

# NOVASONAR 2012



NOVASONAR



GIVE YOUR ROOM AN EXCELLENT SOUND

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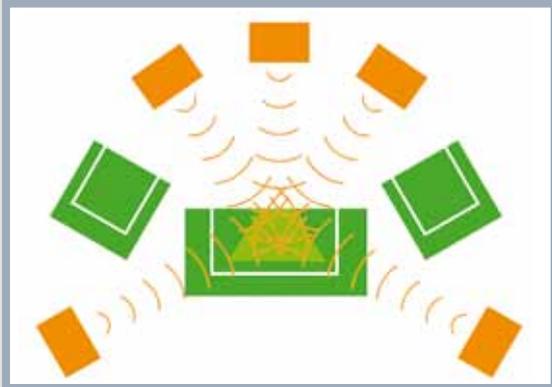
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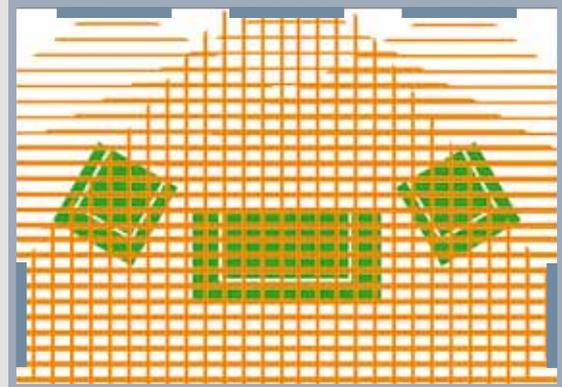
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**Conventional loudspeaker solution for Dolby 5.1.**  
This supplies only one single listening position optimally.



**Novasonar solution for Dolby 5.1.**  
Improved, space-filling acoustics without visible loudspeakers.  
All listening positions are optimally supplied.

### The Technology

Novasonar flat-panel loudspeakers operate on the principle of a bendingwave transducer. The bendingwave transducer is modeled on such musical instruments as guitars or violins. With these instruments, a vibration is translated to the body through the strings, causing the body itself to vibrate. The surface disperses this vibration as sound.

The instrument is - so to speak - a vibrating sound body.

The Novasonar flat-panel loudspeaker is also a vibrating sound body. It is stimulated, however, by an electromagnetic diaphragm system, the exciter. The frequency range is very broadband and ranges from 100 Hz to 18000 Hz over the entire dispersion angle of almost 180° horizontally and 180° vertically. If necessary, this frequency range can be enhanced with a subwoofer from 30 Hz to 100 Hz. If the dispersion behaviour of a Novasonar flat-panel loudspeaker is compared to a conventional cone loudspeaker, it could be said that the difference is about equal to the heat distribution of an open fire compared to a central heating system, where by the dispersion characteristic of the Novasonar flat-panel loudspeaker equals the pleasant and balanced dispersion characteristic of the central heating system.

With these properties the Novasonar flat-panel loudspeaker offers excellent audio qualities. With the special stereo matrix a single Novasonar flat-panel speaker can even be converted into a stereo loudspeaker with unmatched audio quality and space dispersion behaviour.

### Your Requirements

Novasonar flat-panel loudspeakers can be freely designed, exactly as needed by you. Size, surface and form (in a two-dimensional sense) are almost endlessly variable.

The following surface designs are available:

- Artistic designs painted directly on the surface
- Laquered surfaces
- Wallpapered surfaces
- Surfaces painted with dispersion paints, etc.
- Plastered surfaces
- Surface reconstructions
- Real wood veneer
- Laminates
- Permanently or reversibly laminated prints
- Poster laminations
- Lettering
- Self-adhesive surfaces
- Screen coatings
- Hygienic surfaces
- Metal surfaces

And numberless other surface designs ...

Specify size, surface and shape of your Novasonar flat-panel loudspeaker and we will produce it according to your request. We look forward to bringing your ideas to life.



Monument protection



Habitation



High-tech ceilings



Presentation technology



Hotel & gastronomy



Dry construction and fair building

## Your Applications

### Historical monuments, restorations, museums and churches

Because of the numberless possibilities for surface designs and its ability to remain invisible while providing maximum sound quality Novasonar opens up completely new design concepts. Thus the original character of a room under historical monument protection can be retained with the use of Novasonar flat-panel loudspeakers. The Novasonar flat-panel loudspeakers for the "Hodler-Saal" of the "New Town Hall" in Hanover for example were veneered in mahogany.

### Homes, art, Home cinema and displays

The Novasonar flat-panel loudspeaker can be installed in walls, ceilings and furniture in your home or designed directly artistically with oil or other paints as a painting. Also coming as permanently laminated digital prints, reversible laminations of ads or graphics (e.g. company logos), poster laminates, etc..

