stage accompany

That's How Music Should Sound !

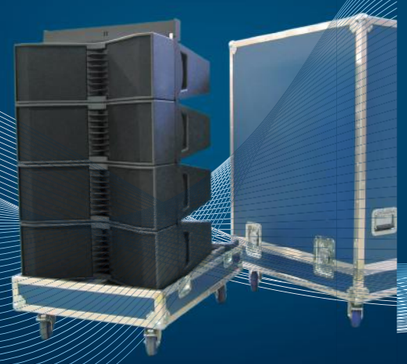
Stage Accompany stands for top quality

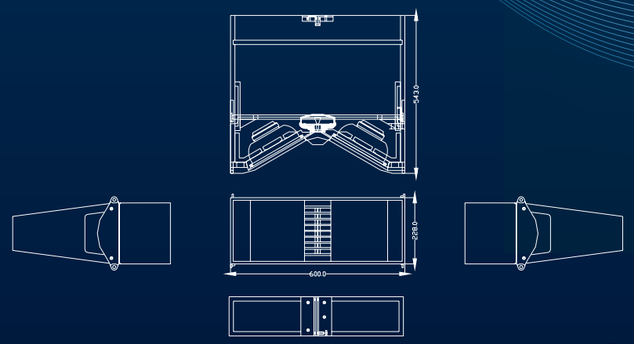
Design may work well on paper, but the actual quality of the product depends on the quality of the manufacturing process. SA holds to one of the tightest manufacturing standards in the industry. The result is that products of the same model have identical specifications. The often boasted professional audio phrase "a matched pair" does not apply to SA. All speakers of the same model are identical. All components are tested separately, and so are the final products. These quality tests are done both manually and by computer, and have a strict maximum tolerance of 1 dB! A sound check and a visual end inspection are part of the quality control process.

Technical specifications

Frequency response	70 Hz - 20 kHz (+/- 3dB)
Drivers	2 x SA0851N neodym LF driver 1 x SA8535 neodym MF/HF driver
Cross-over frequency	1200 Hz
Nominal impedance	LF 8 Ohms / HF 13 ohms
Sensitivity @ 1W/1m	LF 98 dB / HF 105 dB
Sensitivity nominal	LF 100 dB/ HF 105 dB
Max. RMS power	LF 400 W / HF 60W
Max. Peak power	LF 800 W / HF 1000W
SPL program/peak	LF 127/132 dB, HF 123/135 dB
Dispersion (H x V)	110° x 15°
Color	SA Black, other colors on request
Front	Birch plywood grille + acoustic transparent cloth
Connectors	4-pole Speakon or 3pole XLR (self-powered version)
Physical dimensions (h x w x d)	600 x 228/134 x 543 mm (23.6 x 9.0/5.3 x 21.4 in.)
Weight	24.8 kg (54.7 lb)

To protect the GL20 system, Stage Accompany developed a flightcase in which four GL20 cabinets simultaneously with the flying system may be stored.





SA Dealer

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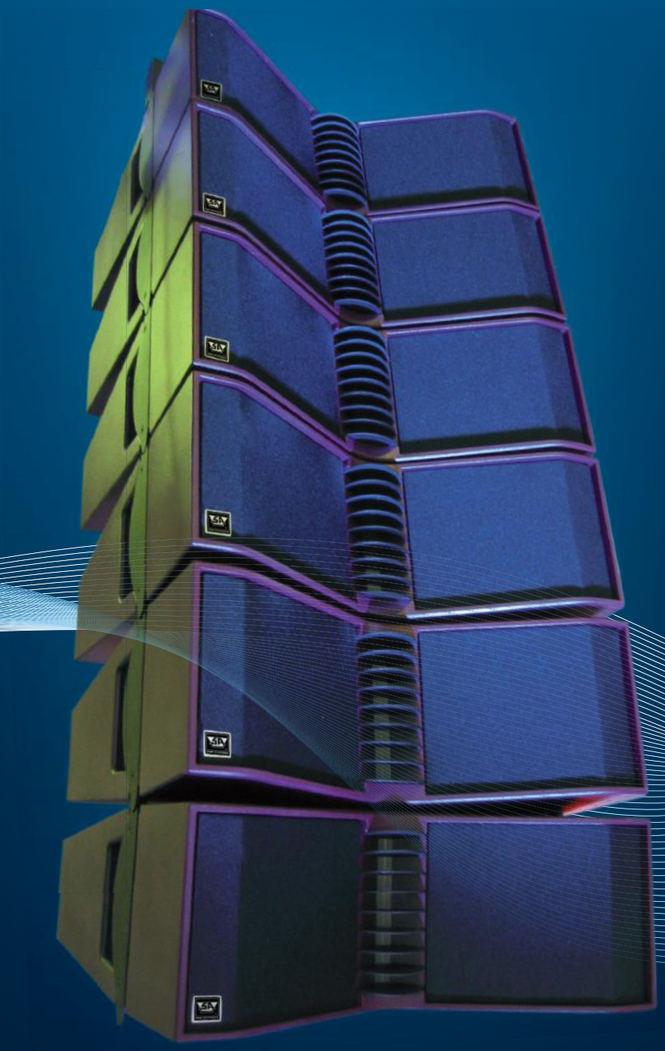
That's How Music Should Sound !

