

better sound
better design

contents

System Audio dares to be different – the history a different idea about sound and technology	3 4
SA2K – the best compact loudspeaker we have built	5
70AV – make your own quality home theatre	8
the System Audio SA1200 series	
1270 – great sound in a beautiful piece of furniture	9
SA1250 – discrete and powerful	10
SA1230 – expect the unexpected	11
the System Audio SA200 series	
SA210 and SA210AV – compact and versatile	12
SA208 and SA208AV – hang it on the wall with only one screw!	13
SA205 – big sound from a compact loudspeaker	14
accessories	
FS1 – speaker stand	15
CB1 – ceiling bracket	15
WB1 – wall bracket	15
SPK1 – spikes	15
System Audio active subwoofer	
SubElectro 100 – a completely different subwoofer	16
what do technical specifications tell?	17



System Audio dares to be different

- the history

It was the year 1984. At that time loudspeakers had to be gigantic and technically complicated. This was when System Audio introduced its first loudspeaker, and the press was amazed and wrote: "This loudspeaker sets new standards". But this loudspeaker was not like all the others, because it was a compact speaker with big sound. A loudspeaker that was created in fascination of excellent sound – and not just technology. A loudspeaker that showed a new way.

a company with soul

It was Ole Witthøft, who founded System Audio A/S back in 1984. For a long time he had been looking for some really good loudspeakers and as a musician he knew how music should sound. Ole explains: "There were no loudspeakers that could reproduce the music in a live way. Most of them sounded boring. If you do not hear the details of the sound or sense the feeling because the reproduction is too poor, then you will never experience how exciting music can be. I wondered why the loudspeakers were competing about the best technical specifications when it is the sound that matters".

Therefore he decided to build his own loudspeakers. Within a few years the demand for Ole Witthøft's loudspeakers increased and in 1984 System Audio A/S was a reality.

Today Ole Witthøft is the leader of the R/D department at System Audio A/S. Millions have been invested in product development and a team of experts are constantly working to ensure that System Audio loudspeakers will keep on showing new ways.

the difference is clear to anyone

System Audio loudspeakers are sold almost worldwide. Our customers are people that love excellent sound for music and movies, but also recording studios, TV stations and musicians of all ages. Ole Witthøft explains: "We do not only make loudspeakers for experts, everybody is able to appreciate good sound. Our aim is to make the difference so big that anyone can hear it."

a company with attitudes

System Audio does not ask what the market expects from us because the whole idea of our company was formed in 1984 as Ole Witthøft discovered that the loudspeakers of the market were not good enough. System Audio sets its own standards because our products start with an idea. We will not contribute to the confusion that loudspeakers are just about technology. To System Audio it is absolutely clear that the quality comes from the sound and the loudspeakers being able to be a natural piece of furniture in the living room.



Ole Witthøft founded System Audio A/S in 1984

System Audio stands out in a crowd



System Audio's first loudspeaker



a different idea about sound and technology

In a world where technologies and truths come and go like mayflies, the System Audio loudspeakers are based on a number of long-life ideas that last longer than the conventional technological fashion that will be forgotten tomorrow.

The sound is the most important thing for a loudspeaker. But the loudspeaker is against the natural laws like no of the other components in a system. In an amplifier, a DVD or a CD the signal consists of electrons that move very precisely and fast. But in loudspeaker membranes that move create the sound. The membranes of the loudspeaker weigh much more than electrons and this is one of the reasons why the sound loses a great deal of its precision in a loudspeaker. One might say that the loudspeaker is the slowest component in a system.

faster is better

A System Audio speaker is much faster than a conventional loudspeaker, because we use smaller and more lightweight membranes that weigh a quarter of normal piece of paper or less. A conventional speaker membrane weighs at least twice as much. Imagine what the speed means to the sound you hear.

