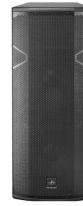


D A S VANTEC 15 15 Inch Bi-Amped High Output 2 Way Speaker



D A S VANTEC 15 15 Inch Bi Amped High Output 2 Way Speaker User Manual

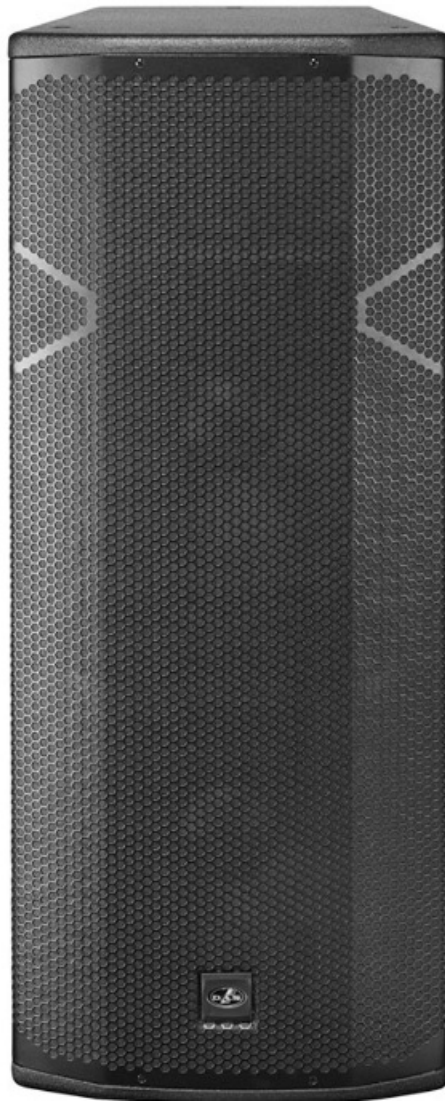
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D A S VANTEC 15 15 Inch Bi-Amped High Output 2 Way Speaker



Product Information

Specifications

- **Model:** vanteq series
- **Product Manual:**
- **Class:** Class II
- **IP Rating:** IP-20
- **Warranty:** 2 years from date of purchase

Configurations

- **2x** vanteq 12 (vanteq 15) + 1x vanteq 18
- **2x** vanteq 12 (vanteq 15) + 2x vanteq 18
- **2x** vanteq 215

Rigging System

- The appliance should be flown only from the rigging points and by qualified personnel. Do not suspend the box from the handles.

- Note that the two Speakon input connectors are wired in parallel to provide easy parallel connection of several enclosures.
- For enclosures with tripod sockets, the maximum safety height from floor to bottom of the enclosure when mounting on a TRD-2 tripod, with legs spread 55cm from the central pole, is:
- **Vantec-12** – 115 cm
- **Vantec-15** – 105 cm

Safety Precautions

- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not expose this device to rain or moisture.
- Do not place any objects containing liquids, such as bottles or glasses, on the top of the unit.
- Do not splash liquids on the unit.
- Do not place loudspeakers in proximity to devices sensitive to magnetic fields such as television monitors or data storage magnetic material.
- Do not place loudspeakers in proximity to devices sensitive to magnetic fields such as television monitors or data storage magnetic material.
- Clean only with a dry cloth. Do not use any solvent-based cleaners.

Declaration of Conformity

- The double square indicates a Class II device. The specifications can be found on the rear label of the product.
- The outer wiring connected to the device requires installation by an instructed person or the use of a flexible cable already prepared.
- This symbol on the product indicates that this product should not be treated as household waste.
- Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

Warranty

- All D.A.S. products are warrantied against any manufacturing defect for 2 years from the date of purchase.
- The warranty excludes damage from incorrect use of the product.
- All warranty repairs must be exclusively undertaken by the factory or any of its authorized service centers.
- To claim a warranty repair, do not open or intend to repair the product.
- Return the damaged unit, at shipper's risk and freight prepaid, to the nearest service center with a copy of the purchase invoice.

Product Usage Instructions

Rigging Instructions

1. Ensure that the rigging points are securely fastened and suitable for the weight of the Vantec series.

2. Use only qualified personnel to fly the appliance from the rigging points.
3. Do not suspend the box from the handles.

Cleaning Instructions

1. Clean the Vantec series only with a dry cloth.
2. Do not use any solvent-based cleaners as they may damage the surface of the unit.

Safety Guidelines

1. Keep these instructions, heed all warnings, and follow all instructions provided in the manual.
2. Do not expose the Vantec series to rain or moisture.
3. Do not place any objects containing liquids on top of the unit.
4. Avoid splashing liquids on the unit.
5. Keep loudspeakers away from devices sensitive to magnetic fields such as television monitors or data storage magnetic material.

Speaker Placement

1. Place the Vantec series at a suitable distance from devices sensitive to magnetic fields.
2. For enclosures with a tripod socket, ensure that the maximum safety height from floor to bottom of the enclosure is maintained when mounting on a TRD-2 tripod.

Servicing and Repairs

1. No user-serviceable parts are inside the Vantec series. Refer all servicing to qualified service personnel.
2. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Disposal

1. Do not treat the Vantec series as household waste. Instead, hand it over to the applicable collection point for the recycling of electrical and electronic equipment.

Frequently Asked Questions (FAQ)

Q: What is the warranty period for the Vantec series?

- **A:** The warranty period for the Vantec series is 2 years from the date of purchase.

Q: Can I clean the Vantec series with solvent-based cleaners?

- **A:** No, you should only clean the Vantec series with a dry cloth. Solvent-based cleaners may damage the surface of the unit.

Q: Can I mount the Vantec series on a TRD-2 tripod?

- **A:** Yes, you can mount enclosures with a tripod socket on a TRD-2 tripod. Ensure that the maximum safety height from the floor to the bottom of the enclosure is maintained when mounting.

Q: Can I open and repair the Vantec series myself?

- **A:** No, there are no user-serviceable parts inside the Vantec series. All servicing should be done by qualified service personnel.
- Before operating the device, please read the "Safety Precautions" section of this manual. Retain this manual for future reference.

Safety Precautions



- Keep these instructions.
- Heed all warnings. Follow all instructions.
- The exclamation point inside an equilateral triangle indicates the existence of internal components whose substitution may affect safety.



- The double square indicates a Class II device
- The specifications can be found on the rear label of the product.
- The appliance should be flown only from the rigging points and by qualified personnel. Do not suspend the box from the handles.
- Do not expose this device to rain or moisture. Do not place any objects containing liquids, such as bottles or glasses, on the top of the unit. Do not splash liquids on the unit. IP-20 equipment.

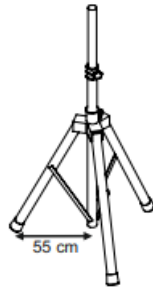


- This symbol on the product indicates that this product should not be treated as household waste.
- Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.
- Working temperature ranges from -25°C to 45°C. The maximum relative humidity of 95%.
- The outer wiring connected to the device requires installation by an instructed person or the use of a flexible cable already prepared.
- **Note** that the two Speakon input connectors are wired in parallel to provide easy parallel connection of several enclosures.



- Do not place loudspeakers in proximity to devices sensitive to magnetic fields such as television monitors or data storage magnetic material.
- For enclosures with tripod sockets, the maximum safety height from floor to bottom of the enclosure when mounting on a TRD-2 tripod, with legs spread 55cm from the central pole, is

- **vantec-12** —————>115 cm
- **vantec-15** —————>105 cm



- No user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Servicing is required when the apparatus has been damaged in any way, such as a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
- Clean only with a dry cloth. Do not use any solvent-based cleaners.

WARRANTY

- All D.A.S. products are warrantied against any manufacturing defect for 2 years from the date of purchase.
- The warranty excludes damage from incorrect use of the product.
- All warranty repairs must be exclusively undertaken by the factory or any of its authorized service centers.
- To claim a warranty repair, do not open or intend to repair the product.
- Return the damaged unit, at shipper risk and freight prepaid, to the nearest service center with a copy of the purchase invoice.

DECLARATION OF CONFORMITY

Declares that Vantec series:

- Abide by essential objectives relating Directives
- Directiva de Baja Tensión (Low Voltage Directive) 2006/95/CE
- Directiva de Compatibilidad Electromagnética (EMC) 2004/108/CE
- Directiva RoHS 2011/65/CE
- Directiva RAEE (WEEE) 2002/96/CE

Under Harmonized European Norms:

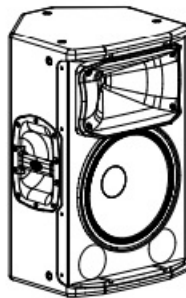
- **EN 60065:2002**
 - Audio, video, and similar electronic apparatus. Safety requirements.
- **EN 55103-1:2009**
 - Electromagnetic compatibility. Product family standard for audio, video, audio-visual, and entertainment lighting control apparatus for professional use. Part 1: Emission.
- **EN 55103-2:2009**
 - Electromagnetic compatibility. Product family standard for audio, video, audio-visual, and entertainment lighting control apparatus for professional use. Part 2: Immunity

INTRODUCTION

The Vantec series inherits the exceptional sound quality and rugged build that have made DAS professional systems an international sound reinforcement standard. Designed from a “real world” experience, they offer users outstanding performance, absolute reliability, and unparalleled convenience. Whether it is in a high-profile venue or on the stage of a major event, the Vantec series will provide the power and definition needed to make your performance a success.

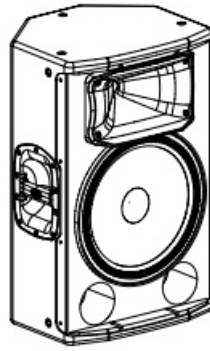
Features vantec 12

- Two-way full-range system
- 12" bass loudspeaker
- Compression driver with titanium diaphragm
- Symmetric enclosure design for stage monitor use
- Built-in rigging points (eyebolt based)
- Stand mountable
- The Vantec 12 is a 2-way passive full-range loudspeaker that utilizes a 12" low-frequency transducer and a 1" exit compression driver.
- The multi-angle cabinet is constructed of Birch plywood protected by an environmentally friendly black paint finish.
- Two bar handles and a steel grille are provided. A 35mm tripod socket allows for stand mounting with two possible angles 0° or – 10°.



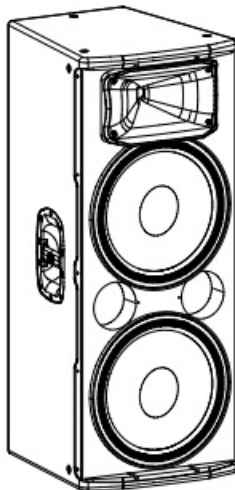
Vantec 15

- wo-way, full-range system
- 15" bass loudspeaker
- Compression driver with titanium diaphragm
- Symmetric enclosure design for stage monitor use
- Built-in rigging points (eyebolt based)
- Stand mountable
- This 2-way passive full-range loudspeaker utilizes a 15" low-frequency transducer and a 1" exit compression driver with a titanium diaphragm. The cabinet is constructed of Birch plywood and finished with an environmentally friendly black paint finish.
- Two bar handles are provided and a steel grille protects components. A 35 mm tripod socket allows for stand mounting with two possible angles 0° or -10°. Rigging points provide a safe and simple solution for suspending the Vantec 15.



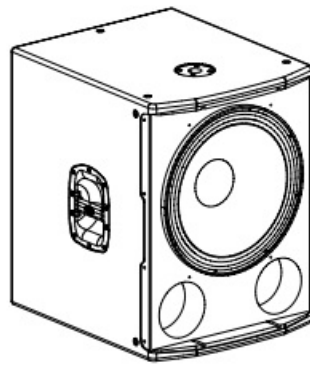
Vantec 215

- Two-way, full-range system
- 2 x 15" bass loudspeaker
- Compression driver with titanium diaphragm
- Built-in rigging points (eyebolt based)
- The Vantec 215 is a 2-way passive full-range loudspeaker that utilizes two 15" bass loudspeakers for extra low-frequency punch and higher SPL. High frequencies are handled by a 1" compression driver with a titanium diaphragm.
- The trapezoidal cabinet is constructed using Birch plywood and protected with a hard-wearing black paint finish.
- Two bar handles and a steel grille sealed against corrosion using a polyamide powder coat finish are provided. Rigging points provide a safe and simple way to fly the Vantec 215 cabinets.

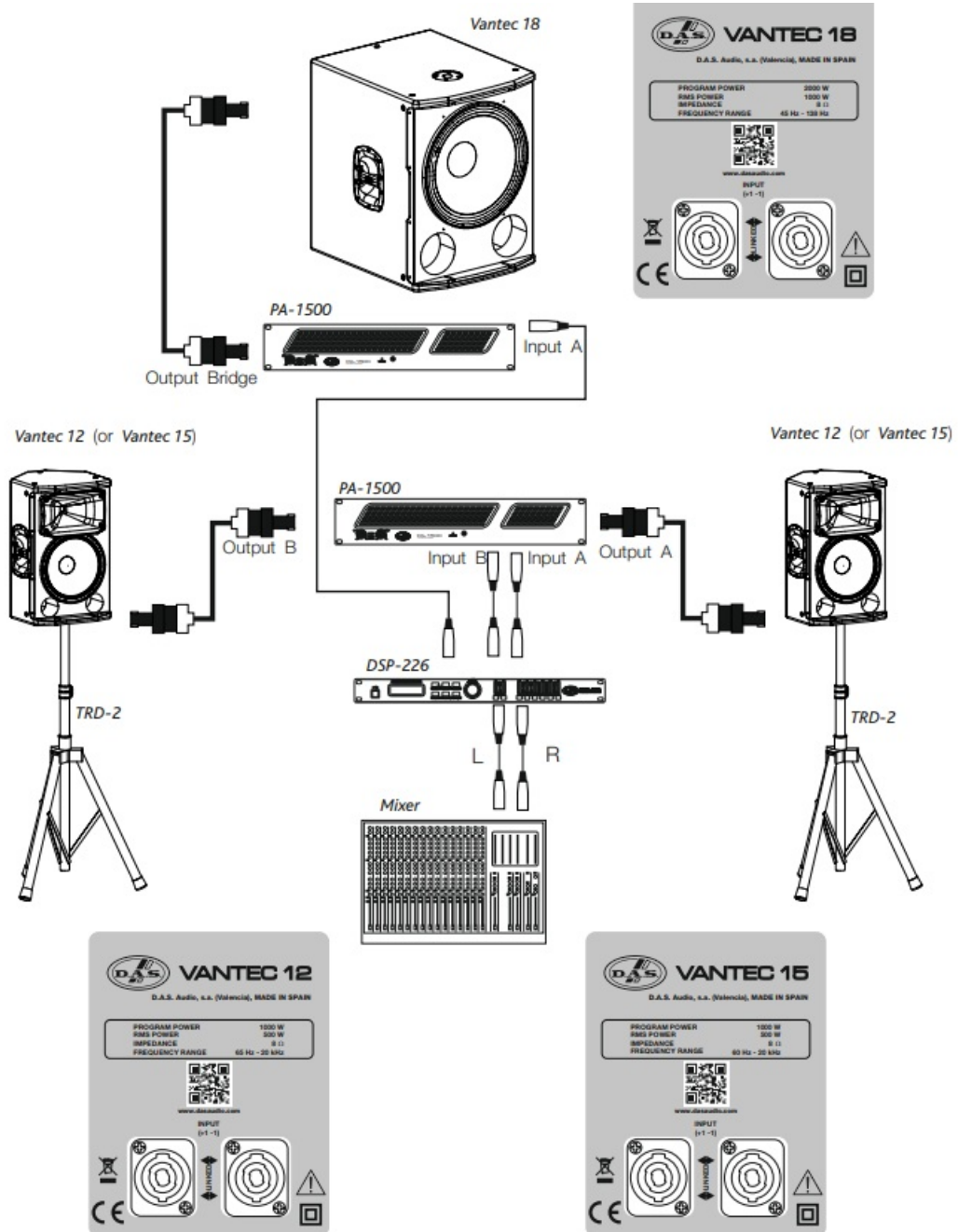


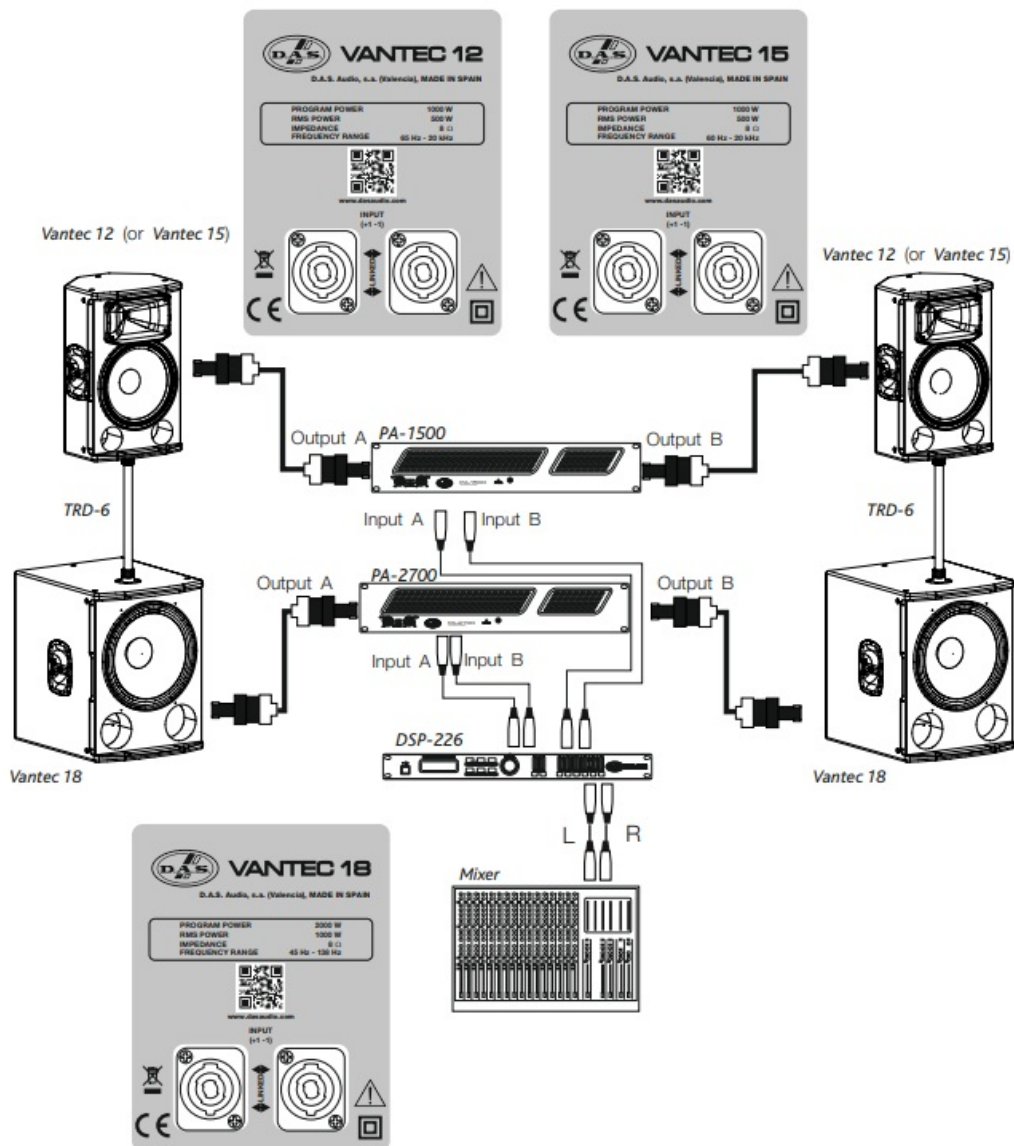
Vantec 18

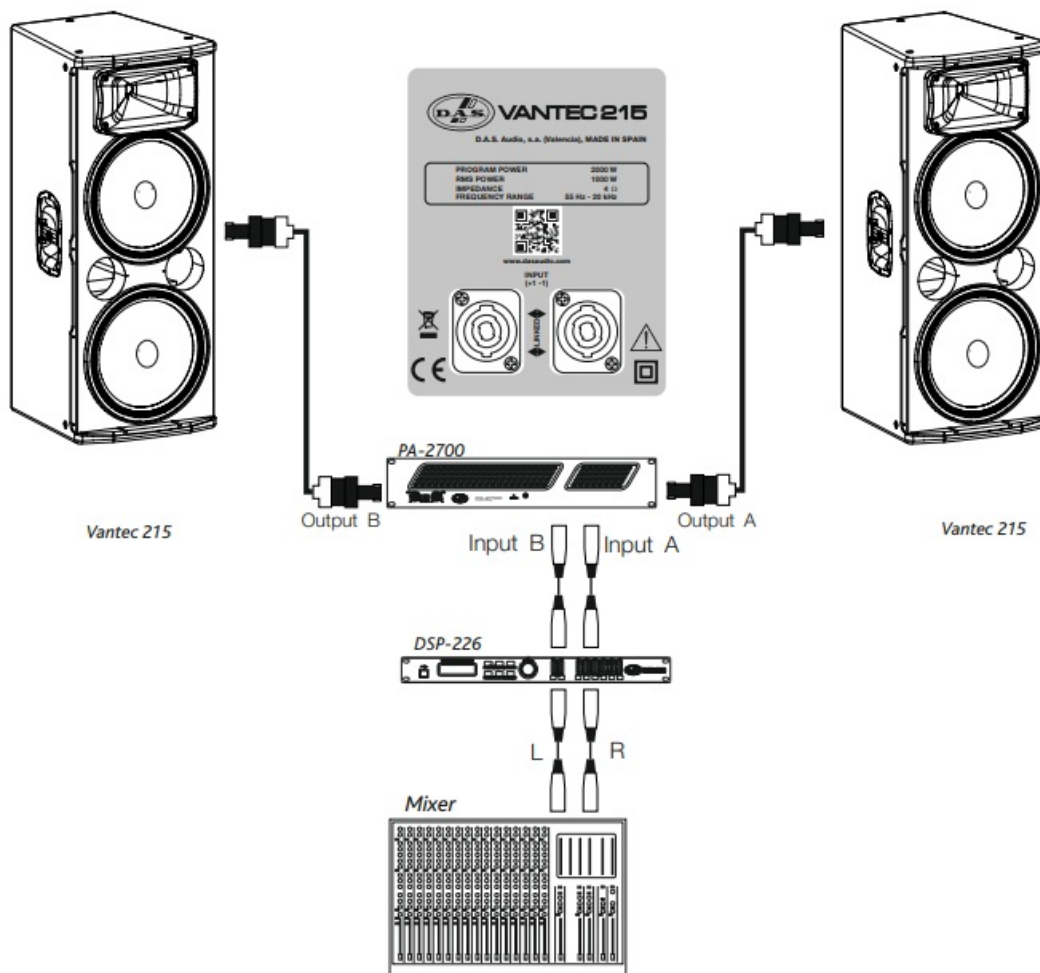
- Bass-reflex subwoofer system
- 18" low-frequency transducer
- Precise and powerful bass reproduction
- Top-located pole mount socket
- The vantec 18 bass system incorporates an 18" low-frequency transducer with a 4 " voice coil mounted as a direct radiator into a bass-reflex cabinet. The loudspeaker is protected by a perforated steel grille, sealed against corrosion using a powder coat finish.
- The vantec 18 is designed for use in bi-amped systems. A top-located pole-mount socket permits mounting range systems above the vantec 18 and two bar handles make moving easy.

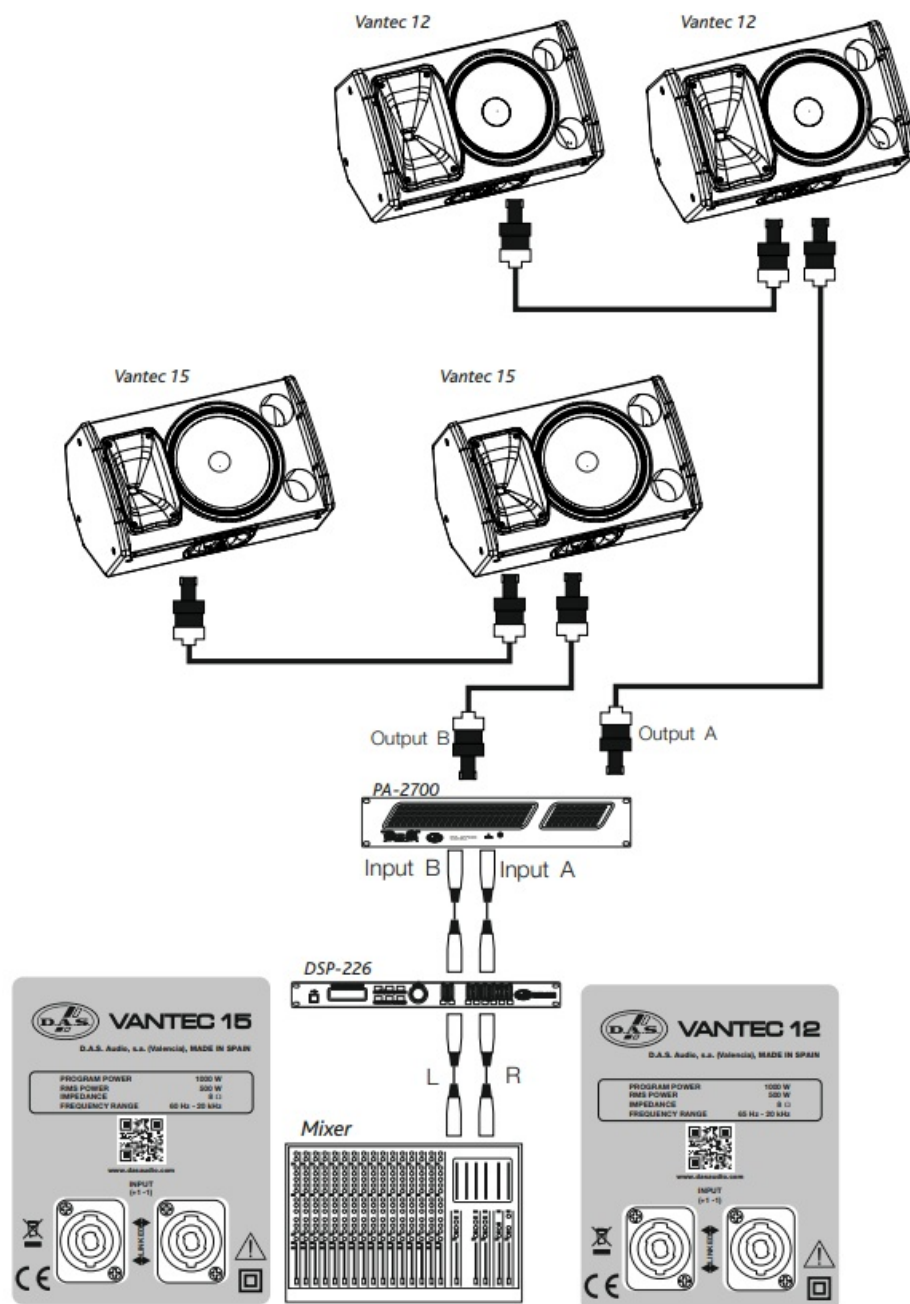


CONFIGURATIONS



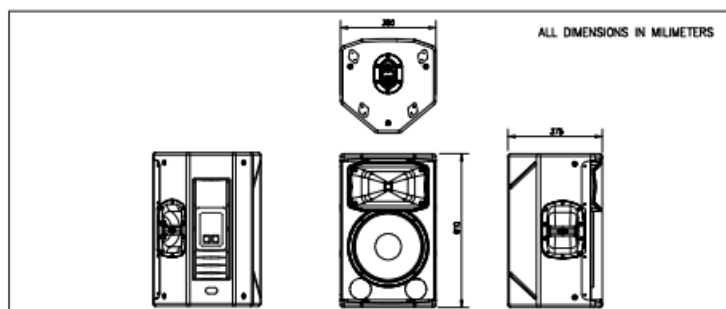




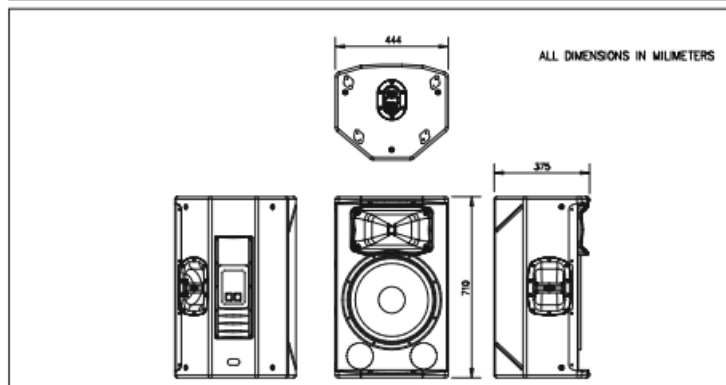


LINE DRAWINGS

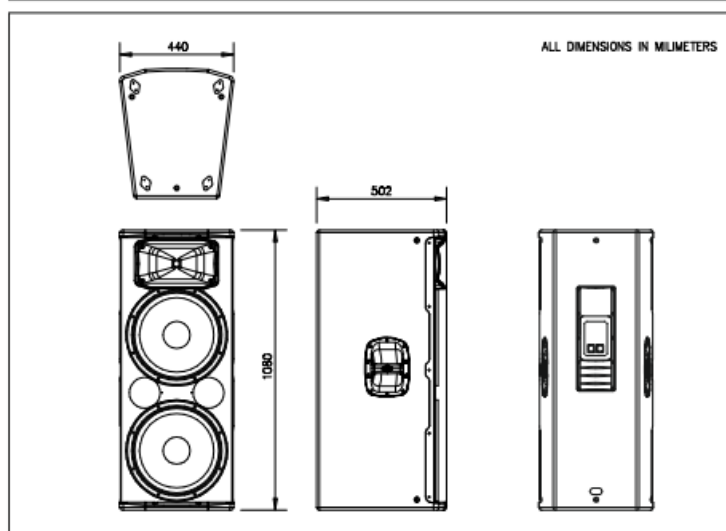
vantec 12



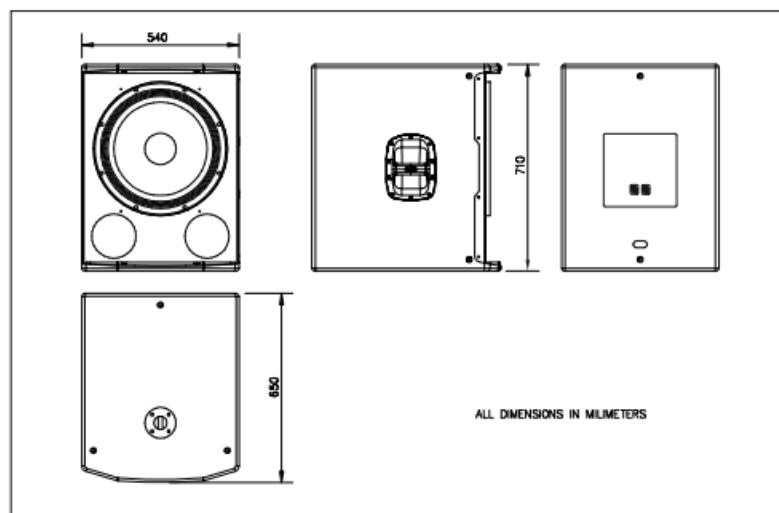
vantec 15



vantec 215



vantec 18



SPECIFICATIONS

Model	vantec 12	vantec 15	vantec 215	vantec 18
Peak Power Handling (-10 dB) RMS Power Handling ⁽¹⁾	2000 W 500 W	2000 W 500 W	4000 W 1000 W	4000 W 1000 W
Frequency Range (-10 dB) HF Horn Coverage Angles(-6dB) On-axis Sensitivity 1 W / 1m	65 Hz - 20 kHz 90° x 50° 98 dB SPL	60 Hz - 20 kHz 90° x 50° 99 dB SPL	55 Hz - 20 kHz 90° x 50° 102 dB SPL	45 Hz - 138 Hz 90° x 50° 98 dB SPL
Rated Maximum Peak SPL Nominal Impedance	135 dB 8 ohms	135 dB 8 ohms	138 dB 4 ohms	134 dB 8 ohms
Transducers/Replacement Parts	LF: 12F / GM 12F HF: M-28 / GM M-28 Birch Plywood Black ISO-flex Paint 2x NL4 Speakon	LF: 15F / GM 15F HF: M-28 / GM M-28 Birch Plywood Black ISO-flex Paint 2x NL4 Speakon	LF: 2x 15F / GM 15F HF: M-28 / GM M-28 Birch Plywood Black ISO-flex Paint 2x NL4 Speakon	LF: 12F / GM 12F HF: M-28 / GM M-28 Birch Plywood Black ISO-flex Paint 2x NL4 Speakon
Enclosure Material Color/Finish Connectors				
Dimensions (H x W x D)	61 x 38 x 37.5 cm 24 x 15 x 14.8 in 19 kg (41.8 lb) ANL-2 Eye Bolt TRD-2 Speaker Stand TRD-6 Pole Mount	71 x 44.4 x 37.5 cm 28 x 17.5 x 14.8 in 22.8 kg (50.2 lb) ANL-2 Eye Bolt TRD-2 Speaker Stand TRD-6 Pole Mount	108 x 44.4 x 50.2 cm 42.5 x 17.5 x 19.8 in 40 kg (88 lb) ANL-2 Eye Bolt	71 x 54 x 65 cm 42.5 x 21.3 x 25.6 in 35 kg (77 lb) ANL-2 Eye Bolt TRD-6 Pole Mount
Weight Accessories				

Notes: (1) Based on a 2-hour test continuously applying 6 dB crest factor pink noise (IEC shaped).

RIGGING

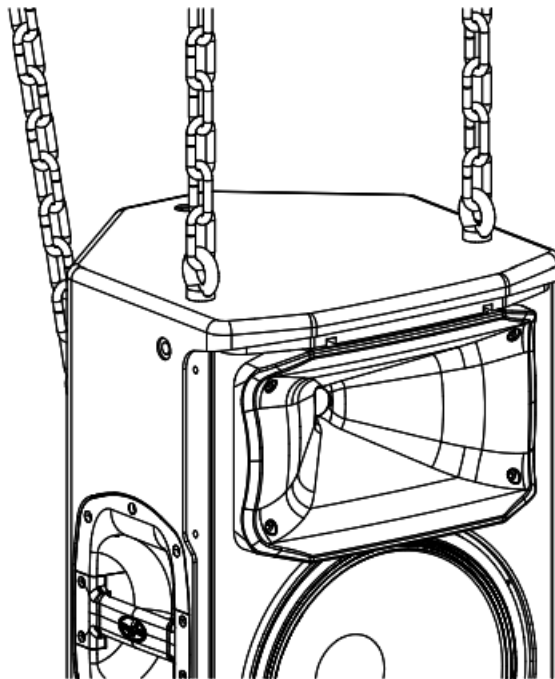
Warnings

- This manual contains needed information for flying D.A.S. Audio cabinets, a description of the elements, and safety precautions.
- To perform any operations related to flying the system, read the present document first, and act on the warnings and advice given.
- The goal is to allow the user to become familiar with the mechanical elements required to fly the acoustic system, as well as the safety measures to be taken during set-up and teardown.
- Only experienced installers with adequate knowledge of the equipment and local safety regulations should fly speaker boxes.
- It is the user's responsibility to ensure that the systems to be flown (including flying accessories) comply with state and local regulations.
- The working load limits in this manual are the results of tests by independent laboratories. It is the user's responsibility to stay within safe limits.
- It is the user's responsibility to follow and comply with safety factors, resistance values, periodical supervision, and warnings given in this manual.
- Product improvement through research and development is ongoing at D.A.S. Specifications are subject to change without notice.
- To this date, there is no international standard regarding the flying of acoustic systems. However, it is common practice to apply 5:1 safety factors for enclosures and static elements.
- For slings and elements exposed to material fatigue due to friction and load variation the following ratios must be met; 5:1 for steel cable slings, 4:1 for steel chain slings, and 7:1 for polyester slings.
- Thus, an element with a breaking load limit of 1000 kg may be statically loaded with 200 kg (5:1 safety factor) and dynamically loaded with 142 kg (7:1 safety factor).
- When flying a system, the working load must be lower than the resistance of each flying point in the enclosure, as well as each box. Hanging hardware should be regularly inspected and suspect units replaced if in doubt.

- This is important to avoid injury and absolutely no risks should be taken in this respect. It is highly recommended that you implement an inspection and maintenance program on flying elements, including reports to be filled out by the personnel who will carry out the inspections. Local regulations may exist that, in case of an accident, may require you to present evidence of inspection reports and corrective actions after defects were found.
- No risks should be taken with regard to public safety. When flying enclosures from ceiling support structures, extreme care should be taken to ensure the load-bearing capabilities of the structures so that the installation is safe. Do not fly enclosures from unsafe structures. Consult a certified professional if needed. All flying accessories that are not supplied by D.A.S. Audio are the user's responsibility. Use at your own risk.

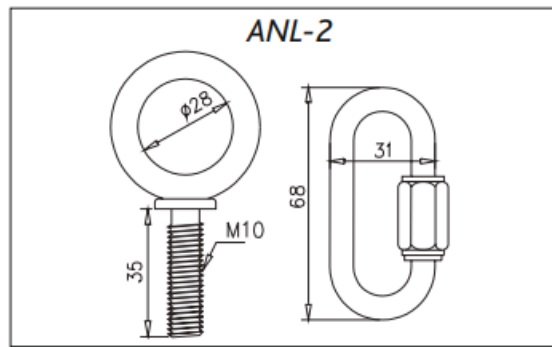
Introduction

- Flyable vantec series models feature 6 internal steel angles, with 2 mounting threads each, so that 12 flying points are available (2 on each side, 3 on the top panel 3 on the bottom panel, and 2 on the rear panel). Eyebolt flying points are factory sealed with M10 screws, which are replaced with eyebolts on the flying points as required. Flying with eyebolts is very economical and safe, and is specially recommended for fixed installations where the boxes are permanently fixed.
- The illustration shows the internal metal hardware of an enclosure with eyebolt flying.

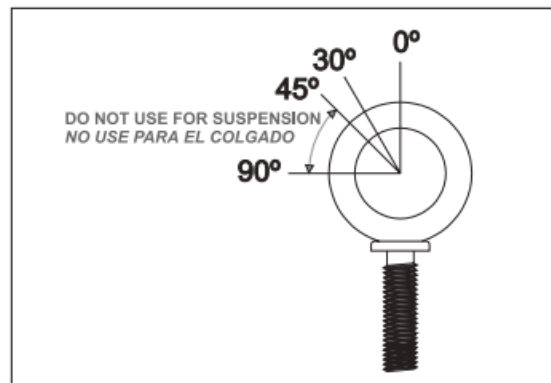


Flying with eyebolts

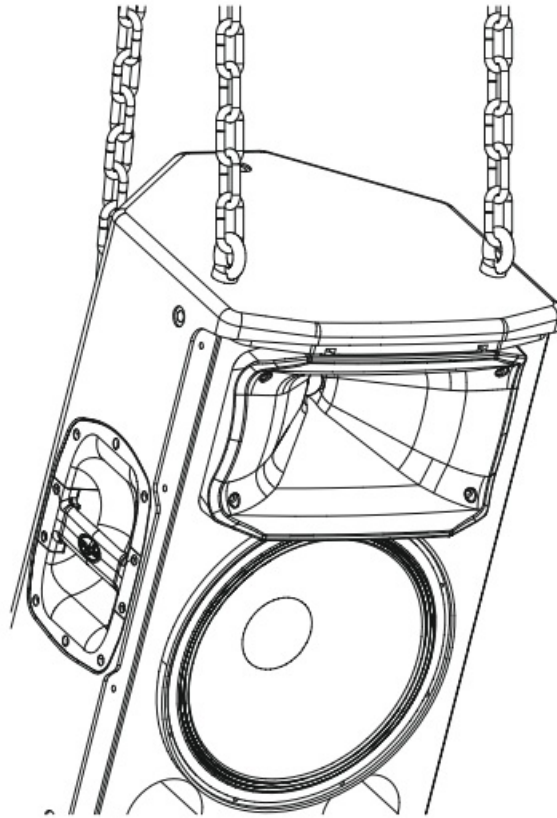
- The Allen-head screws must be removed and replaced by M10 eyebolts on one side of the enclosure. Each rigging point has a 200 kg (440 lb) working load limit. Then choose the slings or chains of required load resistance and length, bearing in mind that the length difference between the front and back slings or chains will determine the vertical orientation. Alternatively, the back bottom eyebolt points can be used to provide vertical orientation.
- The ANL-2 set is an optional set of four eyebolts and four carabiners. (Dimensions are in millimeters).



- Each ANL-2 eyebolt has a rated working load of 200 kg. (440 lb). Each ANL-2 carabiner has a working load of 330 kg (726 lb). If using other hardware, make sure it is rated to handle the required load.
- When using eyebolts it is important to bear in mind that the rated working load is only true for a load applied in the plane of the eye, and is significantly reduced for other angles. The drawing illustrates the concept.
- The table shows the variation of the working load as a function of the load angle. In the case of the ANL-2 eyebolt, the 200 kg working load becomes 60 kg at 45 degrees. Do not use eyebolt flying if the load angle is higher than 45 degrees.
- **0 Degrees/ 30 Degrees/45 Degrees/More than 45 Degrees**
- % Working load: 100%: 65%: 30%: 25%




- The following illustrations show different views on eyebolt flying for a single box. The length of the back cables or chains determines the vertical angle of the box.





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 - www.dasaudio.com
-

Documents / Resources

	<p>D A S VANTEC 15 15 Inch Bi Amped High Output 2 Way Speaker [pdf] User Manual VANTEC 15 15 Inch Bi Amped High Output 2 Way Speaker, VANTEC 15, 15 Inch Bi Amped High Output 2 Way Speaker, Amped High Output 2 Way Speaker, Output 2 Way Speaker, Speaker</p>
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References

-  [Sistemas de sonido profesional | ¿Necesitas asesoramiento? - DAS Audio](#)
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