

IMPORTANT SAFETY INSTRUCTIONS

- CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE THECOVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE; REFER SERVICING TO QUALIFIED PERSONNEL.
- WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.





This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual.

DETAILED SAFETY INSTRUCTIONS:

Read these instructions:

All the safety and operation instructions should be read before the appliance is operated.

Keep these instructions:

The safety and operating instructions should be retained for future reference.

Heed all Warnings:

All warnings on the appliance and in the operating instructions should be adhered to

Follow all instructions:

All operation and user instructions should be followed

Water and Moisture:

Do not use this apparatus near water (e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool etc.)

Cleaning:

Clean only with a dry cloth. Do not use solvents, alcohol, benzene or volatile substances for cleaning the exterior parts.

Ventilation

Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions. The appliance should be situated so that its location or position does not interfere with its proper ventilation.

Heat:

Do not install the appliance near any heat sources such as radiators, heat registers, stoves, or other appliance (including amplifiers) that produce heat.

Grounding or Polarization:

Do not defeat the safety purpose of the polarized or grounding/type plug. To prevent the risk of electrical shock, the metallic parts of the speaker must be earthed. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Speaker shall be connected to a MAINS socket outlet with a protective earthing connection.

Power Source

The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance. In order not to jeopardize the safety of the speaker, it must only be connected to the mains using the power cable provided.

DPDT Mains Switch is used as the disconnect device located at the rear.

Power Cord Protection:

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Accessories:

Only use attachments/accessories specified by the manufacturer.

Carts and stands:

Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with tha apparatus. When a cart is used, use caution when moving the cart-apparatus combination to avoid injury from tip-over.

nalish

er manua

S

Non-use Periods:

Unplug this apparatus during lightning storms or when unused for long periods of time.

Object and Liquid Entry

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

Damage Requiring Service

Refer all servicing to qualified service personnel. Servicing is required when:

- the apparatus has been damaged in any way;
- the power supply cord or the plug has been damaged;
- Objects have fallen, or liquid had been spilled into the appliance;
- The appliance has been exposed to rain or moisture;
- The appliance does not appear to operate normally or exhibits a marked change in performance;
- The appliance had been dropped.

Servicing:

The user should not attempt to service the appliance beyond that is described in the Operating Instructions. All other servicing should be referred to qualified service personnel.

IMPORTANT NOTES

This manual is to be considered an integral part of the product, and must always accompany the speaker when it changes ownership as a reference for correct installation and operation as well as for the safety regulations.

dB Technologies will not assume any responsibility for incorrect installation of the speaker.

OPERATING PRECAUTIONS

- Do not force the amplifier incorporated in the speaker to work in overload for extended periods of time.
- Never force the control elements (switches, controls, etc.).



_

CAUTION

Make sure that the speaker is positioned in a stable and secure way in order to avoid any dangerous conditions for persons or objects.

CONNECTION



CAUTION

- For connecting the speaker, use only qualified and experienced personnel having sufficient technical knowledge or specific instructions for making the connections correctly and thus preventing electrical dangers.
- To prevent the risk of electrical shock, the speaker must only be supplied from the mains after all connections have been completed.
- Before powering up the speaker, it is advisable to re-check all the connections, making sure in particular that there are no short circuits.
- The entire sound system must be designed and installed in compliance with the current standards and regulations regarding electrical systems.

CAUTION

- To prevent inductive phenomena from giving rise to hum or disturbance which would jeopardize efficient seaker operation, the cables that transmit microphone signals or line level signals (e.g. 0 dB/V) must be screened and should not be run in the vicinity of:
 - 1) Equipment that produces strong magnetic fields (e.g. large power supply transformers)
 - 2) Electrical energy conductors
 - 3) Lines that supply speakers.

CONTROLS AND FUNCTIONS

1) **POWER SWITCH** This switch permits turning the speaker on and off.

