
Check the construction for vibration noise, make sure the cavity has proper insulation. Attach the template on the wall or ceiling with tape



Drill four holes, these are intended for easy installation later. Drill size: 4 mm



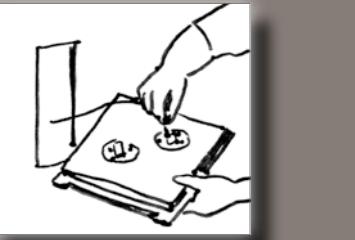
Mark the contours with a knife



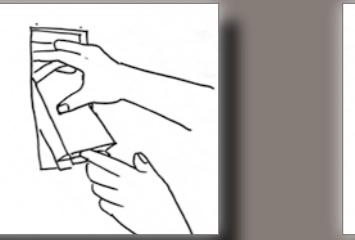
Cut out the marked contours with an appropriate tool



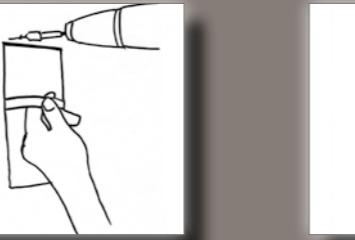
Smooth the edges and cut them by 45° furthermore moisten the edges for better joint with the filler



Strip the wire by 10 mm. Connect the speaker cable to the speaker, be aware of the polarity

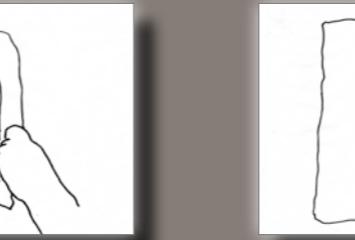


Insert the speaker, make sure there is no strain between the underlying insulation and speaker

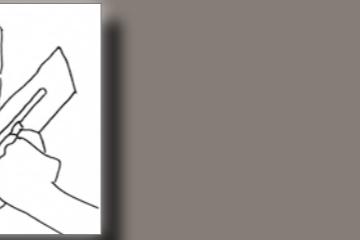


Use the delivered screws and tighten them carefully
ATTENTION: Test the speaker

Remove the installation strip



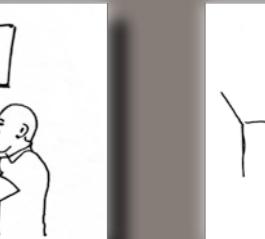
Optionally mesh tape in the plastering process. We recommend to use a flexible filler, e.g. Knauf Uniflott or Ardex 828



Strip the wire by 10 mm

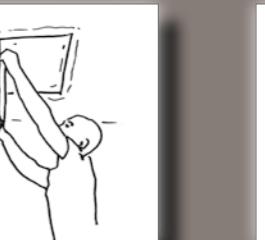


Connect the speaker cable to the speaker, be aware of the polarity



Insert the speaker, make sure there is no strain between the underlying insulation and speaker. Screw through all pre-drilled holes. The heads of the screws should penetrate about 1 mm into the panel material

ATTENTION: Test the speaker!



Fill in plaster, we recommend to use a flexible filler, e.g. Knauf Uniflott or Ardex 828



Up to 2mm of plaster can be applied, thus, Q3 and Q4 wall / ceiling quality levels are easily possible



More information about the installation process in our FAQ section



Up to 2mm of plaster can be applied, thus, Q3 and Q4 wall / ceiling quality levels are easily possible



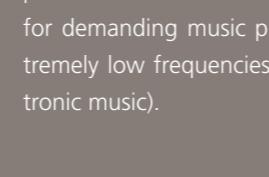
ATTENTION: Before using the speaker, let the plaster dry off

cerasonar subwoofer

the perfect complement to our speakers

	cerasonar 4080 sub (1256)	cerasonar 6280 sub (1266)	cerasonar 62200 sub (1267)
Power rating	150 w RMS (300 w max) or 2x 75 w RMS (150 w max)	250 w RMS (500 w max) or 2x 125 w RMS (250 w max)	1000 w RMS (2000 w max) or 2x 500 w RMS (1000 w max)
Impedance	4 ohms or 2x 8 ohms	4 ohms or 2x 8 ohms	4 ohms or 2x 8 ohms
Frequency range	35 - 150 hz* / * ²	25 - 150 hz* / * ²	25 - 150 hz*
Frequency range with cs-500dsp4	30 - 150 hz* / * ²	20 - 150 hz* / * ²	20 - 150 hz*
max SPL	103 db @ 50 Hz	105 dB @ 35 Hz	122 dB @ 30 Hz
Dispersion range	hemispheric	hemispheric	hemispheric
Single stereo mode	yes	yes	yes
for humid environments	no	no	no
Drywall	1- or 2- layered 12,5 mm plasterboard	1- or 2- layered 12,5 mm plasterboard	1- or 2- layered 12,5 mm plasterboard
Installation cut out	34,5 x 74,5 cm	56,5 x 74,5 cm	56,5 x 194,5 cm
Vent	no vent	no vent	2,8 x 52,2 cm
Dimensions	40,0 x 80,0 x 9,3 cm	62,0 x 80,0 x 11,2 cm	62,0 x 200,0 x 20,0 cm
Weight	9,3 kg	12,4 kg	very heavy :)
Accessories	transformer 100v - 50w (1204) cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202) installation frame 4080 (1299)	cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202) installation frame 6280 (1299)	cs-2000dsp4 amp (1202)

Scan the QR code with your telephone to show the cerasonar installation video



All cerasonar loudspeakers and subwoofers with conventional woofer drivers (except cerasonar architect sub) require a high-quality substructure to ensure the best performance possible.

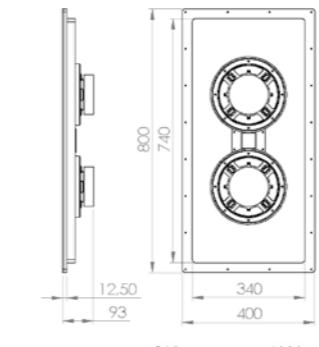
We recommend the use of wooden studs. The wall or ceiling should be planked in two layers, the first of which is OSB 12-21 mm.