better sound

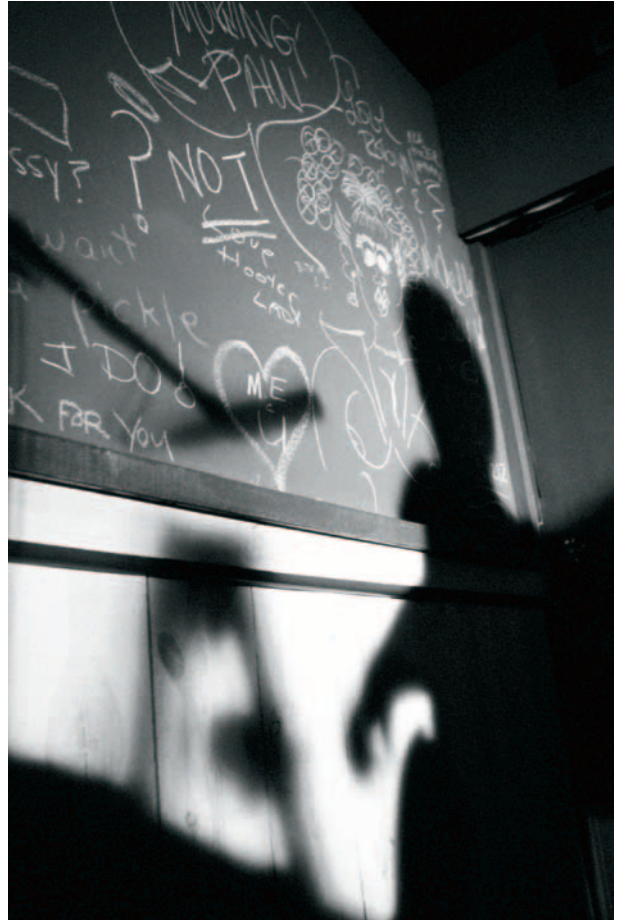
Lightweight membranes react incredibly fast and reveal myriads of sound details, for which a big membrane is simply too heavy. Therefore the bass will never become boomy, the instruments sound clear and dynamic. It is easy to understand, what people sing or say. It is a more natural experience. Better sound and speed are not only a benefit for a certain kind of music, but any kind of music or sound track.

better dispersion of the sound

A smaller loudspeaker membrane has by nature a better sound dispersion than a big membrane. Therefore you do not need to sit right in front of the speakers to enjoy the sound. You will have good sound all around the room.

easy to integrate

The loudspeakers are made to function in the acoustics of the room and even use the acoustic to their own benefit and can be placed close to the walls of the room. The co-operation between loudspeaker and amplifier is important to obtain good sound. Therefore a System Audio is a so-called "easy load" to the amplifier of the system. In practice, this means that the loudspeakers can be used with any quality system.



SA2K - the best compact loudspeaker we have built

System Audio SA2K is a breakthrough for compact loudspeakers. It breaks with the traditions and sets new standards for sound quality. You cannot compare it with other compact loudspeakers because they have nothing in common, apart from the size.

System Audio SA2K are for people with a burning interest in music, and who want to hear every detail and nuance in the music and at the same time want a compact loudspeaker.



are you dreaming about big loudspeakers or big sound? SA2K fills your living room with sound – not with loudspeakers

SA K SERIES



a completely new way to build a loudspeaker cabinet

SA2K is the first loudspeaker in the world that has been built according to a new patented principle. Here the sides of the cabinets can be made curved, which increases the mechanical stability. The two sides, the rear and the front have been made from one piece of wood.

maybe the world's most expensive 13-cm woofer

System Audio W2K is the specially developed woofer that enables SA2K to deliver the unique sound quality from a cabinet volume of only 8 litres. It has an extremely powerful magnet motor and the membrane has a travel of 22 mm. This makes W2K able to move 5-6 times as much air, as a conventional woofer of the same size. The membrane has ten through-going slits with damping material that works like "traps" for undesired vibrations. The membrane is made from wood fibres.

world class tweeter

The tweeter is a handcrafted piece of fine mechanics with incredible sound precision and durability. The fine details of the music are conjured up through five treatments of the membranes. Tiny blocks of felt that damp the tweeter's own small cabinet and a special design of the geometry of the membrane.

seen from above, you see the special shape of the cabinet



only 34.5 cm tall

technical description

- Cabinet built according to patented principle
- Drive units with new technology
- 2-way design
- Optional bi-wiring/bi-amping
- Accessories: SA2K loudspeaker stands

technical specifications

Power handling: 200 Watt
Impedance: 4 Ohm (easy load)
Frequency response (+/- 1.5 dB): 40-30.000 Hz
Sensitivity (1W, 1m): 87 dB
Crossover frequency: 3000 Hz (24 dB/oct. Linkwitz/Riley)
Dimensions (WxHxD) cm: 19.5x34.5x30
Woofer: System Audio W2K
Tweeter: System Audio TK
Finish: Maple (real wood). Other finishes available on order



*the rear is only
10.5 cm wide*



*FS2K
- speaker stand*

*a world class compact
loudspeaker that
sounds much bigger
than it looks*



70AV - make your own quality home theatre

You can have better sound at home than you have ever heard at the theatre.