### High-tech ceilings

Novasonar flat-panel loudspeakers can be integrated into many different commercially available grid ceilings. To accomplish this, the original boards are converted to Novasonar flat-panel loudspeakers. Using the original boards prevents colour or structural differences to the surrounding ceiling.

### Projection, conference and presentation technology

The Novasonar flat-panel loudspeaker designed as a projection screen is provided with a washable screen surface. In the large auditorium of the Zoological Institute in Munich with space for an audience of 400, Novasonar flat-panel loudspeakers are integrated into the projection screen measuring 40 square metres. Sound for this auditorium is realised exclusively with Novasonar flat-panel loudspeakers.

### Shops, hotels and hospitality

Chip boards or MDF boards in a shop building or a solid wood lining in a cosy hotel lobby can be a flat-panel loudspeaker. Novasonar opens up entirely new possibilities for presentation, information and interactive communication. At a high-quality shop in Munich for example, the table top of an interactive table is fitted with Novasonar flat-panel loudspeakers. At Delmenhorst train station, the front of a multifunction terminal was designed as a Novasonar flat-panel loudspeaker and matched to the shop interior.

### Dry construction and fair building

Because of the troublefree installation of the Novasonar flat-panel loudspeakers it is easy for the dry constructor or carpenter to integrate them directly and smoothly into the wall or ceiling, matching it to the interior decoration, as was done at IAA Frankfurt and Geneva's Car Fair at the booth of Mercedes-Benz.



Mrs Michaela Voß, interior decorator

## Novasonar GK - Installation

### 1 Extract

Prepare a cut-out within an existing gypsum plaster board planking or prepare a new gypsum plaster board planking, which offers a cut-out, allowing for a 5mm space between the edge of the Novasonar GK and the wall covering.

### 2 Assembly

In case transport braces were mounted on the backside of the speaker, please remove these and test the speaker to make sure that it was not damaged during the transportation. After the speaker has been successfully tested and has been found to be fully functional, connect the speaker cables!! Attach the loudspeaker to the subconstruction.

### 3 To bolt together

Screw the loudspeaker together with the metal profiles. Use preferably commercial screws for a fast mounting. The screws should not be further than 10cm apart from each other.

### 4 To scoff

Fill the gaps according to the specifications of the manufacturer of the gypsum boards or the spackle. Make sure, that the provided substructure of the gypsum plaster planking does not rattle because of the vibrations caused by the flat-panel loudspeaker. Pay close attention to the fact that no loose parts lay within or upon the substructure or are in any contact with it. Pay also attention to the fact, that the loudspeaker is not tangented by anything on its rear.

### 5 Finish!

## Based on experience

*"Experiencing space and sound in a revolutionary new way - that is phenomenal. Novasonar makes rooms appear completely different, because there is no more unattractive technology to be seen. Excellent effects can be achieved with this technology in professional as well as in private settings."*

Michaela Voß - interior decorator

*"The only thing you should see while using modern media technology is our touch panel. All other components are subject to our customer's individual needs. Novasonar is the optimal system to bring together sound and architecture."*

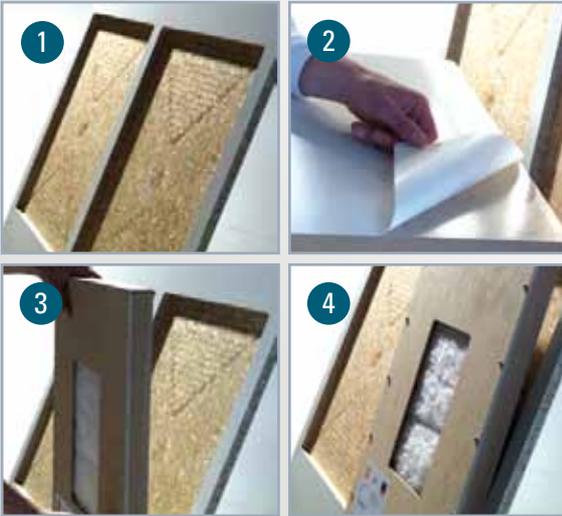
Siegfried Hermann - CRESTRON Germany,  
Professional media technology

*"Installing loudspeakers flush with the surrounding surface in dry construction is easier than you may think. The Novasonar systems are pre-fabricated so that they can be installed just like any conventional gypsum plasterboard. Connected, screwed in and joints plastered in just a few minutes. It couldn't be easier."*

Mathias Huprich - successful dry constructor

*"This technology complies with aesthetical requirements without sacrificing function. Novasonar helps me realise even sophisticated design ideas without compromises, because the design is not flawed by visible technology."*

Ilse Schmidt - excited Novasonar customer



Loudspeaker on MDF boards

### Novasonar KIT - Installation

#### 1 To sharpen

Reduce the thickness of the chipboard or MDF panel within the defined area of 436 mm x 571 mm (edge radius 9 mm) to an absolute thickness of 4 mm by milling. Thickness includes veneer, laminates, coatings and other. The milled surface has to be even and varnished.