* depending on installation situation
*² we recommend min. 100 litres installation volume

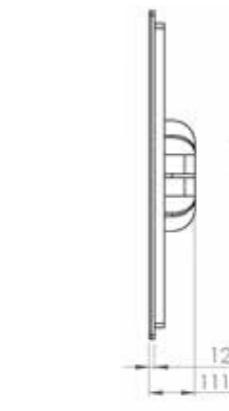
The perfect complement to our speakers

The cerasonar subwoofers are the perfect complement to our speakers. The **cerasonar 4080 sub** is characterised by its compact form factor and powerful bass performance. It is driven by two 8-inch woofers, specially developed in-house, known for their high power handling and excellent impulse response. The 4080 sub is therefore ideal as an extension in stereo or multiroom systems to enhance bass reproduction.

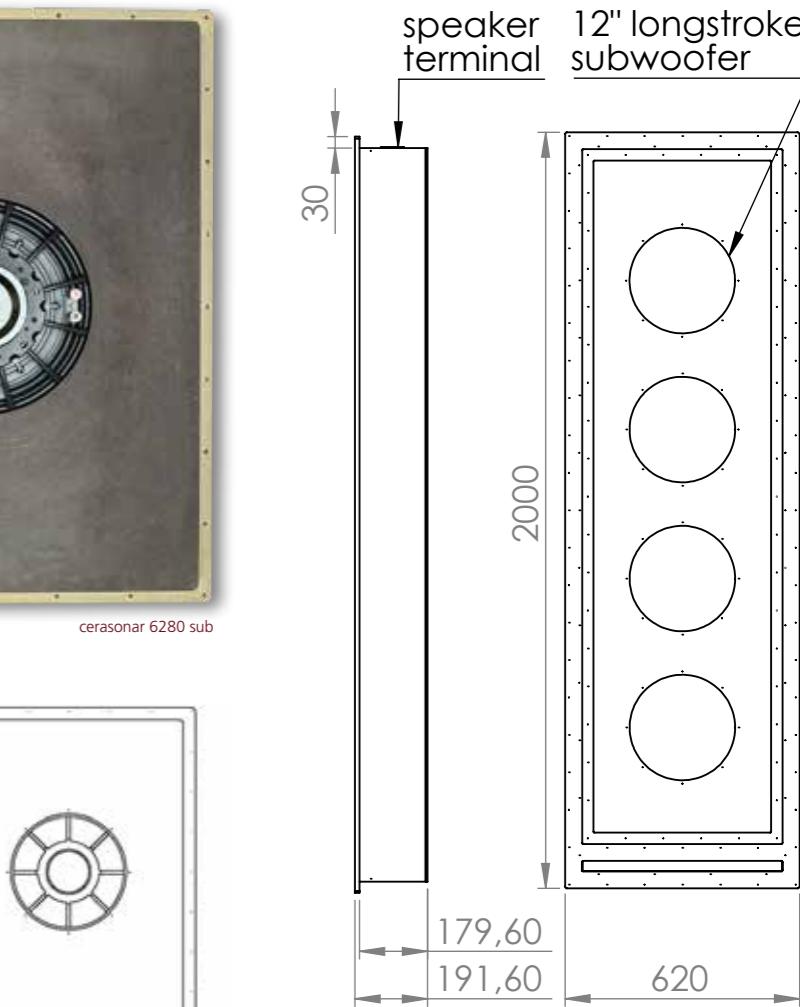
The **cerasonar 6280 sub** is the larger sibling of the cerasonar 4080 sub. It is perfect as a home cinema subwoofer or for demanding music playback with extremely low frequencies (especially electronic music).



CAD - cerasonar 4080 sub



CAD - cerasonar 6280 sub



CAD - cerasonar 62200 sub

cerasonar architect sub (1276)

Power rating	150 w RMS (300 w max)
Impedance	4 ohms
Frequency range	35 - 150 hz*
Frequency range with cs-500dsp4	30 - 150 hz*
max SPL	108 db
Dispersion range	hemispheric
Single stereo mode	no
for humid environments	no
Drywall	1- or 2- layered 12,5 mm plasterboard
Installation cut out	/
Vent	8,5 x 8,5 cm
Dimensions	35,0 x 27,5 x 20,0 cm (only housing, without parts)
Weight	8,5 kg
Accessories	cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202)
Performance	Supplied pipe length: ~ 450 mm max SPL: 108 dB @ 70 Hz, pipe length: 300 mm (1 pipe) or pipe length: 640 mm (2 pipes, no vent noises at high SPL) max SPL: 105 dB @ 50 Hz, pipe length: 450 mm (1 pipe) or pipe length: 950 mm (2 pipes, no vent noises at high SPL)
Delivery content	1x subwoofer 1x flexible pipe 80 mm (45 cm length) 2x pipe clamps 1x bracket for vibration reduced mounting (wall and ceiling) 1x grille (black) 1x grille housing for single layer 12,5 mm plasterboard 1x bracket for grille mounting on plasterboard
DSP Presets (SUB)	yes
Protection (INBUILT / PROTECTION UNIT / DSP PRESET)	no / no / yes

Scan the QR code with your telephone to show the cerasonar installation video



* depending on installation situation



Vibration free bass in every room

The cerasonar architect sub is the ideal bass support for all cerasonar speakers. It unfolds its ingenious potential when there is no space for an invisible subwoofer or no stable (and „rattle-free“) substructure. It can be installed in a drywall. The small powerhouse with 8" drivers delivers an extra kick in multi-room music projects or home cinema applications.

What makes our cerasonar architect sub so special?

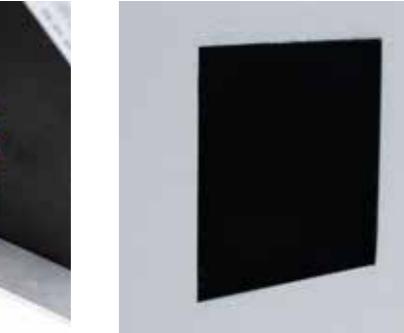
Specially developed vibration dampers on the mounting bracket provide significant structure-borne sound and vibration reduction for wall and ceiling installations, making our cerasonar architect sub an ideal solution for multi-party homes or small rooms.

Installation

For a quick and easy overhead installation, we have equipped our cerasonar architect sub with a light but above all very stable mounting bracket. First, the bracket including the vibration dampers is mounted on the ceiling, then the subwoofer is screwed and secured with four safety nuts.