System Audio 70AV is a high-quality centre channel speaker that matches the sound from the 70 series loudspeakers. Use it in a home theatre system where you have spent a lot of care on the quality and enjoy the fine nuances and the powerful reproduction. 70AV can be placed over and under your TV, or be mounted on the wall with the WB1 brackets or hang down from the ceiling with the CB1 brackets.

technical description

- Extremely fast drive units with lightweight membranes
- Mechanically stable cabinet construction
- Efficient magnetic shielding
- 2-way design
- Optional bi-wiring and bi-amping

technical specifications

Power handling: 125 Watt
 Impedance: 4 Ohm (easy load)
 Frequency response (+/- 1.5 dB): 40-25.000 Hz
 Sensitivity (1W, 1m): 89dB
 Crossover frequency: 3000 Hz (24 dB/oct. Linkwitz/Riley)
 Dimensions (WxHxD) cm: 55x15x24.3
 Woofers: 2 x System Audio BIG 1400AV
 Tweeter: System Audio T1908AV
 Finish: Maple, Cherry or Black Ash (real wood)



why not make the centre channel speaker a beautiful piece of furniture when it is placed where everybody looks?

the dream about a home theatre

A complete system built up by System Audio 70 series loudspeakers must be the dream of many, who love excellent sound for music and movies. The loudspeakers are discrete but powerful, and are beautiful furniture made to last for many years.



1270 - great sound in a beautiful piece of furniture

System Audio 1270 is a tasteful floor-standing loudspeaker in real wood. Use it for all kinds of music or let it be part of your home theatre system.

1270 is a good example of technological art because it is both simple and sophisticated at the same time. A product of modern knowledge and real craftsmanship. The cabinets are made in pairs so that each individual set has identical grains. The finish is as beautiful as the finest furniture. 1270 can be used with all quality systems on the market and is easy to place in the living room with an optimal result.

technical description

- The cabinet is divided into four separate chambers. At the bottom there is a sand chamber and in the middle a vibration free chamber for the crossover network. The two 14 cm woofers are mounted each in their own chamber with individual bass reflex tuning
- Extremely fast drive units with lightweight membranes
- 2-way d'Appolito design
- Mechanically stable cabinet construction
- The front grill of the loudspeaker can be mounted at the rear of the cabinet
- Possibility of accommodating 3 or 4 spikes or rubber feet
- Optional bi-wiring or bi-amping

technical specifications

Power handling: 170 Watt
Impedance: 4 Ohm (easy load)
Frequency response (+/- 1.5 dB): 40-22.000 Hz
Sensitivity (1W, 1m): 89 dB
Crossover frequency: 3500 Hz (24 dB/oct. Linkwitz/Riley)
Dimensions (WxHxD) cm: 15x104x26.6
Woofers: 2 x System Audio BIG 1400
Tweeter: System Audio T70
Finish: Maple, Cherry or Black Ash (real wood)
Delivered with spikes and rubber feet



1270 can be used in any quality system

SA1250 - discrete and powerful

With a width corresponding to the size of a CD (13 cm), SA1250 is really a slim loudspeaker that stands out in a crowd. It is easy to place in any living room and can be used for music and home theatre systems of high quality.

SA1250 is big sound from a compact loudspeaker. It is suited for everything from classical music to heavy rock, because the drive units are able to reproduce the music with both fine details and rough energy. Full magnetic shielding makes it suited for a home theatre system as the shielding allows the loudspeaker to be placed close to a TV.

technical description

- Extremely fast drive units with lightweight membranes
- Sand chamber at the bottom of the cabinet
- Magnetic shielding
- 2½-way d'Appolito design
- Mechanically stable cabinet construction
- The front grill of the loudspeaker can be mounted at the rear of the cabinet
- Optional bi-wiring or bi-amping

technical specifications

Power handling: 175 Watt
 Impedance: 4 Ohm (easy load)
 Frequency response (+/- 3 dB): 40-22.000 Hz
 Sensitivity (1W, 1m): 90 dB
 Crossover frequencies: outer woofers 500 Hz (24 dB/oct. Linkwitz/Riley),
 Inner woofers/tweeter 3000 Hz (24 dB/oct. Linkwitz/Riley)
 Dimensions (WxHxD) cm: 13x105x28.1
 Woofers: 4 x System Audio W1104AV
 Tweeter: System Audio T2504AV
 Finish: Beech, Cherry or Black Ash
 Delivered with rubber feet



simple in pure style, but also powerful and dynamic

SA1230 - expect the unexpected

System Audio SA1230 has the ability to surprise. You look at a compact loudspeaker that is only 13cm wide (the same width as a CD), but you hear a big and clean sound, with lots of dynamics. SA1230 can be used for both music and home theatre system.

