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**peecker sound®**  
beecker sound



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# since 1977



**Peecker Sound** was established in **1977** as the leading brand of the then up-and-coming and ambitious **Sound Corporation** (founded some years earlier in **1968**) to serve what is currently called “*fixed installations and club sound*”, that is to say designing, producing and distributing professional sound reinforcement systems for public entertainment venues such as dance clubs, theatres, music pubs, lounge bars, cinemas and any other establishment delivering reproduced music.

As is widely known, the top management of the Sound Corporation group now has direct control over well-established brands such as **X-Treme** – created in **2001** as the label for products designed specifically for “*touring & concert sound*”, i.e. professional sound systems for concerts, music events and other festivals with live music – and **XTE** – primarily designed for “*commercial sound*” (also known as “*public address*” in Italy), namely the production of sound systems to deliver music, announcements, emergency and/or evacuation messages in airports, shopping centres, places of worship, hospitals, hotels, leisure facilities, cultural venues and so on.

In **2009**, Peecker Sound undertook a major strategic-operational reorganization of the business unit which resulted in the creation of *three distinct divisions* based on the following final application of the manufactured products: *Sound Reinforcement* – the company’s core business since its establishment –, *Controlled Radiation* – designed for patented products for controlling sound emissions – and *Acoustic Research* – a specialist area for measurement equipment and special sound projects.

With major sound reinforcement projects, large-scale events and music festivals to its name, a distribution network covering over **30 countries** and more than **2,000** installations all around the world, Peecker Sound is considered today one of the leading companies in the international professional audio industry.

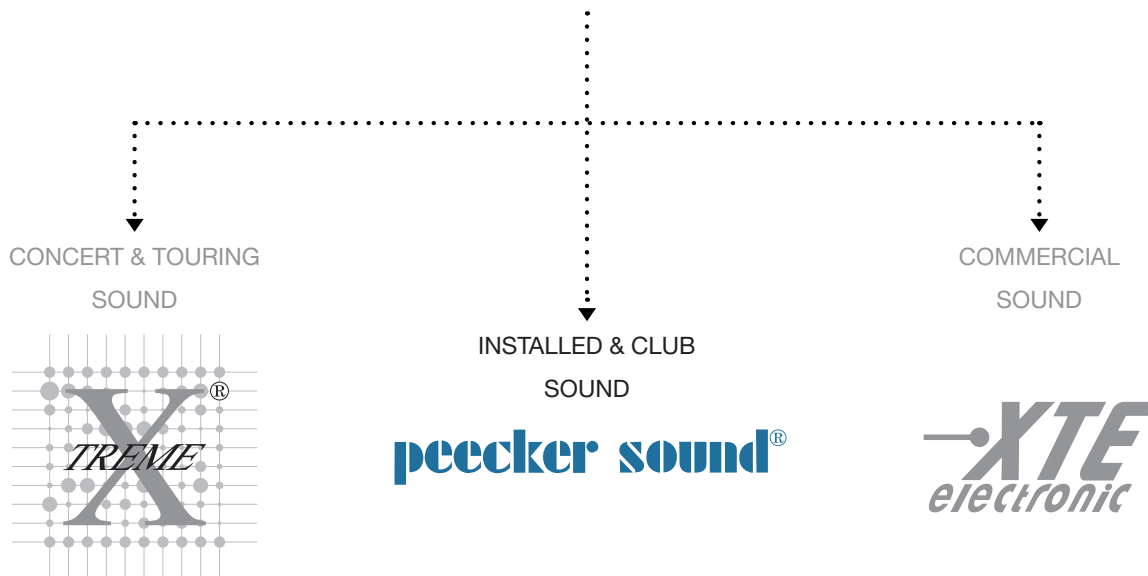
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**Peecker Sound** was created in **1977** as natural evolution of the future Sound Corporation group in response to the booming market of professional audio systems for large indoor dancing venues. It rapidly became the iconic brand name of the legendary high-power sound amplification systems, popular since the seventies, installed in discos and night clubs that came to be regarded as genuine “cathedrals” of Italian entertainment – now of worldwide fame. They include the likes of *Picchio Rosso* in Formigine, *Kiwi* in Piumazzo, *Caravel* in Mantua, *Jumbo* in Fidenza, *Altro Mondo* in Alba and *Baia Imperiale* in Rimini, to name just a few.

Today, Peecker Sound list of references boasts **over 2,000 entertainment and public performance venues**, the most prestigious of which are *Girardilla* (Cuba), *Macumba* (France), *Art Club Vavilon* (Russia), *Patipa* (Ukraine), *Vanilla Club* (Switzerland), *Milano Music Hall* (Milan), *Bambù* (Mantua), *Theatrò* (Viterbo) and many more.

The new research laboratory (covering an area of over 160 m<sup>2</sup>), the engineers and technical designers, the joinery, which manufactures the full range of cabinets, the Electro-acoustic Department with its unequalled know-how in the audio industry, and the Electronics Department, capable of producing from simple printed circuit boards to state-of-the-art digital processors, are just some of the Peecker Sound assets whose concerted effort has ensured that today, after over 30 years of successes, the company’s goal remains what it was at the beginning, namely “**the full satisfaction of the end customer**”.

# How the Market was won...

## NON STOP MUSIC



**peecker sound**

## OVER THE TOP



Esiste la musica del top facile con un impianto di sistema  
alla portata di tutti. Leader nel settore audio per diavole,  
PEECKER SOUND mette a tua disposizione la propria  
esperienza in fatto di professionalità e tecnologia  
del top impianti. E in più ti offre l'unicità tecnologica del  
sistema componibile PEACER 322.020, amplificato, senza  
filare, conosciuta ovunque gli intenditori più esigenti per un  
suono "over the top".

**peecker sound**

41043 Persepolis (MO) - Via Garibaldi, 109 - Tel. 099/366033-336797





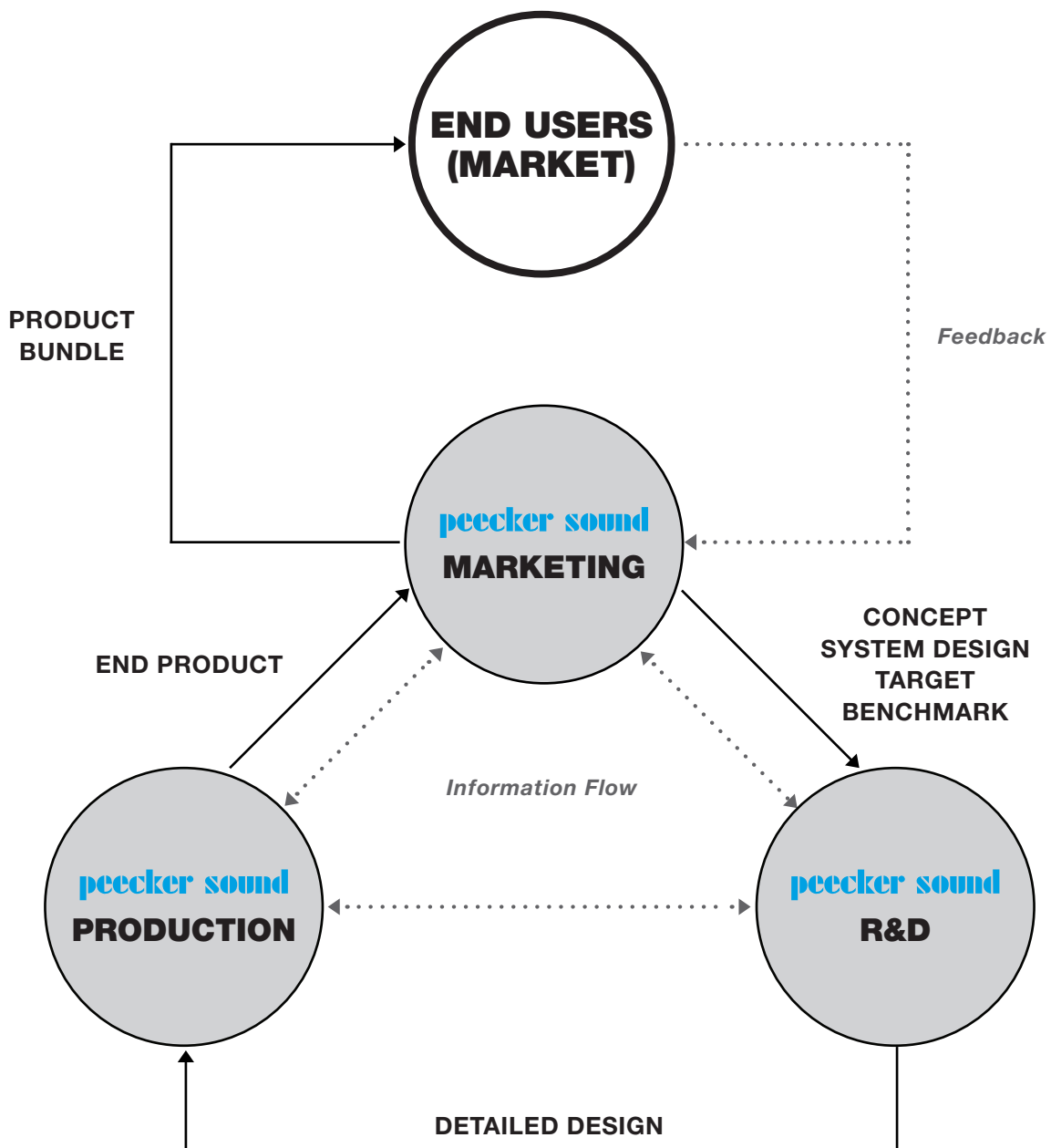
Today the **Peecker Sound** figures are as follows:

- **over 2,000 sound reinforcement installations worldwide;**
- **over 6,000 loudspeaker systems produced annually (figures for 2009);**
- **over 2,000 amplifiers/processors produced annually (figures for 2009);**
- **a 2,000 m2 production plant;**
- **a 160 m2 R&D laboratory with 5 researchers;**
- **3 international patents;**
- **a defectiveness rate of speakers below 2%;**
- **a defectiveness rate of control electronics below 5%;**
- **customer support within 24 hours throughout Italy and within 72 hours in Europe;**
- **an annual Promotion & Marketing budget of 50,000 Euro.**

# Value Creation

Product definition is a difficult and risky yet strategically key activity. It is the main process underpinning **value creation** thanks to the participation and involvement of all the “value-adding” Peecker Sound company departments.

The chart below illustrates the functional process and the flow of information between the various divisions of the Peecker Sound business unit – the long-standing subsidiary of the Sound Corporation group – and the market.





# Peecker Sound TQM

As a management philosophy, **Total Quality Management (TQM)** puts forward a set of values that have to become an integral part of the existing organizational culture in order to be efficient. It is then up to the individual company to apply its own methods to translate the guidelines into operating procedures. In this process Peecker Sound achieves its real competitive advantage towards its competitors.



The 5 Peecker Sound **TQM** operating steps are:

- 1. Quality Control of incoming semi-manufactured goods;**
- 2. Laboratory tests on prototypes and semi-manufactured products;**
- 3. FMEA (Failure Mode and Effect Analysis);**
- 4. Rapid Testing;**
- 5. Final Quality Control.**

Once the products have passed the testing stage, they are inspected by the technical staff appointed to deal with *Quality Control*. Based on specifications set out in a specially-designed document, they check the following aspects: the quality of surface finishing, the rigidity of the protection grille, the coupling of the *SpeakOn* connectors, the condition of suspension equipment (pins, hooks, etc.) and possible localized imperfections caused by the manufacturing process.



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# Upturned T series

“Turning audio stereotypes upside down”.

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## APPLICATIONS

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Concert & Touring events<sup>1</sup> (*small scale*) - Events in open air spaces, town squares, etc.<sup>1</sup> (*small scale*) - Portable systems for musicians, bands and entertainers<sup>1</sup>- Rehearsal studios, demo rooms<sup>1</sup> - Live music clubs, pubs, and other venues with live music<sup>1</sup> (*small-medium size*) - Dance clubs, night clubs, ballrooms and other dancing venues<sup>2</sup> (*background music only*) - Wine/lounge bars and HO.RE.CA. (*Hotels, Restaurants and Cafés*)<sup>2</sup> - Casinos, game rooms, cruise ships and beach clubs<sup>2</sup> (*background music only*) - Cinemas and home theater - Places of worship<sup>1</sup> - Multi-purpose halls, sports, recreational and/or cultural venues - Convention and trade show centres - Corporate events<sup>1</sup> - Audio-visual installations for exhibitions, shows, competitions and other events - Beauty salons, fitness centres<sup>2</sup> - Other fixed installations (shops, shopping malls, airports, etc.)<sup>2</sup>.

<sup>1</sup> only PSUT8TE, PSUT8AE + PSUTBASE/A

<sup>2</sup> only PSUT1 + PSUTS

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## KEY FEATURES

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- Horizontal directivity of 150° (-6 dB);
- Modular structure with direct plug-in connections (no external power cables);
- Digital amplifier with DSP (24 bit / 96 kHz) integrated in the active subwoofer;
- Neodymium components;
- Extreme portability with customized bags;
- Ergonomic design;
- Birch plywood cabinet with weatherproofing treatment;
- Peecker Sound TQM.

# Upturned T series



**PSUT8TE  
PSUT8-AC**

- Quality voice reproduction and/or background music diffusion in indoor venues
- Fixed installations in circumscribed venues (e.g. conference rooms, small recreational/cultural facilities, small places of worship)
- **140°** horizontal coverage thanks to the *multi-angular loudspeaker design*
- **20 m** throw for each individual element



**PSUT8TE  
PSUT8AE  
PSUT8-AC**

- Quality voice reproduction and/or background music diffusion in indoor venues
- Fixed installations in mid-large sized and reverberating venues (e.g. multi-purpose halls, recreational/cultural facilities, convention and trade show centres, large places of worship)
- **150°** horizontal coverage thanks to the *multi-angular loudspeaker design*
- **35 m** throw for each individual cluster



**PSUT8TE  
PSUT8-AC  
PS-ST125**

- Quality voice reproduction and/or small-scale sound reinforcement
- Portable installations for *single&duo performers* or entertainers, corporate events or audio-visual installations for exhibits and other public events
- **140°** horizontal coverage thanks to the *multi-angular loudspeaker design*
- **20 m** throw for each individual element

# 6 different configurations



## PSUT8TE PSUTBASE/A

- Sound reinforcement for live, predominantly acoustic, music
- Fixed or portable installations in rehearsal rooms, outdoor cinemas or small live music clubs with a mainly sitting audience
- **140°** horizontal coverage thanks to the *multi-angular loudspeaker design*
- **8 m** throw for each individual stack

## PSUT8TE PSUT8-ST70 PSUTBASE/A

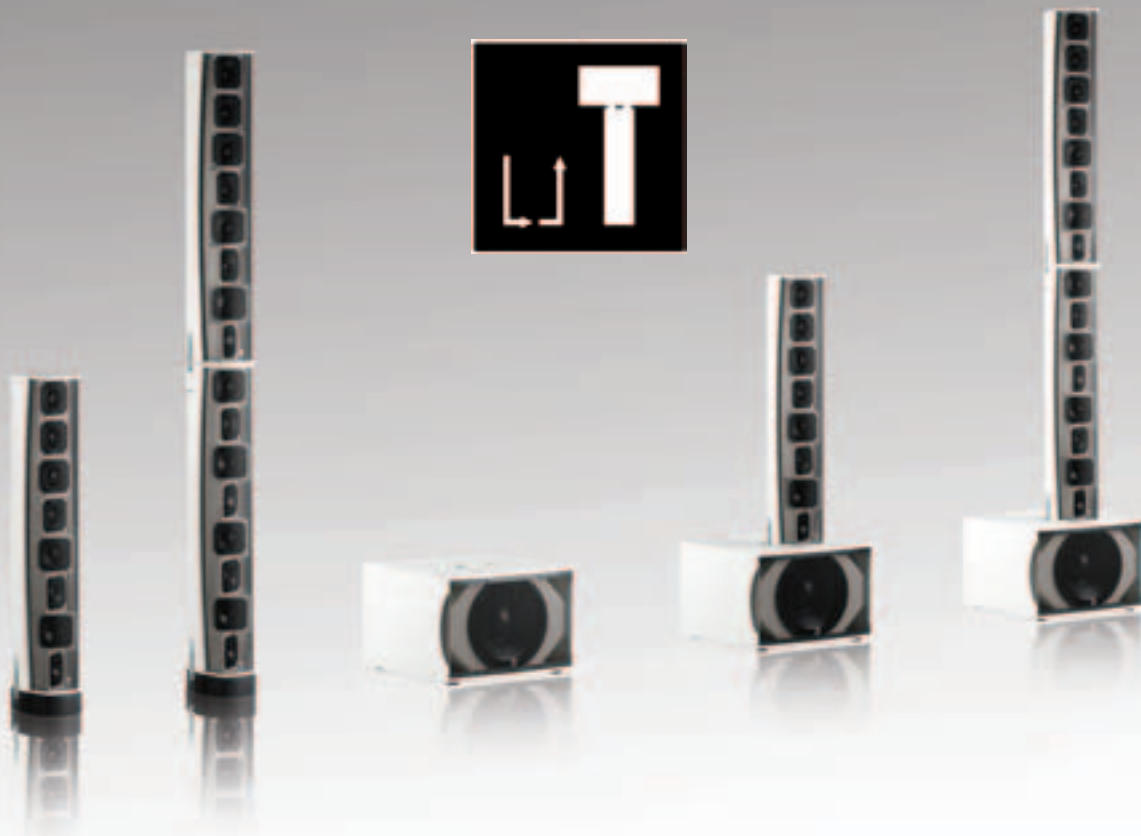
- Sound reinforcement for live or reproduced music (placing behind the stage)
- Fixed or portable installations in medium-sized live music clubs or for musicians' and/or entertainers' DJ sets
- **140°** horizontal coverage thanks to the *multi-angular loudspeaker design*
- **16 m** throw for each individual stack

## PSUT8TE PSUT8AE PSUTBASE/A

- Sound reinforcement for live or reproduced music (placing behind the stage)
- Fixed or portable installations in live music clubs, cinemas, modern theatres or auditoriums
- **150°** horizontal coverage thanks to the *multi-angular loudspeaker design*
- **24 m** throw for each individual stack



**As rock as you feel.**



The **Upturned T** series is an innovative and radical audio solution compared to the traditional way of conceiving sound reproduction. The series consists of two column speakers (**PSUT8TE** and **PSUT8AE**), each equipped with eight 4" full-range loudspeakers, the **PSUTBASE/A** active subwoofer, the ideal base for amplifying up to two column elements thanks to the direct connectors (*plug&play*), the **PSUT1** module and its companion dual subwoofer **PSUTS**, perfect for background music or for sound reinforcement in smaller venues. The **PSUT8TE** ("Top Element") is a 98-cm tall column speaker with a power handling capacity of 400 W RMS, designed for sound reinforcement in contexts requiring long throw and good intelligibility, including multimedia installations for shows and exhibitions of various types, as well as multi-purpose halls, convention and trade fair centres, cinemas, places of worship, but also in entertainment and performance venues. This type of speaker is truly unique and special, thanks in particular to the ingenious layout of the transducers that creates *hybrid* coverage: the first four loudspeakers from the top easily reach the far field thanks to a sound level decay typical of arrays (Max SPL at 16 m is a full 107 dB!), while the next four – oriented at angles determined by an in-depth physical-acoustic study – are directed towards the audience closest to the speaker, at about 2-3 metres distance. The **PSUT8AE** ("Additional Element") is designed to be positioned between the base (the amplified subwoofer, see below) and the top element to create acoustic continuity between the two elements. It has the same power handling capacity as the top unit (400 W RMS), but it has shorter throw, while, at the same time, wider horizontal opening. It is important to note that this speaker has a plug-in connector also in the upper part, enabling the connection of additional speakers (up to four), all without the need for a power cable or external signal.

