

# PA 190 USB/R

Amplifier / Mixer



**PA 190 USB/R** is a 180W power amplifier that features a 5 input mixer and 4 different and selectable zones. It includes a solid state audio player/recorder(USB/SD) compatible with standard formats (MP3, WMA). It is possible to record voice messages and then play them back. The device support USB and SD storage devices with up to 32 GB memory.

Regarding audio control, the mixer includes all the functions required for full control of the 5 signal inputs: Independent volume control, master control of level, bass and treble tone. The mixer also has a pre-out to send mixed signal to an external amplified system or to connect external devices like equalizers and processors. A monitor output allows connecting up to 1W of load such as a control room monitor speaker.

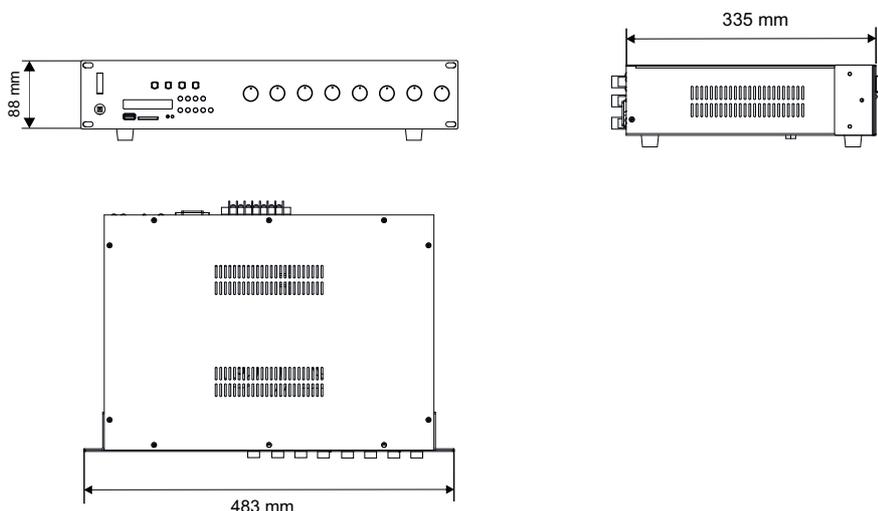
**PA 190 USB/R** is suitable for low impedance speakers (4/ 8/ 16Ω) and high impedance loads ( 25/ 70/ 100V). In addition for maximum safety in the whole installation, it includes a Chime on/off switch and a Telephone/Emergency connection for emergency announcement.

## Features

- Installed sound power amplifier & 5 input mixer.
- 4 Selectable zones.
- Solid state audio player/recorder (USB/SD) with standard formats (MP3, WMA).
- Support storage device of up to 32 GB.
- 4 MIC inputs / 4 LINE inputs.
- 1 AUX/CD/Tuner/Tape input.
- Monitor output.
- Mixer with independent control of volume, master and tone control (Bass/Treble).
- 2 different outputs (Priority & Music-speech).
- Pre-out function.
- Suitable for low impedance (4/ 8/ 16Ω) and high impedance (25/ 70/ 100V)
- Chime on/off switch.
- Telephone/Emergency connection for paging and emergency announcements.

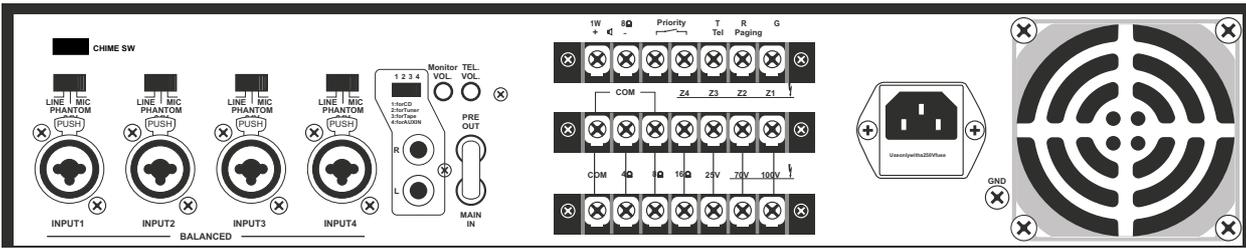
## Dimensions

\* In mm.