#### 2 Remove transport securing device

In case transport braces were mounted on the back of the speaker, please remove them and test the speaker to make sure that it was not damaged during the transportation. After the speaker has been successfully tested and has been found to be fully functional remove the silicone paper at the front of the speaker.

#### 3 Assembly

The adhesive and varnished surfaces have to be clean and dry. Attach the self-adhesive front of the module to the prepared area on the back of the board material.

#### 4 Connection

Connect the speaker cables!! Make sure, that the provided substructure does not rattle because of the vibrations caused by the flat-panel loudspeaker. Pay close attention to the fact that no loose parts lay within or upon the substructure or are in any contact with it. Pay also attention to the fact, that the loudspeaker is not tangented by anything on its rear.

### Chipboards, MDF boards or solid wood simply converted into sound bodies.

The Novasonar KIT is used to convert prefabricated chipboards, MDF boards or solid wood, regardless of whether they are veneered, painted, laminated, covered with aluminium or laminate, etc. into premium loudspeakers in a matter of minutes. Simply remove the silicone paper from the front of the Novasonar KIT module and attach the self-adhesive front of the module to the back of the prepared board material. With these simple steps the Novasonar flat-panel loudspeaker is integrated into the boards invisibly and without grooves. The loudspeaker can be operated with a conventional HiFi amplifier with excellent sound quality using the loudspeaker network.



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# NOVASONAR GK

Loudspeaker | Drywall installation



**GK-Module 30**  
front view



**GK-Module 30**  
back view



**GK-Module 60**  
front view



**GK-Module 60**  
back view

## Novasonar Gypsum Plaster Boards (GK)

Flat-panel loudspeaker for integration in dry mortarless construction. The loudspeaker system that works on the principle of a bending-wave transducer. It has a flat-panel membrane, which is set into vibration by an exciter that is mounted on the rear. Easiest, nonvisible integration in dry mortarless construction. The loudspeaker consists of a commercial gypsum plaster board, reconstructed to a flat-panel loudspeaker, which can be screwed together with the existing substructure. A smoothing of the loudspeaker membrane is not necessary. The frame has a particularly robust design to reduce the transfer of the membrane vibrations to the surrounding ceiling structure, which could cause the ceiling to rattle. There are no annoying and visible intermediate damping layers. A 100-V transformer is also available as an option.

## Features

Novasonar GK flat-panel loudspeakers can be easily integrated in dry mortarless construction (gypsum plaster or gypsum fiberboards). This flat-panel loudspeaker is suitable for an easy integration in dry mortarless construction. The loudspeaker consists of a commercial gypsum plaster board which is reconstructed to a flat-panel loudspeaker. The model Novasonar GK can be – like a gypsum plaster board – easily into commercial construction of gypsum plaster boards without any effort integrated. A smoothing of the loudspeaker membrane is not necessary!

Versions and options Surface gypsum plaster (12,5mm thickness), different surfaces (e.g. gypsum fiber) on demand

WG  
901

Item number	1.002.901.003	1.002.901.004	1.002.901.001	
Description	Novasonar GK 30	Novasonar GK 60	Novasonar GK 60 PN	
Frequency range	100 Hz - 18000 Hz	100 Hz - 18000 Hz	100 Hz - 18000 Hz	
Dispersion angle	180° x 180°	180° x 180°	180° x 180°	
Power handling	30 W / 8 ohms	60 W / 4 (16) ohms	60 W / 4 (16) ohms	
Sensitivity	82 dB (1 W / 1 m)	85 dB (1 W / 1 m)	85 dB (1 W / 1 m)	
Max. SPL:	97 dB (1m)	103 dB (1m)	103 dB (1m)	
Dimensions (HxWxD)	500mm x 700mm x 44mm	500mm x 700mm x 44mm	500mm x 700mm x 44mm	
Weight	4,8 kg	4,8 kg	4,8 kg	
Assembly	Exciter	Exciter	Exciter	
Impedance	8 ohms	4 (16) ohms	4 (16) ohms	
Connection	standard cable	standard cable	standard cable	
Design	gypsum plaster	gypsum plaster	gypsum plaster	
SRP excl. VAT	€ 698,-	€ 930,-	€ 980,-	

# NOVASONAR DYNAMIC

Loudspeaker | Drywall installation



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**DYNAMIC 60**  
front view

**DYNAMIC 60**  
back view



Best sound quality and invisible also on exhibitions

## Novasonar DYNAMIC

Flat-panel loudspeaker for integration in dry mortarless construction. Flat-panel loudspeaker on the principle of the bendingwave transducer. It has a flat-panel membrane caused to vibrate by an exciter mounted on the rear. Simplest, nonvisible integration in dry mortarless construction. The loudspeaker comprises a commercial gypsum plaster board reconstructed to form a flat-panel loudspeaker which is screwed to the existing substructure like a conventional gypsum plaster board. There is no need to fill or smooth the loudspeaker membrane. The frame has a particularly robust design to minimise membrane vibrations to the surrounding structure.

## Features

It looks like a gypsum plaster board and fits invisibly into the wall or the ceiling. The Novasonar DYNAMIC flat-panel loudspeaker works on the principle of an acoustic musical instrument. It is modelled on, for example, guitars and violins. In such musical instruments, the vibrations of the strings are initiated into the sounding board and cause it to vibrate. This vibration is dispersed from its surface as sound. The musical instruments are vibrating sounding bodies. The Novasonar DYNAMIC flat-panel loudspeaker is also a vibrating sounding body. It is caused to vibrate by an electromagnetic voicecoil system, the so-called exciter, and disperses sound from its surface.

WG  
901

Item number	1.002.901.002	1.002.901.007		
Description	Novasonar DYNAMIC 60	Novasonar DYNAMIC 120		
Frequency range	80 Hz - 18000 Hz	80 Hz - 18000 Hz		
Dispersion angle	180° x 180°	180° x 180°		
Power handling	60 W / 6 ohms	120 W / 12 (3) ohms		
Sensitivity	92 dB (1 W / 1 m)	95 dB (1 W / 1 m)		
Max. SPL:	108 dB (1m)	114 dB (1m)		
Dimensions (HxWxD)	500mm x 625mm x 12,5 (44)mm	1000mm x 625mm x 12,5 (44)mm		
Weight	4,8 kg	9,6 kg		
Assembly	Exciter	Exciter		
Impedance	6 ohms	3 (12) ohms		
Connection	standard cable	standard cable		
Design	gypsum plaster	gypsum plaster		
SRP excl. VAT	€ 1080,-	€ 2180,-		



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# NOVASONAR KIT

Loudspeaker | wood-based materials



Novasonar KIT 30 / 60 / 60 PN



Novasonar KIT completely integrated in the wall

## Novasonar KIT

Flat-panel loudspeaker Novasonar KIT 60 for invisible integration in panel materials, e.g. medium density fiber boards (MDF), wood plates or chipboards. The loudspeaker system Novasonar KIT 60 that works on the principle of a bending wave transducer. It has a flat-panel membrane, which is set into vibration by an exciter that is mounted on the rear. The panel material provided by the customer in the form of chipboards, solid wooden boards or medium density boards, e.g. as parts of wall or ceiling panellings, is belaboured on its rear in a specified way or the cabinet maker so that this panel material can act as membrane within the specified area after the assembly of the Novasonar KIT 60. Thus the front of the membrane of the flat-panel loudspeaker is invisibly and smoothly integrated in the panel material.

## Features

Novasonar KIT 60 installation kits blend invisibly in panel materials, e.g. medium density fiber boards (MDF), wood plates or chipboards. In this case the panel materials, e.g. parts of wall or ceiling panellings are belaboured in a specified way, so that the Novasonar KIT 60 can be assembled on the rear side of the panel materials whereas the front acts as the membrane of the flat-panel loudspeaker. Thus the Flat-panel loudspeaker is integrated invisibly and groovelessly e.g. in wooden panellings or furniture.

WG  
901

Item number	1.002.901.008	1.002.901.009	1.002.901.010	
Description	Novasonar KIT 30	Novasonar KIT 60	Novasonar GK 60 PN	
Frequency range	100 Hz - 18000 Hz	100 Hz - 18000 Hz	100 Hz - 18000 Hz	
Dispersion angle	180° x 180°	180° x 180°	180° x 180°	
Power handling	30 W / 8 ohms	60 W / 4 (16) ohms	60 W / 4 (16) ohms	
Sensitivity	82 dB (1 W / 1 m)	85 dB (1 W / 1 m)	85 dB (1 W / 1 m)	
Max. SPL:	97 dB (1m)	103 dB (1m)	103 dB (1m)	
Dimensions (HxWxD)	435mm x 570mm x 40mm	435mm x 570mm x 40mm	435mm x 570mm x 40mm	
Weight	3,2 kg	3,5 kg	3,5 kg	
Assembly	Exciter	depending on character	depending on character	
Impedance	8 ohms	4 (16) ohms	4 (16) ohms	
Connection	standard cable	standard cable	standard cable	
Design	front adhesive	front adhesive	front adhesive	
SRP excl. VAT	€ 548,-	€ 659,-	€ 715,-	