The 40 cm long 80 mm ventilation pipe is made of high-quality rubber, which guarantees a small radius. Two openings are provided to ensure trouble-free installation. The opening that is not needed is closed with a blind plug.

To fit perfectly into modern interior design, the elegant and small (85 x 85 mm) air outlet has no frame and is thus flush with the wall or ceiling. It can be installed in drywall (1-layer or 2-layer). If a different colour of grille is desired, it can easily be adapted with a conventional paint spray.



cerasonar cs-500dsp4 v2 (1206)

Amplifier power output	4x 125w @ 4/8 ohms 2x 250 W @ 8 ohms (bridged) 2x 250W @ 70/100V
DSP	28-/56-BIT, 50 MIPS High pass filter 8x DSP filters per channel 4x4 Input matrix Preset selectable for each amp channel Power limiter Delay Dynamic bass boost Polarity switch
Network	10/100M LAN
Input voltage	115 V or 230 V (automatically)
Total dimensions	215 x 44 x 240 mm
Weight	2 kg
Delivery content	Power cable Input adapter Phoenix to Cinch Adapter for 19" rack mounting (1x amps in 1U) Adapter for 19" rack mounting (2x amps in 1U)



Most space saving amp - up to 8 powerful channels in 1U

The audio signal can now be routed via the audio paththrough (daisy chain). This means that several amplifiers can be conveniently controlled via only one audio source. Presets can now be selected individually for each amp channel, making it very easy to connect different speakers or subwoofers to one amp. Thanks to a more powerful DSP processor, 8 PEQ filters are now available per amplifier channel. Furthermore, a delay filter can be used to correct the delay time of the speakers or subwoofers. The polarity switch is can be used in case of an installation error, therefore the polarity can be easily adjusted and corrected via software. Finally, the dynamic bass boost should be mentioned. When activated, the bass is boosted at low to medium volumes, creating a fuller sound experience.

In order to serve you with the smartest sound experience possible, we developed the cerasonar cs-500dsp4 v2 DSP amplifier that comes with predefined presets for each cerasonar speaker and subwoofer. The use of an extra cerasonar protection unit is not required. This amplifier is your game-changer in high-demanding multi-room projects that request the finest sound quality possible.

A digital power supply provides a stable voltage supply and four autonomous amplifier chips from International Rectifier ensure flawlessly as well as distortion-free amplification, even at maximum load. Even at high temperatures, the cs-500dsp4 works reliably due to a built-in fan with intelligent temperature-dependent fan speed. In normal operation, the fan remains switched off, which means that no disturbing fan noise is caused and it can also be used as a stand-alone device.

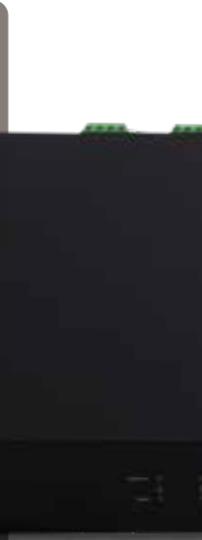
The four power amplifiers deliver 125 watts per channel into 4 or 8 ohms and can be bridged to 250 watts into 8 ohms if required. In bridge mode, the 70V / 100V mode is also supported. For an easier installation, we offer additional audio transformers for our speakers and subwoofers.

Due to its compact dimensions, the amplifier requires little space in the server cabinet. Depending on requirements, one or two amplifiers fit next to each other in 1U, the adapter plates are of course included in the delivery.

The cs-500dsp4 v2 can be easily and quickly connected to the most common Smart Home systems. This makes it the ideal partner for multi-room audio projects that can be controlled by the system pioneer control4, for example.

As professional installations 100v systems are a popular choice, the cs-500dsp4 provides you with 100v (or 70v) mode as well.

With the additional 100v transformers for our speakers, you only need to route one cable and connect all the speakers in series. This saves you a lot of cabling and amp channels.



cerasonar cs-2000dsp4 (1202)

Amplifier power output	4x 500w @ 4 Ohm / 4x 300w @ 8 ohms 2x 1000 W @ 8 ohms (bridged) 2x 1000w @ 70/100V
Input	Analogue (Phoenix and XLR) Dante Pink noise, white noise Sine wave (20-22.000 Hz)
Output	Analogue passthrough (Phoenix)
DSP	DSP Presets Input EQ (31 filters per channel) Output EQ (10 filters per channel) 4x4 Input matrix Delay Compressor Power limitation and many more...
Control	10/100M LAN, USB, RS485, RS232
Input voltage	230 V
Total dimensions	483 x 300 x 44.5 mm
Weight	4,2 kg
Delivery content	Power cable Phoenix input block 12V trigger adapter

Scan the QR code with your telephone to show a video of the software of the cerasonar cs-2000dsp4



Powerful DSP amp - with Dante support

The cs-2000dsp4 is the logical continuation of the cs-500dsp4. It is used when even more power and room calibration is necessary. It provides you with incredible flexibility in challenging installation situations, as it not only comes with 31 input and 10 output filters per channel, but also has a delay and compressor function, among other things. Provided that the preset for the respective loudspeaker has been selected, a protection unit is no longer required.

The amplifier is controlled via USB or LAN (several units can be controlled simultaneously). In both cases, no additional device drivers are necessary. Basic settings can be made via the LCD display, there is also password protection to prevent the amplifier from unauthorised access. Analogue input sources (balanced and unbalanced) can be connected via XLR (adapter cable RCA to XLR available on request) or Phoenix terminal. The latter ensure that the signal can also be routed to another amplifier. It was important to us that the cs-2000dsp4 is fully Dante-compatible, so that digital sources can be connected easily.

