

SA 4525 BLUE BOX[®]

“The spectacular new concept for PA systems”



- **Super HiFi quality**
Unmatched clarity & reproduction of dynamics
- **Unequaled transient response**
Amazingly short attack and decay time
- **Superb frequency response**
Flat from 30 Hz - 32 kHz
- **High acoustic output**
120 dB continuous, 130 dB peak, (SPL, 1m)
- **High-tech electronics**
Built-in active 2-way system
- **Microprocessor control & protection**
Dedicated software controls all functions
- **Full remote control**
Through high-speed SA-net and PC
- **Extremely low distortion**
THD & IM less than 0.01 % at all levels

Although professional audio has a reputation of being a high-tech industry, surprisingly this does not apply for most of today's PA systems. Many of them still use basic designs from the early twenties, which results in limited sound quality. Furthermore, these sound systems are controlled manually and involve a lot of moving around to adjust controls, check amp limits etc. This considerably restricts the creative performance of the sound engineer.

To achieve a real break-through in these matters, Stage Accompany introduced a spectacular new concept: the **Blue Box** for superior sound quality and the **SA-net** for advanced remote control of audio equipment.

The perfect match

Designed around our revolutionary Compact Driver and superior low-frequency loudspeaker, the Blue Box offers the perfect match between superb acoustic performance and advanced high-tech electronics. Based on prime design philosophies as exceptional sound quality, ultimate flexibility and ease of operation, we have created a very compact full-range cabinet that's ideally suited for a multitude of applications. In disco's, the Blue Box offers excellent sound quality and projection. On stage, Blue Boxes form the ideal monitor system. In small and medium sized venues, matched stacks of 4 - 8 Blue Boxes make a very powerful HiFi PA. And, in large venues, Blue Boxes are really dynamite in massive flying sound systems.

High-tech electronics improve performance

Its built-in active 2-way system, the PMS-5000, consists of a Bessel cross-over, two power amplifiers and a microprocessor to operate all control functions. It also features many unique innovations like **DDC** (Dynamic Damping Control), **AEC** (Auto Energy Control) and DC servo control.

PC for user friendly remote control

Top of the bill is the sophisticated **PC Remote Control** facility, which offers users ultimate control of large quantities of Blue Boxes. All necessary information and total control from one source at any location! However, it should be emphasized that Blue Boxes can be controlled manually.

Dedicated software for easy operation

The powerful software incorporated in this unique facility allows for individual control or grouping. Presets of complicated settings for many different groups can be stored and instantly recalled for routine comparison or to create special configurations such as "Bessel" speaker link-up. Extensive sound effects can also be easily created. Functions that can be controlled and stored individually or group-wise via a PC include; low-frequency level, high-frequency level, overall level, power on/off, stand-by, phase reverse on/off, balanced or unbalanced inputs, system ground lift and SA-net ground. The PC screen can display the status for both individual units or groups, including; signal present, input overload as well as the status of all control functions mentioned above: for both low- and high-frequency amplifiers you can display; average power, peak power, DC on output, clipping, protection activated, overheating and output device temperature.

Custom network communication

Data communication between the PC and Blue Box systems is realised through a specially designed network, the "SA-net". This universal network uses ultra-high speed (375 kbps) serial data transmission and can be used at distances up to 500 metres. It is totally unsusceptible to unwanted external interferences and is much faster than MIDI. Every IBM® and IBM compatible computer can easily be prepared for use with the

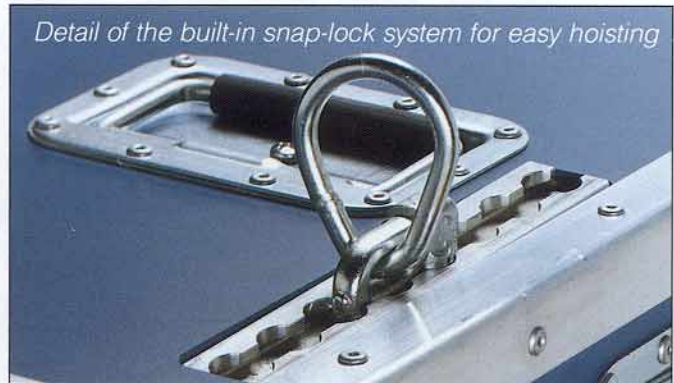


SA-net by simply inserting a single PC board. And, of course we supply our own SA PC, a sturdy "road-proof" AT-type computer installed in a custom designed flight-case.

Unlimited possibilities

This powerful new concept creates almost unlimited possibilities and offers total control and recall for large, complex sound systems. Up to 250 different units can be controlled by one PC.

Major disadvantages inherent in conventional flying sound systems like loss of output-power and loudspeaker damping due to long speaker cables are relegated to the stone-age. And, cable connections are radically simplified, reducing set-up times even further. The ingeniously constructed flight-case offers optimal protection and has a removable cover with castors for convenient transportation. The built-in snap-locks surpass effortlessly all required safety standards and facilitate easy hoisting. Preset snap-lock positions allow for suspension at specific angles.



Detail of the built-in snap-lock system for easy hoisting

Technical specifications SA 4525 Blue Box

Acoustical

Frequency response: 30 Hz - 30 kHz
 Max. output level (SPL, 1m): 120 dB continuous, 130 dB peak
 Noise output: < 5 dBa PWL
 Nominal dispersion: 70° H x 40° V

Electrical

Input: 1.4 V in 20 kΩ
 Max. input level: + 20 dBV (ref. 0 dB = 0.775 V)
 Cross-over: 1 kHz, 24 dB/oct., Bessel
 Max. output power: Low freq. 250 W RMS, 380 W peak
 High freq. 350 W RMS, 590 W peak
 THD (any output level): < 0.01 % (20 Hz - 20 kHz)
 IMD: < 0.01 %
 Slew rate: 60 V/μs
 Damping (with DDC): > 10000:1, 1kHz in 8 Ω
 Power consumption: Stand-by: 75 W, Max. output: 600 W

Physical

Dimensions (h x w x d, mm): 470 x 730 x 730 without case
 510 x 780 x 920 in case + cover
 Weight: 84 kg without case
 110 kg in case + cover

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Stage Accompany
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