- 2) "MAINS FUSE" FUSE CARRIER Mains fuse housing.
- 3) "MAINS INPUT" POWER SOCKET For connecting the power cable provided. The connector used for mains connection is a POWER CON® (blue)

4) "MAINS OUTPUT LINK" RELAUNCH POWER SOCKET For relaunching the mains power. The output is connected in parallel with input (3) and can be used to power another amplified speaker. The connector uses a POWER CON® (grey)

- 5) "BALANCED INPUT" INPUT CONNECTOR Balanced input at line level. It is able to accept "XLR" sockets.
- 6) **"BALANCED LINK/OUT " OUTPUT CONNECTOR** The "XLR" connector connected in parallel with input (5) can be used to send the input audio signal to another amplified speaker.

7) "INPUT SENS" INPUT SENSITIVITY CONTROL This control regulates the sensitivity of the signal amplifier input. This control does not affect the "BALANCED LINK/OUT" output level

8) "LIMITER" INDICATOR LIGHT

This indicator comes on red to indicate that the internal limiter circuit has tripped. This prevents amplifier distortion and protects the speakers against overloads.

9) "SIGNAL" INDICATOR LIGHT

This indicator comes on green to indicate the presence of the audio signal (at a level of -20dB).

10) "MUTE/PROT" INDICATOR LIGHT

This yellow indicator indicates amplifier status. In normal operating conditions, the LED is off; if it flashes or is always on, refer to the diagnostics table to check amplifier status.

11) "READY" INDICATOR LIGHT

This indicator comes on green to indicate that the main power voltage is correct. In normal operating conditions, the LED is on; if it flashes or is off, refer to the diagnostics table to check amplifier status.

12) "SET-UP MODE" EQUALIZATION SWITCH

This 10-position rotating switch permits selection of the equalization curve according to installation type.

See table for corresponding equalization curve.



DIAGNOSTICS TABLE

MODULE STATUS	LED "READY" (green)	LED "MUTE/PROT" (yellow)	AUDIO FUNCTIONS
Power ON	Off	On for 5 sec.	Data loading In mute for 5 sec.
Normal use	On	Off	Complete
Equalization changing	Off	On for 5 sec.	Data loading In mute for 5 sec.
Teilweise fault	On	Slow flashing	teilweise
Total fault	On	Slow flashing	In mute
Amplifier temperature:			
higher 70°C	On	Slow flashing	Output volume Reduction step
higher_80°C	On	Fast flashing	Output volume reduction -15dB

"NOISE GATE" function

NOISE GATE, or residual noise suppressor, is a function to reduce noise of the speaker without input audio signal applied.

NOISE GATE starts to work when there is no audio signal on input, after a few seconds, it sets the amplifier section in MUTE state . MUTE state is indicated by slow flashing, of "MUTE/PROT" yellow led. As soon as the audio signal passes he input section, the speaker is set out of MUTE status automatically.

This option can be enabled and disabled according to the follow procedure on the amplifier's module.

1) How to check NOISE GATE status

The NOISE GATE status is visualized by the leds located on the amplifier panel during switching on the module.

Function enabled =all leds flashes steady for 5-6 second.

Function disabled = only "MUTE/PROT" yellow led flasches steady for 5-6 second

2) NOISE GATE enabled/disabled

NOISE GATE enabled/disabled can be done each time when switching ON and OFF the amplifier module with "SET-UP MODE" selector on position "9" (service use only).

To enable/disable NOISE GATE function follow this procedure:

- Amplifier switched OFF
- Set "SET-UP MODE" selector in position "9"
- Switch ON the amplifier module and check following:

* if "LIMITER" red led steady flashes for a few seconds, the NOISE GATE is enabled.

* if "LIMITER" red led flashes fast for a few seconds, the NOISE GATE is disabled

Warning!



After enabling or disabling the NOISE GATE function, switch off the amplifier, select "SET-UP MODE" selector in any equalization position (except of "9" position) and switch the system ON.

TECHNICAL SPECIFICATION

System	Active 3-Amps
Type of amplifier	Digital - Class T
RMS power	420 W
Musical power	840 W
Frequency responce +/-3dB	80-19.000Hz
Crossover	420 - 2500Hz 24dB/oct
Sound pressure (SPL)	128 peak
Component parts	1 woofer 8" - coil 64mm - neodymium 1 midrange 6,5" - coil 38mm - neodymium 2 compression driver da 1" - neodymium
Input sensitivity nominal	0 dBu
Impedence Bilanced Unbalanced	20Kohm 10Kohm
Delay totale	1,2mS
Power supply	full-range with PFC 85-265V~ 50-60Hz
Speaker shape	trapezioid
Dimension [LxHxP]	580x330x240/160mm
Weight	13,2Kg



user manual











INSTALLATION

DVA system has obtained the TÜV certification for suspension of DVA T4 and DVA S10 speakers through flybar stirrup DRK 10.

The report certifies that the maximum weight applying to DRK 10 flybar is 250Kg.

DVA T4 configuration

The DRK 10 flybar attests that the maximum number of DVAT4 is 16.

Refer to table 1 to determine the total weight borne by flybar according to the different DVAT4 configurations.

Table 1

Quantity	Weight		
	[kg]	[lbs.]	
1	15	33	
2	30	66	
3	45	99	
4	60	132	
5	75	165	
6	90	198	
7	105	231	
8	120	264	
9	135	297	
10	150	330	
11	165	363	
12	180	396	
13	195	429	
14	210	462	
15	225	495	
16	240	528	



DVA S10 configuration

The DRK 10 flybar attests that the maximum number of DVAS10 is 4.

Refer to table 1 to determine the total weight borne by flybar according to the different DVAS10 configurations.

Table 2

Quantity	Weight	
	[kg]	[lbs.]
1	51	113
2	102	225
3	153	337
4	204	449



231Kg

Mixed configuration with DVA T4 and DVA S10

The modular structure of DVA system permits mixed suspension configuration between DVA T4 and DVA S10. It is necessary to consider that one DVA S10 hanging subwoofer corresponds, in weight terms, to four DVA T4 speakers.

For this reason it is necessary to calculate the total weight according to the different configurations.

Examples:

	Quantity	Weight x qty	Configuration weight
DVA T4 DVA S10	8	120Kg 102Kg	222Kg
	Quantity	Weight x qty	Configuration weight

180Kg

51Kg

Enalish

Structural modification of DRK 10 flybar

No structural modifications may be made without the manufacturer's consent. Use only dB Technologies original parts

Original parts dB Technologies

Use only dB Technologies .original parts

The TÜV authorizing body has not certificated any other parts for use! Always install parts in accordance with these installation instruction! Compile and store all DVA system documents in a safe place!



Warning

If the security norms and total weight calculations are not observed, dB Technologies is not responsible for any possible damage to people and things.

Note

During installation ensure that carrying structure of the system has added in the total weight also the DRK 10 flybar weight, chain hoists, motors, cables and further weights.

Initiation and Operation

§ 39, VBG 9a of the German employers' liability insurance association's accident prevention regulations requires that load-carrying equipment be inspected by a qualified expert and possible defects be eliminated prior to initial commissioning by the recipient.

§ 41 VBG 9a requires that load-carrying equipment be subjected to a non-routine inspection following damage, repair work and other incidents that can affect load-carrying capacity.

Warning

The safety regulations might be different in other countries. Please check with your national safety authority the valid regulations!





English

CONFIGURATION SYSTEM

DVA T4 PRESET EQUALIZATIONS

N U OF	J M B E R BOXES	SHAPE	ANGLES	EQU SET
1 TO 2		STRAIGHT	from 0° to 2,5°	0
FROM		CURVED	from 5° to 15°	1
3 TO 5		STRAIGHT	from 0° to 2,5°	2
FROM	H	CURVED	from 5° to 15°	3
6 TO 8	6 TO 8	STRAIGHT	from 0° to 2,5°	4
FROM	CURVED	from 5° to 15°	5	
FROM 9 TO 12	STRAIGHT	from 0° to 2,5°	6	
	MID CURVED	from 5° to 7,5°	7	
	\bigtriangledown	CURVED	from 10° to 15°	8
	SERVICE USE ONLY			9



SET-UP EXAMPLES



SET-UP EXAMPLES

































A.E.B. INDUSTRIALE s.r.l.

Via Brodolini, 8 - 40056 Crespellano (Bo) - ITALIA Tel. + 39 051 969870 - Fax. + 39 051 969725 Internet: www.dbtechnologies.com E-mail: info@dbtechnologies-aeb.com