Summarizing months of research in just a few lines, we can affirm that the real "supporting evidence" for the two column speakers described above, besides the well known properties of a very long array, is the exceptional *horizontal dispersion* – a full 150°. This is achieved thanks to the special mixed arrangement of the various transducers (*multi-angular loudspeaker design*), a solution devised by the Sound Corporation R&D department following measurements and simulations carried out with dedicated predictive software applications.



## PSUT8TE

Hybrid-dispersion sound column Top Element

## PSUT8AE

Wide-dispersion sound column Additional Element

MODEL	PSUT8TE	PSUT8AE
Power handling RMS	<b>400 W</b>	<b>400 W</b>
Frequency response (-6 dB)	<b>140÷18k Hz</b>	<b>140÷18k Hz</b>
Peak SPL (@1m / @16m)	<b>129 dB / 107 dB</b>	<b>128 dB / 105 dB</b>
Horizontal coverage angle (-6 dB)	<b>140°</b>	<b>150°</b>
Vertical coverage angle (-6 dB)	<b>15°</b>	<b>15°</b>
Nominal impedance	<b>16 Ohm</b>	<b>16 Ohm</b>
Transducers	<b>8x4" full range - neodymium magnet</b>	
Cabinet	<b>birch plywood</b>	<b>birch plywood</b>
Colour	<b>black or white</b>	<b>black or white</b>
Input connectors	<b>direct connection to another UT element</b>	
Dimensions (WxHxD)	<b>15x23x98 cm</b>	<b>15x23x98 cm</b>
Net weight	<b>10 kg</b>	<b>10 kg</b>





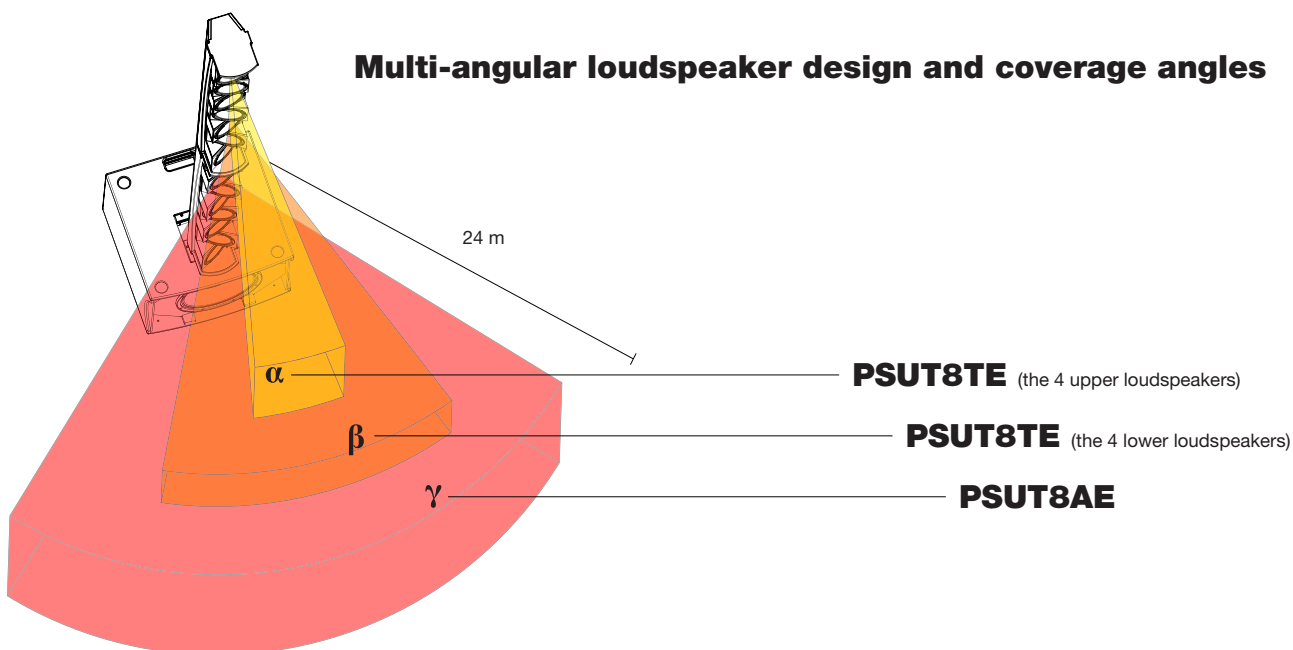
## PSUTBASE/A

Active subwoofer, base for PSUT8AE or PSUT8TE

Acoustical coupling	<b>bass reflex</b>
Amplifier power	<b>800+800 W (@8 Ohm) - class D</b>
Frequency response (-6 dB)	<b>40±160 Hz</b>
Peak SPL (@1m)	<b>132 dB</b>
Transducers	<b>LF 1x12"- neodymium magnet</b>
Power supply	<b>switching technology</b>
AC voltage	<b>115/230 VAC ±10%, 45-65 Hz</b>
DSP on board	<b>24 bit/96 kHz (4 sel. presets)</b>
Cabinet	<b>birch plywood</b>
Colour	<b>black or white</b>
Input connectors	<b>XLR - max +10 dBu</b>
Dimensions (WxHxD)	<b>52x35.5x50 cm</b>
Net weight	<b>23 kg</b>

The **PSUTBASE/A** self-powered subwoofer (800+800 W RMS with a powerful DSP on board) can drive up to *two* stacked column elements, which are connected to the subwoofer by means of a solid hooking system and a connector that excludes the need for any external cable. The “top” configuration – 1 PSUTBASE/A + 1 PSUT8AE + 1 PSUT8TE – adapts perfectly to the audio needs of bands and musical groups (with incredible performance for musical genres such as blues, jazz and unplugged pop), acting as both main P.A. and stage monitor, producing powerful and crystal-clear sound for audiences of up to 150-200 people.

### Multi-angular loudspeaker design and coverage angles



Moving on to the other products of the line, the **PSUT1** is a light-weight, compact and modular audio micro-system, only 13 cm wide, designed specifically for sound reinforcement in pubs, restaurants, bars, shops, museums, public buildings and the like. It can be used in cluster configuration up to *four* elements that are interchangeable and can be oriented horizontally or vertically as desired. Coupled with the **PSUTS** dual subwoofer (equipped with two 6" loudspeakers in bass reflex configuration), it produces a soft sound with extended frequency and perfect loudness, indispensable for the low sound pressures required in these environments.

This system is perfectly suited to venues where it is possible, if the need arises, to “push the limits a bit further” (with each single “cube” delivering a musical power of 100 W and a peak power of no less than 113 dB, all the efficiency requirements are fully satisfied).



## PSUT1

### Stackable micro loudspeaker system

Power handling RMS	<b>50 W</b>
Frequency response (-6 dB)	<b>160÷18k Hz</b>
Peak SPL (@1m)	<b>114 dB</b>
Coverage angle (-6 dB)	<b>100° horizontal, 100° vertical</b>
Nominal impedance	<b>16 Ohm</b>
Transducers	<b>1x4" full range - neodymium magnet</b>
Cabinet	<b>birch plywood</b>
Colour	<b>black or white; any RAL on request</b>
Input connectors	<b>spring terminals</b>
Dimensions (W×H×D)	<b>13×13×16 cm</b>
Net weight	<b>1.5 kg</b>



## PSUTS

High efficiency ultra-compact suspendable dual subwoofer

Acoustical coupling	<b>bass reflex</b>
Power handling RMS	<b>160 W</b>
Frequency response (-6 dB)	<b>50÷180 Hz</b>
Peak SPL (@1m)	<b>120 dB</b>
Nominal impedance	<b>8 Ohm</b>
Transducers	<b>LF 2x6"</b>
Cabinet	<b>birch plywood</b>
Colour	<b>black or white; any RAL on request</b>
Input connectors	<b>spring terminals</b>
Dimensions (WxHxD)	<b>23x38.5x30 cm</b>
Net weight	<b>9 kg</b>

## Installation modes



**1 PSUT1 + 1 PSUTS**  
(vertical)



**1 PSUT1 + 1 PSUTS**  
(horizontal)



**2 PSUT1 + 1 PSUTS**  
(horizontal)

# Upturned T series - accessories



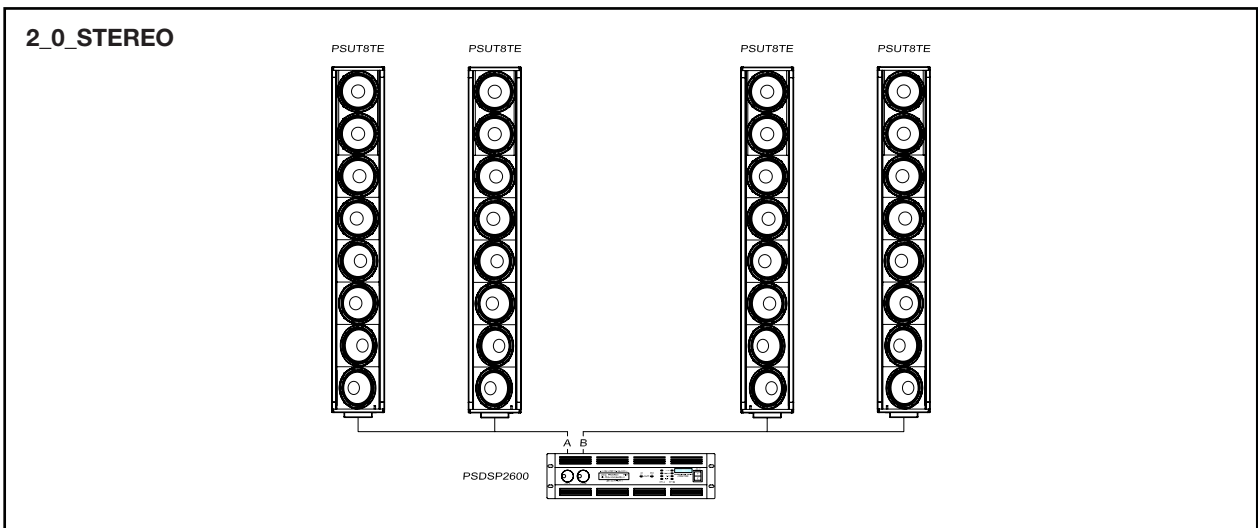
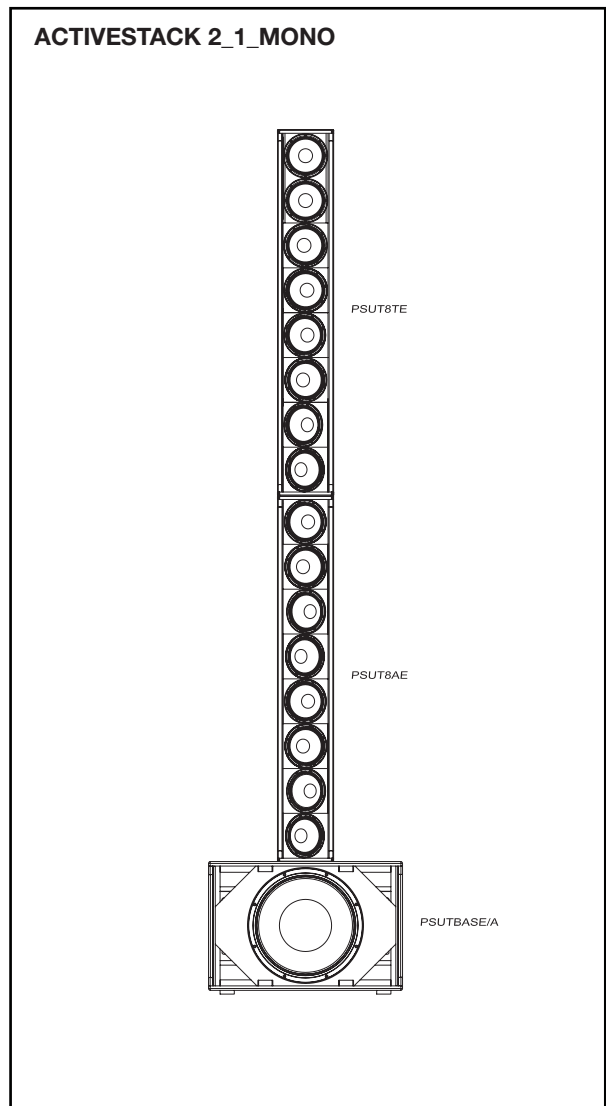
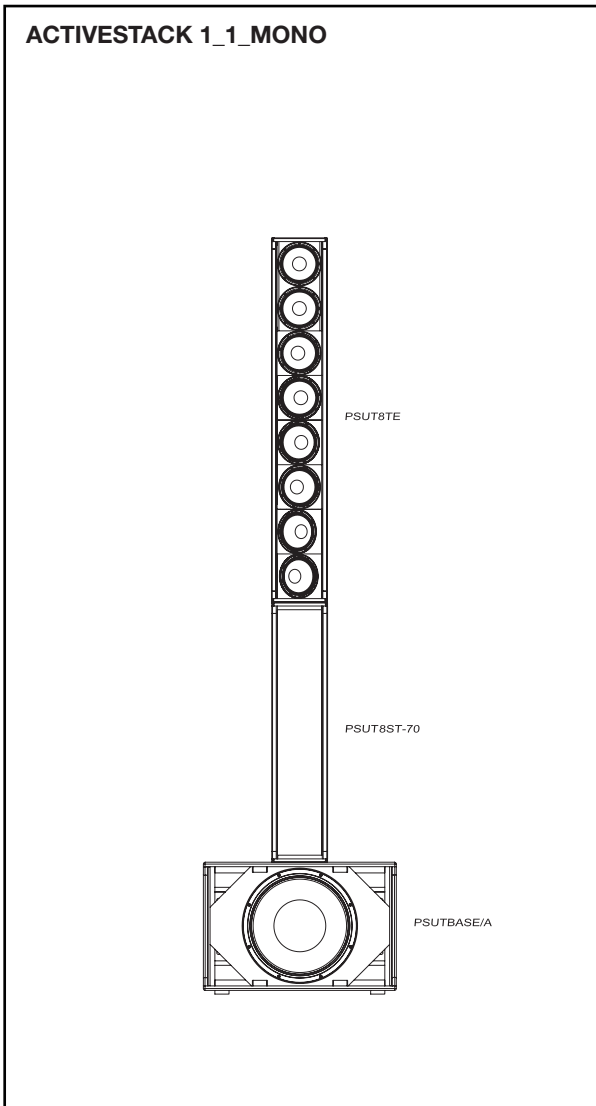
- ① **STD-WUT8** - Wall bracket for vertical support of 1 or 2 (1 PSUT8AE + 1 PSUT8AE) sound columns
- ② **STD-WUT1** - Wall bracket for vertical support of 1 or 2 PSUT1 speakers (180° Hor. and Vert. rotation)
- ③ **STD-PSUT124** - Flying bracket for 2 or 4 PSUT1 speakers (side-by-side or stacked)
- ④ **STD-PSUTS** - Flying bracket for 1 PSUTS subwoofer
- ⑤ **PS-ST125** - Adjustable-height stand holder for 1 PSUT8TE sound column
- ⑥ **PSUT8-AC** - *Jumper-SpeakOn* converter and adapter flange for PSUT8TE to PS-ST125 stand
- ⑦ **PSUT8-ST70** - Stand holder for spacing a PSUT8TE speaker from a PSUTBASE/A sub (height: 70 cm)
- ⑧ **TRA-PSUT1** and **TRA-PSUTS** - Line transformers for the connection of PSUT1 / PSUTS to 100V constant voltage lines