Genesis GL20

All-round compact ribbon line-array



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Stage Accompany presents:

the Genesis series

stage accompany

The (r)evolution in loudspeakers

- **Ribbon Compact Driver™ loaded**
- **Multi Color Option™**
- **Fully integrated three point rigging system**
- **Compact arrayable design**
- **High acoustic output**

The pro-audio market has always been searching for the ultimate in high volume sound reproduction.
The digital era introduced new opportunities and even higher demands are now made on sound systems.

The pro-audio market is increasingly divided into niches such as theater, rental companies, clubs, etc. Each area has its own specialist applications and requirements.

Line-arrays,although not new, seem to be the latest generation in sound reinforcement. A line-array can offer significant advantages in throw and control, when designed correctly

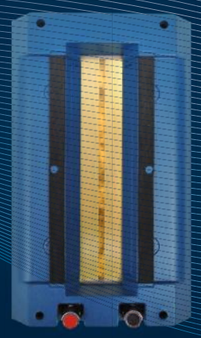
Compact line-arrays are the emerging solution of choice in theatres and fixed installations with short distances and wide areas to cover. With the GL20 compact line-array Stage Accompany takes a step ahead by bringing her line-array strength to the installed AV applications. The GL20 compact line-array has an operating frequency bandwidth from 70Hz to 20kHz in a cylindrical waveform that generates a polar pattern coverage of 110 degrees in the horizontal plane. The vertical waveform is controlled by a innovative cylindrical designed waveshaper to allow a curve up to a maximum of 15° for each cabinet.

In order to create the highest possible sound quality, SA only uses speaker drivers and crossover filters that are developed and produced by SA. This includes the revolutionary and patented Ribbon Compact Driver™, a SA exclusive. The SA Ribbon Compact Driver™ is a mid/high frequency transducer, which uses sound reproduction technology that is radically different from the traditional compression driver. It's the world's first and only driver permitting a truly pure sound reproduction. Distortion and "ear-fatigue", standard side effects of the traditional compression driver, do not occur with the SA Ribbon Compact Driver™. Instead, the SA Ribbon Compact Driver™ creates pure, distortion free sound, with excellent speech intelligibility, natural musical reproduction and full dynamics at any volume.

The high quality of the SA Ribbon Compact Driver™ is matched by all other components. For example the SA 8 inch long excursion neodymium driver with copper winding and kapton former material. Because of their excellent thermal design, the build-up of heat in the 2" voice coils is greatly reduced. This results in minimal power compression, higher output (3 dB more than conventional drivers) and less distortion. All SA designs aim for the best possible sound reproduction.

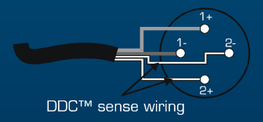
- The GL20 compact line-array is based on the revolutionary SA exclusive, best-sounding-ever and patended Ribbon Compact Driver loaded with a patent pending dispersion insert.

- SA uses Speakon connectors exclusively for all connections, to ensure reduced wear and airtight cabinets. This is an important - but often overlooked - detail, in view of the high pressure within the cabinet.



Dynamic Damping Control™

For absolute top quality sound reproduction, the GL20 is pre wired for Dynamic Dampnig Control. The DDC system is based on 2 wires (incorporated in the 4 pole Speakon connector and speaker cable) that return from the speakers to the amplifier. By means of these sense wires the amplifier measures the signal on the speaker and compensates for speaker, cable and connector resistance, this ensures maximum control over the speaker cone movement.



DDC™ sense wiring

Line Array Effect

The biggest advantage of a (well designed) line-array is the efficiency and relative simplicity of the sound system, in providing SPL and coverage control over a defined area. For a line-array (basically an array of line sources), a true cylindrical wave front is the (only) key to a good working line-array system and many attempts are being made to create this type of wave front with traditional compression drivers. The main criteria for getting a well designed array, is to get all drivers working together, instead of working against each other. Since each frequency has a different wave-length, the secret to summing is that the sources/speakers must be closely coupled, with a distance less than half a wavelength of the highest frequency they have to reproduce. For low frequencies where the size of the speaker is well within half of the wavelenght, this is no problem. The real challange is in the mid and high frequencies. A pro-ribbon driver (a "flat diaphragm tweeter") is, by nature, a line source. A multiple of point sources generating planar sound waves, resulting in a natural cylindrical wave front. It's obvious that this type of MF/HF driver would be the ideal building block for a line-array.

Perfection to the last detail

The Genesis cabinets have high rigidity and suffer little from resonances. Due to the sophisticated design 15 mm birch plywood can be used, resulting in a compact, lightweight cabinet. The special joint design provides a large glueing area. The special glued and nailed joints make the cabinet almost indestructible.

Other details:

- The grilles are of an ingenious design to avoid resonance.
- The Genesis loudspeakers are not affected by rain or splashes as the grille cloth is waterrepellent.