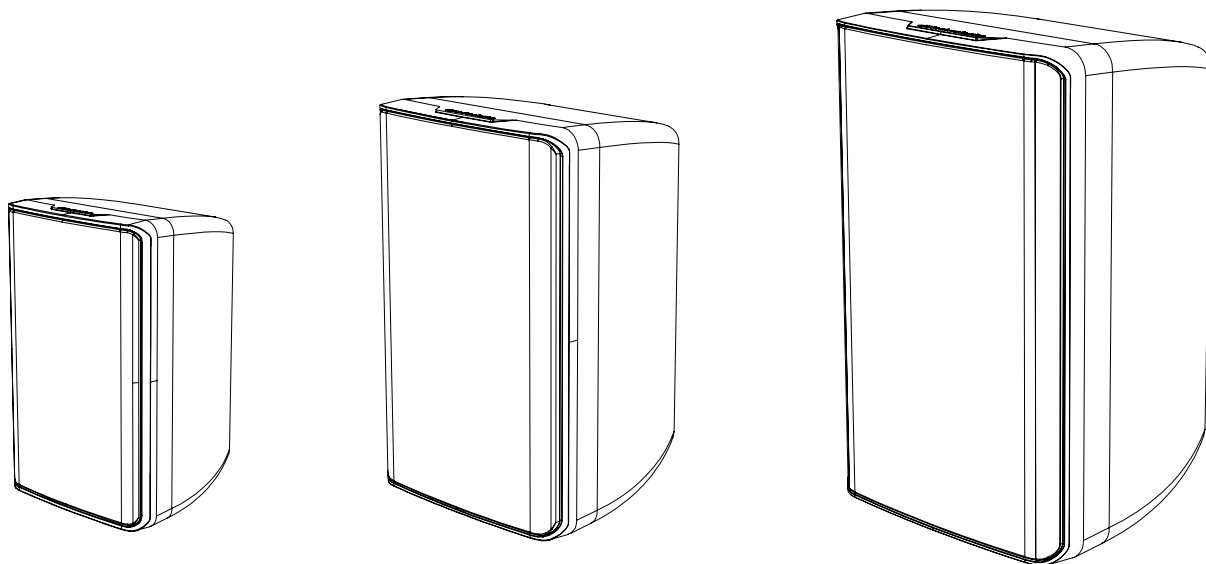


IS.TRF

Professional passive speakers



MANUALE D'USO – Sezione 1.

Le avvertenze nel presente manuale devono essere osservate congiuntamente al “MANUALE D'USO - Sezione2”.

USER MANUAL - Section 1.

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

BEDIENUNGSANLEITUNG – Abschnitt 1.

Die Hinweise in der vorliegenden Bedienungsanleitung sind ebenso zu befolgen wie die in der „BEDIENUNGSANLEITUNG – Abschnitt 2“.

MANUEL D'UTILISATION – Section 1

Respecter à la fois les avertissements donnés dans ce document et dans le MANUEL D'UTILISATION - Section 2.

MANUAL DE USO – Sección 1

Respete las advertencias de este manual y los contenidos del “MANUAL DE USO - Sección 2”.

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.

ITALIANO

ENGLISH

DEUTSCH

FRANÇAIS

ESPAÑOL

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1. GENERAL INFORMATION

WELCOME!

Thanks for purchasing a product that was designed and developed in Italy by dBTechnologies! This series of installation 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 and materials research.

INTRODUCTORY OVERVIEW

IS-TRF is the new series of two-way passive speakers dedicated to installation, designed with the specific needs of installers in mind. The three models in the IS3T-TRF, IS5T-TRF, IS6T-TRF series (with 3.5", 5.25" and 6.5" woofers respectively) are intended to reproduce high quality background music in fixed, indoor and outdoor installations; their elegant and discreet look makes them suitable for any commercial and institutional context. Connection is quick and easy thanks to the Eurobock (Phoenix) connectors. The main features are:

- ergonomic, compact and versatile design
- supplied with a bracket for quick and easy wall mounting
- wide acoustic coverage
- adjustable tilt angle
- designed for constant impedance (8 Ohm) or voltage (70V or 100V) installations

USER INFORMATION

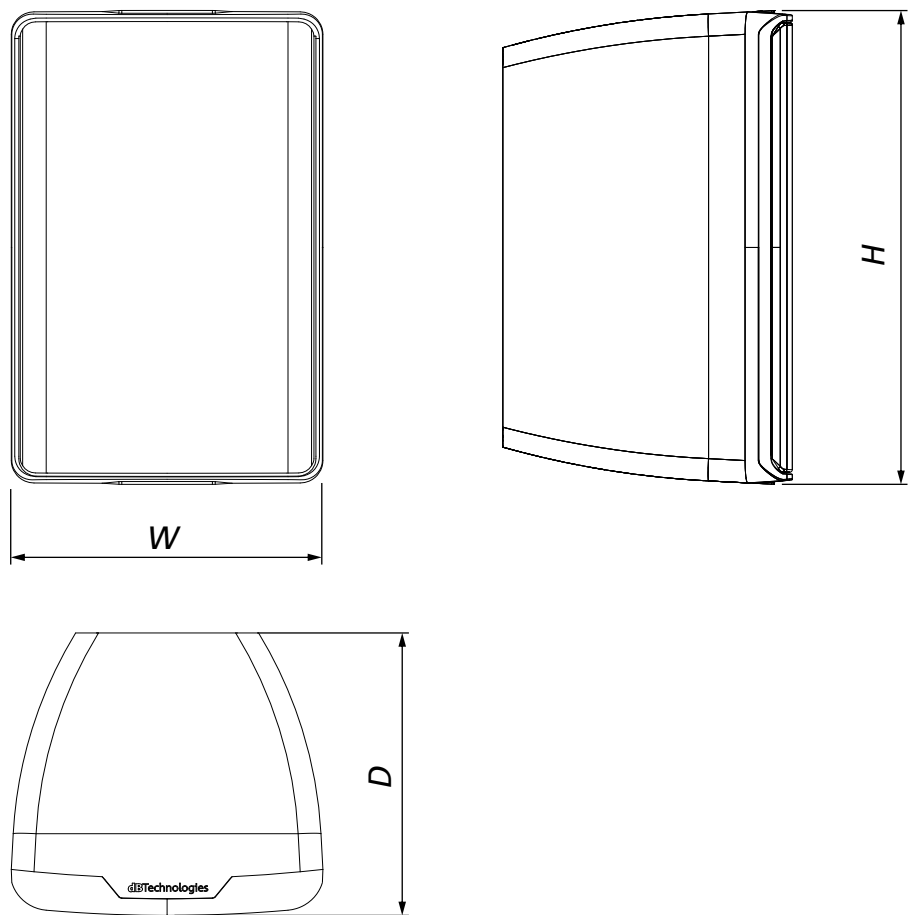
To use your IS TRF speaker in the best way, we recommend that you:

- 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 in the “[SUPPORT](http://www.dbtechnologies.com)” section of the <http://www.dbtechnologies.com> website.
- keep your proof of purchase and the WARRANTY (User manual “section 2”).

MECHANICAL AND ACOUSTIC FEATURES

DIMENSIONS AND WEIGHT

IS-TRF speakers have been designed with particular attention to optimising their weights and overall sizes. Below is a summary of their dimensions and weights:

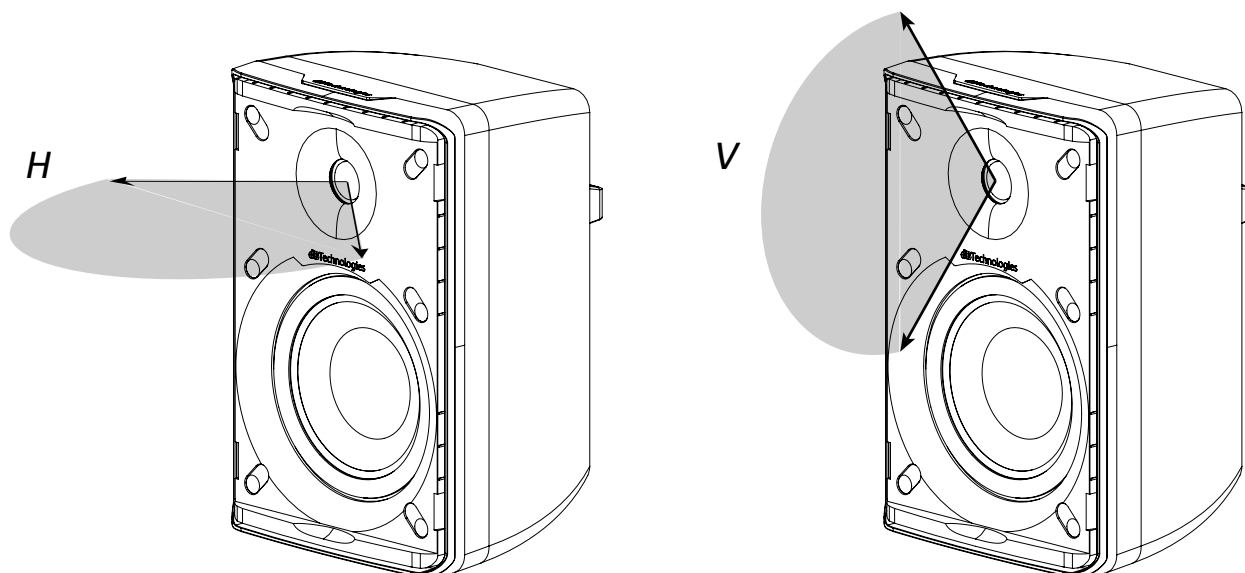


MODEL	DIMENSIONS (WxHxD)	WEIGHT
IS3T-TRF	120x190x118 mm (4.7x7.5x4.6 in)	1.6 Kg (3.5 lbs.)
IS4T-TRF	155x255x150 mm (6.1x10x5.9 in)	2.3 Kg (5.1 lbs.)
IS5T-TRF	205x320x190 mm (8.1x12.6x7.5 in)	3.9 Kg (8.6 lbs.)

ACOUSTIC COVERAGE

The acoustic coverage varies according to the speaker model, as follows:

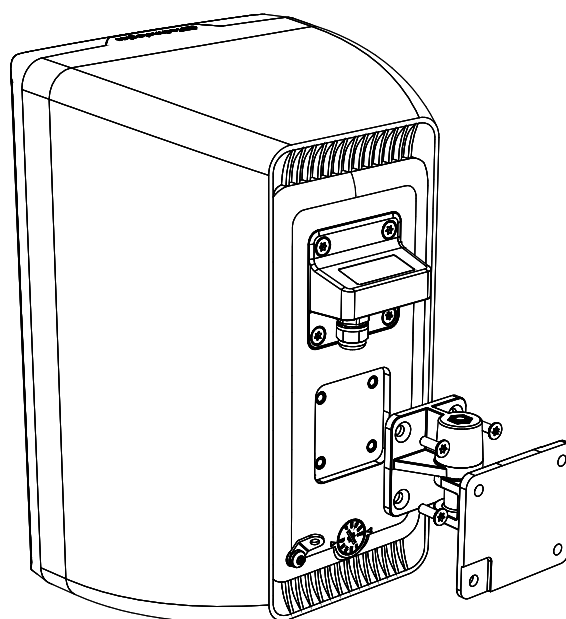
- IS3T-TRF 110°x100° (HxV)
- IS5T-TRF 85°x80° (HxV)
- IS6T-TRF 80°x75° (HxV)



MECHANICAL FEATURES

Speaker ergonomics and quick installation are ensured by:

- 4 rear holes for IP55 panel fastening
- 4 rear holes for fastening with the included wall bracket



PROTECTION AGAINST SOLID OBJECTS AND LIQUIDS (IP RATING)

The speaker is protected against the ingress of solid objects and liquids with a rating of IP55 as defined by IEC 60529.

Only use cables with the following diameters:
with PG7 cable glands => diameter from 3.5 to 6 mm

Secure the cable gland properly using the plastic tightening nut.

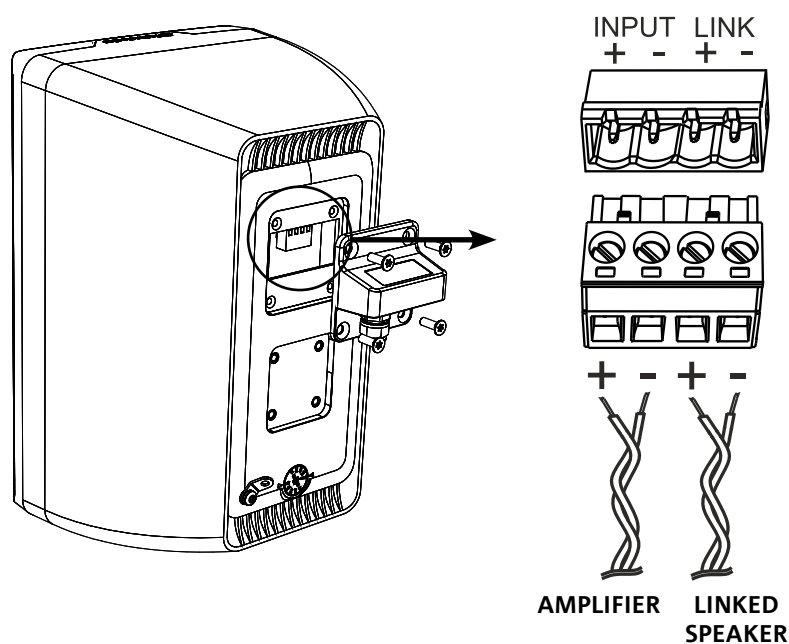


CAUTION!

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

2. CONNECTIONS

The audio input and link to another speaker are connected via a Euroblock (Phoenix) connection; the connector is protected under a metal panel with a PG7 cable gland that is easily removed by unscrewing the four screws securing it to the cabinet. Connect the audio source (e.g., from an amplifier or another speaker) to the INPUT terminal, respecting the polarity markings next to the connectors. 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.



3. INSTALLATION AND CONFIGURATION

PACKAGE CONTENTS

On opening the IS-TRF speaker package, check that no items are missing. The package contains:

- IS-TRF speaker
- wall-mounting bracket
- IP55 panel
- PG7 cable gland
- quick start manual and warranty documentation

CAUTION!

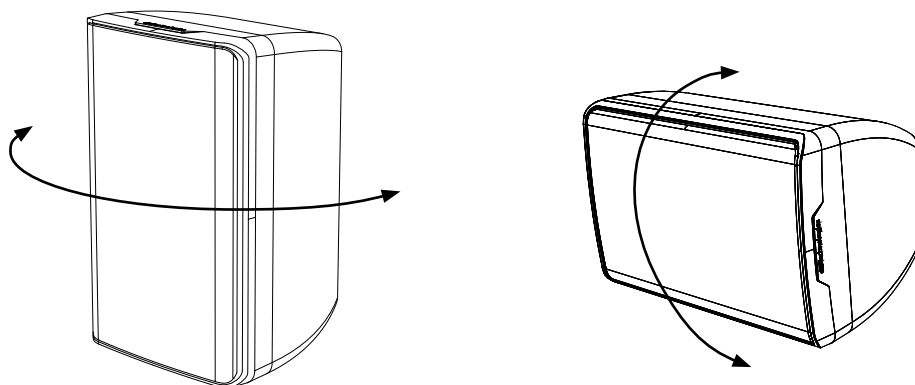


Only expert personnel may use the product and its accessories! To prevent hazards to people, animals and/or objects, make sure that the installation is stable and secure. Comply with the safety regulations and laws in force in the country in which you use the product. For safe use, periodically check 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. dBTechnologies shall not be liable for improper installation without adequate safety measures.

This section illustrates some installation examples. Also consult the instructions for the accessories, as well as any prescriptions reported on the product labels.

WALL MOUNTING

The speaker can be wall mounted vertically or horizontally using the included bracket. Fasten the wall bracket using suitable screws and bolts (not supplied). Adjust the mechanics of the bracket to achieve the desired rotation/tilt.



CAUTION!

- Only use brackets and accessories approved by the manufacturer to install the speaker in flown configurations

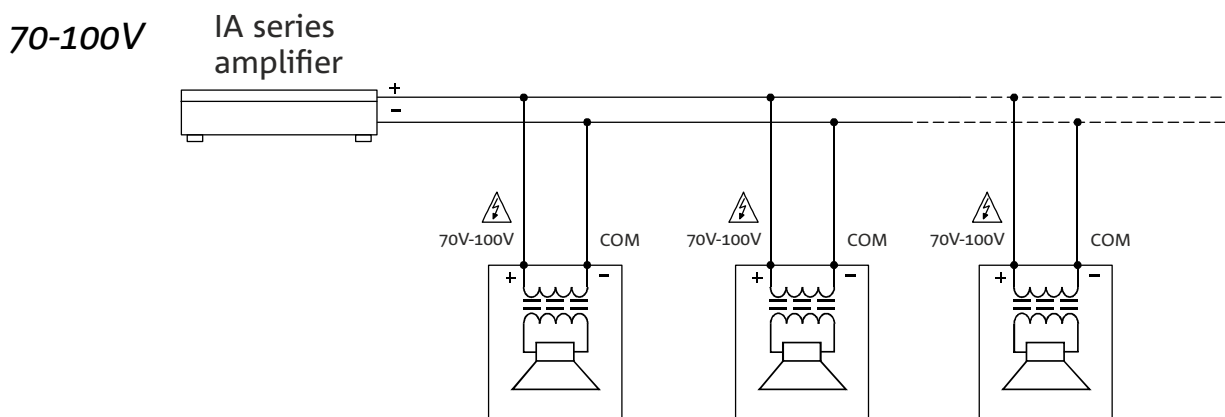
GENERAL INSTRUCTIONS FOR CONNECTING SPEAKERS

Consider the following instructions when making the connections:

- Use cables of suitable section. The greater the distance between the amplifier and speaker, the greater the cable section required. This prevents signal losses along the line.
- To prevent inductive phenomena from causing buzzing or noise, and compromising proper system operation, do not place the connection cables in the same duct as or near devices that produce strong magnetic fields (e.g. power transformers), power conductors and speaker input lines. Moreover, use cables with twisted conductors to minimise inductive effects due to coupling with electric fields.
- Connect the speakers “in phase” to ensure correct sound reproduction. That is, the positive and negative polarity of the amplifier must correspond to the positive (70-100V) and negative (COM) polarity of the speaker input.
- To simplify the connection, you can use bipolar cables with marking (e.g. different colours) to distinguish the polarity.

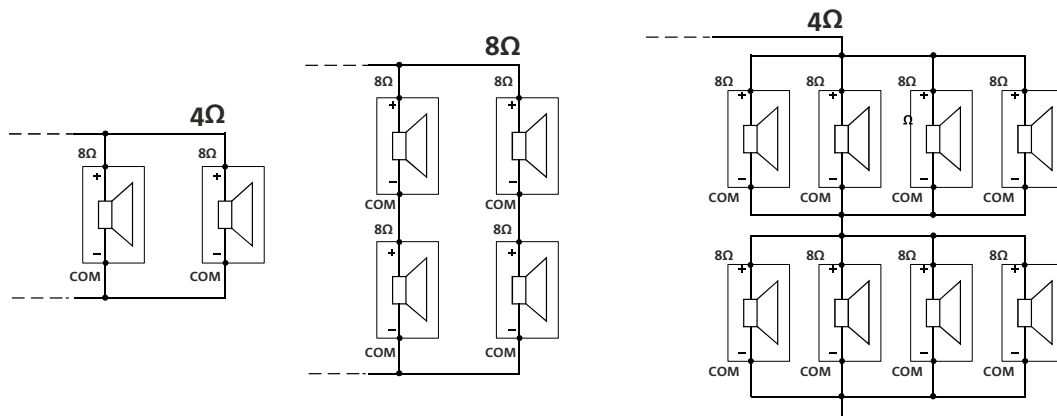
CONSTANT VOLTAGE CONFIGURATION

The speaker input voltage must match the voltage selected on the amplifier, and the sum of the powers of all the speakers connected to the audio line must not exceed the rated amplifier power.

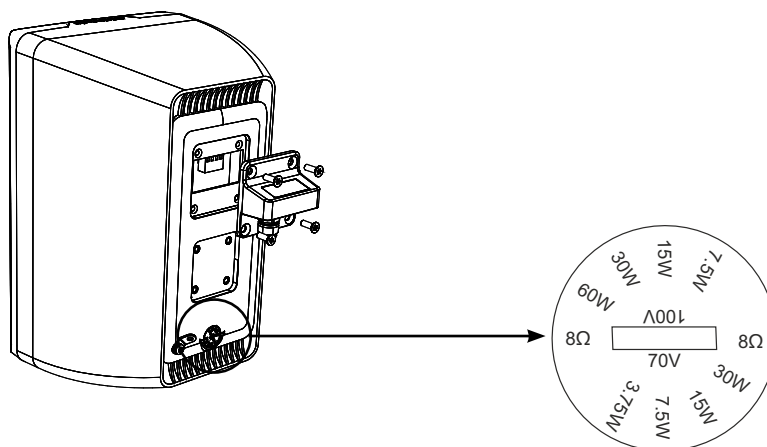


LOW IMPEDANCE CONFIGURATION

The total load impedance of all the speakers must be no lower than the rated amplifier impedance, and the length of the connection cables must be minimised.



The configuration type is selected using the rotary selector at the bottom rear of the speaker. Use a flat-blade screwdriver to make the choice. The table below shows the configurations that can be selected for each speaker.

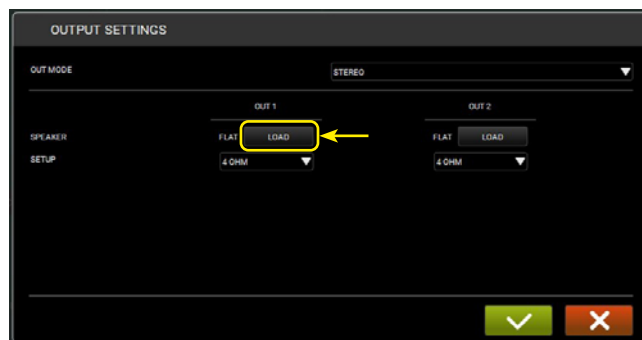
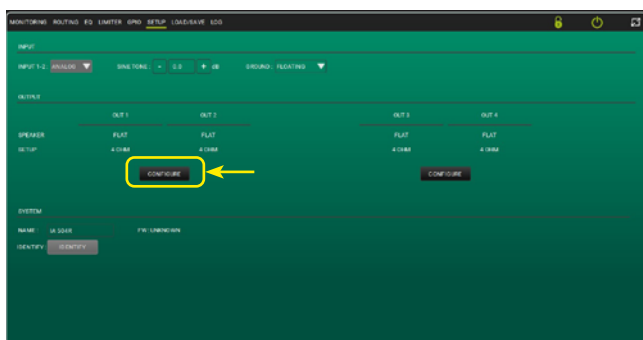


IS3T-TRF	IS5T-TRF	IS6T-TRF
8 Ohm	8 Ohm	8 Ohm
@70V 2.5W 3.75W 5W 7.5W	@70V 2.5W 3.75W 5W 7.5W	@70V 3.75W 7.5W 15W 30W
@100V 5W 7.5W 10W 15W	@100V 5W 7.5W 10W 15W	@100V 7.5W 15W 30W 60W

REMOTE CONTROL

When connected to dBTechnologies IA504 amplifiers, IS-TRF speakers can be controlled remotely via AURORA Net software. This can load presets made by dBTechnologies specifically for this series to optimise sound performance as much as possible. You can further refine the output sound by adjusting the equalisation and limiter.

The presets can be downloaded free of charge from the www.dbtechnologies.com website.



4. TROUBLESHOOTING

The speaker does not produce any sound:

1. Check that the speaker and amplifier are connected correctly.
2. Check that the speaker power selector is set correctly.
3. Check that the cables used are not damaged.
4. Check that the audio source is powered on and clearly shows an output signal.

5. TECHNICAL SPECIFICATIONS

GENERAL

	IS3T-TRF	IS5T-TRF	IS6T-TRF
Type:	2-way passive speaker with transformer		
Protection against solid objects and liquids:	IP55	IP55	IP55

ACOUSTIC DATA

Frequency response [-6 dB]:	110 Hz - 19 kHz (custom preset)	100 Hz - 19 kHz (custom preset)	90 Hz - 19 kHz (custom preset)
Max SPL*:	107 dB	113,5 dB	115,5 dB
LF:	3.5"	5.25"	6.5"
LF Voice Coil:	1"	1"	1.5"
HF:	1"	1"	1"
HF Voice Coil:	0.5"	0.75"	1"
Directivity:	110°x100°	85°x80°	80°x75°

**Measured @1m in free-field conditions using pink noise with crest factor 4 and custom preset.*

ELECTRICAL DATA

Rated impedance:	8 Ω	8 Ω	8 Ω
RMS power:	30 W	50 W	60 W
Peak power:	120 W	200 W	240 W

CONNECTIONS

Input:	Euroblock (Phoenix)
Link:	Euroblock (Phoenix)

DIMENSIONS

Material:	ABS cabinet, black/white paint finish		
Grille:	Aluminium		
Installation:	Wall-mounted on bracket		
Width:	120 mm (4.7 inch.)	155 mm (6.1 inch.)	195 mm (7.7 inch.)
Height:	190 mm (7.5 inch.)	255 mm (10 inch.)	195 mm (7.7 inch.)
Depth:	118 mm (4.6 inch.)	150 mm (5.9 inch.)	210 mm (8.3 inch.)
Weight:	1.6 kg (3.5 lbs.)	2.8 kg (5.1 lbs.)	4.8 kg (10.6 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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