# NOVASONAR CEILING

Loudspeaker | grid ceilings



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Novasonar Ceiling 30 / 60 / 60 PN



Novasonar Ceiling as hooking element  
invisible integrated into the wall

## Novasonar Ceiling 30

Flat-panel loudspeaker in modular ceiling format. The loudspeaker system that works on the principle of a bendingwave transducer. It has a flat-panel membrane, which is set into vibration by an exciter that is mounted on the rear. This loudspeaker consists of a commercial fiber board reconstructed to a flat-panel diaphragm loudspeaker and matches the 60 cm x 60 cm modular ceiling format. The loudspeaker is already provided with the original surface design and material of the ceiling fiber board. The frame has a particularly robust design to reduce the transfer of the membrane vibrations to the surrounding ceiling structure, which could cause the ceiling to rattle. There are no annoying and visible intermediate damping layers. A 100-V transformer is also available as an option.

## Blends into the ceiling design ...

This flat-panel loudspeaker is suitable for the direct integration into ceiling grids. The loudspeaker consists of a commercial fiber board, reconstructed to a flat-panel loudspeaker. Therefore Model Novasonar Ceiling can be delivered in nearly all original surface designs of commercial ceiling grids.

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Item number	1.002.901.011	1.002.901.012	1.002.901.013	
Description	Novasonar Ceiling 30	Novasonar Ceiling 60	Novasonar Ceiling 60 PN	
Frequency range	100 Hz - 18000 Hz	100 Hz - 18000 Hz	100 Hz - 18000 Hz	
Dispersion angle	180° x 180°	180° x 180°	180° x 180°	
Power handling	30 W / 8 ohms	60 W / 4 (16) ohms	60 W / 4 (16) ohms	
Sensitivity	82 dB (1 W / 1 m)	85 dB (1 W / 1 m)	85 dB (1 W / 1 m)	
Max. SPL:	97 dB (1m)	103 dB (1m)	103 dB (1m)	
Dimensions (HxWxD)	620mm x 620mm x 44mm	620mm x 620mm x 44mm other sizes on demand	620mm x 620mm x 44mm other sizes on demand	
Weight	4,5 kg	4,5 kg	4,5 kg	
Assembly	Exciter	Exciter	Exciter	
Impedance	8 ohms	4 (16) ohms	4 (16) ohms	
Connection	standard cable	standard cable	standard cable	
Design	original surface design on demand	original surface design on demand	original surface design on demand	
SRP excl. VAT	€ 749,-	€ 930,-	€ 980,-	



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# NOVASONAR STANDARD

Loudspeaker | solid construction



Novasonar Standard 30 / 60 / 60 PN



Novasonar Standard as invisible sound in staircase

## Novasonar Standard 30

Flat-panel loudspeakers for integration into interior constructions and furniture. The loudspeaker system that works on the principle of a bendingwave transducer. It has a flat-panel membrane, which is set into vibration by an exciter that is mounted on the rear. Suitable for rear installation or to fit flush with walls, ceilings, platforms, furniture, etc. The surface is suitable for the following designs: Genuine wood veneers or laminates, can be smoothed over, varnished, covered with a thin layer of plaster or wallpaper or have a self-adhesive design for laminations. The frame has a particularly robust design to reduce the transfer of the membrane vibrations to the surrounding structure. A 100-V is available as an option.

WG  
901

## As adaptable as a chameleon ...

Installation loudspeakers simply merge into their surroundings. Whether as plastered ceiling, wall-mounted loudspeaker or as part of a wall-to-wall cupboard crafted in fine wood, the design possibilities are virtually unlimited. Versions and options Surface wood Additional cost: Other surfaces available on request Foamed surface (long-term elastic) for mounting in dry mortarless Construction, concrete walls, brick walls

Item number	1.002.901.014	1.002.901.015	1.002.901.016	
Description	Novasonar Standard 30	Novasonar Standard 60	Novasonar Standard 60 PN	
Frequency range	100 Hz - 18000 Hz	100 Hz - 18000 Hz	100 Hz - 18000 Hz	
Dispersion angle	180° x 180°	180° x 180°	180° x 180°	
Power handling	30 W / 8 ohms	60 W / 4 (16) ohms	60 W / 4 (16) ohms	
Sensitivity	82 dB (1 W / 1 m)	85 dB (1 W / 1 m)	85 dB (1 W / 1 m)	
Max. SPL:	97 dB (1m)	103 dB (1m)	103 dB (1m)	
Dimensions (HxWxD)	435mm x 570mm x 40mm other sizes on demand	435mm x 570mm x 40mm other sizes on demand	435mm x 570mm x 40mm other sizes on demand	
Weight	4,5 kg	4,5 kg	4,5 kg	
Assembly	Exciter	Exciter	Exciter	
Impedance	8 ohms	4 (16) ohms	4 (16) ohms	
Connection	standard cable	standard cable	standard cable	
Design	wooden construction	wooden construction	wooden construction	
SRP excl. VAT	€ 498,-	€ 599,-	€ 648,-	