SA1230 is easier to place in the living room than any other quality loudspeaker. The simple design and the slim shape makes it fit in anywhere. And the magnetic shielding allows the loudspeaker to stand close to a TV. One is easily mistaken by its compact size, but SA1230 is a surprisingly powerful and precise loudspeaker, which can be used for all kinds of music and home theatre systems.

technical description

- Extremely fast drive units with lightweight membranes
- Sand chamber at the bottom of the cabinet
- Magnetic shielding
- 2-way d'Appolito design
- Mechanically stable cabinet construction
- The front grill of the loudspeaker can be mounted at the rear of the cabinet
- Optional bi-wiring or bi-amping

technical specifications

Power handling: 130 Watt
Impedance: 4 Ohm (easy load)
Frequency response (+/- 3 dB): 40-22.000 Hz
Sensitivity (1W, 1m): 89 dB
Crossover frequency: 3000 Hz (24 dB/oct. Linkwitz/Riley)
Dimensions (WxHxD) cm: 13x95x22.1
Woofers: 2 x System Audio W1108AV
Tweeter: System Audio T2504AV
Finish: Beech, Cherry or Black Ash
Delivered with rubber feet



big sound from an unusual and slim loudspeaker



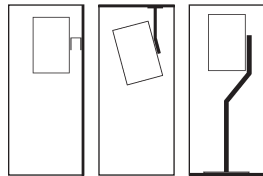
SA210 - compact and versatile

SA210 is a unique and versatile loudspeaker with a surprisingly big sound. It can be placed on the wall, hang down from the ceiling or stand on the floor. Your choice of accessories decides where it should be placed. Also available as centre channel speaker under the name of SA210AV.

SA210 is a noble representative of System Audio's technology because it shows that it is possible to obtain big sound from a compact loudspeaker. It is suited for all kinds of music and home theatre systems and has a high quality performance. Its magnetic shielding allows the SA210 to be placed close to a TV.

placement

- on the wall with the WB1 bracket
- from the ceiling with the CB1 bracket
- on the floor on the FS1 standers



applications of SA210

- for all kinds of music
- as front speaker in a home theatre system
- as centre channel speaker in a home theatre system (under the name of SA210AV)
- as a rear speaker in home theatre system

technical description

- Extremely fast drive units with lightweight membranes
- Magnetic shielding
- 2-way d'Appolito design
- Mechanically stable cabinet construction

technical specifications

Power handling: 125 Watt
 Impedance: 4 Ohm (easy load)
 Frequency response (+/- 3 dB): 45-22.000 Hz
 Sensitivity (1W, 1m): 89 dB
 Crossover frequency: 3000 Hz (24 dB/oct. Linkwitz/Riley)
 Dimensions (WxHxD) cm: 13x37x25.6
 Woofers: 2 x System Audio W1108AV
 Tweeter: System Audio T2504AV
 Finish: Beech, Cherry, Grey or Black Ash



a really compact loudspeaker with a surprisingly big sound



the centre channel speaker SA210AV is identical to SA210, but intended for lying over or under a TV or hanging on the wall

SA200 SERIES



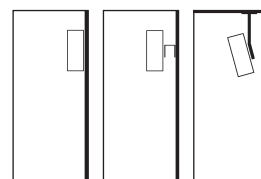
SA208 - hang it on the wall with just one screw!

SA208 gives new possibilities of good sound. Place it on the wall with just one screw or let it hang down from the ceiling. It can hardly be easier.

Traditional loudspeakers often take up too much room when you want good sound in a small living room. SA208 can be placed completely even on the wall only with one single screw and makes it possible to arrange a home theatre system with five loudspeakers hanging on the wall or hanging down from the ceiling with the CB1. Also available as centre channel speaker under the name of SA208AV.

placement

- on the wall with one screw
- on the wall with the WB1 bracket
- from the ceiling with the CB1 bracket



application of SA208

- for all kinds of music
- as front speaker in a home theatre system
- as centre channel speaker in a home theatre system (under the name of SA208AV)
- as rear speaker in a home theatre system

technical description

- Extremely fast drive units with lightweight membranes
- Magnetically shielded
- 2-way design
- Mechanically stable cabinet construction

technical specifications

Power handling: 90 Watt
Impedance: 4 Ohm (easy load)
Frequency response (+/- 3 dB): 50-22.000 Hz
Sensitivity (1W, 1m): 89 dB
Crossover frequency: 3000 Hz (24 dB/oct. Linkwitz/Riley)
Dimensions (WxHxD) cm: 33.2x27x11.2
Woofer: System Audio W1404AV
Tweeter: System Audio T2504AV
Finish: Beech, Cherry, Grey or Black Ash

