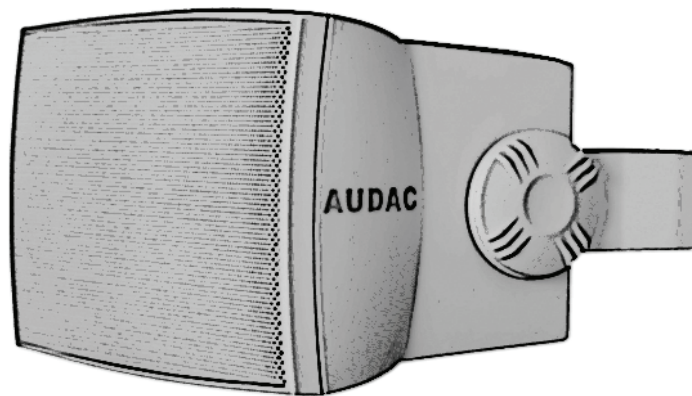## Wall Speaker
WX502

AUDAC

PROFESSIONAL AUDIO EQUIPMENT

Wall Speaker WX502

User Manual & Installation Guide

Warning

- Only use the correct amplifier output voltage and impedance. Exceeding these limits could cause fire or other failures.

  Avoid explosions: do not use the speaker around gasoline, thinner or other combustibles.

- Only install the speaker in locations that can structurally support the weight of the speaker. Not doing so may result in the speaker falling down.

- Do not use any other method than specified to mount the speaker. If extreme force is applied to the speaker, the speaker could fall down.

- Attach a safety wire to the speaker when it's mounted high above the ground. Failure in doing so could cause the speaker to fall down for any reason.

- Avoid mounting the speaker in locations exposed to constant vibrations. The mounting points can be damaged by excessive vibrations, potentially causing the speaker to fall down.

Caution

- Avoid electric shocks: switch off the amplifier power when connecting the speaker.

- Avoid installing the speaker in locations exposed to solvents, acids, smoke and heaters, as excessive exposure to these factors could result in speaker failure, fire or electric shocks.

- Do not operate the speaker for an extended period of time at distorted sound. This could cause (irreparable) damage to the speaker.

- Do not stand or sit on, nor hang down from the speaker as this may cause failure of the speaker.

Installing the WX502

Mounting the loudspeaker

The loudspeaker can be mounted both horizontally and vertically by means of the supplied mounting bracket. For mounting the loudspeaker on the desired mounting location, the mounting bracket should be removed from the loudspeaker. This can be done by loosening the screws on either side of the loudspeaker.
After this is done, the mounting holes should be indicated. For a stable mounting of the loudspeaker it should always be fastened by two screws. The position of the mounting holes depends of the mounting position, horizontally or vertically with a spacing of 162 mm in between. After this, the bracket can be mounted on the desired location. Always use the proper fasteners depending of the mounting surface.
Once the bracket is mounted on the desired location, the loudspeaker can be fixed to the bracket.
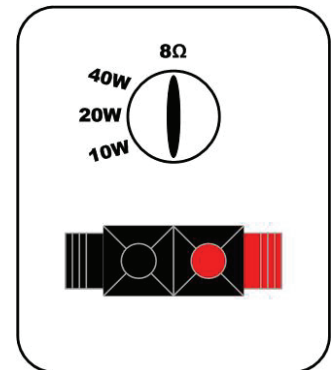
Connecting the loudspeaker

Two connection terminals are provided on the rear side to connect the loudspeaker to the amplifier output. Always connect the black connection terminal to the COM output of the amplifier and the red connection terminal to the positive terminal of the amplifier output.

Mind the polarity markings when wiring the loudspeaker cables.

Power settings

On the rear side of the WX502 loudspeaker a recessed adjuster screw is provided. Using this adjuster screw the power / impedance of the loudspeaker can be set in 3 adjustable steps of impedance for 100V (40 Watt, 20 Watt, 10 Watt) and 1 step for 8 Ohm standard low impedance applications.

1) 8 Ohm / 50 Watt

2) 40 Watt / 250 Ohm

3) 20 Watt / 500 Ohm

4) 10 Watt / 1000 Ohm

When the loudspeaker is connected to 70.7V facilities, the power indicated in the table above will be reduced to half the power, and when connected to 50V facilities, the power will be reduced to a quarter.

When the desired power tap is selected, the loudspeaker is ready to be used.

Additional information WX502

Technical specifications:

RMS Power	50 W
Max Power	100 W
Nominal Impedance	8 Ohm
Line transformer power tappings	250 Ohm / 40 W
	500 Ohm / 20 W
	1000 Ohm / 10 W
Sound pressure 1W / 1m	87 dB
Sound pressure max W / 1 m @ 8 Ohm	104 dB
Sound pressure max W / 1 m @ 100V	102 dB
Frequency response -3 dB	90 Hz - 18 kHz
Frequency response -10 dB	70 Hz - 18 kHz
Cross-over frequency	2500 Hz
Horizontal coverage	110°
Vertical coverage	110°
Drivers	1" HF + $5^{1/4}$" LF
Dimensions (W x H x D)	212 x 147 x 136 mm
Weight	2,52 kg
Construction	ABS
Accessories included	Wall bracket
Colours	Black
	White
	Silver