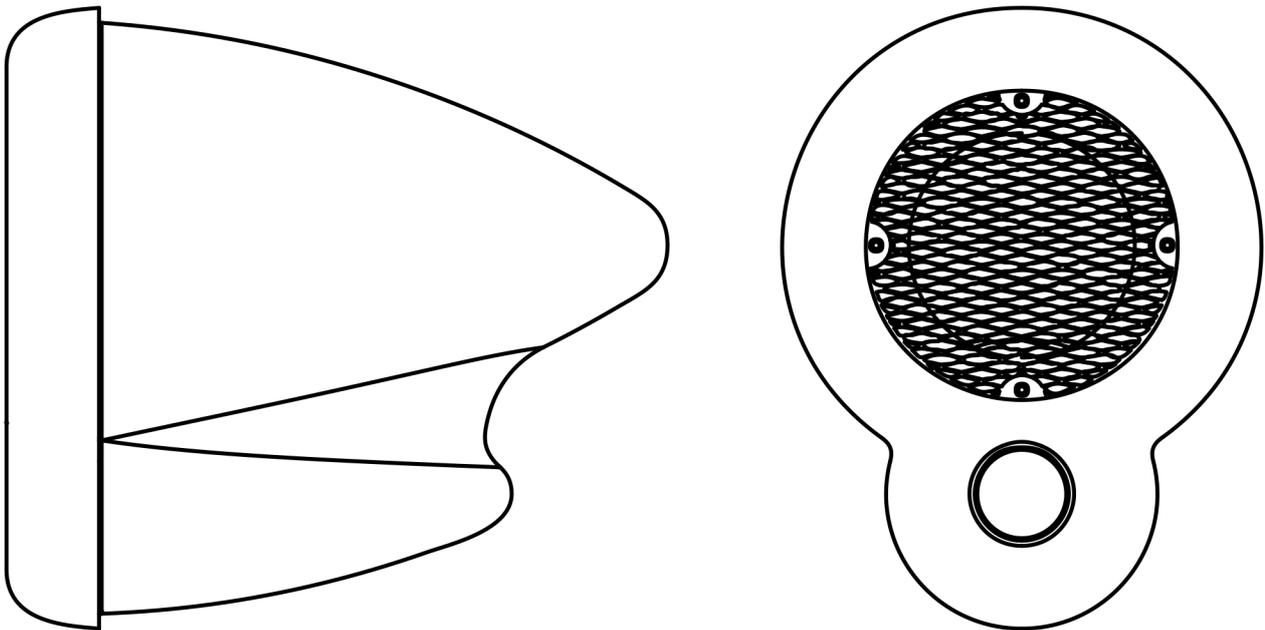


ZEPHIRUS 15.1

Two way passive coaxial



User guide

ZEPHYRUS 15.1

Two way passive coaxial

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- 2 Unpacking and Checking
- 3 Cables and Set-up
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1 Technical Specifications

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Zephyrus is a compact product designed around a 5 inch coaxial high performance speaker. It has a mid woofer of 5 inches with a horn loaded and coaxial driver capable of high resolution at high frequency.

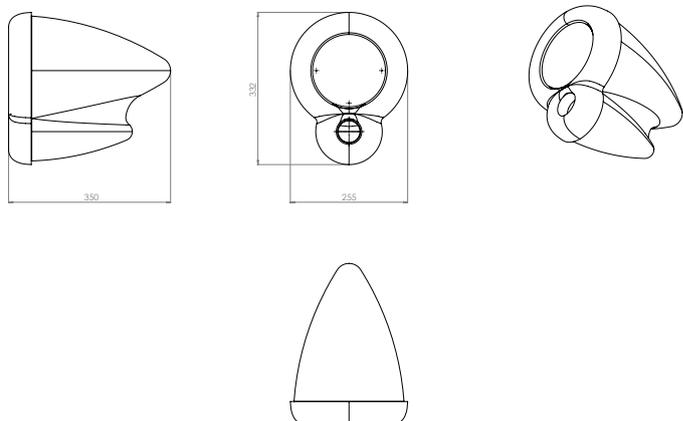
The body is realized in composite material, light yet resistant, capable of withstanding shock and atmospheric agents.

This is the perfect product to create sound quality loyal systems that respects vocal quality. It is also ideal to create satellite + subwoofer systems that maintain high quality with low encumbrance. It excels in its goal of sonorizing small rooms or areas in clubs.

Multiple Zephyrus speakers allow for an equal diffusion of extreme high quality sound in an open area.

Another use is the connection to a studio system or a PC workstation where sound quality and sound detail has to be immediately recognizable. Pairing the Zephyrus with the Borea sub (ovoid system) allows to create a full range system, compact and dynamic, and is therefore suggested.

The passive crossover, realized without compromise, selecting the most high quality components, allows control of the Zephyrus with a single amplification channel.



TYPE	Two way passive coaxial
FREQUENCY RESPONSE	70 Hz - 18 KHz (-3dB)
TOTAL SENSITIVITY	92 dB 1W/1m with passive crossover
SPL MAX	114 dB with 300 W
LOW - MEDIUM FREQUENCIES	5" woofer @ 8 Ohm 300W continuous power handling , sensitivity 92 dB 1W/1m
HIGH FREQUENCIES	HF compression driver with high tech polymer diaphragm @ 8 Ohm 50W continuous power handling , sensitivity 105dB 1W/1m
NOMINAL IMPEDANCE	4 Ohm with 2 way passive crossover
POWER HANDLING	300W @ 4 Ohm with amplifier
MANAGE	2 Ch amplifier to a couple of Zephyrus loudspeakers (passive crossover provided, for each Zephyrus). If very high output is needed we recommend to use a DSP : High-pass filter @70Hz, 12 dB/ oct. or higher slope. Otherwise as Satellite with subwoofer: Amplifier+DSP to match to subwoofer. High-pass filter @90Hz, 12 dB/oct. or higher slope. Inner thermal protection device provided, to avoid overdrive.
RECOMMENDED AMPLIFIER	2 channel amplifier, around 350W on each channel @ 4 ohm stable
DISPERSION	70 deg conical
CONSTRUCTION MATERIALS	Fiber-reinforced composite, stainless steel
FINISH	all ral color and texture on order
PROTECTIVE GRILLES	Zephyrus is usually sold with this grid to protect the 5" coax ,as standard
CONNECTORS	Zephyrus has,as exit, 2 pole OFCop- per high quality cable ,1,5 sq.mm each pole, to be connected to Neutrik NL2, NL4 or custom
DIMENSIONS (WITH SUPPORT)	(W) 255mm (H) 332mm (D)350mm (W) 10 inch (H) 13 inch (D) 13,7inch
WEIGHT	3,5 Kg (7,7 lb)

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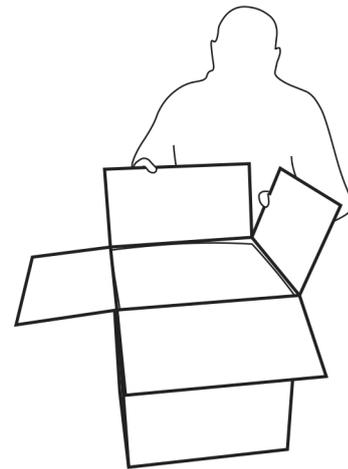
2: Unpacking

The Zephyrus system, like every other Pequod product, is built with high standards of control and quality. At the end of the production process and before packaging, each system is tested: acoustically measured and recorded in our company database. For each Zephyrus serial number, we have the related test files recorded in the archive. Before being packed in its box we complete an inspection of surfaces and structures. Units are packed into wooden crates or heavy cardboard boxes with internal foam padding before shipping.

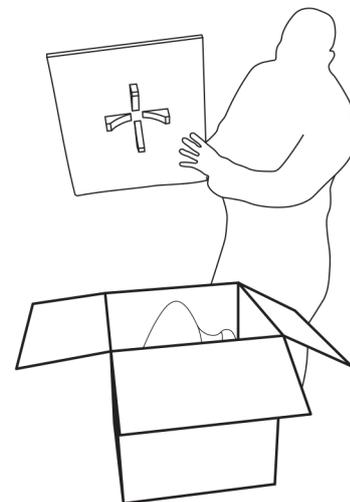
Extraction from box:

The Zephyrus weighs 3,5 Kg (7,7 lb) each, and is taken from the box simply following the steps shown here. Keep the packaging for further storage or transportation, unless units are to be permanently installed.

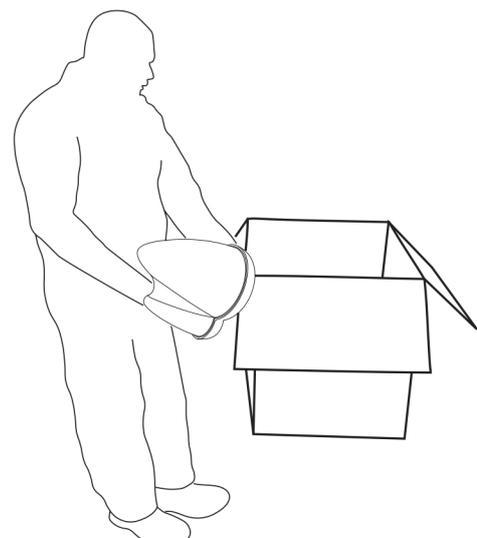
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1: Carefully cut tape and open cardboard box



2: Remove packing materials and save for re-use

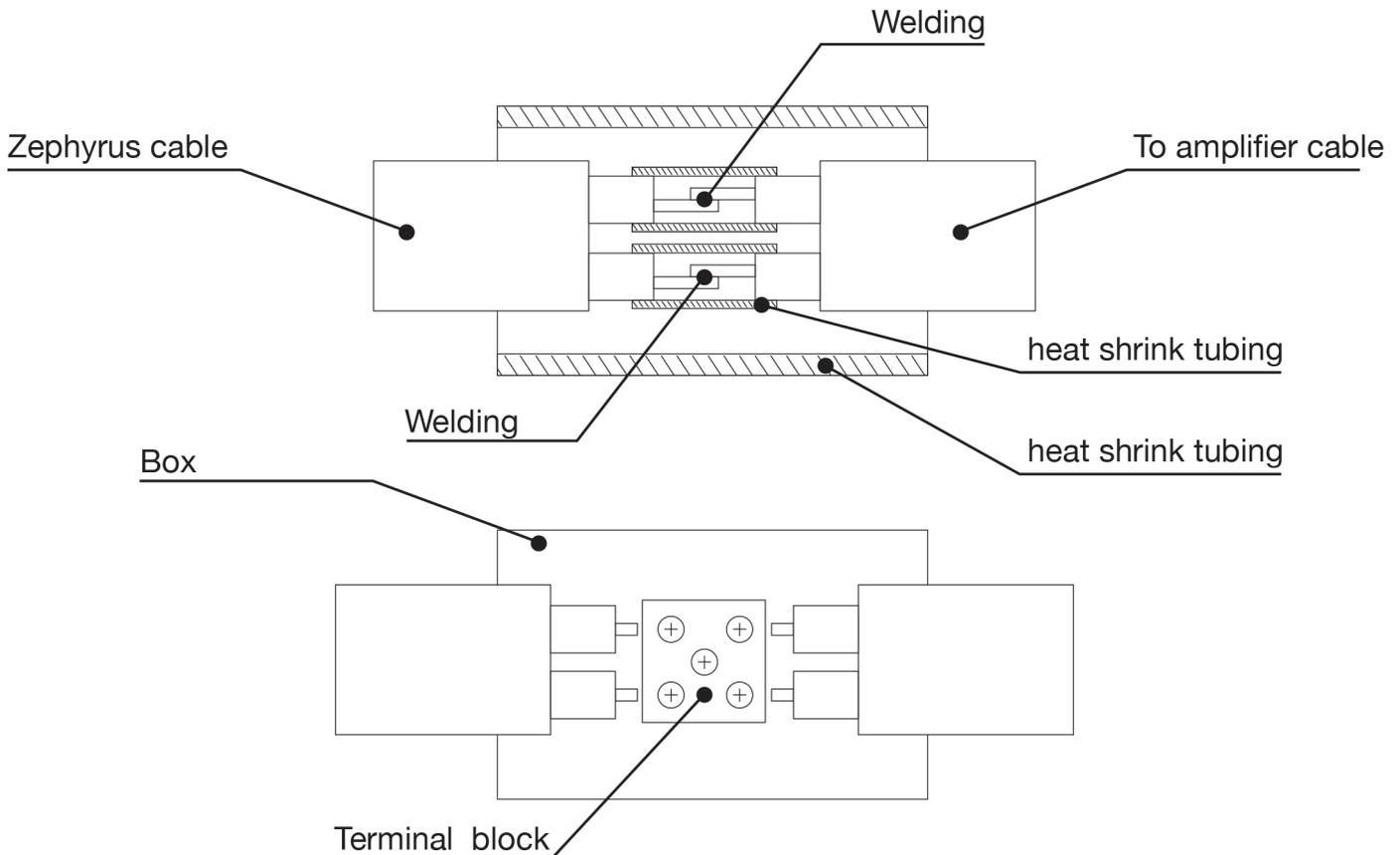


3: lift speaker body with both hands when ready

Zephyrus has an input made with a high quality 2p OFC cable (with standard NL4FC male connector).

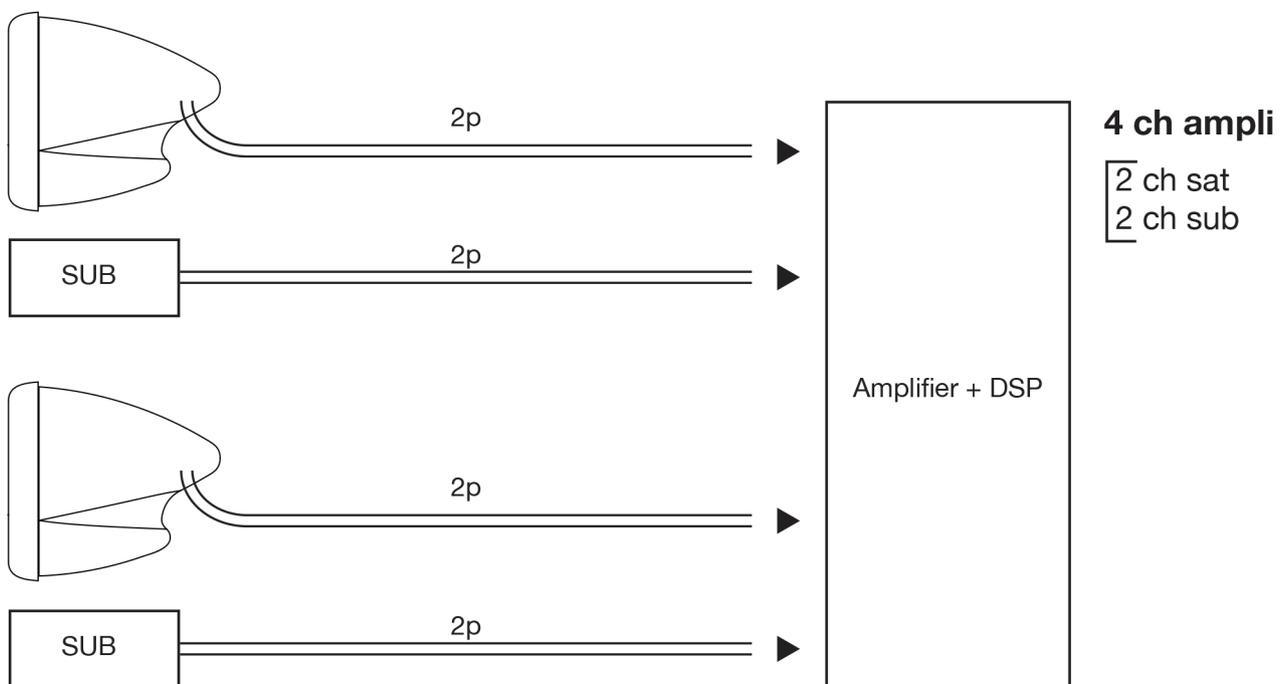
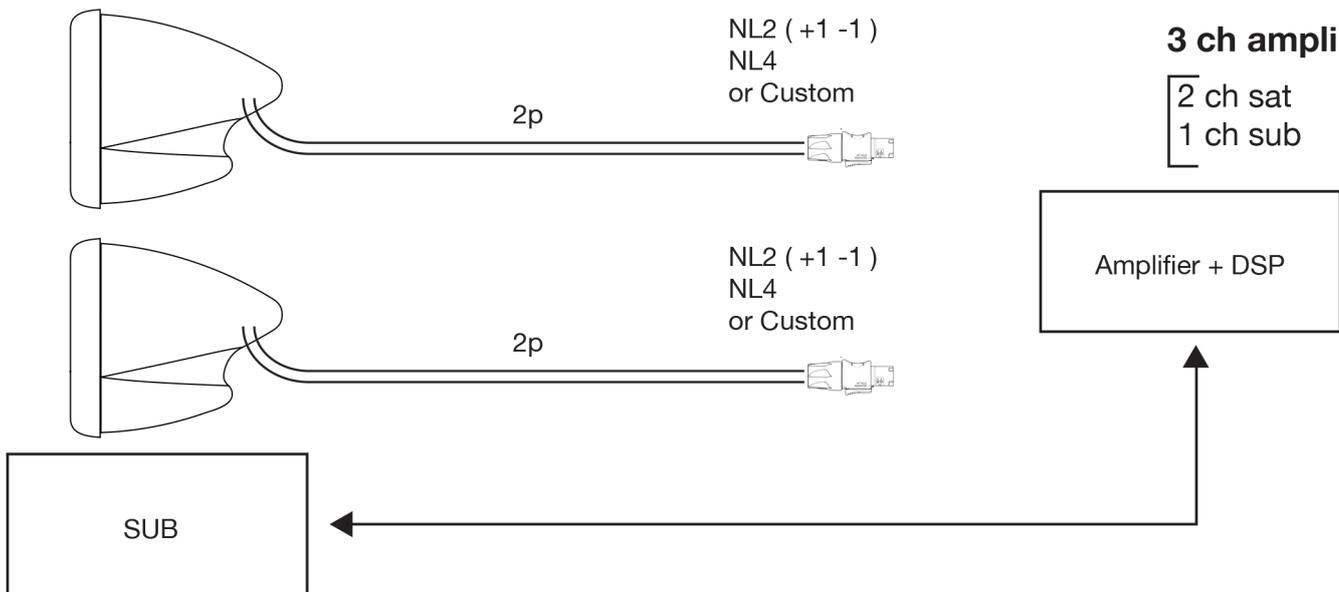
The 2p cable can be terminated with an NL2, NL4 or custom connector, or connection with another cable, using terminal block / welding and heat shrink insulation (see Fig).

Cable connection



In case of custom realization by the installer of the connection cables, we recommend specifying installation-grade Low Smoke Zero Halogen (LSZH) cables for permanent installations. The cables should use Oxygen Free Copper (OFC) of grade C11000 or above. For distances of over 15 meters between Zephyrus and ampli we recommend increasing the section of the cable poles to 4 sq.mm, to avoid excessive emission level losses. For lengths of less than 15 m, you can use 2-pole cables, each with a section of 2.5 sq.mm.

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DSP general settings:

1) Stand alone: Just if very high output is needed we recommend to use a DSP: High-pass filter @ 70Hz, 12 dB / oct. or higher slope.

2) Zephyrus as Satellite with subwoofer: Amplifier + DSP to match to subwoofer.

Zephyrus: High-pass filter @ 90Hz, 12 dB / oct. or higher slope. Sub: (Band pass).

High-pass filter @ 20Hz, 12 dB / oct. or higher slope .

Low pass filter @ 90Hz, 12 dB / oct. or higher slope.

Gain and Time Alignment: it depends on Subwoofer utilized

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Pequod
HIGH PRO SPEAKERS

For private or enclosed areas as first choice Fig 1, or multipoint source Fig 2 e Fig 2A. Or as a Satellite with subwoofer for small areas (home theater Fig 3) or for a small audience of a live event. Also used as a filler for medium-high frequencies in areas that require such sound reinforcement, Fig 4. Finally, as a valuable satellite for a console or a PC workstation, Fig 5.

In any case, optimal acoustic coverage is obtained by orienting the central axis coming out of the 5 "coax towards the heads of the listeners, lifting the speakers from the ground.

Fig.1

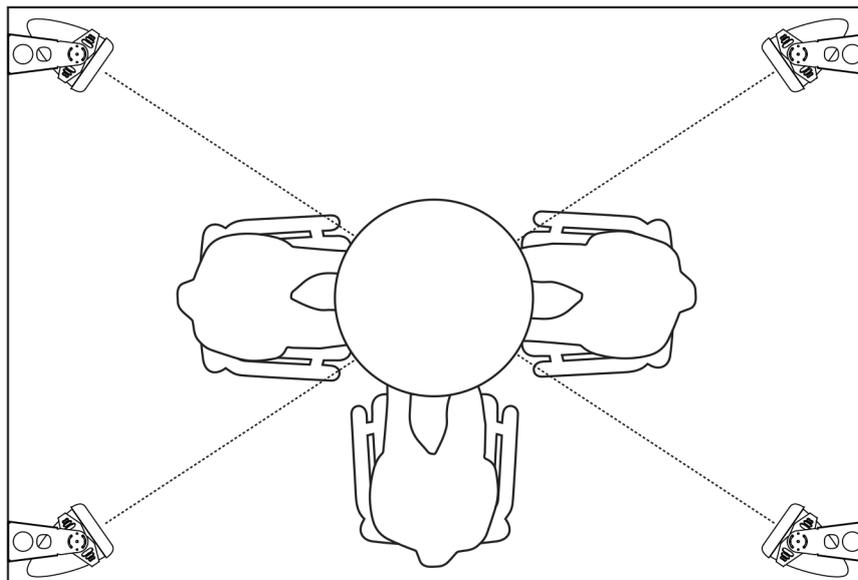
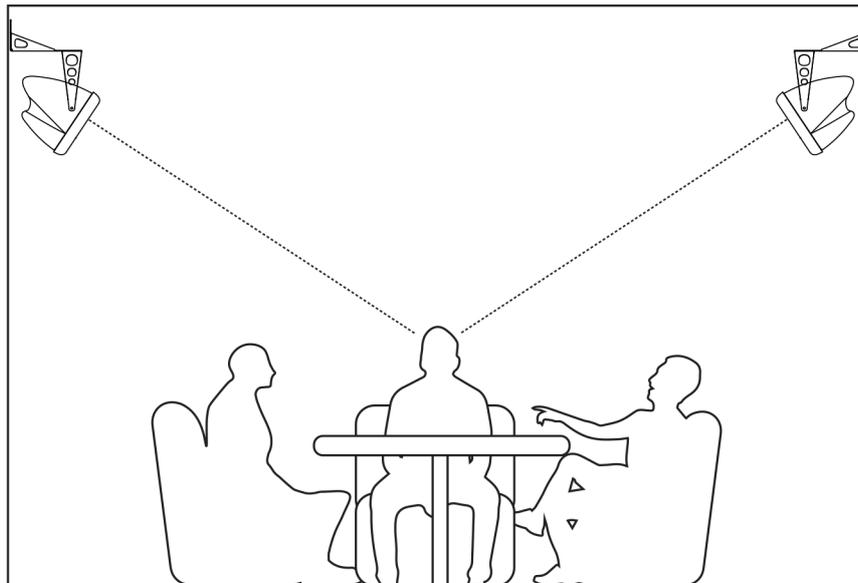


Fig.2

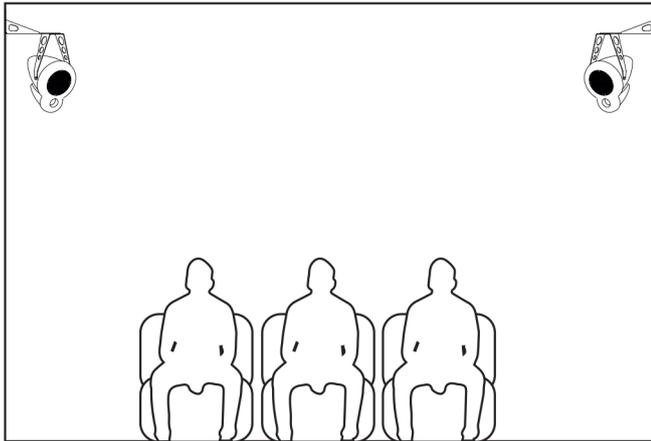


Fig.2 A

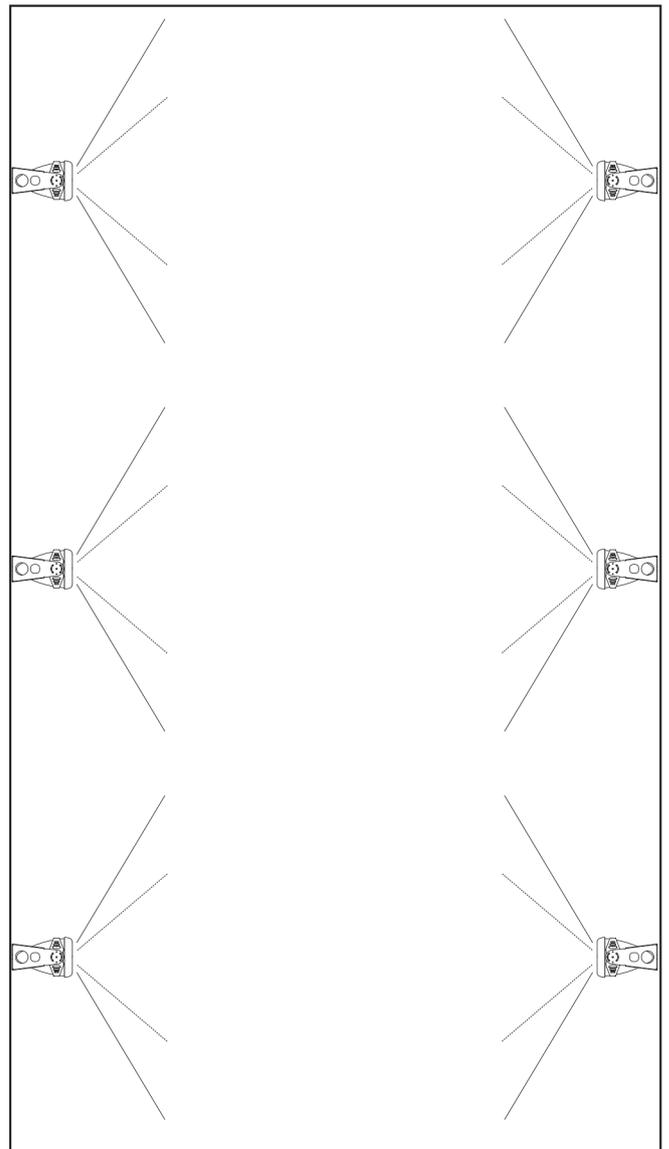
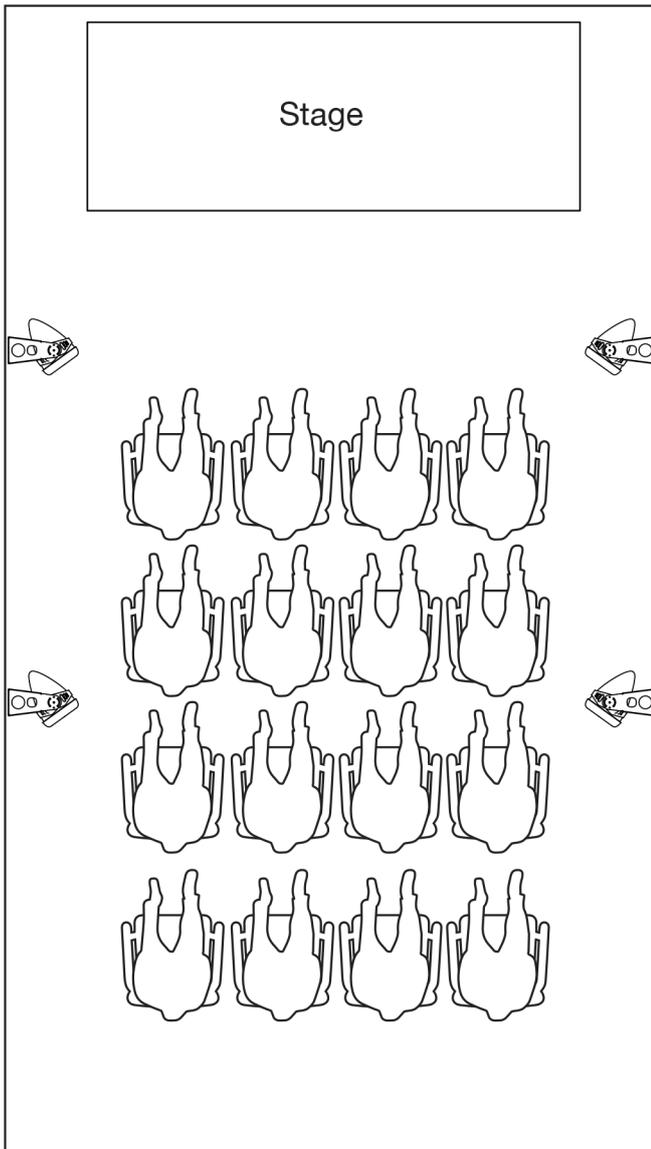
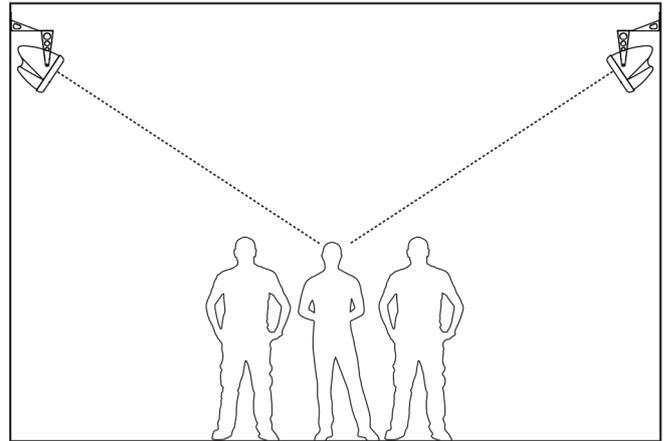


Fig.3

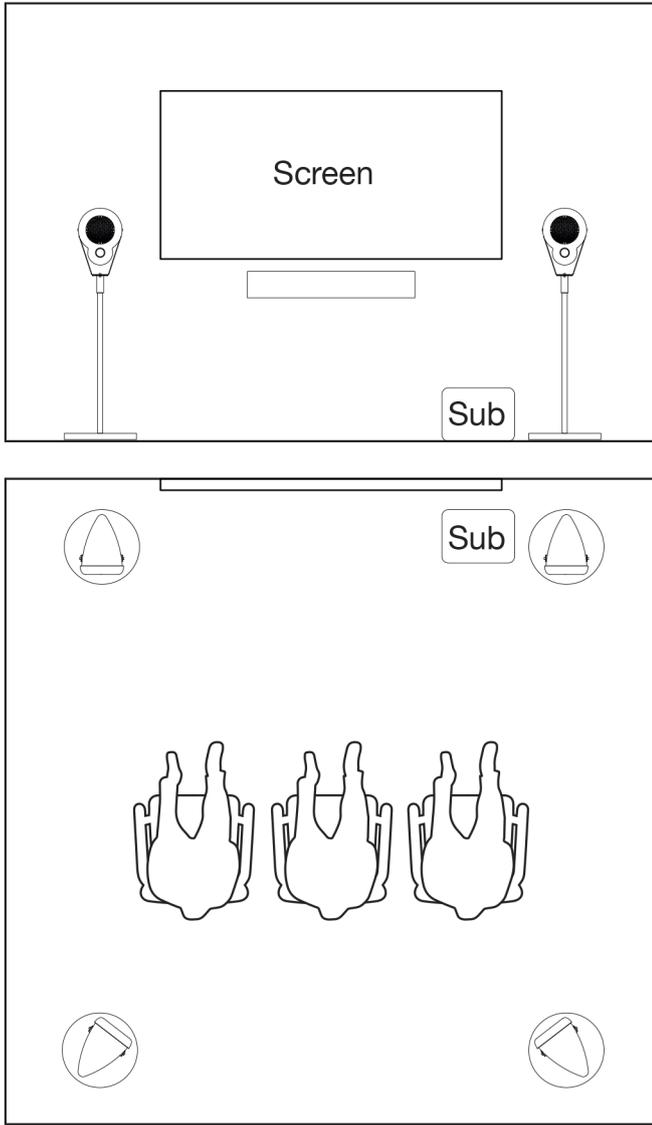


Fig.4

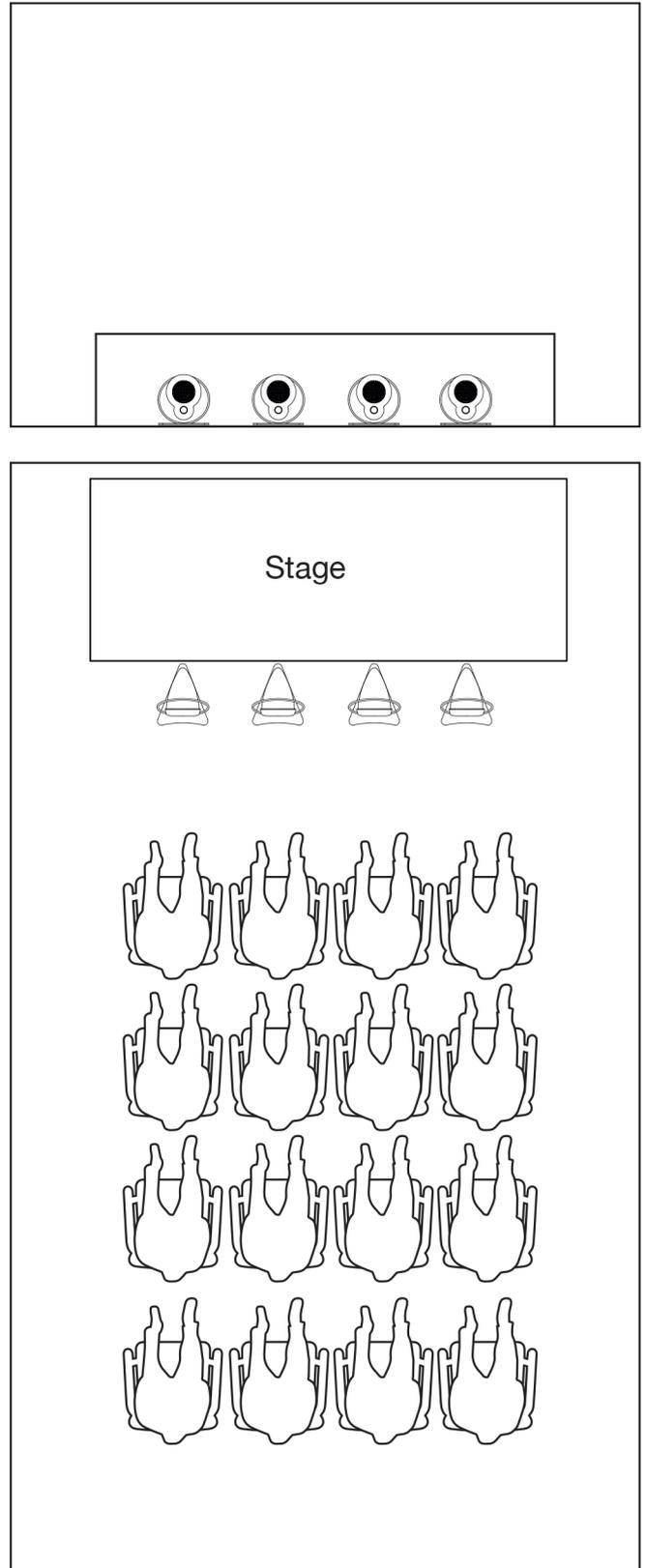
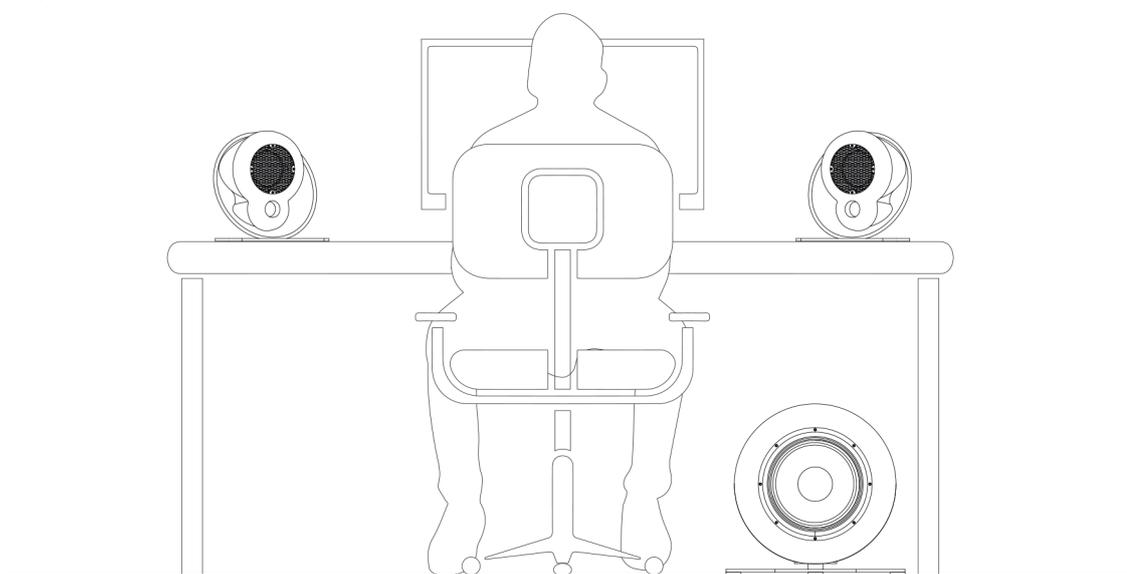
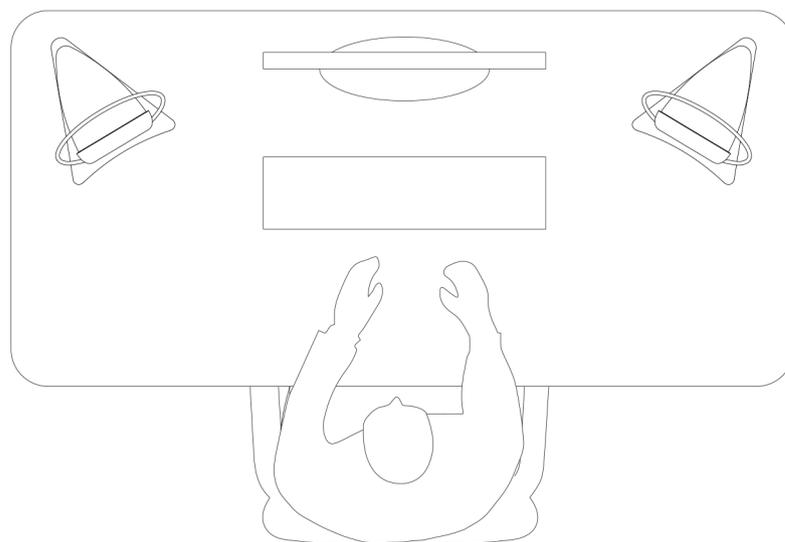


Fig.5



Borea Sub



5: Accessories

Accessories are available to complete the experience of the Pequod Zephyrus system.

Cod. BAG01Z: Protective PVC Bag sized for Zephyrus system, waterproof soft finish to protect from scratches and weather

Cod. GR05Z: Front Protection Grille of the 5" coax, made of stainless steel.

Cod. BSSTZ: Stand with round Base with logo and Stainless steel tube (length 1500mm) + bracket for supporting a freestanding Zephyrus system without Ovoid Sub

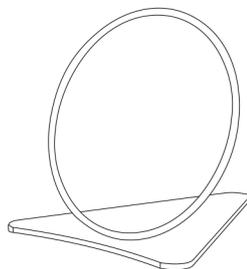
Cod. TBBOVZ: Ovoid Connection Pipe, stainless steel diameter 35mm (length 800mm) + bracket, suitable for coupling above the sub Ovoid 18/15 or Borea system. Other lengths available on demand.

Cod. WALLPLTZ: Wall plate, made of stainless steel, to suspend the Mounting Bracket.

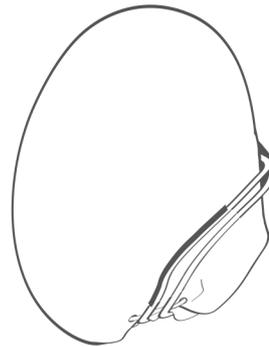
Cod. MBRAZ: Mounting Bracket, made of stainless steel, to be connected to the wall plate or directly to wall, ceiling.

Cod. DSTZ: Desktop Speaker Stand for Zephyrus, made of stainless steel.

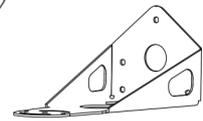
Desktop speaker stand Cod. DSTZ



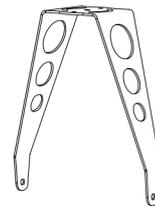
Water proof bag
Cod. BAG01Z



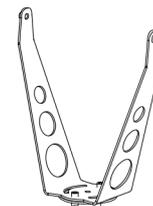
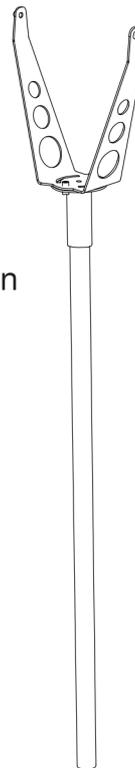
Wall plate
Cod. WALLPLTZ



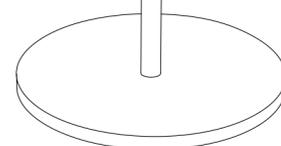
Mounting Bracket
Cod. MBRAZ



Ovoid connection pipe
Cod. TBBOVZ



Stand with round Base
Cod. BSSTZ



USER GUIDE

6: Maintenance and Surface Protection

All Pequod units are built from a unique high quality composite material which is inert to atmospheric agents and requires minimal regular maintenance, just a simple cleaning of the surfaces with a soft cloth dampened with alcohol.

For best practice in long term care of the composite components, and to obtain or restore a truly professional level of surface finish, we recommend using the 3M "Perfect It™" line of Gelcoat cleaners and protective waxes (above right).

Follow the instructions provided to ensure the best possible finish for your Pequod composite speaker bodies and accessories.

Warning: All Pequod products are polished by hand, by a specialized operator, one by one, before being packaged in their box.

Any traces or residues of wax (opaque white) may be present on the surfaces of the products. They are obviously easily removable with a soft cloth and in no case do they represent a qualitative defect, but rather evidence of a polishing process carried out by hand, with high quality waxes.

Many installations require Stainless Steel support structures or armatures to complete mounting and assembly of different Pequod units. For these components, we recommend cleaning with 3M™ Stainless Steel Cleaner and Polish (right).

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7: Warranty

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Pequod Acoustics offers a guarantee to the original owner (person or company who purchased the product brand new) of each new Pequod product (provided it was purchased directly from Pequod or through a Pequod Acoustics Authorised Dealer/ Distributor) that it is free of defects in materials and workmanship and that each product was tested in the factory to meet or exceed all specifications declared. Each model has a test file recorded in our database, related to its serial number.

The period of limited warranty is three (3) years from the date of delivery to the original purchaser (as shown on the original invoice or sales receipt; a copy may be required as proof of warranty dates)

Pequod Acoustics will repair or replace (at its discretion) all defective parts at no charge for labor or materials; subject to following provisions:

Pequod Acoustics shall take no responsibility for repair or replacement under this warranty if:

- a) The damaged product has been subject to misuse, accident, neglect or failure to comply with normal maintenance procedures
- b) There are improper alterations or unauthorized parts or repairs.
- c) The serial number has been altered, defaced or removed and the original owner won't be able to give information related to our Anti-counterfeit authentication system (see below, section 8)

Pequod Acoustics will remedy any defect, regardless of the reason for failure (except as excluded above) by repair or replacement. Pequod Acoustics will ship the product within a reasonable time after receipt of the defective product at a Pequod Acoustics Authorised Service Centre.

How to obtain service under warranty:

If a Pequod Acoustics product requires service, the original owner must contact the Pequod Acoustics dealer who supplied the product, to receive our Return Authorisation Code (RA code), and instructions on how to return the product to the Pequod Authorised Service Centre, or to Pequod Acoustics.

The original owner must give information about:

- Problems with the product
- Serial number
- Original invoice or sales receipt
- Anti-counterfeit system (see section 8)

After receiving the RA code the owner can pack the unit in the original factory packaging if possible. Please include a note describing the problem packed together with the product. Do not send it separately.

All products being returned to the factory or service center for repairs must be shipped prepaid. Ensure safe transportation of your unit to the authorized service center

Pequod Acoustics (or an Authorised Service Centre) will initiate corrective repairs upon receipt of the returned product, in order to complete the repairs and ship back the product within a reasonable amount of time.

If the repairs made by Pequod or a Pequod Authorised Service Centre are not satisfactory to the owner, they are instructed to give written notice to Pequod.

The original owner is not entitled to recover from Pequod any incidental damages resulting from any defect in the Pequod product. This includes any damage to another product or products resulting from such a defect.

The warranty is not extended by the length of time which the owner is not engaged in active use of the product. Repairs and replacement parts provided pursuant to the warranty will be covered only by the non-expired portion of the warranty.

8: Authentication and Anti Counterfeiting Measures

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Each product by Pequod Acoustics is carefully hand made using high quality components that are, by themselves, difficult to replicate. But we also protect our products using special marks on the inside and outside, which are unique and serve to authenticate original Pequod products.

Thus, each individual product has a special mark, placed in a unique position. For each product (each serial number) we keep a record of the exact position where we placed this mark.

When warranty claims are made, or other requests that require authentication of an individual Pequod product, we will ask the owner to provide a description of the identifying marker as further proof of originality.