SA208 is a way of living with good sound with loudspeakers that do not take up much room

SA208 is magnetically shielded so that it can be placed near a TV. It is also available as centre channel speaker under the name of SA208AV

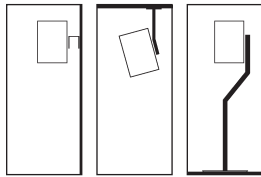
SA205 - big sound from a compact loudspeaker

SA205 is a surprisingly compact loudspeaker that provides real System Audio sound. It can be placed almost everywhere and can be used in all quality systems for both music and home theatre. Does not need a subwoofer.

With SA205 you fill the room with sound, not with loudspeakers. It is far more powerful than the size indicates and is magnetically shielded so that it can be placed close to a TV.

placement

- on the wall with the fittings WB1
- from the ceiling with the fittings CB1
- on the floor on the stander FS1



application of SA205

- for all kinds of music
- as front speaker in a home theatre system
- as rear speaker in a home theatre system

technical description

- Extremely fast drive units with lightweight membranes
- Magnetically shielded
- 2-way design
- Mechanically stable cabinet construction

technical specifications

Power handling: 90 Watt

Impedance: 4 Ohm (easy load)

Frequency response (+/- 3 dB): 50-22.000 Hz

Sensitivity (1W, 1m): 89 dB

Crossover frequency: 3000 Hz (24 dB/oct. Linkwitz/Riley)



it can almost stand in the palm of a hand, the small SA205. The sound can fill a big living room

Dimensions (WxHxD) cm: 15x28x21.1

Woofer: System Audio W1404AV

Tweeter: System Audio T2504AV

Finish: Beech, Cherry or Black Ash

accessories

A compact loudspeaker can be freely placed everywhere. System Audio has made it easy to make use of this freedom by having prepared all compact loudspeakers for application of wall brackets, ceiling brackets or floor stander.

FS1

Floor stander in metal finish. The loudspeaker cable can be led through the stand. Height: 90 cm. Adjustable feet and spikes. Delivered in pairs.

CB1

Ceiling bracket in metal finish. The brackets angle the loudspeakers 15 degrees downwards. Length: 30 cm. The loudspeaker cable can be led through the bracket. Delivered in pairs.

WB1

Wall bracket in metal finish. The bracket makes it possible to turn the loudspeaker. Delivered in pairs.

SPK1

Eight pieces of 8 mm spikes for floor standing loudspeakers.



the shown accessories are designed for application with the loudspeakers in this catalogue

SubElectro 50

- a completely different active subwoofer



the world is full of ugly and boomy active subwoofers. SubElectro 50 stands out in a crowd by offering a precise bass reproduction from a beautiful piece of furniture

System Audio SubElectro 50 breaks with the traditions about active subwoofers. For the first time you will experience the importance of speed that sees to that the bass is never boomy, but sounds deep and precise. Can be applied for both home theatre systems and music.

SubElectro 50 is an incredible versatile active subwoofer. It is solely constructed to reproduce deep frequencies with precision. That is why it can be used in a home theatre system, where it will add energy and drama to the movie experience. Rather unusual for an active subwoofer, it can also be used in a HiFi system, where it provides a deeper and more precise bass than a traditional speaker can offer, even if it is much bigger. All you need is a "pre out" or "subwoofer" output on your amplifier. Mono or stereo, it makes no difference for a SubElectro 50.

faster is better

Everybody knows the problem of a boomy bass from active subwoofers. The sound becomes imprecise and it is difficult to distinguish the different sounds from each other. The reason is that the drive units are too heavy and work too slowly. They are not able to start and stop as quickly as the signal demands. Vital sound details disappear and even different instruments sound alike. That is not the case with System Audio SubElectro 50 because it is built quite differently than a conventional active subwoofer.