For a proper installation of the cerasonar speakers, a prior sound check is indispensable. In order to check for possible vibration noises (e.g. loose substructure screw connection), the software contains a tone generator (sine tone) which can be used to smoothly adjust the desired frequency. In addition, a „pink noise“ and „white noise“ can be output. This means that the frequency curve can be checked without connecting an additional measuring system - only a smartphone is necessary.*

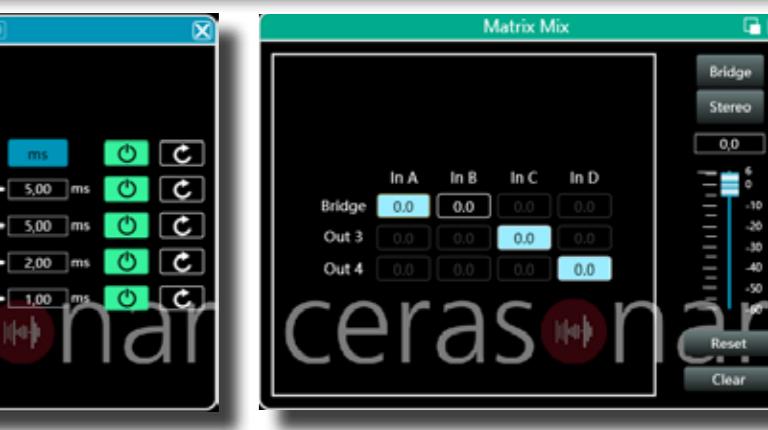
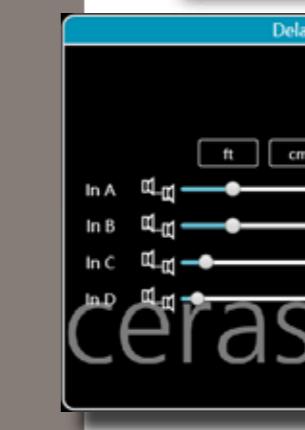
-> Ideal to determine the correct phase or delay, or to make DSP corrections!

The power of the cs-2000dsp4 is 4x 500 watts into 4 ohms or 2x 1000 watts into 8 ohms or 70/100V (bridged). Due to the high power output, the amplifier is ideal for driving larger 70/100V systems or for operation with our powerful subwoofers or speakers.

There are two LAN ports; for larger projects, the amplifiers can be connected to each other so that only one LAN port is required for connection.

Basic functions of the amplifier can be controlled via the RS232 or RS485. The supplied adapter also allows ON/OFF control of the amplifier via the GPIO port.

*The measurement result depends on the quality of the built-in microphone
A calibrated, external one is recommended.



ADante®

cerasonar concrete

outdoor speakers that blend in with the aesthetics of your garden



cerasonar concrete speakers

The cerasonar concrete series blends harmoniously into any landscape. Available as full-range speaker and subwoofer, they deliver superior sound quality with 360° dispersion into any garden. Available in three different colours, with each enclosure being unique.

Operation is exclusively with cerasonar DSP amplifiers, whereby each speaker driver is individually controlled and digitally equalised. The amplifiers are pre-configured for easy configuration.

For high volumes and very powerful bass levels, we recommend the additional use of the cerasonar concrete sub.

With these unique pieces, colour deviations are part of the vivid appearance of the concrete. Ensure that there is a firm base when placing the unit in the garden.

The cerasonar concrete products are available in grey (standard), anthracite and white. The top surface is available smooth (standard) or rough.

^{*3} cs-500dsp4 with dynamic bass boost or cs-2000dsp4 (limited max SPL)

	cerasonar concrete one (1212-X)	cerasonar concrete sub (1213-X)
Power rating	2x 125 w RMS (2x 250 w max)	250 w RMS (500 w max)
Frequency range	40 - 20.000 hz*	25 - 250 hz*
max SPL	110 db	110 db
Dispersion range	270°	360°
Single stereo mode	yes	no
Weight	35 kg	35 kg
Dimensions	39 x 41.5 x 39 cm	39 x 41.5 x 39 cm
Required cable	1x 4 wires or 2x 2 wires	1x 2 wires
Recommended amp	cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202)	cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202)
DSP Presets (SUB / HP / FULLRANGE *)	no / yes / yes	yes / no / no
Protection (INBUILT / PROTECTION UNIT / DSP PRESET)	no / no / yes	no / no / yes
Included accessories	1x Neutrik speakON NL4FX	1x Neutrik speakON NL4FX
Application	indoor / outdoor	indoor / outdoor





cerasonar concrete mini v2

Material: Made of concrete - a real statement of value and durability.

Sound: 360° sound radiation thanks to diffuser.

Design: Discreet, yet a real eye-catcher in the garden.

Dimensions: Compact with 17,5 cm diameter and 25 cm height.

Interior: 4" neodymium longstroke driver (PE cone) and double ported for impressive bass, 1" tweeter (PEI cone) and 100v - 20w transformer optional.

Expandability & combination: Can be combined with a subwoofer for extra power. To ensure the best sound experience, the use of our cerasonar cs-500dsp4 v2 is required.

The concrete mini is both speaker and light at the same time. The warm white LED can be connected via 12v or 24v.



cerasonar concrete

concrete mini is a speaker and light at the same time

cerasonar concrete mini v2 (1218-X)

Power rating	50 w RMS (100 w max)
Frequency range	45 - 20.000 hz*
max SPL	104 db
Dispersion range	360°
Single stereo mode	no
Weight	3 kg
Dimensions	17,5 x 17,5 x 25 cm
Required cable	1x 2 wires (speaker) + 1x 2 wires for LED (12v or 24v)
Recommended amp	cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202)
DSP Presets (HP / FULLRANGE *)	yes / yes
Protection (INBUILT / PROTECTION UNIT / DSP PRESET)	yes / no / yes
Included accessories	none
Application	indoor / outdoor



*3 cs-500dsp4 with dynamic bass boost or cs-2000dsp4 (limited max SPL)



**cerasonar speaker
installation cable 2x 2,08 mm² (1207)**

Cross-section	2x 2,08 mm ²
Conductor structure	43 x 0.25 mm CU blank (UNE 21-011)
Insulation of the conductors	Ø 3,00 mm (PTC UNE 21-031)
External insulation	Ø 8,00 mm (PTC UNE 21-031)
Colour	White
Weight per cable reel	37 kg (cable reel including)
Packaging	300 metres on cable reel (made of wood)



**cerasonar speaker
installation cable 4x 2,08 mm² (1208)**

Cross-section	4x 2,08 mm ²
Conductor structure	43 x 0.25 mm CU blank (UNE 21-011)
Insulation of the conductors	Ø 3,00 mm (PTC UNE 21-031)
External insulation	Ø 9,00 mm (PTC UNE 21-031)
Colour	White
Weight per cable reel	54 kg (cable reel including)
Packaging	300 metres on cable reel (made of wood)

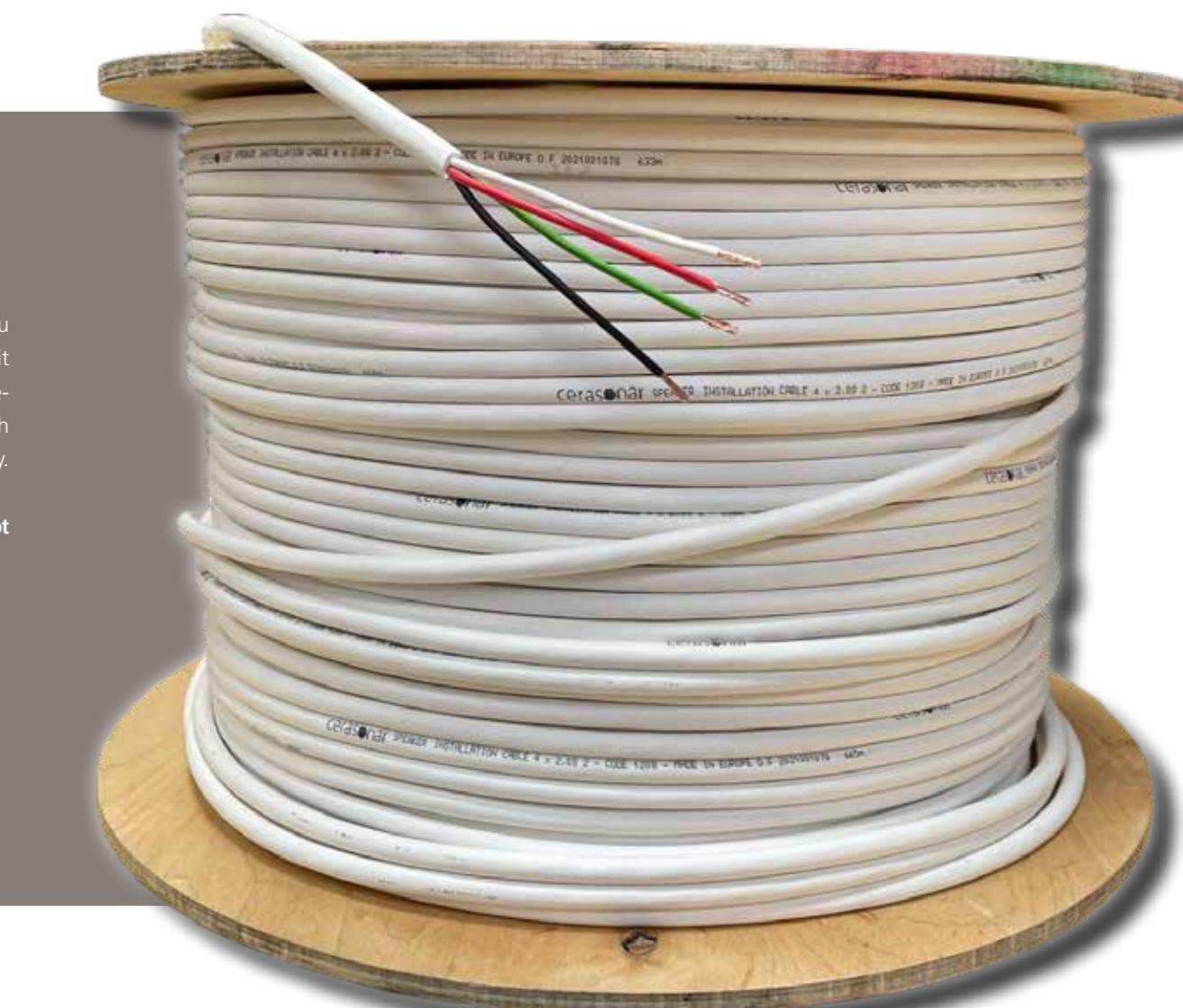


Quality cable - saving you time and energy

During the development process, it was particularly important to us that we could offer you a speaker cable that is very easy to work with, but still remains securely protected by a thick and tough jacket so that it cannot be damaged even by sharp-edged substructure profiles.

The speaker cable is available as 2 or 4-core and the conductors are made of high-purity copper. The cable cross-section is 2.08 mm² or 14 AWG. The 4-core can be used for single stereo applications or combined into a high performance 2x 4.16 mm² or 11 AWG cable for very long cable lengths to avoid power loss.

The cable fits easily into any cerasonar speaker terminal and, of course, with a suitable cable lug, into the Phoenix connectors of the cerasonar cs-500dsp4. For use with the cs-2000dsp4 we recommend the use of banana plugs.

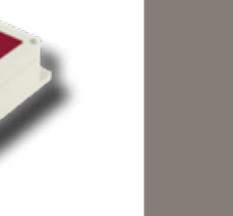


cerasonar protection units

made for the fit and reference series

protection unit pro 25w (1200)

Size	20,0 x 9,1 x 4,9 cm
Jumper settings	F1 + F4
Delivery content	protection unit pro 25w + phoenix adapter
Suitable for	cerasonar 4062 reference single stereo (2 units per speaker)



Protection Unit Pro - made for the reference series

This protection unit pro is also an extended overload protection which also reacts to fast impulses. With this protective circuit, we grant a 5-year guarantee on our cerasonar series. As a German manufacturer, we comply with the VOB guarantee for drywall construction.

The use of cerasonar protection units is no longer necessary with the cs-500dsp4 or cs-2000dsp4 when the appropriate preset for the respective speaker/sub has been selected.

protection unit pro 50/100w (1200-1)

Size	20,0 x 9,1 x 4,9 cm
Jumper settings	F3 + F6
Delivery content	protection unit pro 50/100w + phoenix adapter
Suitable for	cerasonar 4062 reference cerasonar 4062 reference pro cerasonar 6062 reference cerasonar 6062 reference single stereo (2 units per speaker)

Protection Unit - made for the fit series

This simplified protection unit can be used with cerasonar 1520 fit and 2525 fit. With this protective circuit we offer a 5 year warranty on our cerasonar series. As a German manufacturer, we fulfil the VOB guarantee for drywalls.

The protection unit is not suitable for use with an AV receiver, as the peak power of the AV receiver may not be detected by the sluggish protection circuit.
In this case, we recommend using the protection unit pro or our cerasonar amplifiers.



protection unit 25w (1203)

Size	20,0 x 9,1 x 4,9 cm
Jumper settings	F1 + F4
Delivery content	protection unit 25w + 2x WAGO 221

Suitable for
cerasonar 1520 fit
cerasonar 2525 fit single stereo
(2 units per speaker)

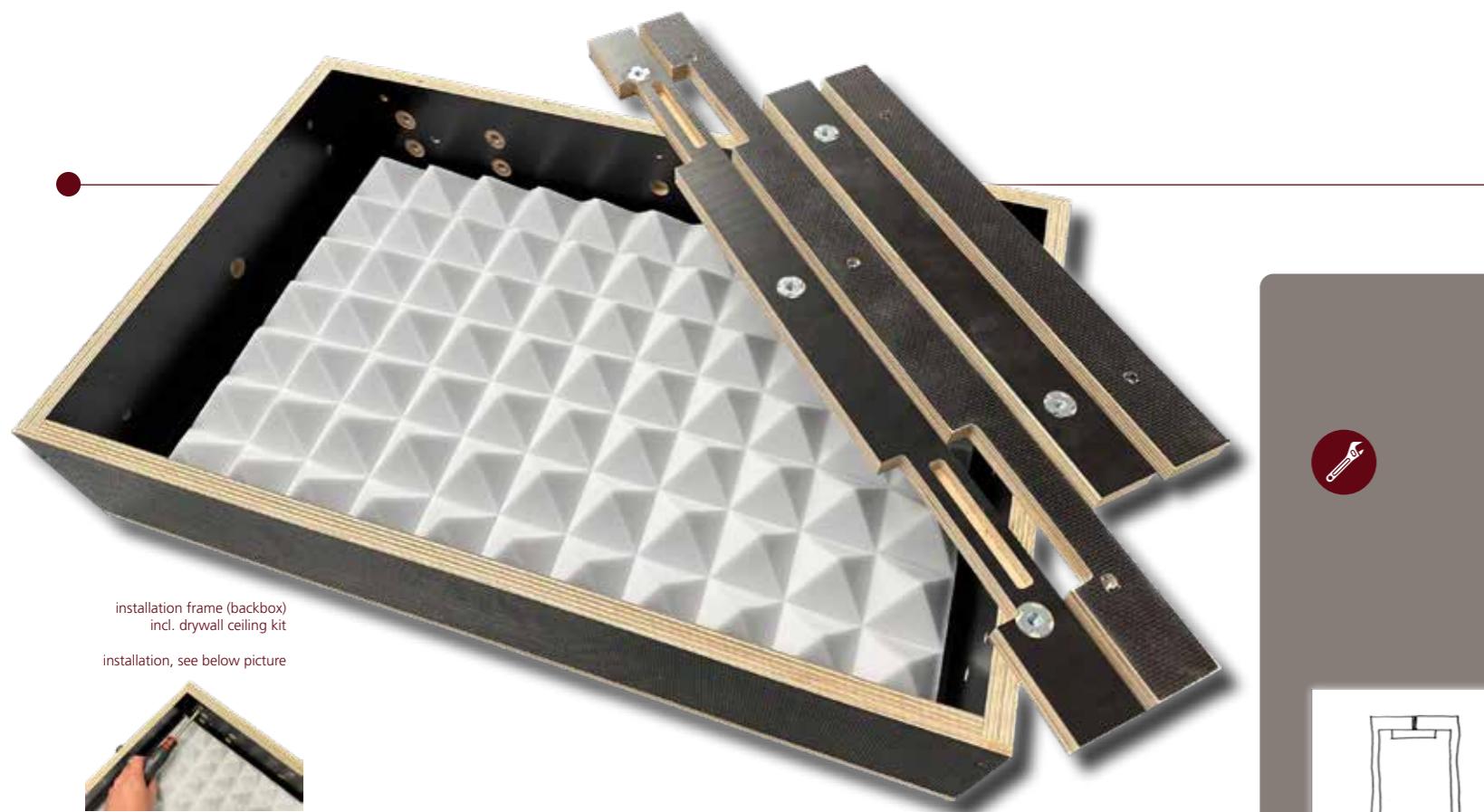
protection unit 50w (1204)

Size	20,0 x 9,1 x 4,9 cm
Jumper settings	F3 + F6
Delivery content	protection unit 50w + 2x WAGO 221

Suitable for
cerasonar 2525 fit

cerasonar installation frame (backbox)

as backbox in drywall or for masonry or in-situ concrete installation



installation frame (backbox)
incl. drywall ceiling kit
installation, see below picture



	frame 4080 (1297)	frame 1520 (1291-1)	frame 2525 (1291-2)	frame 4062 (1291)
Size	40,2 x 80,2 x 12 cm	40,2 x 62,2 x 12 cm	40,2 x 62,2 x 12 cm	40,2 x 62,2 x 12 cm
Installation cut out	42,0 x 82,0 x 14 cm	42,0 x 64,0 x 14 cm	42,0 x 64,0 x 14 cm	42,0 x 64,0 x 14 cm
Weight	3,3 kg	2,5 kg	2,5 kg	2,5 kg
Delivery content	installation frame incl. damping material and wooden slats			

	frame 6062 (1292)	frame 6280 (1299)	frame 62200 (XXXX)	frame 4062 architect (1291-3)
Size*	60,2 x 62,2 x 12 cm	62,2 x 80,2 x 12 cm	133,5 x 62,2 x 14,5 cm	
Installation cut out*	62,0 x 64,0 x 14 cm	64,0 x 62,0 x 14 cm	135,5 x 64 x 16,5 cm	
Weight	3,7 kg	x	8,2 kg	
Delivery content	installation frame incl. damping material and wooden slats			

Installation frames - for masonry, in-situ concrete and backbox

The improved cerasonar installation frame can now be used for even more applications. Thanks to the stable construction made of waterproof plywood and the use of Basotect® insulating material, it is also ideal as a backbox to effectively reduce rear noise. The innovative optional vibration dampers now also make it possible to reduce structure-borne noise.

The housing comes pre-drilled and can therefore be used for various installation environments, such as:

- In-situ concrete installation
- Masonry installation
- Ceiling installation
- Vibration damper installation (suspended drywall ceiling)

The installation frame is supplied as standard with high-quality cable glands and integrated strain relief from OBO, insulation material from Basotect® as well as an OSB blank panel and alignment battens.

Installation is easy: the factory pre-drilled holes are enlarged with a suitable drill for the desired application, then the cable gland, insulation material and any accessories are fitted.



Always use a scrap piece of wood as a base when drilling to prevent the drill edge from fraying.



Highly quality sound damping material (Basotect®) with easy to use cable gland with integrated strain relief.



After removing the formwork, remove the OSB blind panel. The loudspeaker can then be installed.



Anti-vibration kit.
Rubber buffers effectively reduce structure-borne noise.



Parts of anti-vibration kit - for suspended concrete ceilings



Masonry installation kit



In-situ concrete installation (standard)

cerasonar 100v speaker

easy to install & time-saving installation

cerasonar 1520 fit - 100v (1270-1)	
Power settings	20 w, 15 w, 10 w, 5 w, 2,5 w
Primary (amp)	100 v
Frequency range	100 - 18.000 hz*
Frequency range with cs-500dsp4	80 - 20.000 hz*
max SPL	95 db
Dispersion range	180° x 180° h.v.
Single stereo mode	no
for humid environments	yes
Drywall	1-layered 12,5 mm plasterboard
Installation place	in the centre of the plasterboard to improve bass response
Installation cut out	20,0 x 16,5 cm
Dimensions	23,4 x 16,3 x 7,4 cm
Weight	0,8 kg
Accessories	cs-500dsp4 amp (1206) cs-2000dsp4 amp (1202)
Fire-Protection Housing (3rd party)	installation frame 1520 (1291-1) Kaiser FlamoX® (9435-03)
DSP Presets (HP / FULLRANGE *)	yes / yes (low bass!)
Protection (INBUILT / PROTECTION UNIT / DSP PRESET)	no / no / yes

* depending on installation situation
** cs-500dsp4 with dynamic bass boost or cs-2000dsp4 (limited max SPL)



ideal for commercial projects - integrated 100v transformer

based on the 1520 fit, the loudspeaker is equipped with a 100v transformer. the transformer can be connected via 2,5w, 5w, 10w, 15w or 20w and thus offers an inexpensive 100v loudspeaker for commercial projects that promises a pleasant background sound without disturbing the aesthetics of the interior design.

Transformers - to save cable length and amp channels

In large projects, the use of 100v audio technology is a popular choice. This can save a lot of cables and amp channels.

To prepare our speakers for this particular use, we recommend the installation of transformers nearby every speaker and to combine them with the cs-500dsp4 and cs-2000dsp4 amp to drive the transformers / speakers.

Make sure, that the transformers are well installed so that the speaker can not pass on audible noises. The delivery content includes not only the transformer but wago 221 connecting clamps as well as shrink sleeves providing you with extra security and protection to allow a fast and clean installation.

transformator 20w

Primary (amp)	100v
Secondary (speaker)	16Ω, 8Ω and 4Ω
Power settings	20w, 15w, 10w, 5w, 2,5w
Delivery content	transformer 100 v - 20w, wago 221 connecting clamp, shrink sleeves
Suitable speaker*	cerasonar 1520 fit
Suitable amp	cerasonar cs-500dsp4 or universal 100v amp



transformator 50w

Primary (amp)	100v
Secondary (speaker)	16Ω, 8Ω and 4Ω
Power settings	50w, 37,5w, 25w, 12,5w, 6,25w
Delivery content	transformer 100 v - 50w, wago 221 connecting clamp, shrink sleeves
Suitable speaker*	cerasonar 2525 fit cerasonar 4062 architect cerasonar 4062 reference
Suitable amp	cerasonar cs-500dsp4 or universal 100v amp

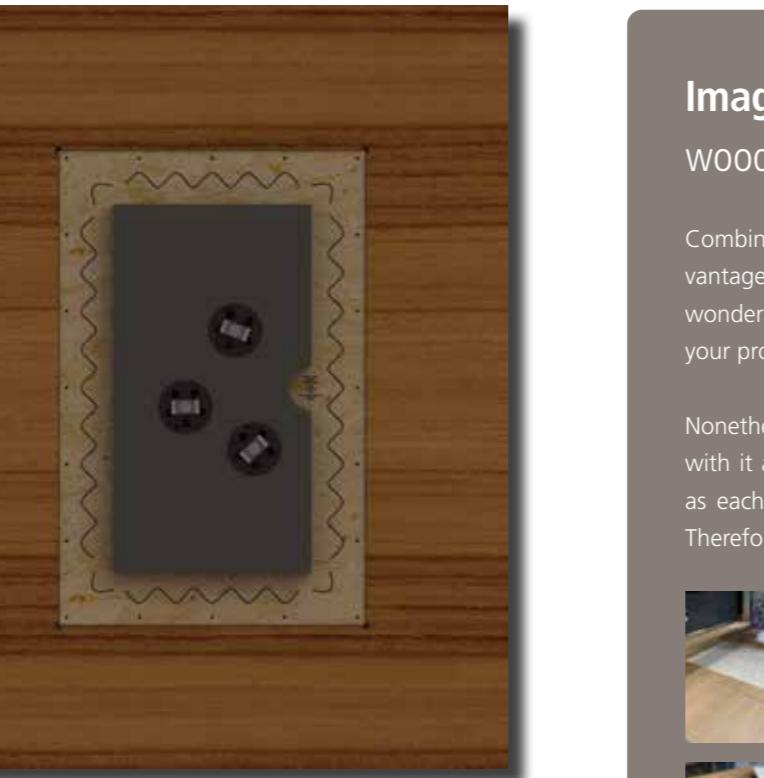


*recommendation for best performance

wood panel with prepared pocket milling



speaker installed in the pocket milling



Imagine - sound comes directly from your wooden panels

Combine all ecological, economic, biological and aesthetic advantages. Cladding walls with wood is increasingly in vogue. No wonder - wall cladding adds character, charm and personality to your property.

Nonetheless, utilising wood materials has so far always brought with it a difficult installation situation for loudspeaker systems, as each wood brings with it its unique natural characteristics. Therefore, the installation must be carried out very carefully.



Our engineering team took this as a challenge and thoroughly tested our most powerful series - the reference pro series - with different wood materials.