# “Easy handling even for **Lily**”

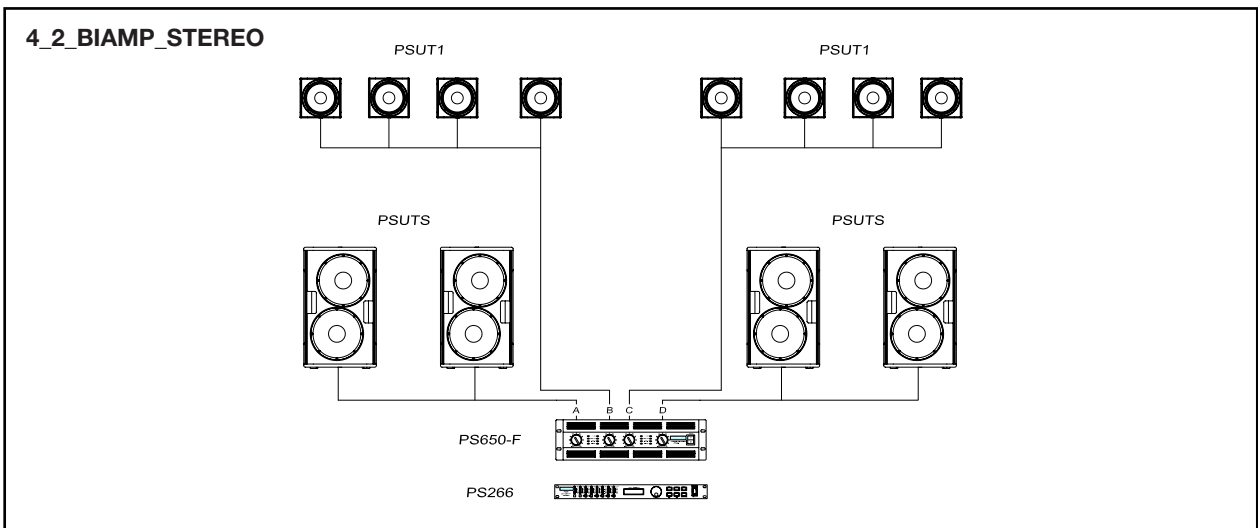
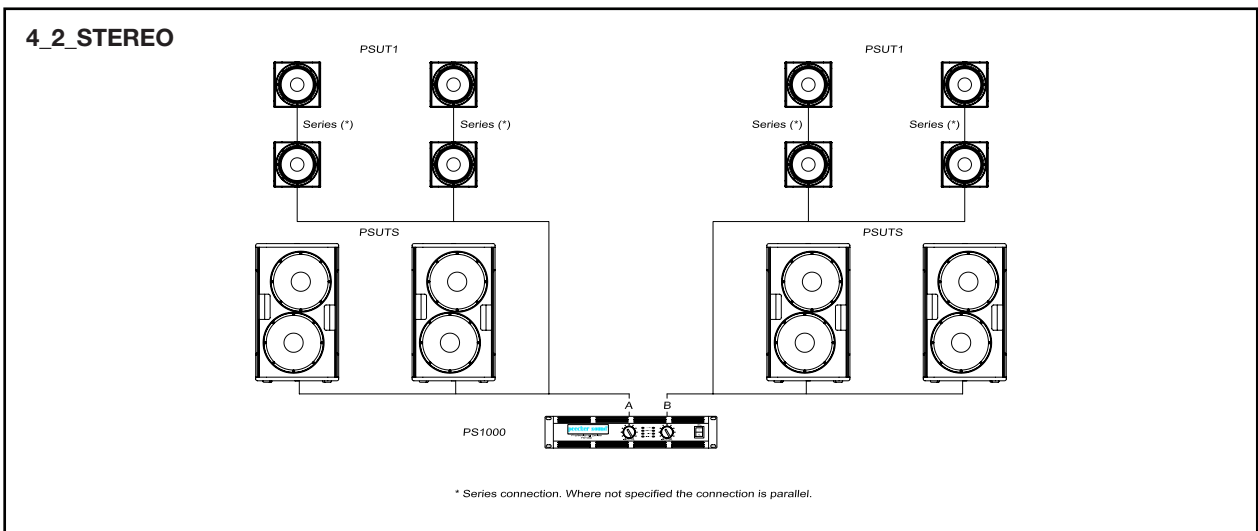
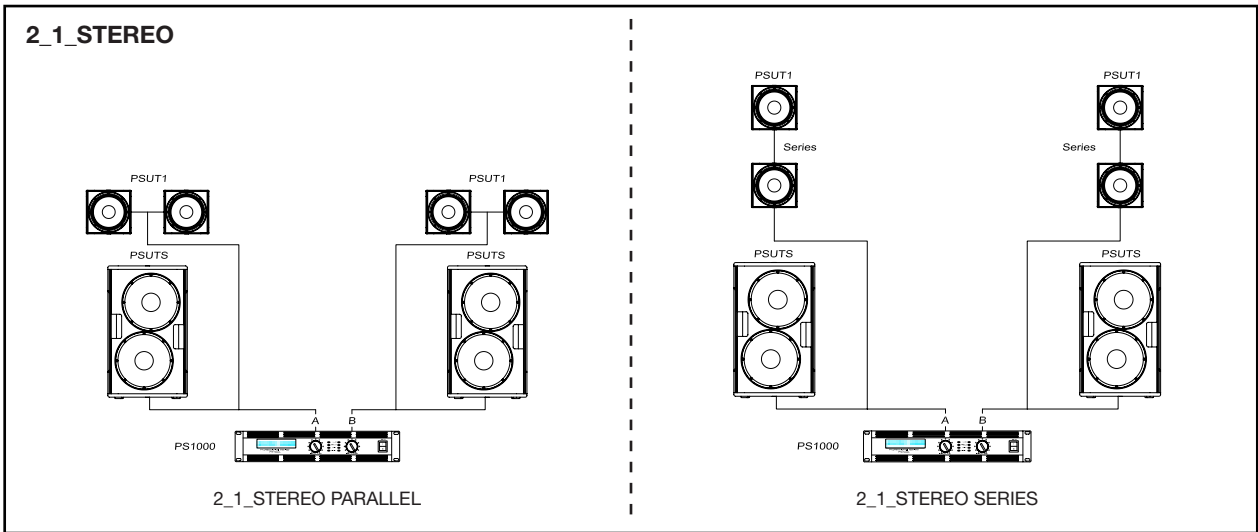


- ⑨ **UT8-COVER** - Protection enclosure for 1 PSUT8TE or 1 PSUT8AE sound column or for 1 PSUT8-ST70 stand holder
- ⑩ **UTBASE/A-COV** - Protection enclosure for 1 PSUTBASE/A subwoofer

# Upturned T series



# System configurations



More info at: [www.peeckersound.com](http://www.peeckersound.com)





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# Forty series

“Forti dei nostri Forty!”

(“Proud of our Forty years of experience!”)

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## APPLICATIONS

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Events in outdoor spaces, town squares, etc.<sup>1</sup> (*small-medium scale*) - Portable systems for musicians, bands and entertainers<sup>1</sup> (*medium scale*) - Rehearsal studios, demo rooms - Dance clubs, night clubs, ballroom dancing and other dancing venues (*any size*) - Wine/lounge bars and HO.RE.CA. (*Hotels, Restaurants and Cafés*) - Beach clubs, bathing establishments - Casinos, game rooms, cruise ships<sup>2</sup> (*background music only*) - Amusement parks, theme parks, circus shows - Multi-purpose halls, sports, recreational and/or cultural venues - Convention and trade show centres<sup>2</sup> - Corporate events - Beauty salons, fitness centres<sup>2</sup> - Other fixed installations (shopping malls, shops, airports, etc.)<sup>2</sup>.

<sup>1</sup> only 4012MH/A, 4015MH/A, 4030MH/A + 40SW15/A, 40SW18/A

<sup>2</sup> only 4008 or 4010MH

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## KEY FEATURES

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- A.W.S.H.® (*Acoustic Wave Shaped Horn*);
- Controlled angle of dispersion (90° x 50°);
- Neodymium woofer;
- Mylar HF driver;
- Pole mount with dual angle;
- Design aimed at optimizing acoustic efficiency;
- Birch plywood cabinet with weatherproofing treatment;
- Peecker Sound TQM.

Planned and produced to celebrate the 40<sup>th</sup> anniversary of the Sound Corporation group, the ambition in designing the **Forty** series was to offer affordable products that feature cutting-edge speaker design and production technology usually found in the price bracket of much higher-end products.

The line comprises *seven* different models: *five* 2-way speakers (models: **4008**, **4010MH**, **4012MH**, **4015MH** and **4030MH**, the last three also available in self-powered version – **4012MH/A**, **4015MH/A** and **4030MH/A**) and *two* subwoofers, both passive (**40SW15** and **40SW18** models) and active (**40SW15/A** and **40SW18/A** models). These 2-way systems are designed for sound reinforcement to cover medium to large-size listening areas homogeneously and uniformly. With these systems, the voice is perfectly intelligible and is not modulated by low frequencies even at a distance and on an angle falling within the values of dispersion. The transducers (*Neodymium woofer, Mylar driver*) are the best and most technologically advanced in the audio industry, and the same goes for the digital electronics with DSP in the active versions and crossovers with shielded resistors in the passive versions. But the real added value of this line of products lies in the innovative aluminium horn (in fact, the abbreviation “MH”, which stands for “Modelled Horn”, appears in the name of the models), specially designed in the Sound Corporation research laboratories and registered with the acronym **A.W.S.H**<sup>®</sup> (*Acoustic Wave Shaped Horn*). This horn, made of aluminium alloy, has variable thickness (it narrows by moving towards the “mouth”) to minimize resonances, whereas the driver is equipped with a central phase plug with inverted dome.

The coaxial structure of the two mid-high frequency sections makes it possible to reduce phase distortions and makes the polar diagrams even more controlled; in fact, the angle of sound dispersion remains constant over the entire spectrum reproduced, and consequently the frequency response is linear over the entire solid angle, providing uniform coverage of the listening area.

The *Class D* power amplifier onboard the self-powered models, weighing just 0.5 kg, is produced entirely in switching technology and contains a powerful DSP (24 bit / 96 kHz) with 2 *presets* that can be selected using the push button on the panel on the back of the speakers.

The shape of the birch plywood cabinet has been optimized to reduce standing waves inside the speaker to a minimum and to facilitate the use of side-by-side systems. In addition, the two different angles of the cabinet of the 4012MH and 4015MH satellites allow them to be used correctly as floor-standing monitors.

The extremely compact dimensions facilitate transport, a pole mount with dual angle enables easy installation on stand holder, and a complete line of accessories assures quick and safe suspension.

## 4008

### 2-way loudspeaker system

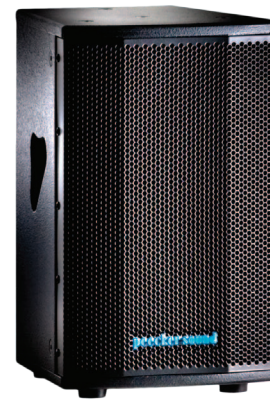
Power handling RMS	<b>220 W</b>
Frequency response (-6 dB)	<b>70÷18k Hz</b>
Peak SPL (@1m)	<b>124 dB</b>
Coverage angle (-6 dB)	<b>50° horizontal, 50° vertical</b>
Nominal impedance	<b>8 Ohm</b>
Transducers	<b>LF 1x8”, HF 1x1”</b>
Crossover frequency	<b>2.5 kHz</b>
Cabinet	<b>birch plywood</b>
Colour	<b>black</b>
Input connectors	<b>2xNL4 speakON</b>
Dimensions (W×H×D)	<b>24.5×40×29 cm</b>
Net weight	<b>8.5 kg</b>



# 4010MH

2-way loudspeaker system with Modelled Horn

Power handling RMS	<b>300 W</b>
Frequency response (-6 dB)	<b>70÷20k Hz</b>
Peak SPL (@1m)	<b>129 dB</b>
Coverage angle (-6 dB)	<b>90° horizontal, 40° vertical</b>
Nominal impedance	<b>8 Ohm</b>
Transducers	<b>LF 1x10"- neodymium magnet, HF 1x1"- mylar membrane</b>
Crossover frequency	<b>2 kHz</b>
Cabinet	<b>birch plywood</b>
Colour	<b>black</b>
Input connectors	<b>2xNL4 speakON</b>
Dimensions (WxHxD)	<b>30.5x49x33 cm</b>
Net weight	<b>13.5 kg</b>



# 4012MH - 4012MH/A and 4015MH - 4015MH/A

2-way passive/active loudspeaker systems with Modelled Horn

MODEL	4012MH	4012MH/A	4015MH	4015MH/A
Power handling RMS	<b>450 W</b>	/	<b>550 W</b>	/
Amplifier power	/	<b>500 W - class D</b>	/	<b>500 W - class D</b>
Frequency response (-6 dB)	<b>65÷20k Hz</b>	<b>65÷20k Hz</b>	<b>55÷20k Hz</b>	<b>55÷20k Hz</b>
Peak SPL (@1m)	<b>132 dB</b>	<b>130 dB</b>	<b>133 dB</b>	<b>131 dB</b>
Coverage angle (-6 dB)	<b>90° horizontal, 50° vertical</b>		<b>90° horizontal, 50° vertical</b>	
Nominal impedance	<b>8 Ohm</b>	/	<b>8 Ohm</b>	/
Transducers	<b>LF 1x12"- neodymium magnet, HF 1x1"- mylar membrane</b>		<b>LF 1x15"- neodymium magnet, HF 1x1"- mylar membrane</b>	
Crossover frequency	<b>1.8 kHz</b>	/	<b>1.8 kHz</b>	/
Power supply	/	<b>switching tech.</b>	/	<b>switching tech.</b>
AC voltage	/	<b>115/230 VAC ±10%</b>	/	<b>115/230 VAC ±10%</b>
DSP on board	/	<b>24 bit/96 kHz (2 sel. presets)</b>	/	<b>24 bit/96 kHz (2 sel. presets)</b>
Cabinet	<b>birch plywood</b>	<b>birch plywood</b>	<b>birch plywood</b>	<b>birch plywood</b>
Colour	<b>black</b>	<b>black</b>	<b>black</b>	<b>black</b>
Input connectors	<b>2xNL4 speakON</b>	<b>XLR - max +10 dBu</b>	<b>2xNL4 speakON</b>	<b>XLR - max +10 dBu</b>
Dimensions (WxHxD)	<b>35.5x57.5x40.5 cm</b>	<b>35.5x57.5x40.5 cm</b>	<b>43x67x48.5 cm</b>	<b>43x67x48.5 cm</b>
Net weight	<b>18 kg</b>	<b>19 kg</b>	<b>23.5 kg</b>	<b>24.5 kg</b>



## 4030MH - 4030MH/A

2-way passive/active loudspeaker systems with Modelled Horn

MODEL	4030MH	4030MH/A
Power handling RMS	<b>1080 W</b>	/
Amplifier power	/	<b>500 W (@8 Ohm) - class D</b>
Frequency response (-6 dB)	<b>50÷20k Hz</b>	<b>50÷20k Hz</b>
Peak SPL (@1m)	<b>137 dB</b>	<b>132 dB</b>
Coverage angle (-6 dB)	<b>90° horizontal, 50° vertical</b>	<b>90° horizontal, 50° vertical</b>
Nominal impedance	<b>8 Ohm</b>	/
Transducers	<b>LF 2x15"- neodymium magnet, HF 1x1"- titanium membrane</b>	
Crossover frequency	<b>1.8 kHz</b>	/
Power supply	/	<b>switching technology</b>
AC voltage	/	<b>115/230 VAC ±10%, 45-65 Hz</b>
DSP on board	/	<b>24 bit/96 kHz (2 sel. presets)</b>
Cabinet	<b>birch plywood</b>	<b>birch plywood</b>
Colour	<b>black</b>	<b>black</b>
Input connectors	<b>2xNL4 speakON</b>	<b>XLR - max +10 dBu</b>
Dimensions (WxHxD)	<b>43x115x49 cm</b>	<b>43x115x49 cm</b>
Net weight	<b>39 kg</b>	<b>40 kg</b>

# Forty series - subwoofers

The **subwoofers** of the Forty series are *band-pass* type, in which the radiation of the loudspeaker does not take place directly, but by means of two resonance cavities, one front and one rear. In this way, maximum efficiency is achieved in reproducing low frequencies only, without interfering with the other components of the system. Thanks to the special configuration, the membrane of the loudspeaker is subject to much less movement compared to traditional *reflex* systems, thus producing a strong reduction in distortion even at the maximum power.

The cabinets feature a very sturdy structure with special reinforcements that cancel any form of parasitic vibrations and are protected with a special scratch-proof polyurethane paint. The protective grilles, “transparent” to the sound reproduced, are crash-resistant.