# NOVASONAR HIGH GAIN

Loudspeaker | solid construction



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Novasonar High Gain 60 / 60 PN



Novasonar High Gain for the best acoustic in bars or restaurants

## Novasonar High Gain

High-Gain-Design Flat-panel loudspeaker. The loudspeaker system works on the principle of a bendingwave transducer. It has a flat-panel membrane, which is set into vibration by an exciter that is mounted on the rear. Suitable to fit flush with walls or ceilings in combination with a laminated foamed surface with special adhesion, suitable for smoothing and plastering. The frame has a particularly robust design to reduce the transfer of the membrane vibrations to the surrounding structure. A 100-Volt-transformer is available as an option.

## Highest efficiency ...

High Gain 60 loudspeakers offer you a perfect opportunity of acoustic irradiation. They can be applied wherever "a powerful sound" is needed, e.g. : in clubs, bars, cafés, pubs, boutiques etc.

Versions and options High-Tech surface with honeycomb structure Additional Cost: Foamed surface for wall-mounting and integration into interior construction.

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Item number	1.002.901.017	1.002.901.018		
Description	Novasonar High Gain 60	Novasonar High Gain 60 PN		
Frequency range	100 Hz - 18000 Hz	100 Hz - 18000 Hz		
Dispersion angle	180° x 180°	180° x 180°		
Power handling	60 W / 4 (16) ohms	60 W / 4 (16) ohms		
Sensitivity	90 dB (1 W / 1 m)	90 dB (1 W / 1 m)		
Max. SPL:	108 dB (1m)	108 dB (1m)		
Dimensions (HxWxD)	435mm x 570mm x 40mm other sizes on demand	435mm x 570mm x 40mm other sizes on demand		
Weight	3,5 kg	3,5 kg		
Assembly	-	-		
Impedance	4 (16) ohms	4 (16) ohms		
Connection	standard cable	standard cable		
Design	high gain membrane	high gain membrane		
SRP excl. VAT	€ 930,-	€ 980,-		



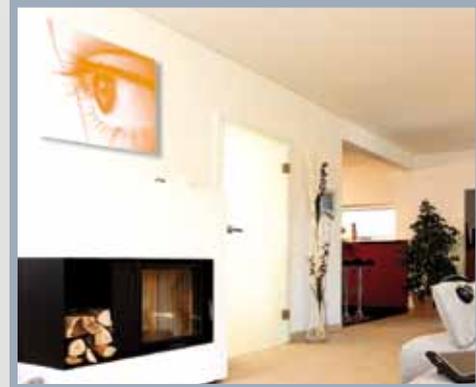
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# NOVASONAR PICTURE

Loudspeaker | picture lamination



Novasonar Picture 30 / 60 / 60 PN



Loudspeaker hangs on the wall as a self designed picture

## Novasonar Picture 30 / 60 / 60 PN / Picture Stereo / Picture Stereo PN

Flat-panel loudspeaker in picture design. The loudspeaker system that works on the principle of a bendingwave transducer. It has a flat-panel membrane in an aluminium frame, which is set into vibration by an exciter that is mounted on the rear. This flat-panel diaphragm loudspeaker hangs on the wall and looks like any ordinary picture. It has a white surface. A 100-V transformer is also available as an option.

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## Features

They hang on the wall and look like quite ordinary pictures. These flat-panel picture loudspeakers offer you an exclusive opportunity for acoustic irradiation and can be used wherever architecture requires special solutions.

### Versions and options

Surface white, frame natural aluminium  
Additional cost: Surface in various RAL colours Frame in various colours Frameless on request Installation directions flatpanel picture loudspeakers can be wall-mounted like ordinary pictures.

Order number	1.002.901.019	1.002.901.020	1.002.901.021	1.002.901.022	1.002.901.023
Description	Novasonar Picture 30	Novasonar Picture 60	Novasonar Picture 60 PN	Novasonar Picture Stereo 60 PN	Novasonar Picture Stereo 60 PN
Frequency range	100 Hz - 18000 Hz				
Dispersion angle	180° x 180°				
Power handling	30 W / 8 ohms	60 W / 4 (16) ohms	60 W / 4 (16) ohms	2 x 45 W / 12 ohms	60 W / 4 (16) ohms
Sensitivity	82 dB (1 W / 1 m)	85 dB (1 W / 1 m)			
Max. SPL:	97 dB (1m)	103 dB (1m)	103 dB (1m)	103 dB (1m)	103 dB (1m)
Dimensions (HxWxD)	500mm x 700mm x 38mm other sizes on demand	500mm x 700mm x 38mm other sizes on demand	500mm x 700mm x 38mm other sizes on demand	500mm x 700mm x 38mm other sizes on demand	500mm x 700mm x 38mm other sizes on demand
Weight	3,5 kg (standard sized)				
Assembly	depending on character				
Impedance	8 (4 bzw. 16) (12) ohms				
Connection	standard cable				
Design	aluminium frame, frameless on demand				
SRP excl. VAT	€ 715,-	€ 930,-	€ 980,-	on demand	on demand



Novasonar Multimedia / Multimedia PN



Novasonar Multimedia: Loudspeaker used as projection-wall

### Novasonar Multimedia / Multimedia PN

Flat-panel loudspeaker as projection screen, mono or stereo. The loudspeaker system that works on the principle of a bending-wave transducer. The flat-panel membrane in an aluminium frame is set into vibration by an exciter that is mounted on the rear and, with the appropriate coating, also serves simultaneously as surface for front projections. Exciters connected via a patented stereo matrix for extension of stereo basis.

### The equipment behind the scenes! ...

...says your architect... Whether mono, stereo or Dolby-Surround, our flat-panel loudspeakers place the sound where it belongs. It comes from within the picture and the whole thing is completely invisible ... and leaves everyone believing your architect is a magician.

Versions and options Reflecting or matt white surface, frame natural aluminium

Installationshinweis multimedia screens can be wall-mounted.

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Order number	1.002.901.024	1.002.901.025		
Description	Novasonar Multimedia	Novasonar Multimedia PN		
Frequency range	100 Hz - 18000 Hz	100 Hz - 18000 Hz		
Dispersion angle	180° x 180°	180° x 180°		
Power handling	depending on character	depending on character		
Sensitivity	depending on character	depending on character		
Max. SPL:	108 dB (1m)	108 dB (1m)		
Dimensions (HxWxD)	other sizes on demand	other sizes on demand		
Weight	depending on character	depending on character		
Assembly	depending on character	depending on character		
Impedance	depending on design	depending on design		
Connection	standard cable	standard cable		
Design	aluminium frame	aluminium frame		
SRP excl. VAT	on demand	on demand		



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# NOVASONAR CREATIVE

Loudspeaker | very individual



Novasonar Creative 60 / 60 PN



Novasonar Creative: Loudspeaker can assume all colours and shapes. For example integrated in a counter.

## Novasonar Creative 60 / 60 PN

The loudspeaker system that works on the principle of a bending-wave transducer. It has a flat-panel membrane, which is set into vibration by an exciter that is mounted on the rear. The Novasonar creative as decorative element can be manufactured in any geometrical shape and designed with any of the following surfaces: Genuine wood veneers or laminates, can be smoothed over, varnished, covered with a thin layer of plaster or wallpaper or have a self-adhesive design for laminations. The frame has a particularly robust design to reduce the transfer of the membrane vibrations to the surrounding structure. A 100-V transformer and a passive cross-over network is also available as an option.

## Custom made shape, colour and surface-according to your requirements on design and function

You want your flat-panel-loudspeaker to be an element in your concept of interior decoration? We will manufacture your flat-panel-loudspeaker according to your wishes. You can choose exactly the shape, surface and colour you need to make your interior design just perfect

WG  
901

Item number	1.002.901.026	1.002.901.027		
Description	Novasonar Creative 60	Novasonar Creative 60 PN		
Frequency range	100 Hz - 18000 Hz	100 Hz - 18000 Hz		
Dispersion angle	180° x 180°	180° x 180°		
Power handling	60 W / 8 ohms	60 W / 8 ohms		
Sensitivity	85 dB (1 W / 1 m)	85 dB (1 W / 1 m)		
Max. SPL:	103 dB (1m)	103 dB (1m)		
Dimensions (HxWxD)	variable	variable		
Weight	depending on design	depending on design		
Assembly	Exciter	Exciter		
Impedance	4 (16) ohms	4 (16) ohms		
Connection	standard cable	standard cable		
Design	wooden construction	wooden construction		
SRP excl. VAT	on demand	on demand		

# NOVASONAR BOXER 50-2

Subwoofer



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Novasonar Boxer 100-2 front view

Novasonar Boxer 100-2 back view



Novasonar Boxer: Subwoofer invisible integrated in the wall

## Novasonar Boxer 100-2 stereo

Subwoofer system on the Boxer principle for flush and seamless dry-wall mounting. The front of the subwoofer system comprises a gypsum plaster board screwed directly to the already existing drywall substructure. Special mounting material is not necessary. The front of the subwoofer and the transition of the wall or ceiling covering can be filled and smoothed with a conventional gypsum fibre filler for filling the joints to make them flush. Worked into the front is a sound outlet in the form of a 10 mm narrow slot that runs along the loudspeaker front at a distance of some 75 mm. This enables the sound outlet to be positioned, for example, just above the skirting board or on the ceiling edge. The very small installation depth of 73 mm on the back enables installation in a 75 mm deep substructure. Through the special configuration of the loudspeaker chassis on the Boxer principle there are hardly any distracting structure-borne vibrations on the loudspeaker housing.

The Boxer 100-2 Subwoofer is especially designed for drywall installations that always demand the performance of a vibration-free design. This subwoofer loudspeaker constructed for direct integration in the drywall comprises, on the front, a commercial gypsum plaster board and, on the back, a stable multiplex housing, in which the loudspeaker chassis are mounted. The Boxer 100-2 is the ideal subwoofer extension for all Novasonar flat-panel loudspeakers. It can be directly screwed to the substructure of the drywalls or ceilings without any difficulties and without any additional retaining brackets, and can then be smoothed flush with it. The special Boxer technology means there are almost no vibrations on the loudspeaker housing. It is therefore not necessary to decouple the loudspeaker from the drywall construction because of distracting structure-borne vibrations. The sound outlet in the form of a very narrow slot is located on the periphery of the loudspeaker front and can thus be positioned unobtrusively just above the skirting board or on the ceiling edge.

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<b>Item number</b>	<b>1.367.900.016</b>			
Description	Novasonar Boxer 100-2 stereo			
Frequency range	38 Hz - 200 Hz			
Dispersion angle	180° x 180°			
Power handling	2 x 100 W / 5 ohms			
Sensitivity	82 dB (1 W / 1m)			
Max. SPL:	100 dB (1m)			
Dimensions (HxWxD)	500mm x 625mm x 12,5 (86)mm			
Weight	11 kg			
Assembly	special cone			
Impedance	2 x 5 ohms			
Connection	standard cable			
Design	gypsum plaster board			
DSP Settings	on external DSP, 1x Hp, 1x Lp, 1x parametric EQ			
SRP excl. VAT	€ 1.650,-			



# NOVASONAR ACTIVE SUB COMPACT

Subwoofer

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Active Sub Compact



Active subwoofer provides invisible loudspeaker for a better sound in the room

## Novasonar Active Sub Compact

Active subwoofer with crossover and volume control. Active 200-mm subbass, bassreflex casing, integrated amplifier with active crossover. Black housing, varnished.

## We have the power

This active subwoofer was specially featured by for bending wave transducers and can thus be combined to optimum effect with Novasonar flatpanel loudspeakers. The Active-Sub Compact can be used wherever either technical or visual sophistication is required and is a suitable component in numerous applications.

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<b>Item number</b>	<b>1.002.901.029</b>			
Description	Active Sub Compact			
Frequency range	30 Hz - 300 Hz			
Adjustment range	40 Hz - 180 Hz			
Dispersion angle	180° x 180°			
Power handling	55 W / 8 ohms			
Sensitivity	84 dB (1 W / 1 m)			
Max. SPL:	101 dB (1m)			
Dimensions (HxWxD)	420mm x 275mm x 430mm			
Weight	12,2 kg			
Assembly	200mm cone			
Impedance	8 ohms			
Connection	pinch cocks and cinch			
Design	case black			
SRP excl. VAT	€ 648,-			



High quality 100-V transformer



Foamed surface

Digital prints



### High quality 100-V transformer

On demand we provide Novasonar loudspeakers with high quality customized 100-V transformers mounted on the inside of the loudspeaker, so the loudspeakers can be used with conventional 100 V systems.

### Foamed surface

The special foamed surface makes it possible to spackle the Novasonar loudspeaker with gypsum plaster, so it can be build into massive concrete and brick walls or ceilings etc.

### Digital prints

For the Novasonar picture loudspeaker we laminate digital prints on canvas on the surface of the loudspeaker. Together with the designers of "Nachbar Fotografie" we create Novasonar picture loudspeakers with any of your favourite paintings or photographs.

WG  
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Item number	1.002.901.033	1.002.901.034	1.002.901.035	1.002.901.036
Description	High quality 100/25 V transformer	High quality 100/50 V transformer	Foamed surface	Digital prints
Power handling	-	-	-	-
SRP excl. VAT	€ 65,-	€ 125,-	€ 80,-	on demand



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GIVE YOUR ROOM AN EXCELLENT SOUND