Using a pocket milling on the back of the panels, the reference pro series can be easily and quickly installed in any wood panel. (the excess wood should not be more than 2.5 - 3.5 mm thick)

On request, the reference pro series is supplied with our special high-performance double-sided adhesive tape, which adheres excellently to the pocket milling due to its properties.

Depending on the wood material, the resonance frequency is strongly raised and the low frequency range is reduced. Due to these natural characteristics of the wood, we recommend the use of the cerasonar architect sub and the cs-500dsp4 or cs-2000dsp4 amplifier. The latter comes with a specially developed preset for wood installations.



How can cracks be avoided?

Like all built-in speakers, also the invisible speaker panels emit vibration noise into the adjacent areas. To ensure that no cracks occur at the butt joints, mesh tape must be applied before plastering. This kind of processing used for single-layer drywall constructions, which is mandatory according to the generally accepted rules of craftsmanship, is highly recommended also for installation work in solid walls and ceilings.

The plaster, whether decorative or non-decorative, which is applied to the panel should have a certain „flexibility“. So pure mineral plasters are not necessarily advisable. In order to minimise the risk of cracking, we recommend using products like Ardex (e.g. 828) or Knauf (Uniflott).

Documentation of installation positions!

It is strongly recommended documenting the installation positions in the architectural plans. If at some point a defect occurs, the position of the defective panel can be accurately determined and the panel be replaced. Also future modifications to the interior design and room layout benefit from the documented positions of the speakers.

How to prevent cases of defects?

We offer for the fit and reference series protection units that limit the max. power and protect the speakers from overload. The ultimate series already has the protection integrated. However, the max. power rating of the speaker should not be greatly exceeded by the amplifier.

What about the durability?

If installation and operation is effected in accordance with our regulations a malfunction is almost impossible. A good example to compare is perhaps the „floor heating system“, which resembles a similar situation, and which also requires a careful execution. A trained retailer or installer meets these requirements due to the cerasonar installation and setup protocol. DIY is also possible if the manual and technical skills are given.

What is there to know about sound insulation?

The cerasonar panels emit structure-borne noise into the adjacent areas. It therefore is recommended – and this normally affects any builtin speaker – that the drywall shell is designed in a flexible way as it is very much common in acoustic construction. The rearward sound already is reduced by the mandatory cavity insulation. To furthermore reduce the rearward sound we offer specific backboxes.

How long is the warranty period?

As a family business, the satisfaction of our customers has the highest priority for us. Our service includes a 5-year warranty in Germany. Our product liability insurance in cooperation with Aachen-Münchener protects against property damage and bears the full costs for a possible restoration. A prerequisite is the registration with us in our company.

Vibration prevention (speaker mounting)

Our invisible loudspeakers are provided with pre-drilled holes for the screw connection. It is necessary to mount a screw in each hole in order to avoid cracking or disturbing resonances.

Vibration prevention (cable laying)

Particularly in the ceiling (but also in the wall), care must be taken to ensure that electrical cables or similar do not touch the invisible speakers or the adjacent plasterboard. The reason for this is that the loudspeakers generate vibrations that can cause unwanted noise on the cables or other components. To avoid this, all objects in the cavity must be secured (especially with cerasonar ultimate and sub series). We recommend routing the last meter of the speaker cable to the speaker through the mineral wool.

Vibration prevention (ceiling and wall installations)

Similar to loudspeaker cables. We recommend that built-in devices, such as LED spots, should not be placed near the speakers. If this is not possible, we recommend installing higher quality devices, as these often have the advantage that they are not so easily prone to vibrate. If disturbing resonances should occur, the built-in devices can be damped with anti-vibration tape.

Vibration prevention (Detection of disturbing resonances)

A tone generator, for iOS or Android, is suitable for easy detection of disturbing resonances. For this the frequency range from 20 – 20,000 Hz is swept through. In order to detect errors, the volume should be approx. 75%. The speakers must already be fixed with all screws. Especially with the cerasonar ultimate and sub series this procedure is obligatory and should not be skipped under any circumstances.

Vibration prevention (Elimination of disturbing resonances)

First the position of the interfering resonances should be determined. With the palm of your hand you can check the wall or ceiling for „rattling noises“. After detection, an additional screwing or gluing can solve the problem. Before doing so, however, it should be checked that the rattling noise is not caused by a loose object such as an electric cable.

Single stereo mode

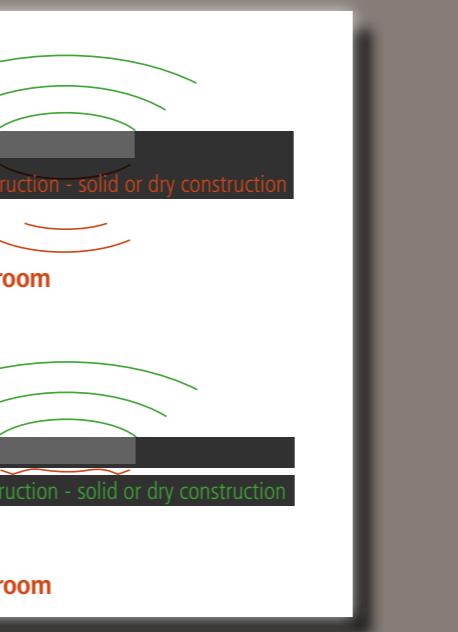
For smaller rooms or for background sound, the single stereo mode is ideal. In this mode, both stereo channels (left and right) are connected to a single loudspeaker. The advantages are the saving of one loudspeaker as well as a more homogeneous sound image when used for background sound (e.g. restaurants, meeting rooms or long corridors). When the cs-500dsp4 is used, the single stereo mode is not necessary and the second speaker wire can be saved, simply use the input matrix and route the stereo input to only one speaker.

Sound- proofing?

About sound insulation, we would like to clarify the terms relating to our loudspeakers. As the invisible loudspeaker is connected to the adjacent wall and/or ceiling surface with screws and filler transmission of structure-borne sound takes place in any case. With some cerasonar models this is even necessary since the larger area increases the frequency range in the lower region.

It is therefore highly recommended for multi-family buildings to install the invisible loudspeakers in a decoupled level – for example in a suspended ceiling.

With a separate wall construction, the sound remains in the music zone:





cerasonar

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