## 40SW15 - 40SW15/A

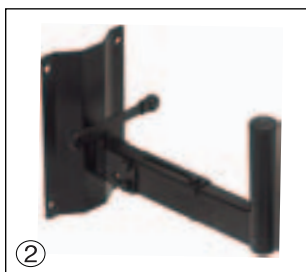
Passive/active 15” subwoofers

## 40SW18 - 40SW18/A

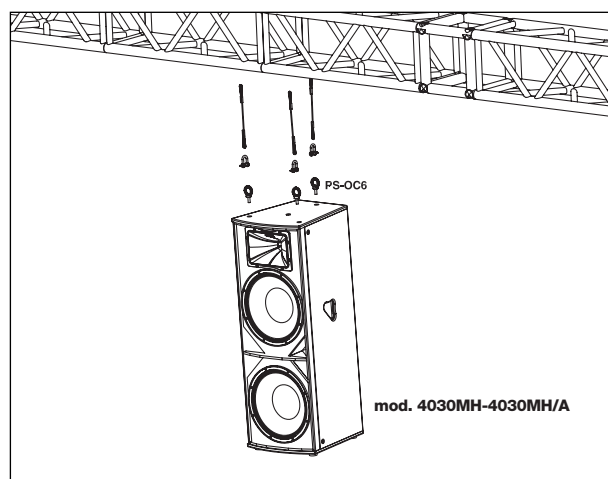
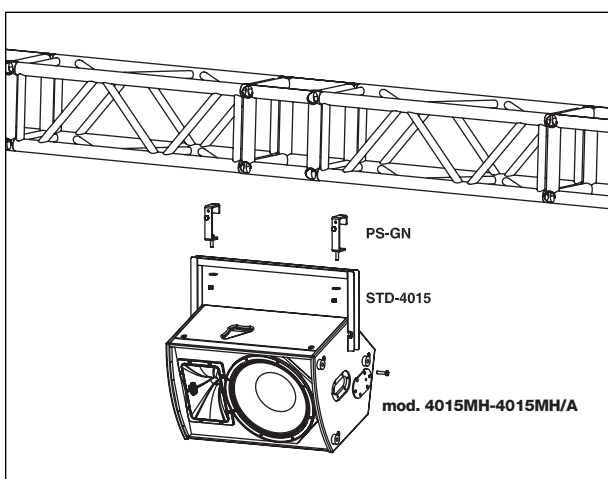
Passive/active 18” subwoofers

MODEL	40SW15	40SW15/A	40SW18	40SW18/A
Acoustical coupling	<b>band pass</b>	<b>band pass</b>	<b>band pass</b>	<b>band pass</b>
Power handling RMS	<b>550 W</b>	/	<b>600 W</b>	/
Amplifier power	/	<b>500 W (@ 8 Ohm) class D</b>	/	<b>500 W (@ 8 Ohm) class D</b>
Frequency response (-6 dB)	<b>45÷120 Hz</b>	<b>45÷120 Hz</b>	<b>40÷120 Hz</b>	<b>40÷120 Hz</b>
Peak SPL (@1m)	<b>133 dB</b>	<b>130 dB</b>	<b>134 dB</b>	<b>130 dB</b>
Nominal impedance	<b>8 Ohm</b>	/	<b>8 Ohm</b>	/
Transducers	<b>LF 1x15”</b>	<b>LF 1x15”</b>	<b>LF 1x18”</b>	<b>LF 1x18”</b>
Power supply	/	<b>switching tech.</b>	/	<b>switching tech.</b>
AC voltage	/	<b>115/230 VAC ±10%</b>	/	<b>115/230 VAC ±10%</b>
DSP on board	/	<b>24 bit/96 kHz (2 sel. presets)</b>	/	<b>24 bit/96 kHz (2 sel. presets)</b>
Cabinet	<b>birch plywood</b>	<b>birch plywood</b>	<b>birch plywood</b>	<b>birch plywood</b>
Colour	<b>black</b>	<b>black</b>	<b>black</b>	<b>black</b>
Input connectors	<b>2xNL4 speakON</b>	<b>XLR - max +10 dBu</b>	<b>2xNL4 speakON</b>	<b>XLR - max +10 dBu</b>
Dimensions (WxHxD)	<b>44x59.5x71 cm</b>	<b>44x59.5x71 cm</b>	<b>50x66.5x77 cm</b>	<b>50x66.5x77 cm</b>
Net weight	<b>32.5 kg</b>	<b>33.5 kg</b>	<b>39.5 kg</b>	<b>40.5 kg</b>

# Forty series - accessories



- ① **STD-4008** - Horizontal flying bracket for Forty 4008 loudspeaker system + 10MA adapter flange
- ① **STD-4010** - Horizontal flying bracket for Forty 4010MH loudspeaker system + 10MA adapter flange
- ① **STD-4012** - Horizontal flying bracket for Forty 4012MH loudspeaker system + 10MA adapter flange
- ① **STD-4015** - Horizontal flying bracket for Forty 4015MH loudspeaker system + 10MA adapter flange
- ② **STD-WALL** - Wall bracket for vertical support of a Forty series upper module (except for mod. 4030MH)
- ③ **PS-GN** - Stainless steel hook for the attachment to a rigging system
- ④ **PS-OC6** - Kit of three 10MA eyelets for vertical hanging of a Forty series upper module (except for mod. 4008)
- ⑤ **PS-ST100** - Adjustable-height stand holder for subwoofer-upper module connection
- ⑥ **PS-ST125** - Adjustable-height three-legged stand for a Forty series upper module (except for mod. 4030MH)



# Forty series - endorsements



Sport venues

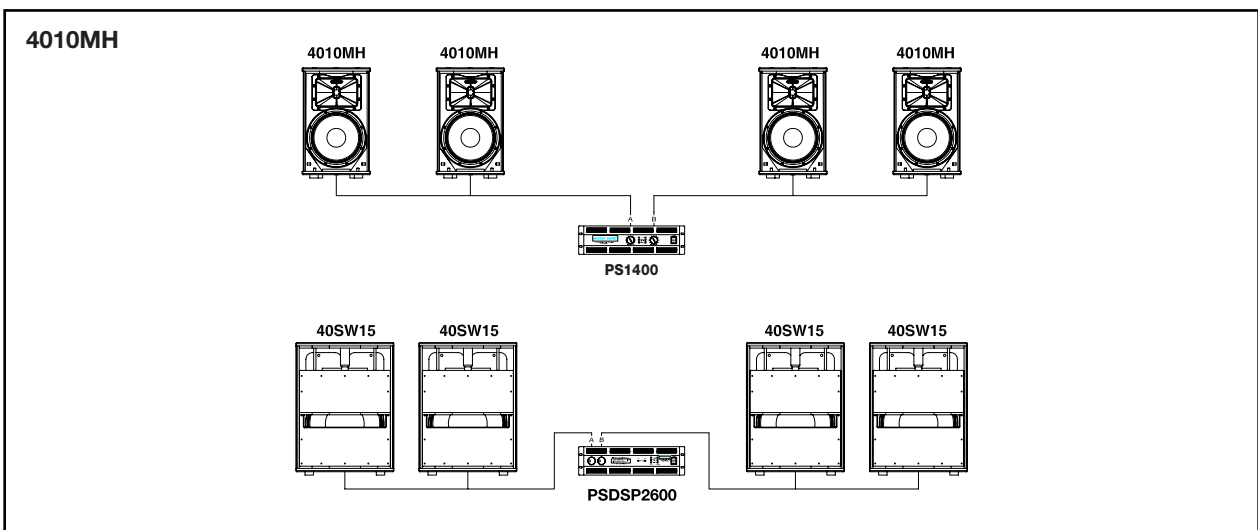
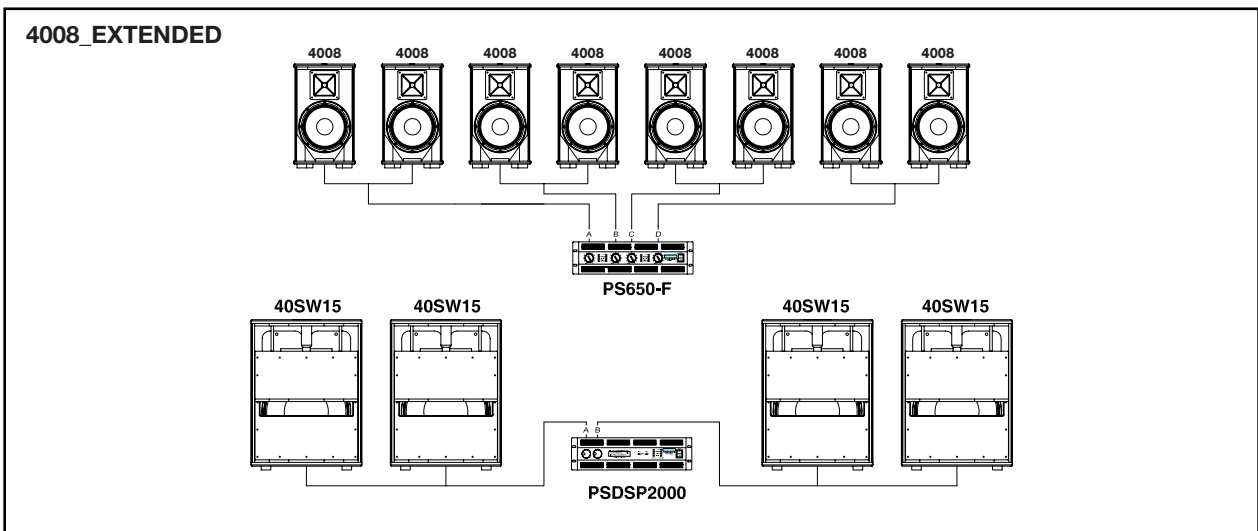
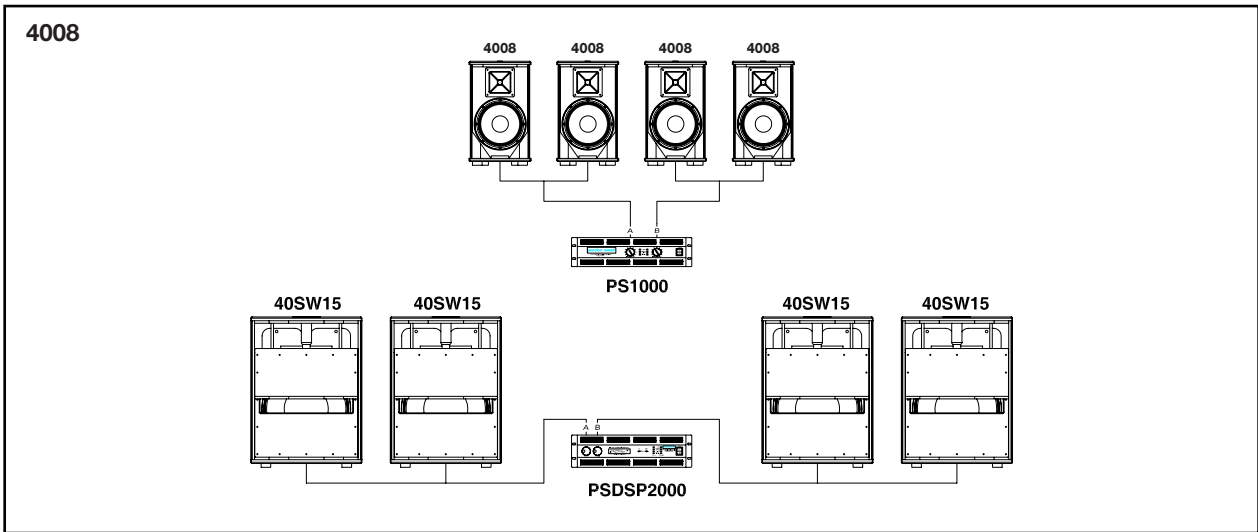


Fixed installs & clubs



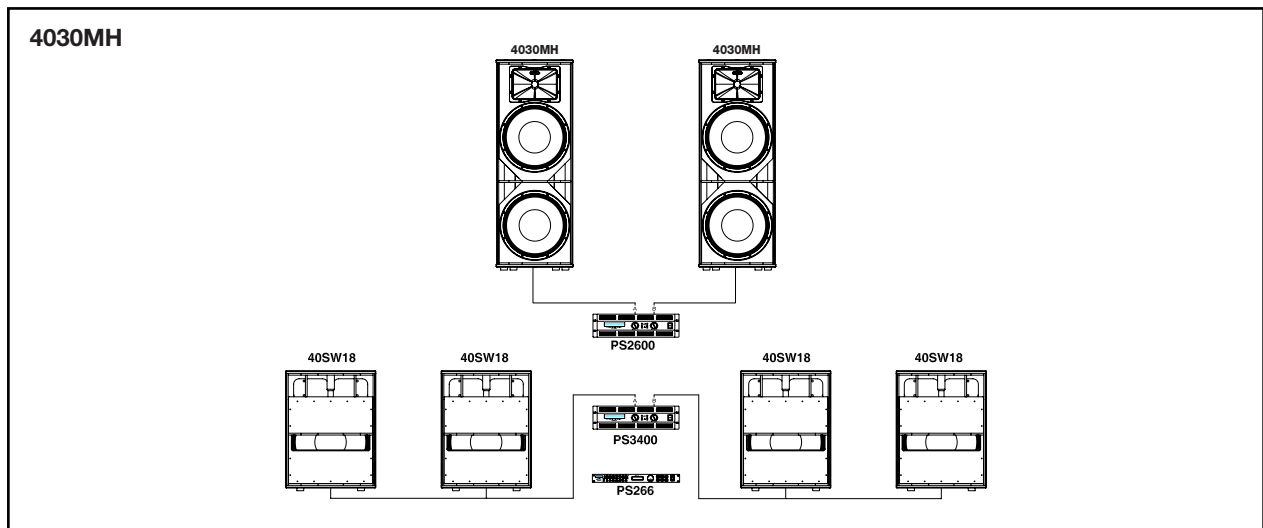
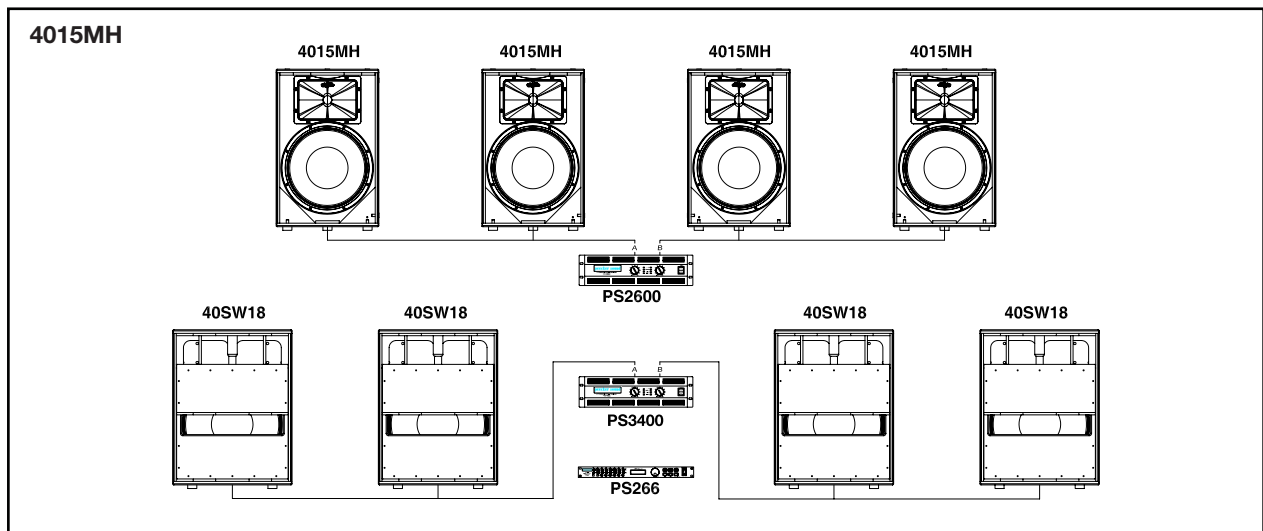
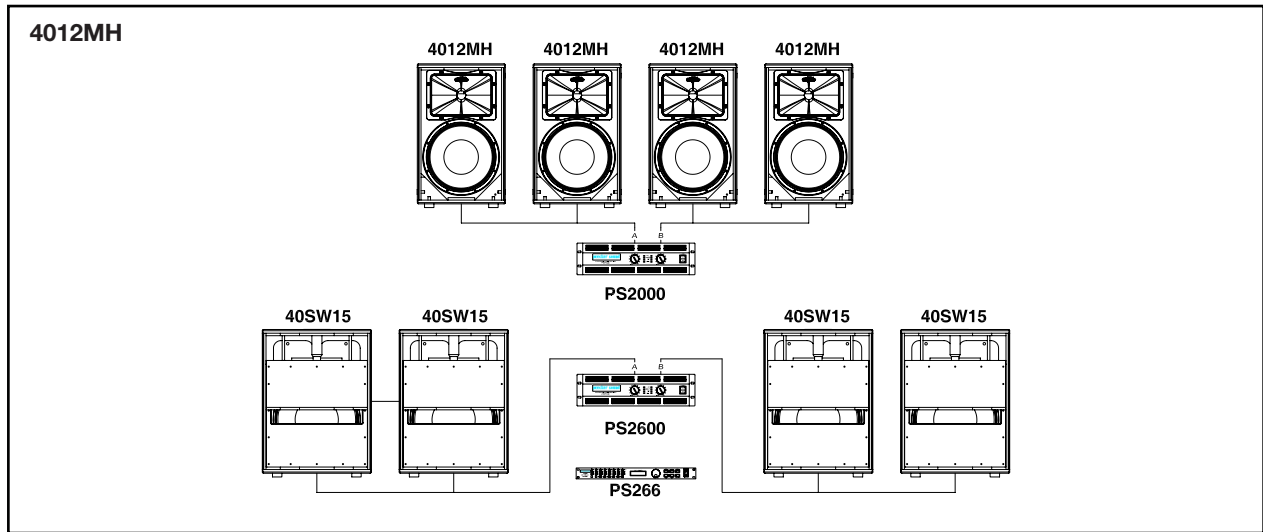
Advertising

# Forty series





# System configurations



More info at: [www.peakersound.com](http://www.peakersound.com)

# Forty series



**4008**



**4010MH**



**4012MH**

Passive loudspeaker system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Active loudspeaker system			
Power handling RMS	<b>220 W</b>	<b>300 W</b>	<b>450 W</b>
Amplifier power RMS	/	/	/
Peak SPL (@1m)	<b>124 dB</b>	<b>129 dB</b>	<b>132 dB</b>
Sensitivity (1W@1m)	<b>95 dB</b>	<b>98 dB</b>	<b>99 dB</b>
Dispersion angle (- 6 dB)	<b>50° horiz, 50° vert</b>	<b>90° horiz, 40° vert</b>	<b>90° horiz, 50° vert</b>
Nominal impedance	<b>8 Ohm</b>	<b>8 Ohm</b>	<b>8 Ohm</b>
Dual-tilt cabinet for stage monitor use	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Birch plywood cabinet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Polyurethane varnish	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dimensions (WxHxD, cm)	<b>24.5x40x29</b>	<b>30.5x49x33</b>	<b>35.5x57.5x40.5</b>
Net weight (kg)	<b>8.5</b>	<b>13.5</b>	<b>18</b>
Loudspeakers with Neodymium magnet	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tweeter diaphragm material	<b>Phenolic resin</b>	<b>Mylar</b>	<b>Mylar</b>
Horn type	<b>ABS with glass</b>	<b>AWSH®</b>	<b>AWSH®</b>
Crossover frequency cut	<b>2.5 kHz</b>	<b>2 kHz</b>	<b>1.8 kHz</b>
Air core coils (HF) and containing <i>ferrite powder</i> (LF)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HPCCR®	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DSP on board	/	/	/
Power supply	/	/	/
Power stage	/	/	/
N. of selectable presets	/	/	/
Dual-tilt flange (0° / 7.5°) for stand holder mounting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Both horizontal and vertical suspension	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Suspension accessories	<b>STD-4008 STD-WALL</b>	<b>STD-4010 STD-WALL PS-OC6</b>	<b>STD-4012 STD-WALL PS-OC6</b>
Speaker efficiency (Max SPL/Nom. Power)	124/220 = <b>0.56 dB/W</b>	<b>0.43 dB/W</b>	<b>0.29 dB/W</b>
Real Power*/Weight ratio	440/8.5 = <b>52 W/kg</b>	<b>44.5 W/kg</b>	<b>50 W/kg</b>
Quality/Price ratio**	● ● ● ● ○	● ● ● ○ ○	● ● ● ○ ○
Versatility index***	● ● ● ○ ○	● ● ● ● ○	● ● ● ● ●

\*= with *Real Power* we mean:

a) the *real power* of the on board amplifier, if the loudspeaker systems are *self-powered*,

b) the *suggested power* of the related amplifiers, if the loudspeaker systems are *passive* (note: Peecker Sound engineers have established this value as follows:  $P_{suggested} = 2 \times P_{nom.}$ ).

\*\*= this indicator is a useful tool to assess how good value a Peecker Sound loudspeaker system is and its positioning in the relevant market segment.

It is nonetheless a subjective indicator - expressed in terms of the *Likert scale* - which defines the ratio between the *quality* of a product - i.e. the ability of a loudspeaker system to meet a series of requisites accepted across the board in the field of professional audio systems - and its *price*, considering the pertinent market and the average prices of competitor products used for the same specific purpose.

\*\*\*= the Peecker Sound Sales Office used this indicator with the aim of assessing how effectively loudspeaker systems can be used in a variety of different applications and locations, in fixed or portable installations, indoors or outdoors. The meaning of *versatility* (or *multi-tasking*) capacity is the ability of a loudspeaker system to perform a range of different tasks, and this is a fundamental aspect to take into consideration in order to assess an audio product for anyone who has to manage a variety of different music events.

# Comparison chart



**4012MH/A**

**4015MH**

**4015MH/A**

**4030MH**

**4030MH/A**

	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
/	<b>550 W</b>	/	<b>1080 W</b>	/
<b>500 W (@8 Ohm)</b>	/	<b>500 W (@8 Ohm)</b>	/	<b>500 W (@8 Ohm)</b>
<b>130 dB</b>	<b>133 dB</b>	<b>131 dB</b>	<b>137 dB</b>	<b>132 dB</b>
<b>99 dB</b>	<b>100 dB</b>	<b>100 dB</b>	<b>101 dB</b>	<b>101 dB</b>
<b>90° horiz, 50° vert</b>	<b>90° horiz, 50° vert</b>	<b>90° horiz, 50° vert</b>	<b>90° horiz, 50° vert</b>	<b>90° horiz, 50° vert</b>
/	<b>8 Ohm</b>	/	<b>8 Ohm</b>	/
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>35.5x57.5x40.5</b>	<b>43x67x48.5</b>	<b>43x67x48.5</b>	<b>43x115x49</b>	<b>43x115x49</b>
<b>19</b>	<b>23.5</b>	<b>24.5</b>	<b>39</b>	<b>40</b>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Mylar</b>	<b>Mylar</b>	<b>Mylar</b>	<b>Titanium</b>	<b>Titanium</b>
<b>AWSH®</b>	<b>AWSH®</b>	<b>AWSH®</b>	<b>AWSH®</b>	<b>AWSH®</b>
/	<b>1.8 kHz</b>	/	<b>1.8 kHz</b>	/
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	/	<input checked="" type="checkbox"/>	/	<input checked="" type="checkbox"/>
<b>switching</b>	/	<b>switching</b>	/	<b>switching</b>
<b>class D</b>	/	<b>class D</b>	/	<b>class D</b>
<b>2</b>	/	<b>2</b>	/	<b>2</b>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>STD-4012 STD-WALL PS-OC6</b>	<b>STD-4015 STD-WALL PS-OC6</b>	<b>STD-4015 STD-WALL PS-OC6</b>	<b>PS-OC6</b>	<b>PS-OC6</b>
<b>0.26 dB/W</b>	<b>0.24 dB/W</b>	<b>0.26 dB/W</b>	<b>0.13 dB/W</b>	<b>0.26 dB/W</b>
<b>26.5 W/kg</b>	<b>47 W/kg</b>	<b>20.5 W/kg</b>	<b>55.5 W/kg</b>	<b>12.5 W/kg</b>
● ● ● ● ○	● ● ● ○ ○	● ● ● ● ○	● ● ● ● ○	● ● ● ● ●
● ● ● ● ○	● ● ● ● ○	● ● ● ○ ○	● ● ● ○ ○	● ● ○ ○ ○

KEY TO THE SYMBOLS

= as standard for that model

= not available for that model

/ = not admissible



INTEGRATED DSP CONTROL SYSTEM  
CH A: -51.5dB  
CH B: 0.0dB

INTEGRATED DSP CONTROL SYSTEM  
CH A: +0.0dB  
CH B: +0.0dB  
48KHz SAMPLING RATE

INTEGRATED DSP CONTROL SYSTEM  
CH A: -1.5dB  
CH B: +2.0dB  
48KHz SAMPLING RATE

CHA

CHB

IN PUT  
PC REMOTE

POWER

PIONEER  
Professional Audio  
PDA-1000

IN PUT  
PC REMOTE

OUT PUT

IN PUT  
PC REMOTE

OUT PUT

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# PSDSP amplifiers

“The power of a state-of-the-art DSP”.

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## APPLICATIONS

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Rehearsal studios, demo rooms - Dance clubs, night clubs, ballrooms and other dancing venues (*any size*)  
- Beach clubs, bathing establishments - Amusement parks, theme parks and circus shows - Cinemas -  
Multi-purpose halls, sports, recreational and/or cultural venues - Corporate events - Multimedia installations for exhibitions, shows and other events.

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## KEY FEATURES

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- Onboard *24 bit / 48 kHz* DSP processor with 20 user memories;
- Control from PC of a network of devices (up to 255 units);
- Output stages: *Class AB*;
- Three-band parametric equalizer, limiter, adjustable attack and release times, delay and phase inversion;
- Bessel, Butterworth or Linkwitz-Riley type crossover filters with slope of up to 48 dB/oct;
- Back-lit LCD display with 2x20 characters and rotary encoder knobs for the menus;
- Complete protection against short circuits, overloads, overheating, anti-bump and direct current in output;
- Peecker Sound TQM.

The Peecker Sound **PSDSP** amplifiers, available in *three* models differentiated according to power levels (**PSDSP2000**, **PSDSP2600** and **PSDSP3400**), are conceived to merge both high performance with the latest digital technology in the audio signal management. All the models feature a 24-bit *Digital Signal Processor (DSP)* and dynamic range of up to 116 dB which enables remote control from PC of all the acoustic parameters of the powered speakers, including fully parametric three-band equalization, limiter function, crossover, delay control and so on. Therefore, by connecting a personal computer to a serial port, the amplifier can be “programmed” in order to obtain the best speaker setting according to the type of use. It is necessary only to install the **PSDSP\_6** software that can be found in the CD-ROM provided with each Peecker Sound amplifier of this series, download from the website the *.dat* files of each speaker to be driven (on the specific product page) and then import them as program sources. By simply entering the dedicated ID it is possible to handle a network of devices – up to *255 units* – connected in cascade.

The amplifiers come complete with back-lit display on which the user can view the various menus, which are managed using the encoder knob also used for adjusting the output levels, activating a variety of functions, and selecting the desired preset from *20 memories* previously uploaded from PC.

As regards the other technical aspects, the electronic circuitry enables constant power delivery even at high loads, with low heat dissipation and high efficiency; in addition, the power supply is protected against over-voltage, overheating and short circuits. Each power amplifier is completely independent in terms of both electrical and thermal protection; each channel has its own dissipater and independent temperature control that acts directly on the cooling fan.



## PSDSP2000

Stereo power amplifier with DSP

Output Power into 4 Ohm	<b>2×1000 W</b>
Output Power into 8 Ohm	<b>2×650 W</b>
Frequency response	<b>20÷20k Hz (± 0.5 dB)</b>
THD+N	<b>&lt; 0.1% (@1 kHz)</b>
Input gain controls	<b>-∞ ÷ +6 dB</b>
Output circuitry	<b>class AB</b>
DSP on board	<b>24 bit/48 kHz (20 sel. presets)</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (W×H×D)	<b>483 (19")×132 (3RU)×488 mm</b>
Net weight	<b>32 kg</b>



## PSDSP2600

Stereo power amplifier with DSP

Output Power into 4 Ohm	<b>2×1300 W</b>
Output Power into 8 Ohm	<b>2×850 W</b>
Frequency response	<b>20÷20k Hz (± 0.5 dB)</b>
THD+N	<b>&lt; 0.1% (@1 kHz)</b>
Input gain controls	<b>-∞ ÷ +6 dB</b>
Output circuitry	<b>class AB</b>
DSP on board	<b>24 bit/48 kHz (20 sel. presets)</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (W×H×D)	<b>483 (19")×132 (3RU)×488 mm</b>
Net weight	<b>32 kg</b>



## PSDSP3400

Stereo power amplifier with DSP

Output Power into 4 Ohm	<b>2×1700 W</b>
Output Power into 8 Ohm	<b>2×1000 W</b>
Frequency response	<b>20÷20k Hz (± 0.5 dB)</b>
THD+N	<b>&lt; 0.1% (@1 kHz)</b>
Input gain controls	<b>-∞ ÷ +6 dB</b>
Output circuitry	<b>class AB</b>
DSP on board	<b>24 bit/48 kHz (20 sel. presets)</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (W×H×D)	<b>483 (19")×132 (3RU)×488 mm</b>
Net weight	<b>33 kg</b>







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# PS amplifiers + PS266

“Robustness, long-life and high reliability”.

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## APPLICATIONS

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Disco clubs, night clubs, pubs, dine&dance and other dancing venues (*any size*) - Wine/lounge bars and HO.RE.CA. (*Hotels, Restaurants and Cafés*) - Beach clubs, bathing establishments - Casinos, game rooms, cruise ships - Amusement parks, theme parks and circus shows - Multi-purpose halls, sports, recreational and/or cultural venues - Convention and trade show centres - Corporate events - Beauty salons and fitness centres - Other fixed installations (shopping malls, shops, airports, etc.).

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## KEY FEATURES - PS AMPS

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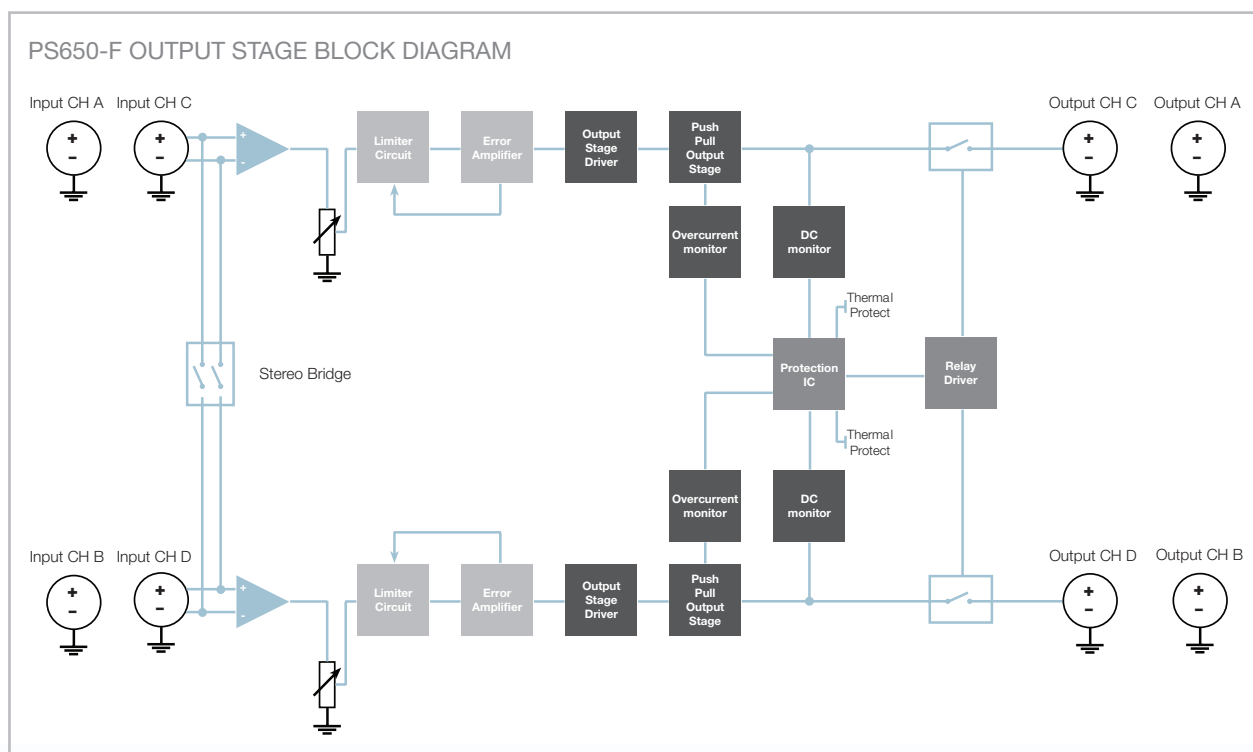
- Output stages: *Class AB*;
- Clip limiter protection against strong intensity signals and anti-bump circuitry;
- Complete protection against short circuits, overloads, overheating and direct current in output;
- Low noise and distortion;
- Efficient cooling system with forced ventilation;
- Peecker Sound TQM.

The **PS series** amplifiers are designed to respond to the specific needs of professional audio that are based on the criteria of maximum reliability and functionality. The amplification stages of each single channel are housed in interchangeable modules that can be easily installed in or removed from the main rack, thanks to the electrical connection using wiring with removable connectors. This enables the immediate replacement of the power stages in the event of a malfunction.

The units are equipped with forced-air ventilation, which is automatically activated when the temperature climbs higher than 60°C.

All the amplifiers of the series are characterized by a special electronic configuration which, at the same output power, is subject to less dissipation, with consequent lower consumption compared to other products of the same market segment.

The amplifiers also feature an internal limiter that can be disabled by means of a dedicated *jumper*, as well as protection against short circuits, overloads or excessively high temperatures. In addition, all the PS series amplifiers include *anti-bump* circuitry and *DC fault* protection on the output to prevent damage to the connected speakers.



## PS1000

Stereo power amplifier

Output Power into 4 Ohm	<b>2x450 W</b>
Output Power into 8 Ohm	<b>2x280 W</b>
Bridged Output Power into 8 Ohm	<b>1x880 W</b>
Frequency response	<b>20÷20k Hz (± 0.5 dB)</b>
THD+N	<b>&lt; 0.1% (@1 kHz)</b>
Input gain controls	<b>-∞ ÷ 0 dB</b>
Output circuitry	<b>class AB</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (WxHxD)	<b>483 (19")x88 (2RU)x388 mm</b>
Net weight	<b>14 kg</b>



## PS1400

Stereo power amplifier

Output Power into 4 Ohm	<b>2x700 W</b>
Output Power into 8 Ohm	<b>2x450 W</b>
Bridged Output Power into 8 Ohm	<b>1x1300 W</b>
Frequency response	<b>20÷20k Hz (± 0.5 dB)</b>
THD+N	<b>&lt; 0.1% (@1 kHz)</b>
Input gain controls	<b>-∞ ÷ 0 dB</b>
Output circuitry	<b>class AB</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (WxHxD)	<b>483 (19")x132 (3RU)x488 mm</b>
Net weight	<b>22 kg</b>



## PS2000

Stereo power amplifier

Output Power into 4 Ohm	<b>2x1000 W</b>
Output Power into 8 Ohm	<b>2x650 W</b>
Frequency response	<b>20÷20k Hz (± 0.5 dB)</b>
THD+N	<b>&lt; 0.1% (@1 kHz)</b>
Input gain controls	<b>-∞ ÷ 0 dB</b>
Output circuitry	<b>class AB</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (WxHxD)	<b>483 (19")x132 (3RU)x488 mm</b>
Net weight	<b>32 kg</b>



## PS2600

Stereo power amplifier

Output Power into 4 Ohm	<b>2×1300 W</b>
Output Power into 8 Ohm	<b>2×850 W</b>
Frequency response	<b>20÷20k Hz (± 0.5 dB)</b>
THD+N	<b>&lt; 0.1% (@ 1kHz)</b>
Input gain controls	<b>-∞ ÷ 0 dB</b>
Output circuitry	<b>class AB</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (W×H×D)	<b>483 (19")×132 (3RU)×488 mm</b>
Net weight	<b>32 kg</b>



## PS3400

Stereo power amplifier

Output Power into 4 Ohm	<b>2×1700 W</b>
Output Power into 8 Ohm	<b>2×1000 W</b>
Frequency response	<b>20÷20k Hz (± 0.5 dB)</b>
THD+N	<b>&lt; 0.1% (@1 kHz)</b>
Input gain controls	<b>-∞ ÷ 0 dB</b>
Output circuitry	<b>class AB</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (W×H×D)	<b>483 (19")×132 (3RU)×488 mm</b>
Net weight	<b>33 kg</b>



## PS650-F

Four-channel stereo amplifier

Output Power into 4 Ohm	<b>4×650 W</b>
Output Power into 8 Ohm	<b>4×300 W</b>
Bridged Output Power into 8 Ohm	<b>2×1200 W</b>
Frequency response	<b>20÷20k Hz (± 0.5 dB)</b>
THD+N	<b>&lt; 0.1% (@1 kHz)</b>
Input gain controls	<b>-∞ ÷ 0 dB</b>
Output circuitry	<b>class AB</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (W×H×D)	<b>483 (19")×132 (3RU)×488 mm</b>
Net weight	<b>30 kg</b>





## PS266

### Digital speaker management system

Input channels	<b>2</b>
Output channels	<b>6</b>
Frequency response	<b>15÷20k Hz (±0.25 dB)</b>
PEQ bands	<b>max 12 for each input/output channel</b>
PEQ width	<b>from 0.05 to 3 octaves (0.05 step)</b>
PEQ gain	<b>from -15 to 15 dB</b>
HPF and LPF shapes	<b>Bessel from 12 to 24 dB/oct, Butterworth from 6 to 48 dB/oct, Linkwitz-Riley from 12 to 48 dB/oct</b>
Delay	<b>max 630 ms (21 µs step)</b>
PC remote control	<b>Digital Speaker software</b>
Power requirements	<b>90-250 VAC, 50-60 Hz</b>
Dimensions (W×H×D)	<b>483 (19")×44 (1RU)×225 mm</b>
Net weight	<b>3 kg</b>

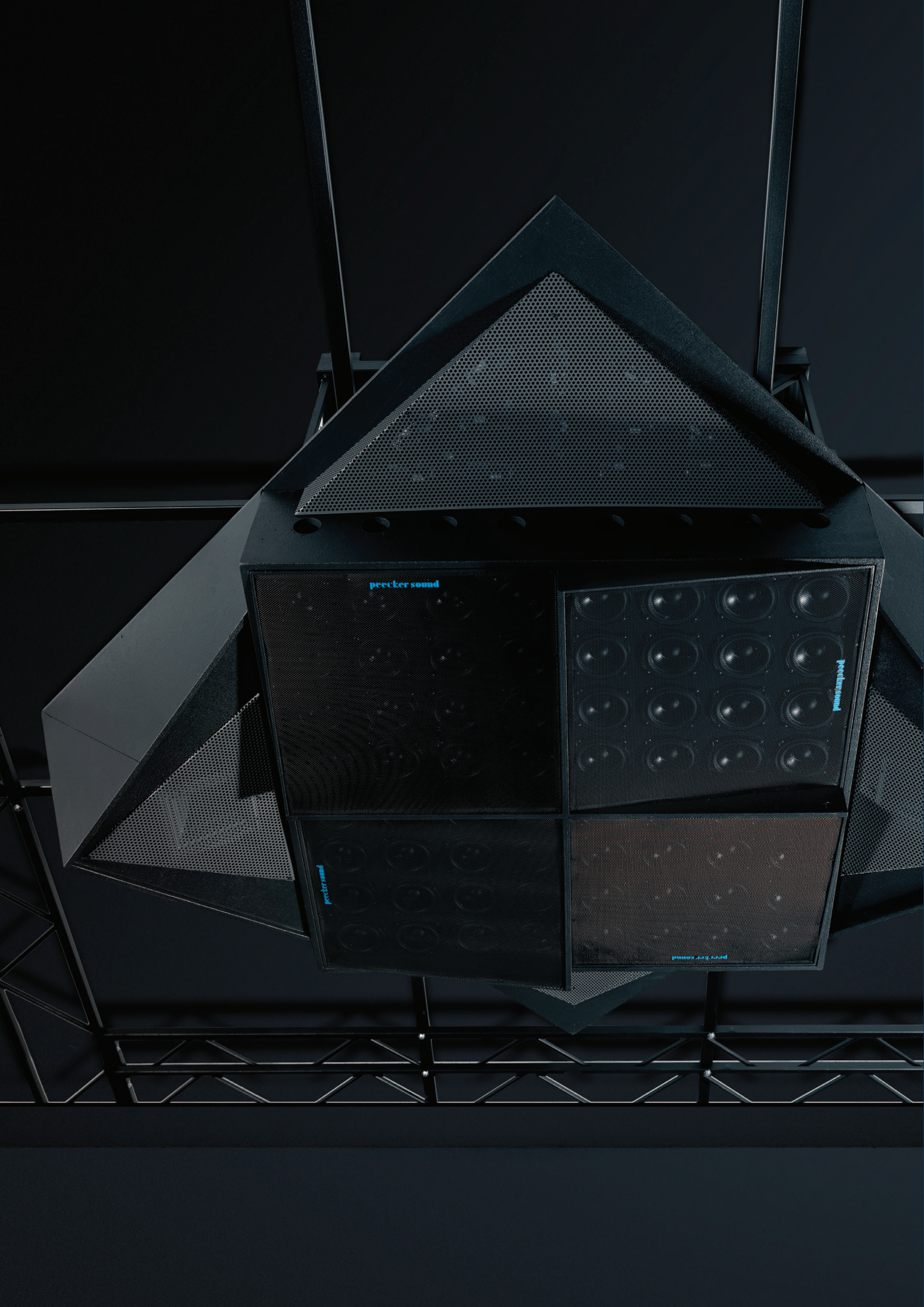
The **PS266 Digital Speaker Management System** is a true "intelligent" processor, the state of the art in professional audio. The PS266 allows the user to configure the reproduced sound using *60 presets*, factory-installed or downloadable by the user from external PC or panel, and obviously performs all the typical audio functions (EQ, frequency cuts, etc.) for conforming and optimizing the response of the speakers to the user's needs in the specific listening environment. The processor comprises a digital electronic device with crossover filters with slope of up to 48 dB/oct that makes it possible to manage audio systems in multi-amplification up to *6-way mono* or *3-way stereo*.

The device is equipped with a LED bar graph for the input section with step indication of the input level (-30 dB, -24 dB, -6 dB, -3 dB) and with the LIMIT and CLIP strings indicating the moment in which the signal reaches or exceeds the applicable threshold or when there is excess gain or EQ on one or more outputs; the LED bar graphs for the output sections provide the same indications referring to the limiter threshold set for each output.

An encoder knob situated on the right of the display is used for fast switching access to the various menus and for modifying the system parameters and/or setting the inputs and outputs, as well as selecting from the 60 user memories one of the presets previously uploaded from PC.

The key features are:

- parametric equalizer with up to 12 bands or shelving EQ on each input and output;
- 60 programmable user memories;
- *Bessel, Butterworth or Linkwitz-Riley* type crossover filters with adjustable frequency (15 Hz - 16 kHz); slope: 6, 12, 18, 24, 48 dB/oct;
- signal delay up to 630 ms (with 21 µs steps) on inputs and outputs;
- limiter with adjustable threshold and automatic attack and release times;
- front panel with controls for channel muting, LED indication for signal level, LCD display and controls for menu navigation;
- anti-tampering security lockout mode (with security password);
- programmable from front panel or from PC via easy-to-use *Graphical User Interface (GUI)*.



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# Double Array series®

“Music inside, silence outside”.

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## APPLICATIONS

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Dance clubs, night clubs, wine/lounge bars (*especially outdoors*) - HO.RE.CA. (*Hotels, Restaurants and Cafés*) - Beach clubs, bathing establishments - Casinos, game rooms, cruise ships - Amusement parks and theme parks - Cinemas (*roof reinforcement*) - Other fixed installations that require acoustic emission control in confined areas or in case of noise pollution problems.

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## KEY FEATURES

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- Patented system **No. 01280080**;
- *Controlled Radiation Beam* (controlled directivity system);
- Possibility to break the system up into sub-modules;
- Dedicated control electronics (limiting guaranteed with AMCL2);
- Possibility to insert strobe lights;
- Cabinet made of quality marine grade plywood with weatherproofing treatment;
- Peecker Sound TQM.



These controlled radiation stereo systems feature the exclusive *double array* configuration and – better than any other conventional speaker – allow the user to concentrate sound emission in a well-defined area. The **Double Array** series is characterized by an exclusive system of loudspeaker positioning – on a *double line* – and makes it possible to obtain an extremely concentrated sound beam along the axis perpendicular to the plane on which the loudspeakers are situated. The low frequency section comprises professional woofers with water-repellent and tropicalized diaphragms, suitable for use also in outdoor environments with high humidity. The mid-high frequency section has two tweeters with controlled directivity horns (90°x75°) and 1” compression drivers. The driver diaphragms are made of carbon fibre and are equipped with special static air pressure equalizers and rephasing devices able to extend the frequency response up to the extreme audible limit.

## AS6

Controlled radiation system with Double Array (bi-dimensional loudspeaker distribution)

Power handling RMS	<b>450 W</b>
Frequency response (-6 dB)	<b>65÷19k Hz</b>
Peak SPL (@1m)	<b>127 dB</b>
Coverage angle (-6 dB)	<b>90° horizontal, 75° vertical</b>
Nominal impedance	<b>6 Ohm</b>
Transducers	<b>LF 6x5”, HF 1x1”- titanium membrane</b>
Crossover frequency	<b>1.8 kHz</b>
Cabinet	<b>birch plywood</b>
Colour	<b>black</b>
Input connectors	<b>2xNL4 speakON</b>
Dimensions (WxHxD)	<b>34.5x77x32.5 cm</b>
Net weight	<b>22 kg</b>



Download DAS + JUMP UP full catalogue at: [www.peeckersound.com](http://www.peeckersound.com)

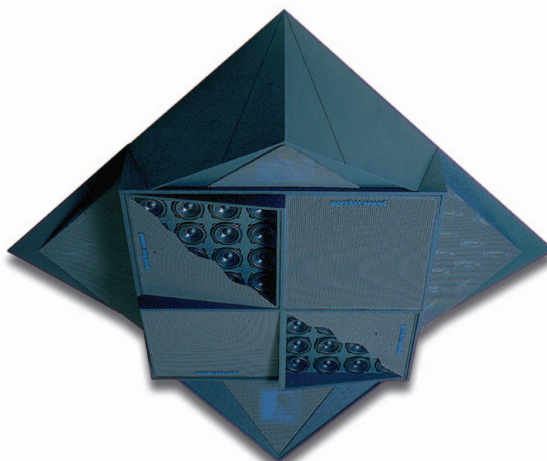


## AS60

Controlled radiation stereo system with Double Array (bi-dimensional loudspeaker distribution)

Power handling RMS	<b>1300+1300 W</b>
Frequency response (-6 dB)	<b>65÷19k Hz</b>
Peak SPL (@1m)	<b>134 dB</b>
Nominal impedance (LF/HF)	<b>8+8 Ohm / 8+8 Ohm</b>
Nominal impedance (with DP60/120)	<b>8+8 Ohm</b>
Transducers	<b>LF 36x5", HF 2x1" titanium membrane</b>
Crossover freq. (with DP60/120)	<b>1.8 kHz</b>
Covered area (@ height = 3.5 m)	<b>35 m<sup>2</sup></b>
High-attenuation distance (-20 dB)	<b>7 m</b>
Patent Number	<b>01280080</b>

Cabinet	<b>birch plywood</b>
Colour	<b>black</b>
Input connectors	<b>2xNL4 speakON</b>
Dimensions (WxHxD)	<b>139x139x47.5 cm</b>
Net weight	<b>182 kg</b>

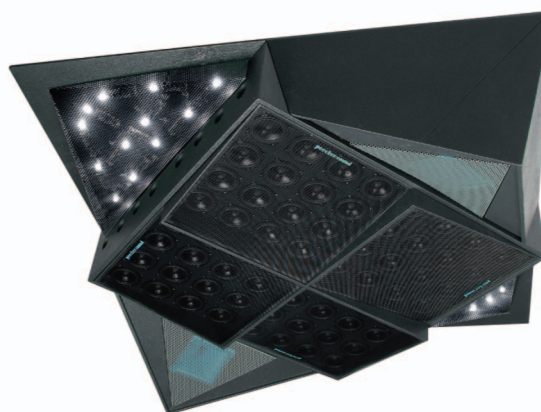


## AS120

Controlled radiation stereo system with Double Array (bi-dimensional loudspeaker distribution)

Power handling RMS	<b>2285+2285 W</b>
Frequency response (-6 dB)	<b>60÷19k Hz</b>
Peak SPL (@1m)	<b>138 dB</b>
Nominal impedance (LF/HF)	<b>8+8 Ohm / 8+8 Ohm</b>
Nominal impedance (with DP60/120)	<b>8+8 Ohm</b>
Transducers	<b>LF 64x5", HF 2x1" titanium membrane</b>
Crossover freq. (with DP60/120)	<b>1.8 kHz</b>
Covered area (@ height = 3.5 m)	<b>55 m<sup>2</sup></b>
High-attenuation distance (-20 dB)	<b>9 m</b>
Patent Number	<b>01280080</b>

Cabinet	<b>birch plywood</b>
Colour	<b>black</b>
Input connectors	<b>2xNL4 speakON</b>
Dimensions (WxHxD)	<b>181.5x181.5x51.5 cm</b>
Net weight	<b>214 kg</b>

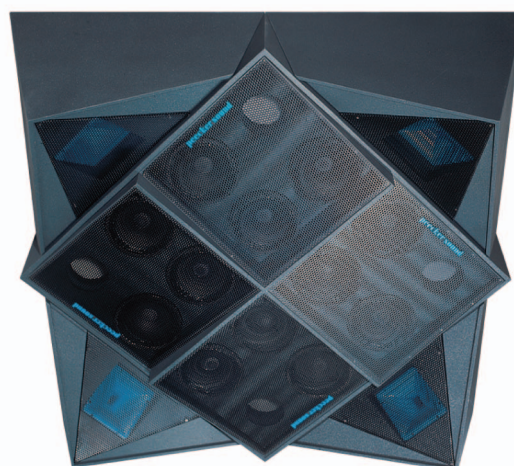


## AS180

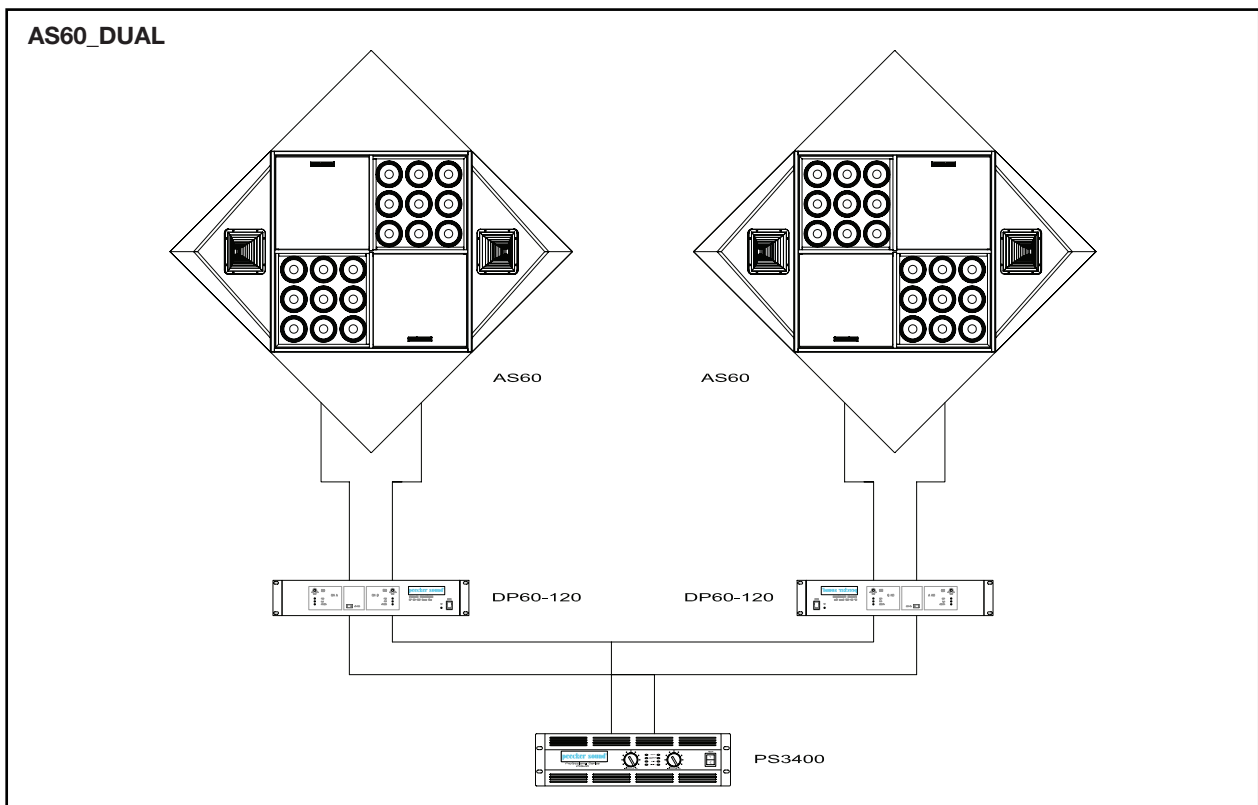
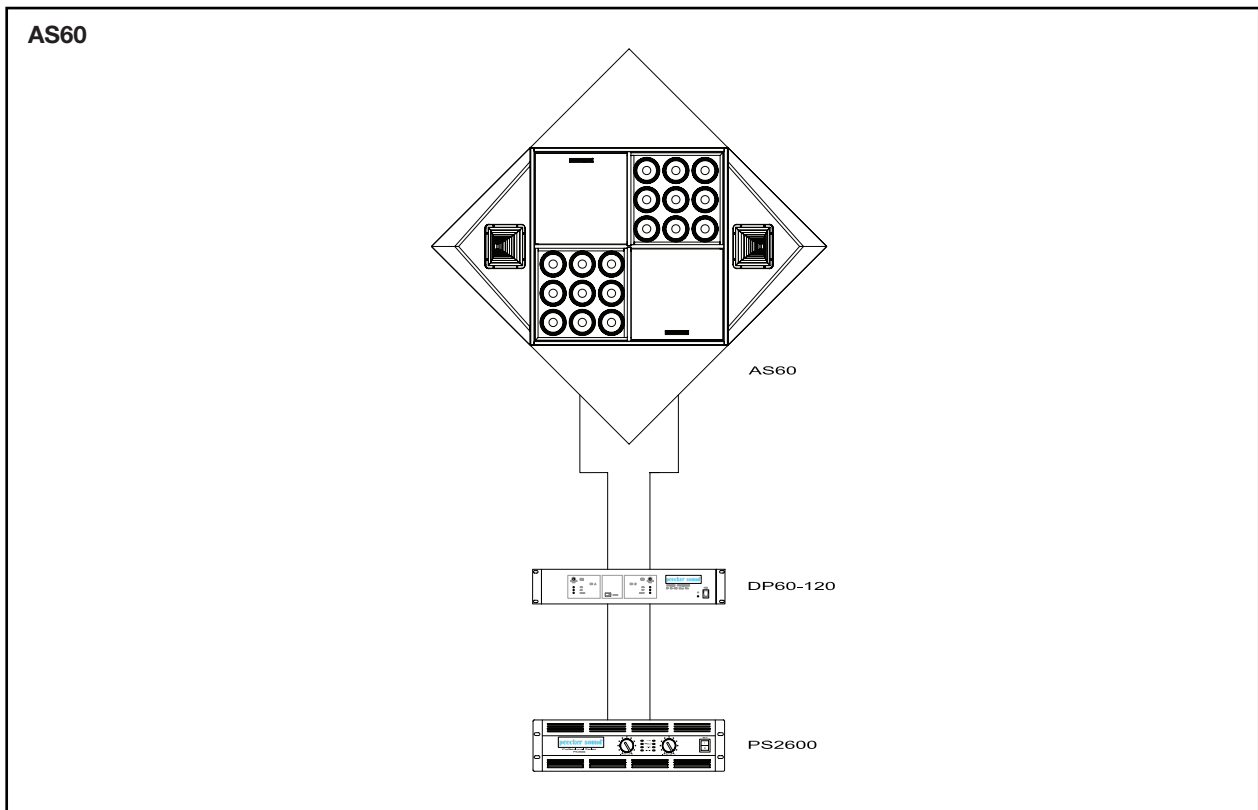
Controlled radiation stereo system with Double Array (bi-dimensional loudspeaker distribution)

Power handling RMS	<b>1600+1600 W</b>
Frequency response (-6 dB)	<b>50÷19k Hz</b>
Peak SPL (@1m)	<b>140 dB</b>
Nominal impedance (LF/HF)	<b>4+4 Ohm / 16+16 Ohm</b>
Nominal impedance (with DP180)	<b>4+4 Ohm</b>
Transducers	<b>LF 12x10" neodymium magnet, HF 4x1" titanium membrane</b>
Crossover freq. (with DP180)	<b>1.8 kHz</b>
Covered area (@ height = 3.5 m)	<b>110 m<sup>2</sup></b>
High-attenuation distance (-20 dB)	<b>13 m</b>
Patent Number	<b>01280080</b>

Cabinet	<b>birch plywood</b>
Colour	<b>black</b>
Input connectors	<b>2xNL4 speakON</b>
Dimensions (WxHxD)	<b>181.5x181.5x58.5 cm</b>
Net weight	<b>194 kg</b>

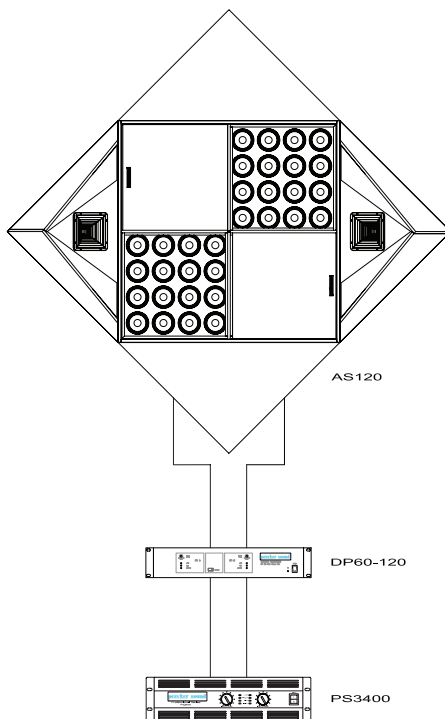


# Double Array series

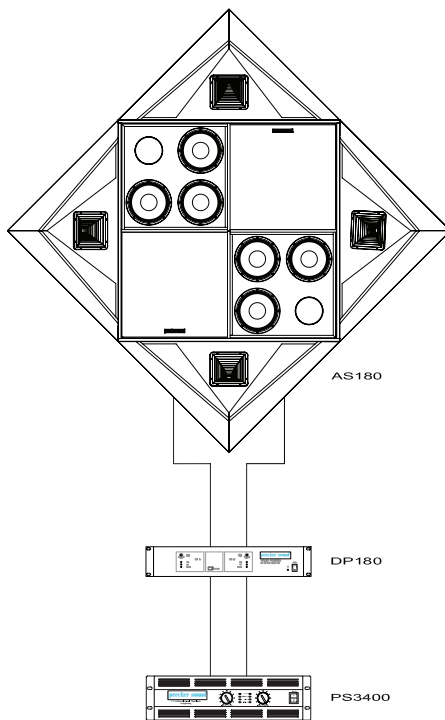


# System configurations

AS120



AS180



More info at: [www.peeckersound.com](http://www.peeckersound.com)

peecker sound

VIBRATIONAL DANCE FLOOR

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# Bone conduction series®

“Having 95 dB, but feeling 120!”

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## APPLICATIONS

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Dance clubs, night clubs, ballroom dancing and other dancing venues (*any size*) - HO.RE.CA. (*Hotels, Restaurants and Cafés*) - Beach clubs, bathing establishments - Casinos, game rooms, cruise ships - Amusement parks and theme parks.

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## KEY FEATURES

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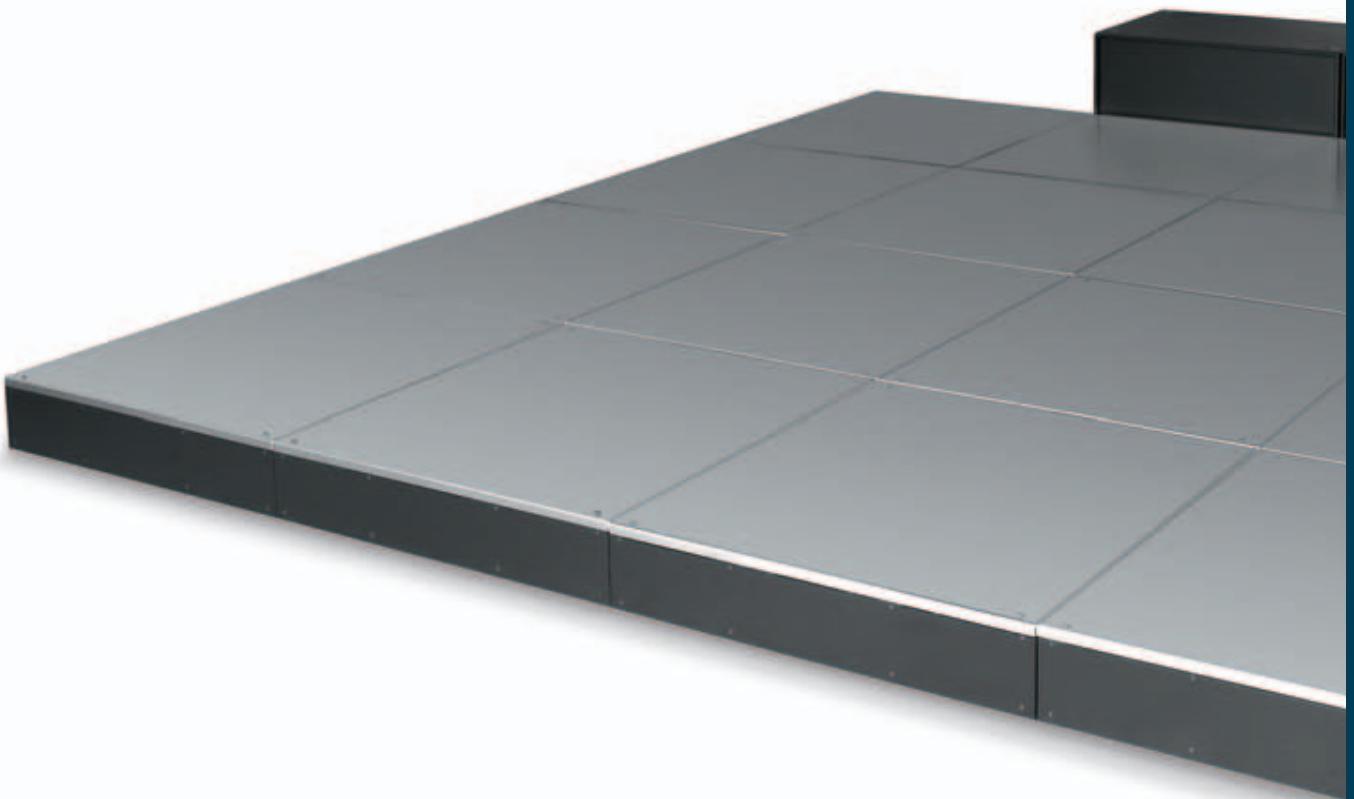
- Patented system **No. 01296753**;
- Efficiency (*Acoustic power/Electric power*) close to 75%;
- Modular structure (modules of 1 square metre each);
- Tread surface in steel or aluminium;
- Electro-dynamic transducers featuring high resistance and efficiency;
- Dedicated control electronics;
- Peecker Sound TQM.



Human beings are able to perceive acoustic signals in *two* ways: the first is by way of the natural auditory canal and the second, much less utilized, by way of the bones. Experiments conducted in military settings as far back as *World War II* showed that even people with auditory canals entirely insulated – e.g. by means of earphones or plugs – were able to perceive acoustic signals.

The **Jump Up** *vibrational dance floor* is designed to produce acoustic sensations transmitted by the rhythmic base of the musical signal without propagating an audible sound wave. Jump Up is the only dance floor that can induce a perfect physical sensation of the sound in compliance with the laws on noise pollution in public venues. In fact, with only 95 dB in your ears and Jump Up under your feet, your body perceives at least 120 dB!

Jump up is versatile and modular, thanks to its sectional modules measuring 1 m x 1 m (W x D). For best effects, use it with **Double Array** series, the *controlled directivity system* capable of concentrating the decibels just on the dance floor. A partnership for a guaranteed effect.

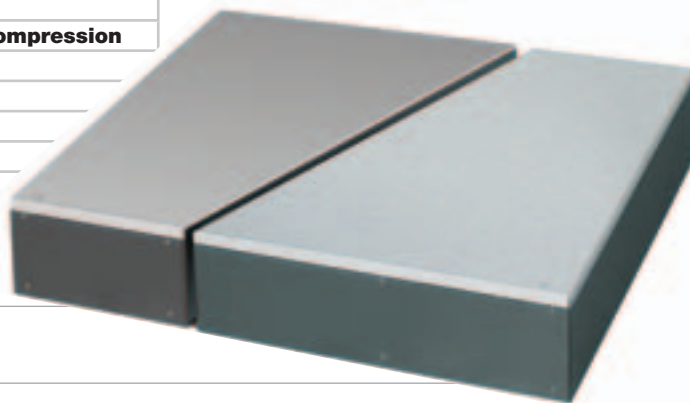


Download DAS + JUMP UP full catalogue at: [www.peeckersound.com](http://www.peeckersound.com)

## J-UpMAL and J-UpMST

Vibrating dance floor module

Trampoline surface (J-UpMAL)	<b>aluminium</b>
Trampoline surface (J-UpMST)	<b>steel</b>
Transducers	<b>electro-mechanical air compression</b>
Patent Number	<b>01296753</b>
Cabinet	<b>stainless steel</b>
Dimensions (WxHxD)	<b>100x19x100 cm</b>
Net weight (J-UpMAL)	<b>10 kg</b>
Net weight (J-UpMST)	<b>11 kg</b>



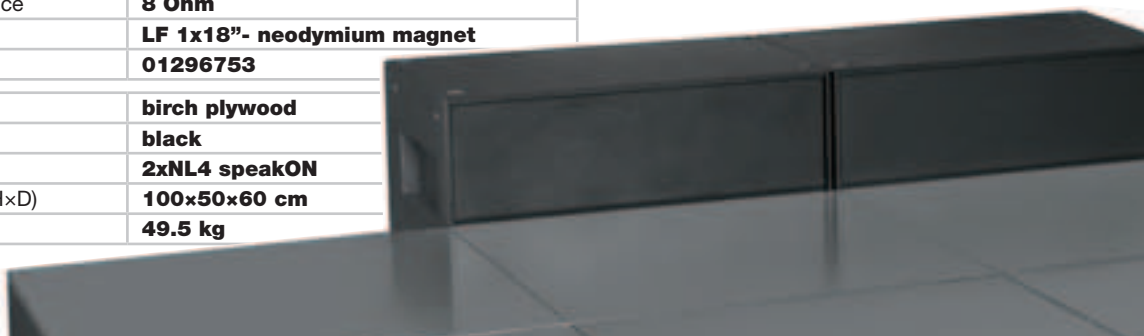
J-UpMAL \_\_\_\_\_

J-UpMST \_\_\_\_\_

## J-UpPM

Band pass electrodynamic compressor

Power handling RMS	<b>1200 W</b>
No. of floor modules controlled (J-UpMAL or J-UpMST)	<b>6 ÷ 9</b>
Frequency response (-6 dB)	<b>20 ÷ 100 Hz</b>
Peak SPL (@1m)	<b>139 dB</b>
Nominal impedance	<b>8 Ohm</b>
Transducers	<b>LF 1x18"- neodymium magnet</b>
Patent Number	<b>01296753</b>
Cabinet	<b>birch plywood</b>
Colour	<b>black</b>
Input connectors	<b>2xNL4 speakON</b>
Dimensions (WxHxD)	<b>100x50x60 cm</b>
Net weight	<b>49.5 kg</b>



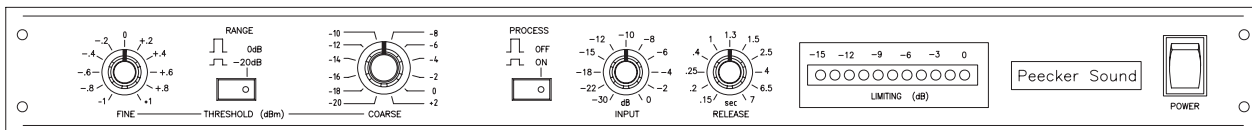
## J-UpDSP

Electronic control management system with DSP

Output Power into 4 Ohm	<b>2x1700 W</b>
Output Power into 8 Ohm	<b>2x1000 W</b>
No. of compressors controlled (J-UpPM)	<b>1 ÷ 4</b>
Frequency response	<b>20 ÷ 20k Hz (± 0.5 dB)</b>
THD+N	<b>&lt; 0.1% (@1 kHz)</b>
Input gain controls	<b>-∞ ÷ +6 dB</b>
Output circuitry	<b>class AB</b>
DSP on board	<b>24 bit/48 kHz (20 sel. presets)</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (WxHxD)	<b>483 (19")x132 (3RU)x488 mm</b>
Net weight	<b>33 kg</b>



# Controllers



These “intelligent” dynamic controllers are able to adapt the sound emission to the physiological characteristics of hearing and to the characteristics of acoustic perception of the human ear in relation to the intensity of the musical signal.

The **AMCL2** is a multi-band device expressly designed to control the sound pressure level in the space. The *Automatic Multiband Controller & Limiter* has been designed as equipment with unitary gain; the reduced number of controls on the front panel facilitates installation and setup. A closure panel with lock prevents any tampering by unauthorized persons, as prescribed by the laws pertaining to limiting noise pollution.

The **DP60/120** and **DP180** units perform the following operations in real time: receiving the musical signal, breaking it up into the various frequencies, comparing the level with the curve of sensitivity of the ear and generating a compensation curve.



## AMCL2 Automatic Multiband Controller & Limiter

Input channels	<b>2</b>
Output channels	<b>2</b>
Nominal input level	<b>0 dBu</b>
Frequency response	<b>16÷100k Hz (-3 dB)</b>
Release time	<b>from 150 ms to 7 s</b>
Limiter threshold range	<b>from -41 dBu to +3 dBu</b>
Crosstalk	<b>- 86 dB (@10 kHz)</b>
SNR	<b>&gt; 90 dB</b>
CMRR	<b>&gt; 66 dB</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (W×H×D)	<b>483 (19")×44 (1RU)×285 mm</b>
Net weight	<b>4.5 kg</b>





## DP60/120

Stereo Dynamic Processor and crossover, specific for AS60 and AS120 speakers

Input channels	<b>2</b>
Output channels	<b>2</b>
Nominal input level	<b>0 dBu</b>
Frequency response	<b>20÷20k Hz (±0.5 dB)</b>
SNR	<b>&gt; 94 dB</b>
Crossover frequency	<b>1.8 kHz</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz</b>
Dimensions (W×H×D)	<b>483 (19")×88 (2RU)×380 mm</b>
Net weight	<b>9 kg</b>



## DP180

Stereo Dynamic Processor and crossover, specific for AS180 speaker

Input channels	<b>2</b>
Output channels	<b>2</b>
Nominal input level	<b>0 dBu</b>
Frequency response	<b>20÷20k Hz (±0.5 dB)</b>
SNR	<b>&gt; 94 dB</b>
Crossover frequency	<b>1.8 kHz</b>
Power requirements	<b>230 VAC ± 10%, 50-60 Hz</b>
Dimensions (W×H×D)	<b>483 (19")×88 (2RU)×380 mm</b>
Net weight	<b>9 kg</b>



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# Omni-directional noise source

“The best instrument for professionals in acoustics”.

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## APPLICATIONS

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Architectural and construction acoustics - Soundproofing - Acoustic absorption - Measurement of acoustic parameters and evaluation of listening spaces and public performance venues.

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## KEY FEATURES

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- Compliance with the legal requirements for the issue of acoustic certifications;
- Possibility of connection to a PC;
- Wireless remote control;
- Dedicated flight-cases for both the speaker and the amplifier;
- Peecker Sound TQM.

The Peecker Sound **JA12** dodecahedron sound source is designed to have omni-directional emission and therefore complies with the UNI EN ISO 140-3:2006 and UNI EN ISO 3382:2001 standards. Its typical application is in measuring parameters for architectural acoustics: soundproofing, acoustic absorption, measurement of reverberation time, of the pulse response and of the acoustic parameters of performance venues. The speaker complies with the passive acoustic requirements for buildings (Italian D.P.C.M. 5/12/1997) and makes it possible to deliver a full 122 dB of continuous acoustic power. The dedicated **JA1060** amplifier can supply up to 1060 W of power into the JA12 impedance and has a pink noise generator that can be remotely activated using an optional remote control. The amplifier case acts as a base, with a specific hole for fitting the JA12 stand.



## **JA12** Omni-directional noise source

Power handling RMS	<b>180+180 W</b>
Frequency response (-6 dB)	<b>90÷19k Hz</b>
Maximum Acoustic Power RMS	<b>122 dB (@ 10<sup>-12</sup> W)</b>
Nominal impedance	<b>6+6 Ohm</b>
Transducers	<b>12x5" full range</b>
Regulations conformity	<b>UNI EN ISO 140-3:2006, UNI EN ISO 3382:2001</b>
Cabinet	<b>birch plywood</b>
Colour	<b>black</b>
Input connectors	<b>1xNL4 speakON</b>
Dimensions (W×H×D)	<b>38×38.5×38 cm</b>
Net weight	<b>9 kg</b>



## JA1060

Class D power amplifier with white/pink noise generator

Power Output	<b>1060 W (@12 Ohm)</b>
Noise digital waveform generator	<b>white/pink</b>
Frequency response	<b>20÷20k Hz (±0.5 dB)</b>
Amplifier input sensitivity	<b>0 dBu</b>
THD+N	<b>&lt; 0.1% (@1 kHz)</b>
Amplifier input connector	<b>Neutrik Combo</b>
Amplifier output connector	<b>Neutrik NL4 speakON</b>
Generator output connector	<b>Neutrik XLR</b>
Power requirements	<b>230 VAC ±10%, 50-60 Hz (24V-17A optional)</b>
Dimensions (WxHxD)	<b>58x55x53 cm (flight case with JA1060 inside)</b>
Net weight	<b>34 kg (flight case with JA1060 inside)</b>



## JAGR01

Portable white/pink noise generator

Noise waveform generator	<b>white/pink</b>
Frequency response	<b>40÷22k Hz (-3 dB)</b>
Output level	<b>-∞ ÷ 0 dB</b>
Output impedance	<b>50 Ohm, electronically unbalanced</b>
Output connector	<b>Neutrik XLR</b>
Power requirements	<b>12 VDC</b>
Dimensions (WxHxD)	<b>182x40x110 mm</b>
Net weight	<b>850 g</b>

# JA12 accessories



①



⑥



④



②



③



⑦

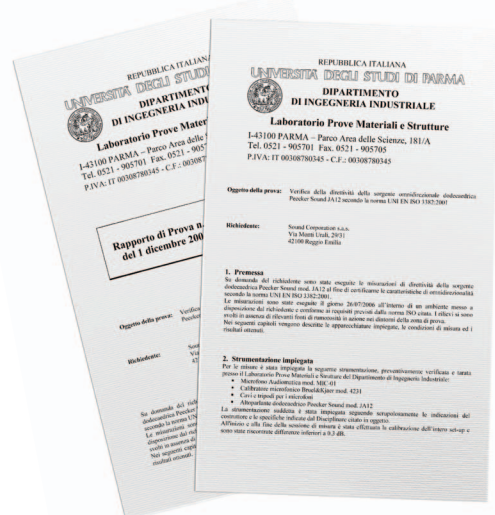
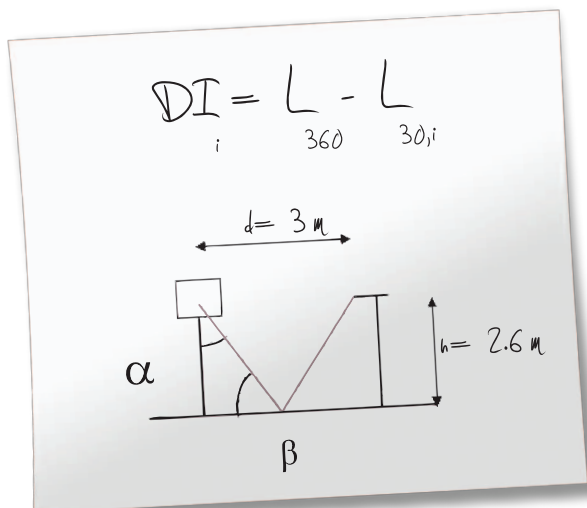
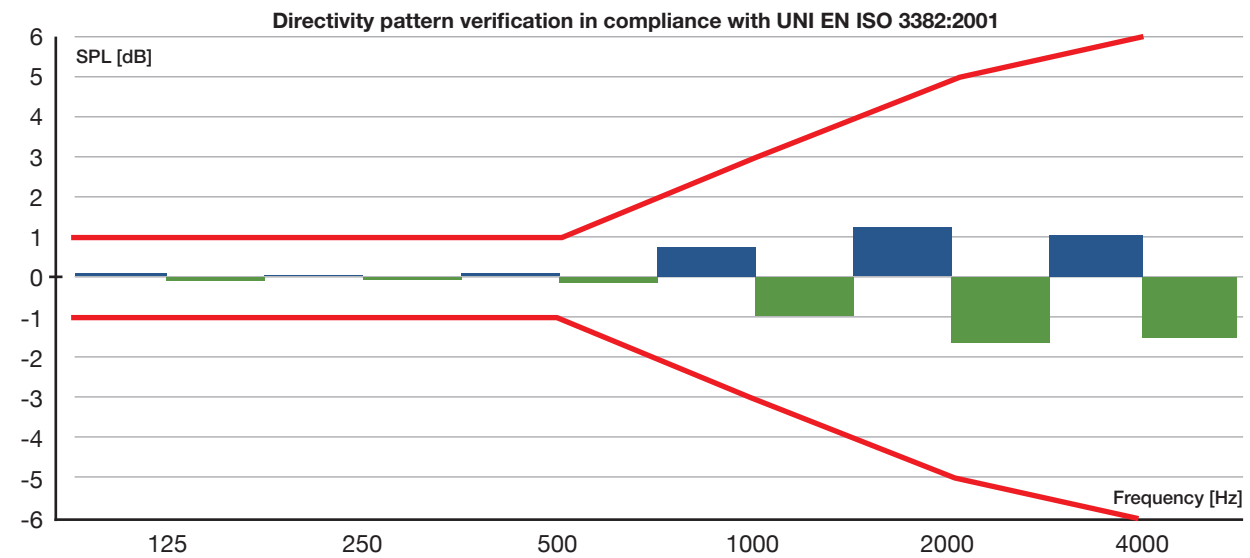
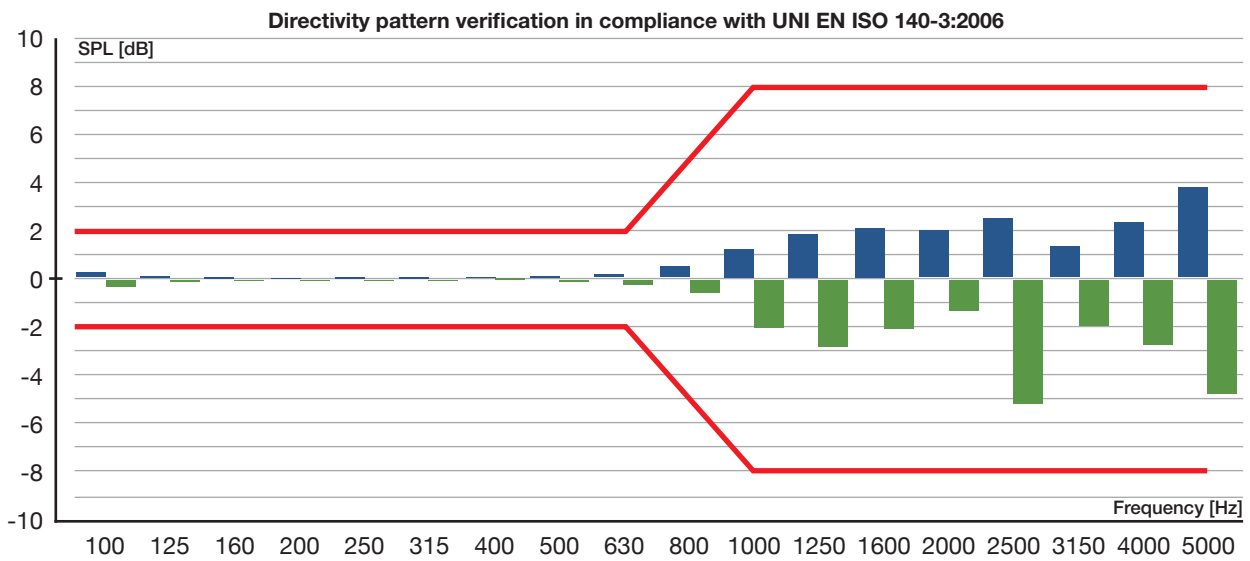


⑤

- ① **PS-ST100** - Adjustable-height stand holder for flight case-JA12 connection
- ② **PS-ST125** - Adjustable-height three-legged stand for JA12 loudspeaker system
- ③ **JA-BT** - Battery supply kit for JA1060 amplifier
- ④ **JA-RC** - Wireless remote control kit for JA1060 amplifier
- ⑤ **FC-JA12** - Professional flight-case made of phenolyc plywood with foam inside. It is dedicated to JA12 speaker
- ⑥ **FC-JA1060** - Professional flight-case made of phenolyc plywood with foam inside and equipped with castors.  
It is dedicated to JA1060 amplifier and prearranged for PS-ST100 stand holder
- ⑦ **FCJA-BT** - Professional flight-case made of phenolyc plywood with foam inside. It is dedicated to JA-BT battery supply kit. The package includes 4 *Lithium* batteries

# JA12 certifications

Limit  
Measured values



# Product series



## APPLICATIONS

## UPTURNED T

## FORTY

Concert & Touring events	<input checked="" type="checkbox"/> <sup>1</sup> (small scale)	
Open air events, mobile festivals, etc.	<input checked="" type="checkbox"/> <sup>1</sup> (small scale)	<input checked="" type="checkbox"/> <sup>3</sup> (small-medium scale)
Portable systems for musicians, bands and entertainers	<input checked="" type="checkbox"/> <sup>1</sup> (small-medium scale)	<input checked="" type="checkbox"/> <sup>3</sup> (medium scale)
Rehearsal studios and demo rooms	<input checked="" type="checkbox"/> <sup>1</sup>	<input checked="" type="checkbox"/>
Live music clubs, music pubs and other venues with live music	<input checked="" type="checkbox"/> <sup>1</sup> (small-medium size)	
Dance clubs, night clubs and other dancing venues	<input checked="" type="checkbox"/> <sup>2</sup> (any size)	<input checked="" type="checkbox"/> (any size)
Wine/lounge bar and HO.RE.CA. (Hotel, Restaurant and Cafés)	<input checked="" type="checkbox"/> <sup>2</sup>	<input checked="" type="checkbox"/>
Beach clubs and bathing establishments		<input checked="" type="checkbox"/>
Casinos, game rooms and cruise ships	<input checked="" type="checkbox"/> <sup>2</sup>	<input checked="" type="checkbox"/> <sup>4</sup>
Amusement parks, theme parks and circus shows		<input checked="" type="checkbox"/>
Cinemas	<input checked="" type="checkbox"/> (and home theater)	
Places of worship	<input checked="" type="checkbox"/> <sup>1</sup>	
Multi-purpose halls, sports, recreational and/or cultural facilities	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Convention and trade show centres	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <sup>4</sup>
A/V corporate events	<input checked="" type="checkbox"/> <sup>1</sup>	<input checked="" type="checkbox"/> <sup>3</sup>
Multimedia installations for festivals, exhibitions and other events	<input checked="" type="checkbox"/>	
Beauty salons and fitness centres	<input checked="" type="checkbox"/> <sup>2</sup>	<input checked="" type="checkbox"/> <sup>4</sup>
Other fixed installations (shops, shopping malls, etc.)	<input checked="" type="checkbox"/> <sup>2</sup>	<input checked="" type="checkbox"/> <sup>4</sup>
Acoustic measurement and sound radiation control		
Architectural acoustics		

<sup>1</sup> PSUT8TE, PSUT8AE + PSUTBASE/A

<sup>2</sup> PSUT1 + PSUTS

<sup>3</sup> 4012MH/A, 4015MH/A, 4030MH/A + 40SW15/A, 40SW18/A

<sup>4</sup> 4008, 4010MH



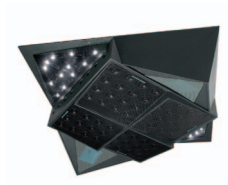
# Comparison chart



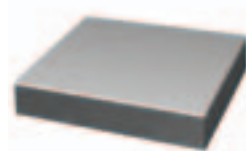
**PSDSP AMPS**



**PS AMPS  
+ PS266**



**DOUBLE  
ARRAY**



**JUMP UP**





**OMNI  
DIRECTIONAL**

PSDSP AMPS	PS AMPS + PS266	DOUBLE ARRAY	JUMP UP	OMNI DIRECTIONAL
<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/> (any size)	<input checked="" type="checkbox"/> (any size)	<input checked="" type="checkbox"/> (any size)	<input checked="" type="checkbox"/> (any size)	
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> (roof sound reinforcement)		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
	<input checked="" type="checkbox"/>			
	<input checked="" type="checkbox"/>			
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
				<input checked="" type="checkbox"/>



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**- since 1977 -**

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