



SA ranger is more than a top-class speaker. It is a beautiful piece of furniture



welcome home

Its message is difficult to miss. SA ranger is shaped like a discreet exclamation mark as a reminder of just how pleasurable it is to come home to top-class entertainment.

by Ole Witthoft, executive designer

SA ranger is for people who want to be inspired by top-class entertainment in their homes. When you close your door, shutting out the hectic outside world, SA ranger is open to any kind of musical experience: rock, pop, jazz, classical – or whatever else you fancy. You can play soft background music or blast it out at high volume for hours. You can move around or sit down. Everywhere you go, you will experience uniform and faithfully reproduced sound quality. SA ranger can also be integrated into your home cinema, and will convince you that it is worth spending time spoiling yourself with large-scale experiences.

genuine product development

SA ranger is a genuine innovation. It doesn't just disguise old technology in new packaging, as you will find elsewhere in the speaker industry. SA is not the biggest speaker brand, so we have to do a better job to be noticed. And we take our job seriously. All the parts in an SA ranger have been specially developed for the speaker, so it is able to set new standards in its class.

It isn't called 'ranger' for nothing. Its job is to introduce you to experiences you haven't enjoyed before.



SA ranger attracts attention by looking like a discreet exclamation mark



world class know-how behind the product:

global development team behind the technologies

what do SA speakers have in common with most film productions?

what does the majority of your music collection have in common with SA?

what does SA have in common with the world's most innovative and expensive speakers?

what does SA have in common with the world's most expensive cables, which are used in surgery on the human body?

does SA have anything in common with the acousticians who have designed the world's best concert halls?

We have quite a lot in common.

The same companies that develop technologies and sound for the purposes listed above also helped develop SA.

It is completely unique for a speaker brand to be able to bring together such expertise in every single product.

Some of the technology in SA speakers has been developed by specialist companies from all over the world, each a leader in their field. The development method is both brave and visionary, and it creates better products for our customers.

In the early 20th century, the rise of industrialisation generated products that could be acquired by everybody, and not just by the wealthy. Companies used to consider it a matter of honour to produce everything themselves, but today, this attitude seems old-fashioned. The industrial society has been succeeded by the knowledge society, and technological development is now so rapid that there is no longer any point in producing everything under one roof. SA adopted this new approach a long time ago.

best developers in the world

We want to enthrall people with better sound, and this is the inspiration behind each SA speaker. There are no other speakers like them. All our speakers are assembled at our own factory in Denmark and are personally approved by members of staff, who put their signature on every single product. But the advanced acoustic, mechanical and electrical components are developed and produced by specialist companies who are world leaders based in the USA, Europe or the Far East. SA is possibly the only speaker brand that has embraced globalisation in such an ambitious way. But who is behind the technology in SA speakers? Ultimately, SA is. No speakers are like ours. The developers behind all kinds of professional studio speakers, which have played a vital role in creating the majority of your music collection, have a share in the sound of SA. The companies behind the sound on most of the world's film productions also do development work for SA. The people behind some of the world's most advanced speakers are also involved in projects for us. Even the cables inside the speakers – and the terminals on the back – are produced by companies who don't do anything else. One of the speaker industry's oldest consultants, which was founded in 1926, and which deserves a great deal of the credit for the fact that speakers exist at all, is involved in development projects for SA. System Audio A/S is not an inward-looking company that has an out-of-date picture of the world around us. We are constantly on the lookout for new ideas that will provide our customers with better sound experiences.

the best speakers for your home

Making the best possible speakers for the home involves a range of specialised tasks that can't be carried out by a single company, working alone. Nevertheless, SA is one of the only speaker brands that dare to break with the old-fashioned principle that a factory should produce everything itself. We prefer to enthrall people with better sound.



choose between a finish in real cherry, maple or white satin enamel paint. Other paint finishes are available at an additional charge.

**use SA ranger
in your music system,
and...**

**...expand into a real home
cinema with these
speakers**



**recommended centre channel
speakers:**

- **SA exact** (available in cherry, maple and black or white enamel)
- **SA720AV** (available in cherry, maple and black ash)
- **SA710AV** (available in cherry, maple, black ash and white enamel)



recommended rear speakers:

- **SA exact** (available in cherry, maple and black or white enamel)
- **SA720** (available in cherry, maple and black ash)
- **SA710** (available in cherry, maple, black ash and white enamel)
- **SA talent** (available in black and white satin enamel)
- wall brackets, ceiling brackets and floor stands are available for SA720 and SA710



**recommended active
subwoofer:**

- **SE200** (available in cherry, maple, black ash and white enamel)

solutions for the home

A good-quality amplifier and at least 70 watts of power are all you need to get the best out of SA ranger. We've taken care of the rest.

