



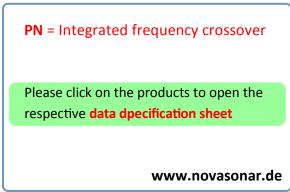
NOVASONAR - Invisible loudspeaker

KIT-Series

Power handling: 20 Watts	
Dimensions: 260 (205) mm x 300 (360) mm	
KIT 20 Mini (Ext. DSP recommended)	2
KIT 20 Mini / PN (Incl. frequency crossover)	3



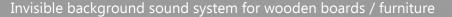








NOVASONAR KIT 20 Mini





Building material and the sound system from a single production source





Description / Technical data

etc. on request

Flat-panel loudspeaker for integration in wooden boards/ furniture on the principle of the bending wave transducer with a flat panel membrane, which is brought to vibration by electrical exciters mounted to the.

Suitable for all conventional wooden boards

designs, such as paints, veneers, laminates, etc.

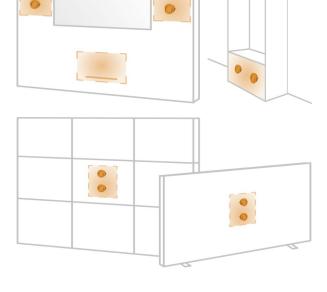
Chipboards, MDF etc. with all conventional surfaces and

Other materials, for example thin-stone, glass, plexiglass

The wooden board has to be milled down to a thickness between 3 mm and 5 mm on the back in the area of the loudspeaker module and thus causes sound-neutrality. The loudspeaker module has to be glued to the back of the thinned surface of the wooden board optionally either with self-adhesive foil or assembly adhesive. This means the loudspeaker is jointlessly and invisibly integrated into the front of the wooden board.

The milling work and the integration of the loudspeaker module into the wooden board/furniture can be done by ML-Audio or by the carpenter/contractor.

Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.



Dimensions version 1: 260 mm x 300 mm x 40 mm

Dimensions version 2: 205 mm x 360 mm x 40 mm

Frequency response: 150 Hz – 20000 Hz

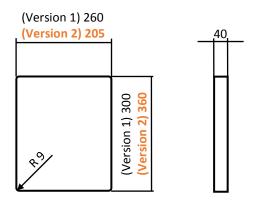
EQ: PN- integrated crossover

Dispersion: $180^{\circ} \times 180^{\circ}$ Power handling: $20 \text{ W} / 8 \Omega$ Optional: 70/100 V

Sensitivity: 78 dB (1 w / 1 m) Max. SPL: 90 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH

Model: Novasonar KIT 20 Mini



NOVASONAR KIT 20 Mini / PN

Invisible background sound system for wooden boards / furniture



Building material and the sound system from a single production source

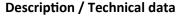




Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials, for example thin-stone, glass, plexiglass etc. on request

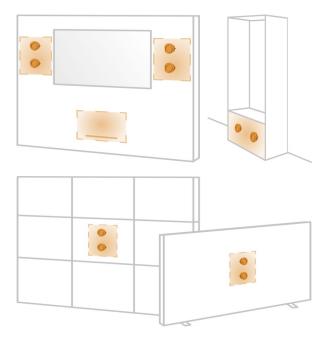


Flat-panel loudspeaker for integration in wooden boards/ furniture on the principle of the bending wave transducer with a flat panel membrane, which is brought to vibration by electrical exciters mounted to the back and with an integrated frequency crossover/filter.

The wooden board has to be milled down to a thickness between 3 mm and 5 mm on the back in the area of the loudspeaker module and thus causes sound-neutrality. The loudspeaker module has to be glued to the back of the thinned surface of the wooden board optionally either with self-adhesive foil or assembly adhesive. This means the loudspeaker is jointlessly and invisibly integrated into the front of the wooden board.

The milling work and the integration of the loudspeaker module into the wooden board/furniture can be done by ML-Audio or by the carpenter/contractor.

Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.



(Version 1) 260 (Version 2) 205 (Necksion 2) 300 (Version 2) 300 (Version 2) 300 (Version 2) 300 (Necksion 2) 300 (Necksion 3) 300 (Necksion 3 Dimensions version 1: 260 mm x 300 mm x 40 mm

Dimensions version 2: 205 mm x 360 mm x 40 mm

Frequency response: 150 Hz – 20000 Hz

EQ: PN- integrated crossover

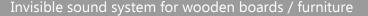
Dispersion: $180^{\circ} \times 180^{\circ}$ Power handling: $20 \text{ W} / 8 \Omega$ Optional: 70/100 V

Sensitivity: 78 dB (1 w / 1 m)

Max. SPL: 90 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH Model: Novasonar KIT 20 Mini / PN

NOVASONAR KIT 30





Building material and the sound system from a single production source

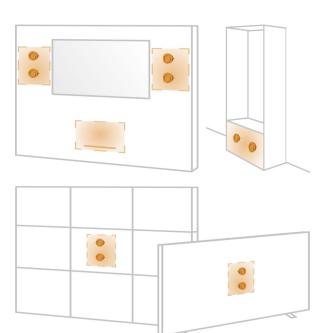


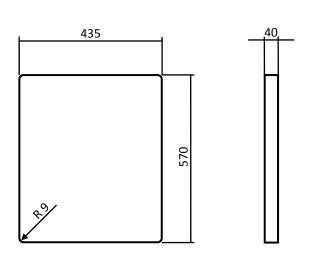


Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials, for example thin-stone, glass, plexiglass etc. on request





Description / Technical data

Flat-panel loudspeaker for integration in wooden boards/ furniture on the principle of the bending wave transducer with a flat panel membrane, which is brought to vibration by electrical exciters mounted to the back.

The wooden board has to be milled down to a thickness between 3 mm and 5 mm on the back in the area of the loudspeaker module and thus causes sound-neutrality. The loudspeaker module has to be glued to the back of the thinned surface of the wooden board optionally either with self-adhesive foil or assembly adhesive. This means the loudspeaker is jointlessly and invisibly integrated into the front of the wooden board.

The milling work and the integration of the loudspeaker module into the wooden board/furniture can be done by ML-Audio or by the carpenter/contractor.

Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.

Dimensions: 435 mm x 570 mm x 40 mm

Frequency response: 80 Hz – 20000 Hz

EQ: External Dispersion: $180^{\circ} \times 180^{\circ}$ Power handling: $30 \text{ W} / 8 \Omega$ Optional: 70/100 V

Sensitivity: 80 dB (1 w / 1 m)

Max. SPL: 95 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH

Model: Novasonar KIT 30

NOVASONAR KIT 30 / PN

invisible sound system for wooden boards / furniture



Building material and the sound system from a single production source

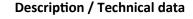




Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials, for example thin-stone, glass, plexiglass etc. on request

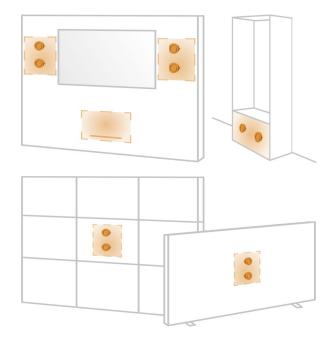


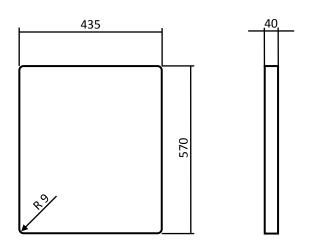
Flat-panel loudspeaker for integration in wooden boards/ furniture on the principle of the bending wave transducer with a flat panel membrane, which is brought to vibration by electrical exciters mounted to the back and with an integrated frequency crossover/filter.

The wooden board has to be milled down to a thickness between 3 mm and 5 mm on the back in the area of the loudspeaker module and thus causes sound-neutrality. The loudspeaker module has to be glued to the back of the thinned surface of the wooden board optionally either with self-adhesive foil or assembly adhesive. This means the loudspeaker is jointlessly and invisibly integrated into the front of the wooden board.

The milling work and the integration of the loudspeaker module into the wooden board/furniture can be done by ML-Audio or by the carpenter/contractor.

Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.





Dimensions: 435 mm x 570 mm x 40 mm

Frequency response: 80 Hz – 20000 Hz

EQ: PN- integrated crossover

Dispersion: $180^{\circ} \times 180^{\circ}$ Power handling: $30 \text{ W} / 8 \Omega$ Optional: 70/100 V

Sensitivity: 80 dB (1 w / 1 m)

Max. SPL: 95 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH

Model: Novasonar KIT 30 / PN

NOVASONAR KIT 60





Building material and the sound system from a single production source





Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials, for example thin-stone, glass, plexiglass etc. on request

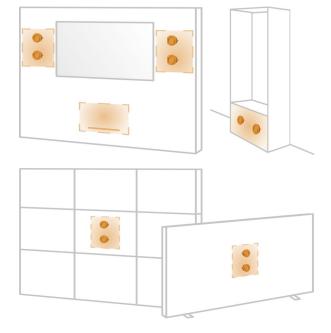
Description / Technical data

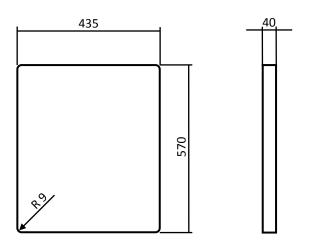
Flat-panel loudspeaker for integration in wooden boards/ furniture on the principle of the bending wave transducer with a flat panel membrane, which is brought to vibration by electrical exciters mounted to the back.

The wooden board has to be milled down to a thickness between 3 mm and 5 mm on the back in the area of the loudspeaker module and thus causes sound-neutrality. The loudspeaker module has to be glued to the back of the thinned surface of the wooden board optionally either with self-adhesive foil or assembly adhesive. This means the loudspeaker is jointlessly and invisibly integrated into the front of the wooden board.

The milling work and the integration of the loudspeaker module into the wooden board/furniture can be done by ML-Audio or by the carpenter/contractor.

Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.





Dimensions: 435 mm x 570 mm x 40 mm

Frequency response: 80 Hz – 20000 Hz

EQ: External Dispersion: 180° x 180°

Power handling: $60 \text{ W} / 4 \Omega \text{ (Optional 16 }\Omega\text{)}$

Optional: 70/100 V

Sensitivity: 83 dB (1 w / 1 m)

Max. SPL: 101 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH

Model: Novasonar KIT 60

NOVASONAR KIT 60 / PN



Building material and the sound system from a single production source

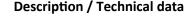




Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials, for example thin-stone, glass, plexiglass etc. on request

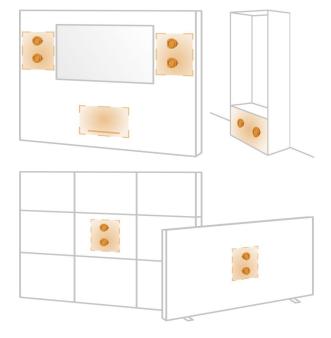


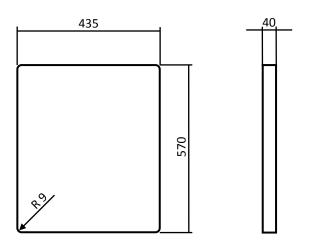
Flat-panel loudspeaker for integration in wooden boards/ furniture on the principle of the bending wave transducer with a flat panel membrane, which is brought to vibration by electrical exciters mounted to the back and with an integrated frequency crossover/filter.

The wooden board has to be milled down to a thickness between 3 mm and 5 mm on the back in the area of the loudspeaker module and thus causes sound-neutrality. The loudspeaker module has to be glued to the back of the thinned surface of the wooden board optionally either with self-adhesive foil or assembly adhesive. This means the loudspeaker is jointlessly and invisibly integrated into the front of the wooden board.

The milling work and the integration of the loudspeaker module into the wooden board/furniture can be done by ML-Audio or by the carpenter/contractor.

Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.





Dimensions: 435 mm x 570 mm x 40 mm

Frequency response: 80 Hz - 20000 Hz

EQ: PN- integrated crossover

Dispersion: 180° x 180° Power handling: 60 W / 4 Ω Optional: 70/100 V

Sensitivity: 83 dB (1 w / 1 m) Max. SPL: 101 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH

Model: Novasonar KIT 60 / PN

NOVASONAR KIT 60 Stereo





Building material and the sound system from a single production source

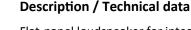




Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials, for example thin-stone, glass, plexiglass etc. on request

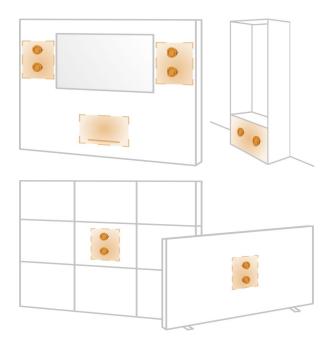


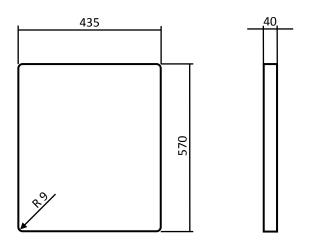
Flat-panel loudspeaker for integration in wooden boards/ furniture on the principle of the bending wave transducer with a flat panel membrane, which is brought to vibration by electrical exciters mounted to the back and dual channel input for stereo applications.

The wooden board has to be milled down to a thickness between 3 mm and 5 mm on the back in the area of the loudspeaker module and thus causes sound-neutrality. The loudspeaker module has to be glued to the back of the thinned surface of the wooden board optionally either with self-adhesive foil or assembly adhesive. This means the loudspeaker is jointlessly and invisibly integrated into the front of the wooden board.

The milling work and the integration of the loudspeaker module into the wooden board/furniture can be done by ML-Audio or by the carpenter/contractor.

Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.





Dimensions: 435 mm x 570 mm x 40 mm

Frequency response: 80 Hz – 20000 Hz

EQ: External Dispersion: $180^{\circ} \times 180^{\circ}$ Power handling: $2 \times 30 \text{ W} / 2 \times 8 \Omega$

Optional: 70/100 V

Sensitivity: 83 dB (1 w / 1 m)

Max. SPL: 101 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH

Model: Novasonar KIT 60 Stereo

NOVASONAR KIT 60 Stereo / PN

Invisible sound system for wooden boards / furniture



Building material and the sound system from a single production source





Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials, for example thin-stone, glass, plexiglass etc. on request

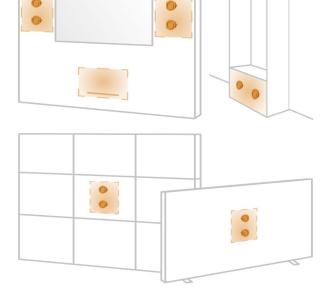
Description / Technical data

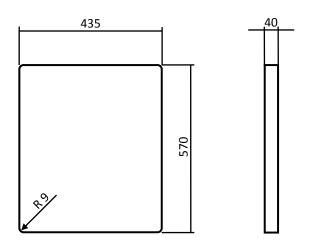
Flat-panel loudspeaker for integration in wooden boards/ furniture on the principle of the bending wave transducer with a flat panel membrane, which is brought to vibration by electrical exciters mounted to the back and with two integrated frequency crossovers/filters for dual channel input for stereo applications.

The wooden board has to be milled down to a thickness between 3 mm and 5 mm on the back in the area of the loudspeaker module and thus causes sound-neutrality. The loudspeaker module has to be glued to the back of the thinned surface of the wooden board optionally either with self-adhesive foil or assembly adhesive. This means the loudspeaker is jointlessly and invisibly integrated into the front of the wooden board.

The milling work and the integration of the loudspeaker module into the wooden board/furniture can be done by ML-Audio or by the carpenter/contractor.

Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.





Dimensions: 435 mm x 570 mm x 40 mm

Frequency response: 80 Hz – 20000 Hz

EQ: PN— integrated crossovers

Dispersion: 180° x 180°

Power handling: $2 \times 30 \text{ W} / 2 \times 8 \Omega$

Optional: 70/100 V

Sensitivity: 83 dB (1 w / 1 m)

Max. SPL: 101 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH Model: Novasonar KIT 60 Stereo / PN

NOVASONAR High Gain 60





Building material and the sound system from a single production source





Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials, for example thin-stone, glass, plexiglass etc. on request

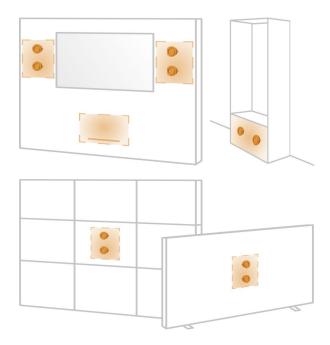


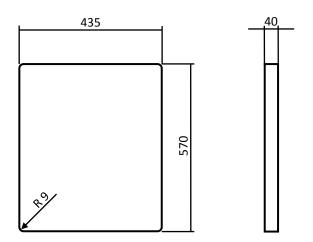
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Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.





Dimensions: 435 mm x 570 mm x 40 mm

Frequency response: 80 Hz – 20000 Hz

EQ: External Dispersion: 180° x 180°

Power handling: $60 \text{ W} / 4 \Omega \text{ (Optional 16 }\Omega\text{)}$

Optional: 70/100 V

Sensitivity: 86 dB (1 w / 1 m)

Max. SPL: 104 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH Model: Novasonar High Gain 60

NOVASONAR High Gain 60 / PN

Invisible sound system for wooden boards / furniture



Building material and the sound system from a single production source

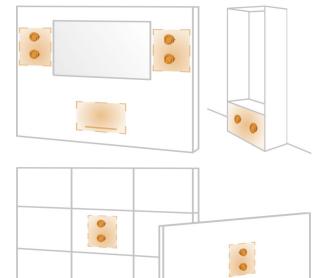


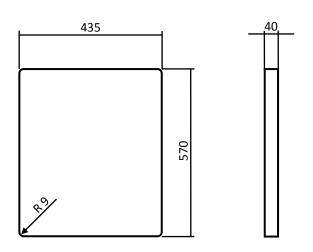


Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials, for example thin-stone, glass, plexiglass etc. on request





Description / Technical data

Flat-panel loudspeaker for integration in wooden boards/ furniture on the principle of the bending wave transducer with a flat panel membrane, which is brought to vibration by electrical exciters mounted to the back and with an integrated frequency crossover/filter.

The wooden board has to be milled down to a thickness between 3 mm and 5 mm on the back in the area of the loudspeaker module and thus causes sound-neutrality. The loudspeaker module has to be glued to the back of the thinned surface of the wooden board optionally either with self-adhesive foil or assembly adhesive. This means the loudspeaker is jointlessly and invisibly integrated into the front of the wooden board.

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Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.

Dimensions: 435 mm x 570 mm x 40 mm

Frequency response: 80 Hz – 20000 Hz

EQ: PN- integrated crossover

Dispersion: $180^{\circ} \times 180^{\circ}$ Power handling: $60 \text{ W} / 4 \Omega$ Optional: 70/100 V

Sensitivity: 86 dB (1 w / 1 m)

Max. SPL: 104 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH Model: Novasonar High Gain 60 / PN

NOVASONAR High Gain 60 Stereo

Invisible sound system for wooden boards / furniture



Building material and the sound system from a single production source

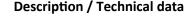




Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials, for example thin-stone, glass, plexiglass etc. on request

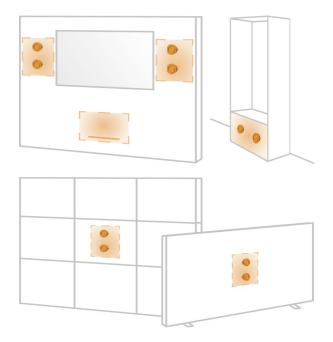


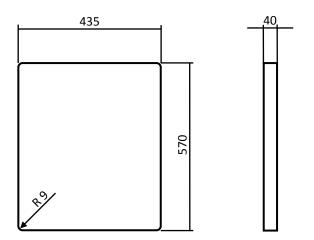
Flat-panel loudspeaker for integration in wooden boards/ furniture on the principle of the bending wave transducer with a flat panel membrane, which is brought to vibration by electrical exciters mounted to the back and dual channel input for stereo applications.

The wooden board has to be milled down to a thickness between 3 mm and 5 mm on the back in the area of the loudspeaker module and thus causes sound-neutrality. The loudspeaker module has to be glued to the back of the thinned surface of the wooden board optionally either with self-adhesive foil or assembly adhesive. This means the loudspeaker is jointlessly and invisibly integrated into the front of the wooden board.

The milling work and the integration of the loudspeaker module into the wooden board/furniture can be done by ML-Audio or by the carpenter/contractor.

Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.





Dimensions: 435 mm x 570 mm x 40 mm

Frequency response: 80 Hz – 20000 Hz

EQ: External Dispersion: $180^{\circ} \times 180^{\circ}$ Power handling: $2 \times 30 \text{ W} / 2 \times 8 \Omega$

Optional: 70/100 V

Sensitivity: 86 dB (1 w / 1 m)

Max. SPL: 104 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH Model: Novasonar High Gain 60 Stereo

NOVASONAR High Gain 60 Stereo / PN





Building material and the sound system from a single production source





Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials, for example thin-stone, glass, plexiglass etc. on request

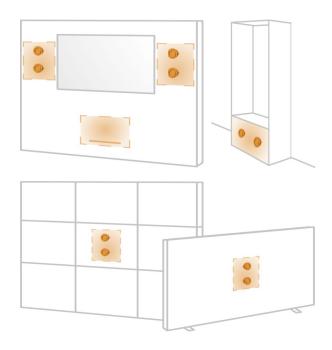
Description / Technical data

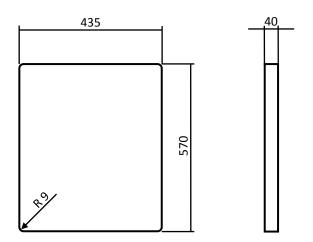
Flat-panel loudspeaker for integration in wooden boards/ furniture on the principle of the bending wave transducer with a flat panel membrane, which is brought to vibration by electrical exciters mounted to the back and with two integrated frequency crossovers/filters for dual channel input for stereo applications.

The wooden board has to be milled down to a thickness between 3 mm and 5 mm on the back in the area of the loudspeaker module and thus causes sound-neutrality. The loudspeaker module has to be glued to the back of the thinned surface of the wooden board optionally either with self-adhesive foil or assembly adhesive. This means the loudspeaker is jointlessly and invisibly integrated into the front of the wooden board.

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Suitable are conventional chipboards, MDF, solid wooden boards, etc. with all usual surfaces, such as, for example, paints, veneers, laminates, etc.





Dimensions: 435 mm x 570 mm x 40 mm

Frequency response: 80 Hz – 20000 Hz

EQ: PN- integrated crossovers

Dispersion: 180° x 180°

Power handling: $2 \times 30 \text{ W} / 2 \times 8 \Omega$

Optional: 70/100 V

Sensitivity: 86 dB (1 w / 1 m)

Max. SPL: 104 dB (1 m)

Manufacturer: ML-Audio und Carbons GmbH

Model: Novasonar High Gain 60 Stereo / PN

NOVASONAR Invisible Sound System with the intelligent integration concept for a perfect installation

NOVASONAR



ML-Audio und Carbons GmbH

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55124 Mainz

Germany

Tel. +49 6 131 60 30 723

Fax +49 6 131 60 30 796

Email: info@mlaudio.de





NOVASONAR - Invisible loudspeaker

KIT-Series

Power handling: 20 Watts

Dimensions: 260 (205) mm x 300 (360) mm

KIT 20 Mini (Ext. DSP recommended)

KIT 20 Mini / PN (Incl. frequency crossover)

Power handling: 30 Watts

Dimensions: 435 mm x 570 mm

KIT 30 (Ext. DSP recommended)

KIT 30 / PN (Incl. frequency crossover)

Power handling: 60 Watts

Dimensions: 435 mm x 570 mm

KIT 60 (Ext. DSP recommended)

KIT 60 / PN (Incl. frequency crossover)

KIT 60 Stereo (Ext. DSP recommended)

KIT 60 Stereo / PN (Incl. frequency crossover)

High Gain 60 (Ext. DSP recommended)

High Gain 60 / PN (Incl. frequency crossover)

High Gain 60 Stereo (Ext. DSP recommended)

High Gain 60 Stereo / PN (Incl. frequency crossover)

PN = Integrated frequency crossover

Suitable for all conventional wooden boards

Chipboards, MDF etc. with all conventional surfaces and designs, such as paints, veneers, laminates, etc.

Other materials on request.

www.novasonar.de



