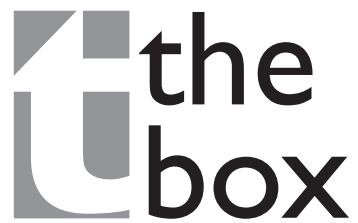




# PA 10 ECO

High-Performance 240-Watt PA Speaker with 10" Woofer  
and Dual Electro-Dynamic Driver

## User's manual





# PA 10 ECO

## SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this device near water.
- 6) Clean only with a dry cloth.
- 7) Be sure to mount your speakers on a solid, stable and level base or stand. Vibrating floors do not provide reliable support for speaker enclosures or stacks.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Only use attachments/accessories specified by the manufacturer.
- 10) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the device. When a cart is used, use caution when moving the cart/device combination to avoid injury from stumbling over it.



- 11) Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, liquid has been spilled or objects have fallen into the device, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 12) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

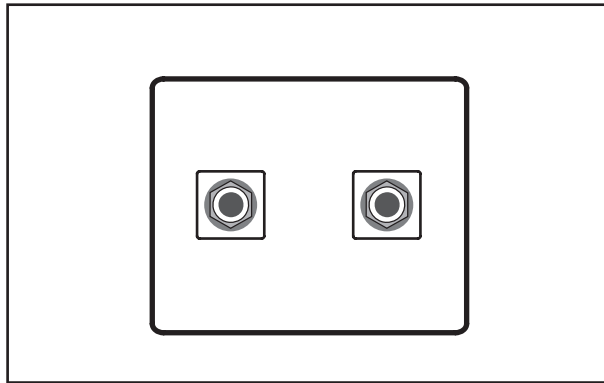


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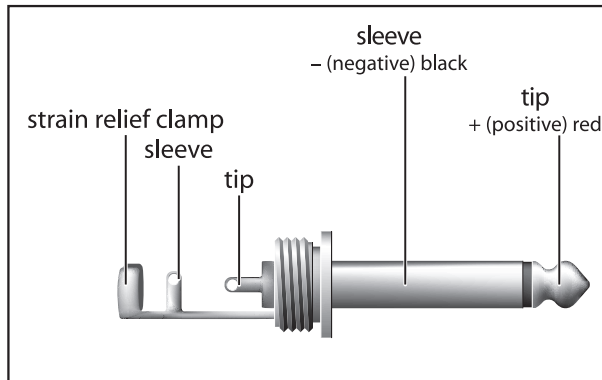
# PA 10 ECO

## 1. CONNECTIONS



*Connections*

Two 1/4" loudspeaker inputs are wired in parallel. You can alternatively connect one of the connectors to the output on your power amp and tap into the signal from the amp once again on the second connector, in order to feed this signal into an additional loudspeaker.



*1/4" TS connector*

**ATTENTION:** Never connect more than one power amp output to the loudspeaker system. This may permanently damage your setup.



# PA 10 ECO

## 2. POWER AMP RATING

The power rating of your amp should be roughly twice the speaker load capacity.

### ATTENTION!

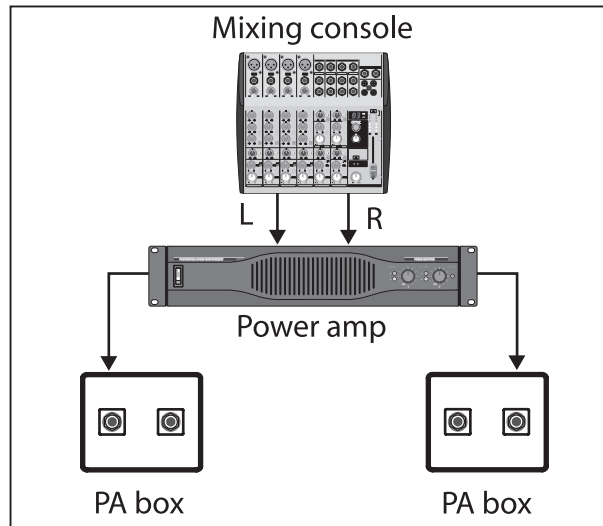
👉 When several loudspeakers are wired in parallel the overall impedance  $Z_{ges}$  to be handled by the power amp can be calculated, as shown below, from the individual impedance values of the connected speakers:

$$Z_{ges} = \frac{1}{1/Z_1 + 1/Z_2 + \dots}$$

Your amplifier may be damaged if the actual impedance drops below its input impedance. Please make sure that the calculated total impedance  $Z_{ges}$  is not smaller than the minimum impedance specified for your amplifier.

## 3. WIRING

In the following example, the main output signal of a mixing console is connected to a power amplifier. Both the outputs and inputs are stereo. A PA 10 ECO box is connected to each of the amp outputs, and these speakers reproduce the entire frequency range (full range).



*Full-range stereo operation*



# PA 10 ECO

## 4. SPECIFICATIONS

SYSTEM DATA	PA 10 ECO
Type	2-way full-range speaker
Frequency response	60 Hz - 20 kHz
Power rating (Peak program)	240 W
Impedance	8 $\Omega$
Sound pressure level (1 W @ 1 m)	98 dB (Full Space)
Dispersion	90° x 40°
Crossover frequency	3.5 kHz
Rigging/fittings	2x ergonomically shaped handle 1x integral tripod and stand adaptor
COMPONENTS	
HF driver	Dual electro-dynamic drivers
Woofer	10" (259 mm)
DIMENSIONS/WEIGHT	
(W x H x D)	ca. 12.2 / 6.7" x 19.3" x 11.1" (311 / 170 mm x 490 mm x 282 mm)
Weight	approx. 19.8 lbs. (9.0 kg)
Shipping weight	approx. 22.5 lbs. (10.2 kg)

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