The different SA speakers all match each other in sound quality, so you can put together a home cinema that meets your needs. Our centre channel speakers are designed to be suspended from the wall, and have the same depth as a flat-screen TV. We have rear speakers that can be placed on stands, suspended from ceiling brackets or attached directly to the wall. We even offer a variety of different finishes, so you can choose whether your speakers will be discreet or will stand out from your interior decor scheme.



the SA W1104XL woofer:



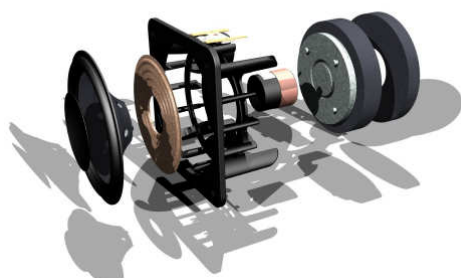
10.4 cm

almost unbelievable performance

The little woofer has to be heard to be believed. W1104XL is the first 10.4 cm woofer capable of producing a genuinely deep and full-bodied bass sound. It is a technological achievement that will significantly enhance your musical experience.

Small woofers have advantages over big ones, and SA passes a milestone with the W1104XL. The light membranes sound more natural, and their small diameter allows for superior distribution of the sound. Reproducing bass sound is all about the ability of the speaker to move air, and in this context, a small membrane has to work significantly harder to move the same air as a large membrane. The challenge is to increase the membrane's mobility – and W1104XL outperforms every other woofer of the same size.

- the membrane's mobility is 3–5 times greater than an ordinary woofer
- incredibly durable construction, both mechanical and electric
- the specially designed membrane weighs just 0.8 grams and is made of a paper-like material
- the chassis is cast in aluminium and designed to enable substantial airflow
- the heat is drained off by cooling ducts
- the voice coil is made of fibreglass
- a magnet system with built-in metal rings reduces distortion
- XL technology is only available in SA speakers



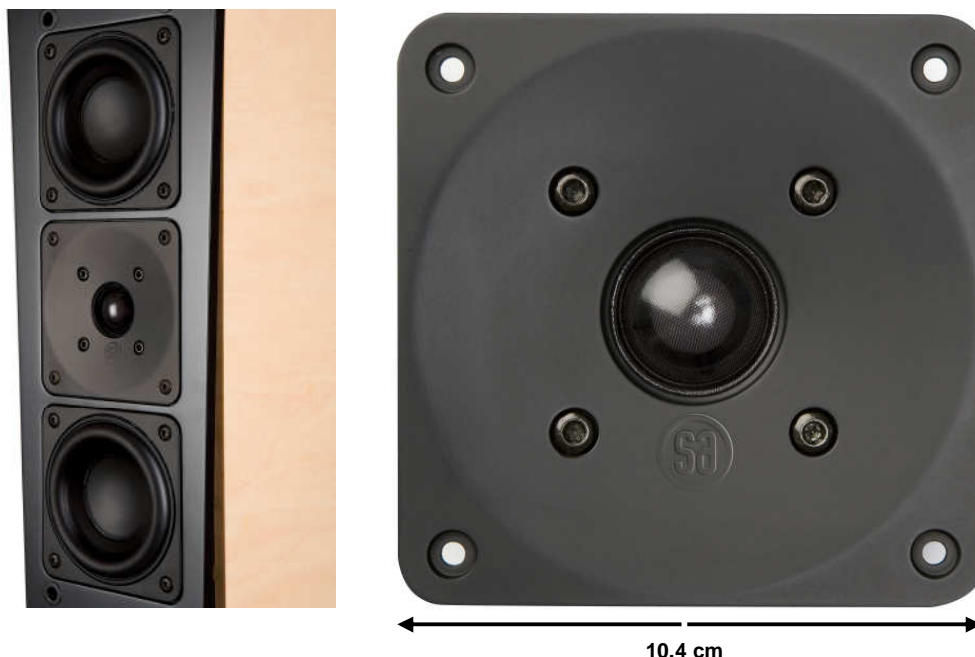
inside the solid aluminium chassis sits a powerful engine that gets big sound out of the little speaker

XL
TECHNOLOGY

XL technology means that the woofer has an extra-long stroke system (only available in SA speakers)



four small woofers with incredible mobility generate better sound than one big woofers



the SA T2506XS2 tweeter:

where the most delicate nuances of sound are produced

Acoustics, precision engineering and musicality converge in the T2506XS2 tweeter to provide a fantastically subtle reproduction of every detail of the sound. With a membrane weight of just 80 mg, the almost transparent membrane is possibly the lightest ever made.