cabinet without vibrations

A precise bass reproduction requires a mechanically stable cabinet. The cabinet is the foundation of the loudspeaker and vibrations of just some hundredths of a millimetre will colour the sound. At this point the cabinet for SubElectro 50 is designed quite differently, but also very simply. Please, notice that the woofers are mounted in each side of the cabinet. Therefore they balance out each other's vibrations, because the movements from the woofers in one side will always meet an opposite directed power from the woofer on the other side. Simply because they are mounted each in their own direction. This construction makes the cabinet absolutely vibration free. You can even place a glass of water on top of a SubElectro 50 when it plays so loud that the house is shaking. You will not see one ripple at the surface of the water.

technical specifications

Built-in power amp: 100 Watt (max.)
Frequency range: 30-160 Hz
Variable crossover frequency: 40-160 Hz
Crossover slope: 24 dB per oct.
Max. SPL: 109 dB
Input voltages: 110 or 230 Volt (CE approved)
Power functions: On, Auto, Off
Phase: 0 or 180 degrees
Input: Line in (mono or stereo)
Dimensions (WxHxD) cm: 56.2x45,5x19
Finish: Beech, Cherry, Black Ash



what do technical specifications tell?

power handling (Watt)

The rating of Watt tells how much power the loudspeaker can take. It does not tell how powerful the amplifier should be, or how loud the speaker can play or how good it sounds.

impedance (Ohm)

Impedance means A.C resistance and states the load, which the amplifier of the system "feels", when the loudspeaker is connected. Normally the impedance should lie between 4 and 16 Ohm. System Audio loudspeakers are specified with a statement that the loudspeakers are an "easy load", which indicates that there are no big variations in the impedance of the loudspeaker.

frequency response (Hz)

The loudspeaker's coverage of the audible frequency range from the deep bass to the high fine tones in the tweeter. Rated with a +/- tolerance in dB, to show how precise the frequency response is.

sensitivity (dB)

Rating of how loud the loudspeaker plays at a distance of 1 metre, when the input signal is 1 Watt. Please note, that each time the signal power is doubled, the sound pressure of the speaker is increased by 3 dB.

crossover frequency (Hz)

States at which frequency a given drive unit lets another drive unit take over the reproduction of the signal. dB/oct. states how powerfully the signal of the drive units is damped.

dimensions (cm)

The size of the cabinet in width x height x depth inclusive of front grill but without plinth.

woofer

Tells which type(s) of woofer(s) is/are used in the loudspeaker.

tweeter

Tells which type of tweeter is used in the loudspeaker.

finish

The wood colour of the loudspeaker. "Real wood" means that real wood veneer is used and that the loudspeaker cabinets are made in pairs.

bi-wiring (optional upgrading)

Separate signal transfer to e.g. woofer and tweeter implying that two cables are led from the amplifier to each loudspeaker, which improves the sound quality. Bi-wiring is an optional upgrading as one single cabled can also be drawn as usual. Bi-wiring opens up the possibility of bi-amping.

bi-amping (optional upgrading)

If you already use bi-wiring, it is possible to improve the sound quality further by connecting an extra power amplifier to the system. The power amplifier can thus deliver signals to e.g. the woofers and the existing amplifier can deliver signals to e.g. the tweeters.

sand chamber

The separate sand chamber at the bottom of the floor-standing System Audio loudspeakers is intended for dry sand. The increased weight damps vibrations and makes the sound even more precise.

d'Appolito

May also be called MTM (midrange-tweeter-midrange) and is a special design where the tweeter is mounted between two woofers or midrange drivers. The design controls the radiation of the sound from the loudspeaker, minimises sound reflections and makes the loudspeaker less sensitive to the acoustics of the room.

magnetic shielding

Prevents the magnetic radiation from discolouring the picture on the TV or computer screen and allows the loudspeaker to be placed close to the screen.

spikes

Sharp feet for the floor-standing speakers. The spikes are mounted under the loudspeaker and make it possible for it to stand more firmly, which improves the quality of the sound. Especially efficient on wooden floors or floors with carpets. Rubber feet are recommended if it is not possible to use spikes or if the surface of the floor is too hard.

crossover network

The electrical circuit inside the loudspeaker, which among other things divides the sound signal into e.g. bass and treble and lets the signal pass out to the respective drive units.

News from System Audio, spring 2001

- SubElectro 50 – active subwoofer, smallest model in the SubElectro series
- SA220 – compact speaker, the biggest model in the SA200 series

**SYSTEM
AUDIO**[®]

System Audio A/S
Skolegade 12R
DK-2500 Valby
Copenhagen
Denmark
Tel : (+45) 36 45 80 80
Fax : (+45) 36 45 28 28
Internet : www.system-audio.com

Dealer: