db Technologies IS26T Professional Passive 2-Way Speaker User Manual

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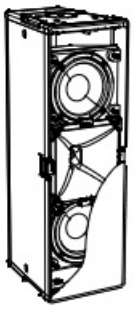
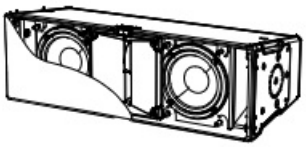
dbTechnologies IS26T Professional Passive 2-Way Speaker User Manual

IS26T

Professional Passive 2-Way Speaker

MODEL:
IS26T





HWG
WAVEGUIDE
MODEL: IS26T100

The warnings in this manual must be observed in conjunction with the “USER MANUAL – Section 2”.

dBTechnologies

CE

WARNING

Make sure that the loudspeaker is securely installed in a stable position to avoid any injuries or damages to persons or properties. For safety reasons do not place one loudspeaker on top of another without proper fastening systems. Before hanging the loudspeaker check all the components for damages, deformations, missing or damaged parts that may compromise safety during installation. If you use the loudspeakers outdoor avoid spots exposed to bad weather conditions. Contact dBTechnologies for accessories to be used with the speakers. dBTechnologies will not accept any responsibility for damages caused by inappropriate accessories or additional devices.

GENERAL INFORMATION

WELCOME!

Thanks for purchasing a product that was designed and developed in Italy by dBTechnologies! This series of professional passive speakers embodies years of experience and innovation in the field of sound reproduction, with the use of cutting edge solutions in the fields of acoustics, electronics and materials research.

INTRODUCTORY OVERVIEW

IS is a series of passive speakers designed for permanent installation. The IS26T model in particular is designed for high-quality music reproduction in both permanent installations and live settings and can be installed in diverse configurations thanks to the wide range of accessories available.

There is a choice of two models, each fitted with a different type of horn:

- IS26T is equipped with a horn with 60°x90° coverage and is designed for use in both single unit and cluster type installations
- IS26T100 is fitted with a 100°x15° waveguide and is designed for use in line arrays

The speaker features a 2-way system with twin 6.5” woofers (VC 1.7”) and 1” compression driver (VC 1.7”).
The attractive design and colour choice of black or white gives the speakers and elegant, unobtrusive look, making them ideal for any public setting.
The Euroblock (Phoenix) connectors ensure quick and easy connection.
The main features are:

- high quality sound
- compact and ultra-versatile design
- wide acoustic coverage
- can be mounted on a wall, pole or truss adapter
- acoustic design with horn or waveguide (depending on model)
- possibility to rotate the horn for horizontal or vertical use (model IS26T only)
- installation in line array configuration (model IS26T100 only)
- possibility to change the type of horn using an accessory kit (HK-15100WG or HK-6090)

USER INFORMATION

To get the best use from your IS speaker, we recommend that you:

- read the Quick Start manual included in the package and all of this User Manual, and keep them throughout the entire life of the product.
- register the product at **http://www.dbtechnologies.com** in the “SUPPORT” section.
- retain your proof of purchase and WARRANTY (User Manual “section 2”).

PACKAGE CONTENTS

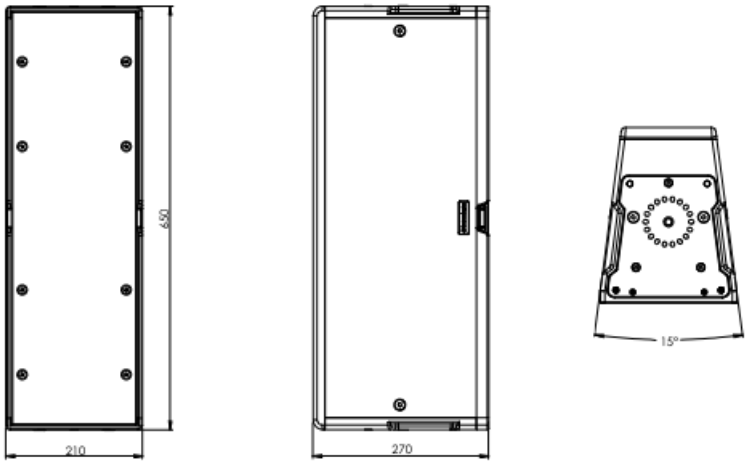
Check that the contents of the package are complete.
The package contains:

- IS26T speaker
- quick start manual and warranty documentation
- n.2 Euroblock (Phoenix) flying female connectors

MECHANICAL AND ACOUSTIC FEATURES

DIMENSIONS AND WEIGHT

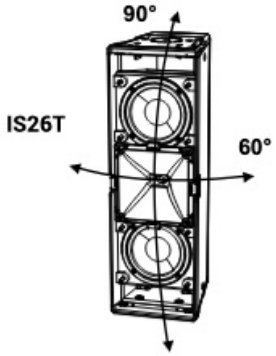
The IS26T has been designed with particular attention to optimising the overall dimensions and ease of handling.
The unit weighs only 15.5 kg.
The main dimensions are:
210 x 650 x 270mm (WxHxD).



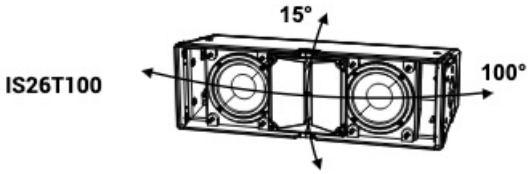
ACOUSTIC FEATURES

The speaker incorporates design features that ensure an extended frequency range.
In particular, the front of the speaker is specially designed to optimise the coherence of the sound emitted and to accept, depending on the model, a horn or a waveguide.

MODEL IS26T
This model is supplied with the horn oriented to provide 60° horizontal coverage and 90° vertical coverage, as shown in the figure.
If a different coverage angle is required, rotate the horn and refer to the relevant section in the INSTALLATION AND CONFIGURATION chapter.

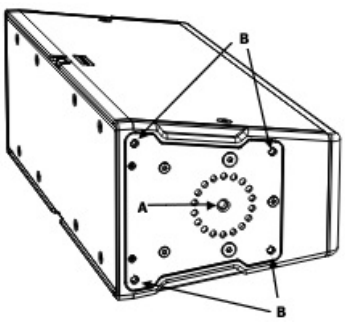


MODEL IS26T100
This model is supplied with a waveguide providing a horizontal coverage of 100° and vertical coverage of 15°



The orientation of the waveguide cannot be modified.

MECHANICAL FEATURES



The integrated mechanical fixing points allow multiple types of use and installation in combination with accessories, in both point source and line array configurations. In detail:

A – M10 rigging point
B – M8 rigging points for installation in multiple speaker configurations

PROTECTION AGAINST SOLID OBJECTS AND LIQUIDS (IP RATING)

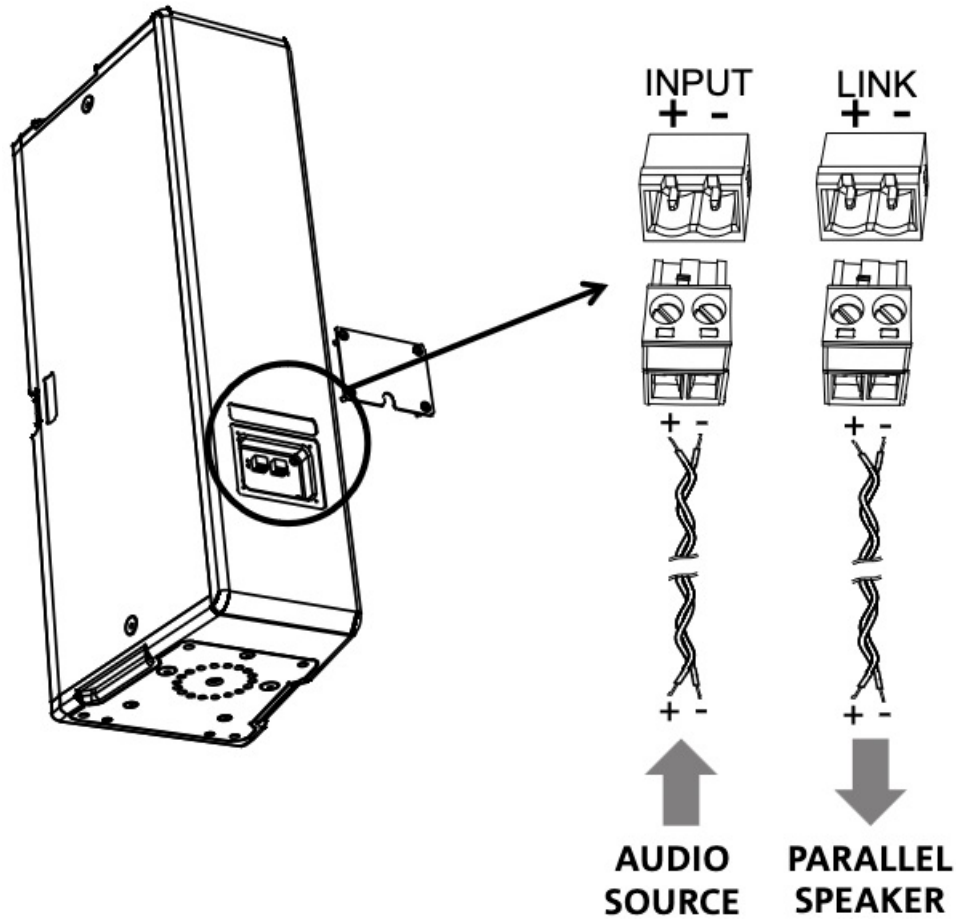
The speaker is protected against the ingress of solid objects and liquids with a rating of IP32 as defined by EN 60529.
To guarantee this specification is met, the speaker must be installed horizontally or vertically facing downwards with a tilt angle of at least 15° to the vertical.
The cable connecting the speaker to the amplifier must have a diameter of at least 8mm (0.31 inch).

Failure to comply with these installation prescriptions could adversely affect the declared protection ratings

CONNECTIONS

CONNECTING THE AUDIO SIGNAL

The connections for audio input and links to other speakers are made via Euroblock (Phoenix) connectors. The connectors are protected under an panel that can be easily removed by unscrewing the four screws that secure it to the cabinet.
Connect the audio source (e.g., from an amplifier or another speaker) to the INPUT terminal using the provided female connectors, respecting the polarity markings next to the connectors (positive to positive, negative to negative). The audio signal can be linked to another speaker in a similar way: connect the LINK output of the speaker to the INPUT terminal of the next speaker respecting the polarity (positive to positive, negative to negative).



INSTALLATION AND CONFIGURATION

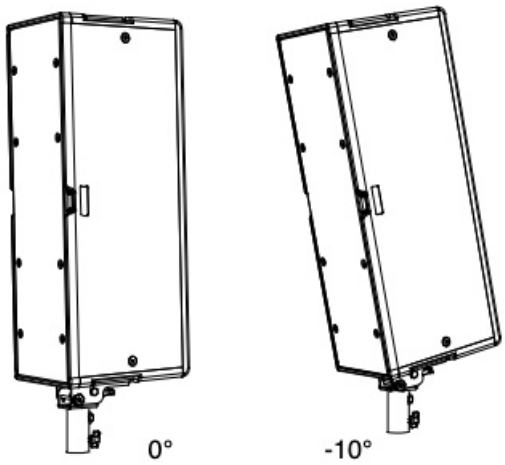
The section gives some example installations suggesting various applications of both of the waveguide and the point source models. Also consult the instructions for the accessories, as well as any prescriptions reported on the product labels.

CAUTION!

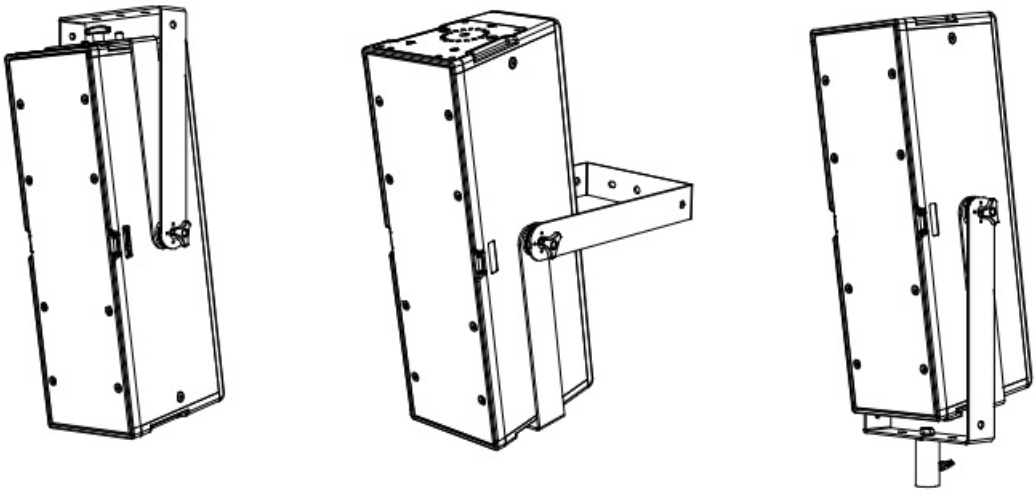
Only expert personnel may use the product and its accessories! To prevent hazards to people, animals and/or objects, make sure that the installation is stable and secure. Comply with the safety regulations and laws in force in the country in which you use the product. For safe use, periodically check that all parts are in good working condition before use. Only authorised personnel may carry out design, calculations, installation, testing and maintenance of professional flown or stacked audio systems. AEB Industriale shall not be liable for improper installation carried out without adequate safety measures.

POINT SOURCE

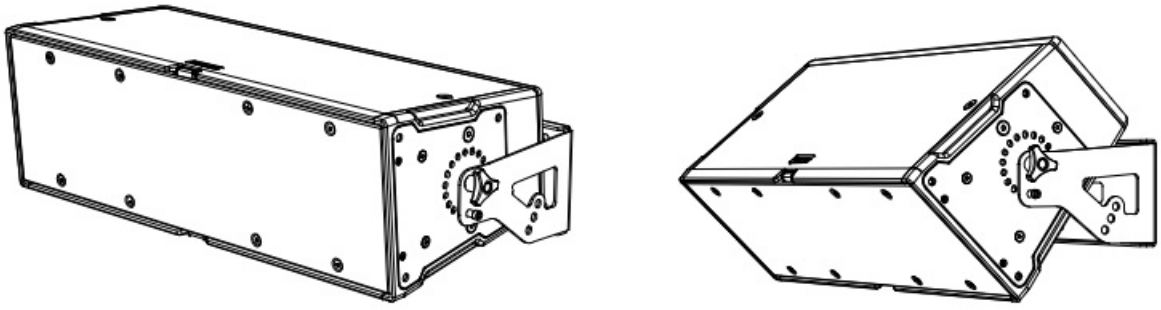
The IS26T can be used and installed in a wide variety of configurations thanks to an extensive range of accessories. This makes for outstanding versatility, as does the possibility to convert a point source model into a line array model and vice versa, and to rotate the horn, as shown in the following pages. For further information and for all the safety prescriptions, refer to the relevant instructions and product labels.



Support for pole mounting SA-2X6



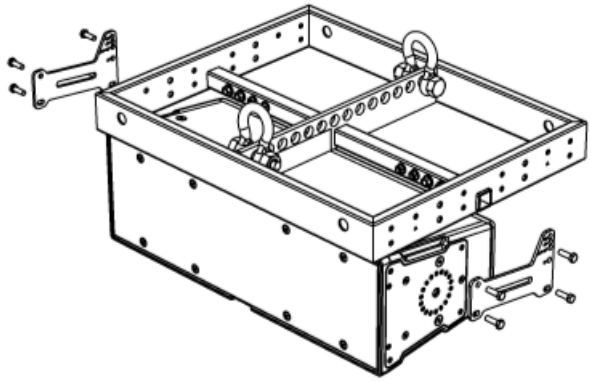
Vertical bracket VB-2X6



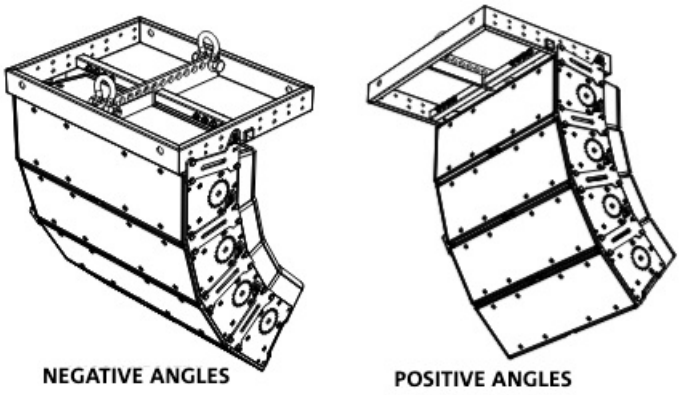
Horizontal bracket HB-2X6

LINE ARRAY

In line-array configurations, the IS26T100 must be installed using the DRK-1 or DRK2 fly bars. To complete the installation, it will be necessary to fit LP link plates (not included in supply) between the speakers and the fly bars.

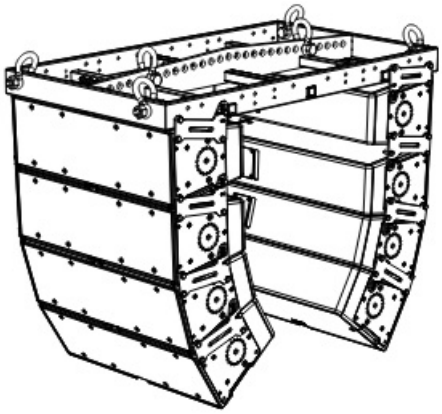


The maximum limits for all the configurations according to the principle safety standards are indicated on the labels and in the instructions of the accessories.



More complex installations for larger spaces can be crated using DRK-2 fly bars.

The figure shows an example installation for illustrative purposes only.
The maximum limits for all the configurations according to principle safety standards are indicated on the labels and in the instructions of the accessories.



CAUTION!

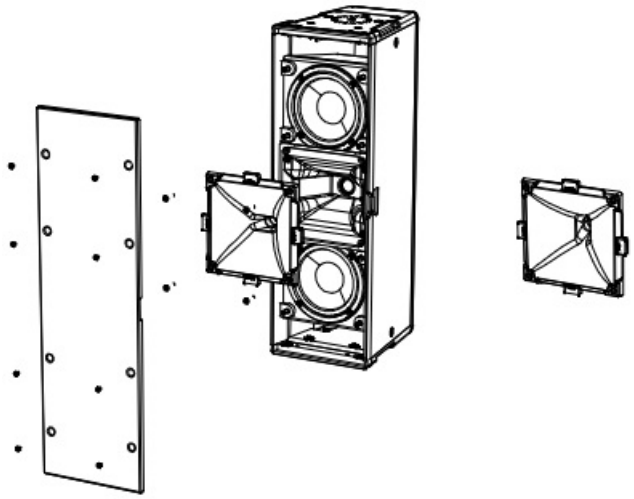
⚠

- **To install the speaker in flown configurations, use exclusively the brackets and accessories supplied by the manufacturer**
- **If the speaker is to be used outdoors, we recommend that the system is securely anchored to prevent movement due to wind or atmospheric agents**

HORN ROTATION (IS26T ONLY)

To rotate the horn of the model IS26T :

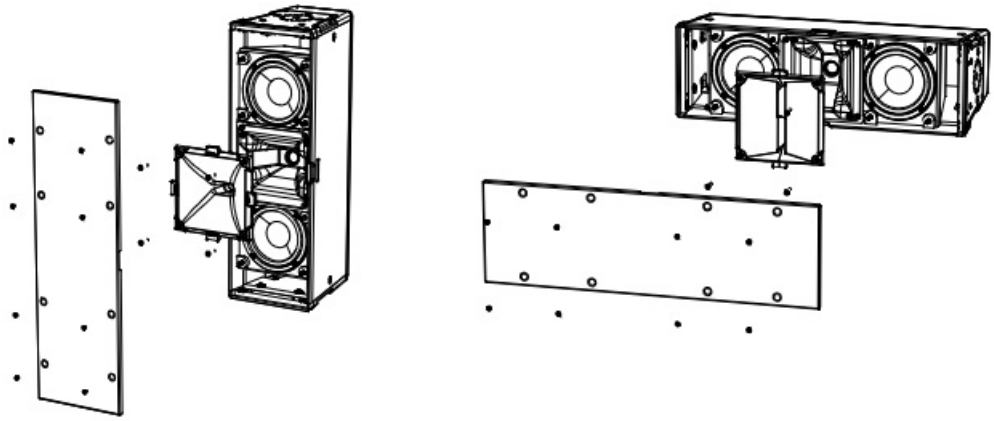
a) position the speaker safely on a level surface.
b) remove the front grille by unscrewing the four screws in the upper and lower panels of the speaker and the front screws.
c) Remove the grille and unscrew the four screws securing the horn to the speaker.
d) rotate the horn through 90°, observing the indications of the labels as described below, and reassemble.



HORN REPLACEMENT

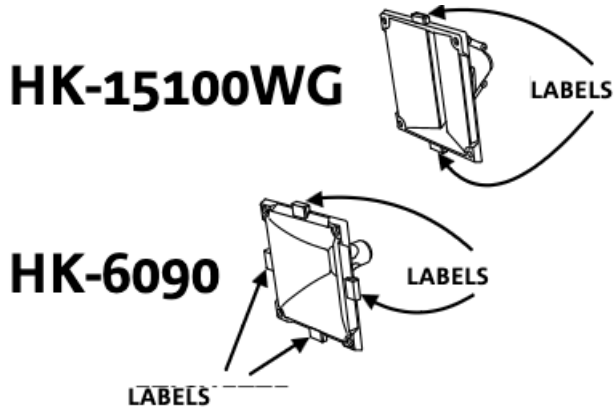
Using accessory kit HK-15100WG or HK-6090, you can change the horn installed on the speaker as required. Proceed as follows:

a) Position the speaker safely on a level surface.
b) Remove the front grille by unscrewing the four screws in the upper and lower panels of the speaker and the front screws.
c) Remove the grille.
d) Unscrew the four screws securing the horn to the speaker.
e) Remove the horn.
f) Position the new horn following the indications below.
g) Fix the new element inside the speaker using the four screws provided.
h) Insert the grille in its location in the speaker.
i) Replace and tighten the four screws located on the upper and lower panels of the speaker and the front screws.



To facilitate horn installation, labels are affixed to the sides indicating the model and acoustic coverage of the horn, as shown in the figures. Take care when installing a new horn to orient it correctly.
The labels are also visible when the grille is fitted, thus allowing the user to determine immediately the orientation of the horn.

For further information, refer to the manual of the accessory.



The wave guide must only be installed in the position shown in the figure for coverage of 100°x15°.

TROUBLESHOOTING

The speaker does not produce any sound

1. Check that the audio signal input is connected correctly
2. Check that the connection cables are not damaged
3. Check that the audio source is powered on and clearly shows an output signal

TECHNICAL SPECIFICATIONS

GENERAL

Type:	2-way passive speaker
Protection against solid objects and liquids (IP):	32

ACOUSTIC DATA

Frequency response [-6 dB]:	85 Hz - 20 kHz
Sensitivity:	94 dB
Max SPL (@ 1m):	124 dB
LF:	2 x 6.5"
LF Voice Coil:	1.7"
HF:	1"
HF Voice Coil:	1.7"
Crossover frequency:	1.2 kHz
Coverage (HxV):	60° x 90° (IS26T) 100° x 15° (IS26T100)

ELECTRICAL DATA

Rated impedance:	8 Ω
RMS power:	250 W
Peak power:	1000 W

INPUTS AND OUTPUTS

Input:	Euroblock (Phoenix) 2 pole
Link:	Euroblock (Phoenix) 2 pole

DIMENSIONS

Material:	Wood cabinet, black/white paint finish
Grille:	All metal – CNC machined
Mounting points:	Integrated in sides of cabinet
Flown and stacked installation:	With accessory fly bar DRK-1, DRK-2 for model IS26T100
Width:	210 mm (8.3 inch.)
Height:	650 mm (25.6 inch.)
Depth:	270 mm (10.6 inch.)
Weight:	15.5 kg (34.2 lbs.)

Product features, specifications and appearance are subject to change without prior notice. dBTechnologies reserves the right to make changes or improvements in design or manufacturing without any obligation to change or improve previously manufactured products.

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Documents / Resources

	db Technologies IS26T Professional Passive 2-Way Speaker [pdf] User Manual IS26T Professional Passive 2-Way Speaker, IS26T, Professional Passive 2-Way Speaker, Passive 2-Way Speaker, 2-Way Speaker, Speaker

References

- AEB Software for Global Trade and Logistics
- dBTechnologies - Professional Audio Equipment