- XS technology means that the waveguide around the tweeter controls the sound distribution, so that it is not reflected from the front plate and edges on the cabinet. The wave guide is an advanced acoustic solution that directs sound waves away from obstacles, simplifies the electronic circuitry in the tweeter and improves the sound quality.
- XS technology also ensures that the tweeter distributes sound over a greater area than traditional tweeters. Wherever you sit in the room, or even while moving around, you'll still experience uniform sound quality. Ordinary tweeters emit the highest tones as a narrow ray, meaning that you have to sit right in front of the speaker to get the full benefit of the experience.
- XS technology extends the area in which you can enjoy the best possible sound quality.
- a 12 mm front plate made of cast aluminium serves as the vibration-free base from which the tweeter transmits information that requires precise membrane movements – all the way down to 0,0005 mm.
- the unique textile membrane weighs only 80 mg – possibly the lightest ever made.
- separate built-in chamber behind the membrane.
- the T2506XS2 tweeter is magnetically shielded.
- XS technology is only available in SA speakers.



behind the cast aluminium front plate, the incredibly light membrane is slotted into its own chamber.

XS
TECHNOLOGY

XS technology allows you to experience more uniform sound quality, no matter where you are in the room.

construction of SA ranger



solid binding posts on the back of the speaker provide easy access to all types of cables and allow bi-wiring or bi-amping. The crossover network is mounted on the inside of the input plate.



the speaker's internal wiring utilises the American Nordost Spellbinder cable

bass/mid-range drivers: reproduce from 40 to 2200 Hz

tweeter: reproduces from 2200 to 35.000 Hz

the middle front plate has built-in ducts that prevent compression of the air behind the membranes

front plate made of 45 mm MDF fibreboard

bass drivers: reproduces from 40 to 900 Hz

solid cabinet divided up into separate chambers

42 pieces of wood veneer cover the sides of the speaker

5 litres separate chamber, designed for filling with dry sand

access the sand chamber by removing the base of the speaker





acoustics – invisible quality

Acoustics is one of the least visible sciences. But superb acoustics liberate music and provide extraordinarily good sound. Acoustic perfection is only one of our goals, and our development process starts far away from laboratories. Our speakers are designed to work in the homes of the people who choose to live with them. A number of the world's leading acoustic engineers helped develop SA ranger. Their contribution may be difficult to see, but you can't help hearing it.

sound for the home – not the lab

In an ordinary home, both the floor and the ceiling have even surfaces, almost completely devoid of breaks or variations, but the room's furniture will affect the acoustics. The floor and ceiling surfaces normally generate a large number of reflections, which make the sound appear unnatural, while the furniture in the room and along the walls generates far fewer reflections – so SA ranger distributes less sound in the direction of the floor and ceiling than you are used to from other speakers. The tight design also helps prevent reflections from the front plate, while the relatively deep cabinet prevents sound reflections from the inside of the cabinet escaping through the membranes of the drive units. All of this is clearly audible, because the reduced reflections and the excellent acoustics really do make you feel close to the artists.

right in the ear

SA ranger can be positioned anywhere you want – although it does always pay to experiment a bit to get the best possible sound. And when you sit in front of the speakers, the sound comes straight at you at ear height, as if you were sitting right in front of the musicians.

the mutual positioning of the speakers, their size, their tone area, distance to the floor and the shape of the cabinet are among the factors that influence the acoustics – and therefore the sound – of the speaker. Part of the acoustic design of SA ranger was done with the help of advanced computer simulations



SA ranger – technical specifications

power handling	300 watts
frequency range (+/- 1.5 dB)	45–35,000 Hz
impedance	4 ohm
sensitivity (1W, 1 m)	87 dB
crossover network	(24 dB/oct.) 900 / 2200 Hz
woofer	4 x W1104XL
tweeter	T2506XS2
magnetic shielded	yes
bi-wiring	yes
finish (real wood)	cherry or maple
finish (painted)	satin white – other colours
available on order	
cabinet dim. (WxHxD) cm	13 x 116 x 32
recommended amplifier	min. 70 watts
packaged	individually
packaging dim. (cm)	30 x 121 x 46.5
shipping weight	(per piece) 28 kilo