# PA 190 USB/R

## Rear View



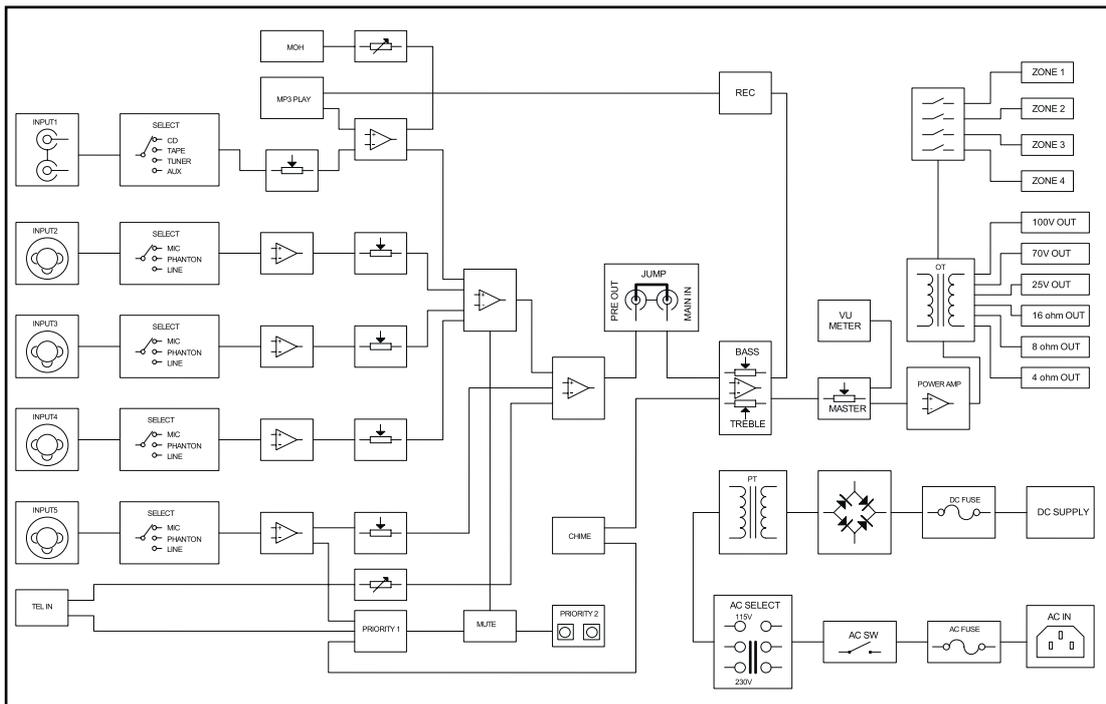
## Specifications

<b>Type:</b>	Installed sound power amplifier / mixer	
<b>Output Power:</b>	<b>Rated:</b>	180W
	<b>Max:</b>	240W
<b>Input 1 (Impedance/Sensitivity)</b>	<b>CD</b>	80kΩ /700 mV (-3 ±2dBV) unbalanced
	<b>TUNER</b>	56kΩ /500 mV (-6 ±2dBV) unbalanced
	<b>TAPE</b>	20kΩ /220 mV (-13 ±2dBV) unbalanced
	<b>AUX IN</b>	20kΩ /100 mV (-20 ±2dBV) unbalanced
<b>Inputs 2-5 (Impedance/Sensitivity)</b>	<b>MIC</b>	600Ω /1 mV (-60 ±2dBV) balanced/unbalanced
	<b>LINE</b>	47kΩ /125 mV (-18 ±2dBV) unbalanced
<b>Additional inputs (Impedance/Sensitivity)</b>	<b>TEL</b>	20kΩ /100 mV (-20 ±2dBV)
	<b>Main IN</b>	10kΩ /1V (0 ±2dBV) unbalanced
<b>Inputs (Connection Type):</b>	<b>Input 1</b>	2x RCA
	<b>Input 2-5</b>	COMBI (XLR3/Jack 1/4")
	<b>TEL</b>	Terminals
	<b>Main In</b>	1x RCA
<b>Outputs</b>	<b>Speaker</b>	Low Impedance (4/8/16Ω) + Voltage Line (25/70/100V)
	<b>Monitor</b>	4k7Ω /350 mV (-7 ±2dBV) (Terminals)
	<b>PRE</b>	600Ω /300 mV (-10 ±2dBV) (1x RCA)
<b>THD + N</b>	Less than 1% at 1 kHz, rated power	
<b>Frequency Response:</b>	<b>Input 1</b>	30 Hz - 18 kHz
	<b>TEL</b>	10 Hz - 3 kHz

<b>F. Response Input 2-5</b>	<b>MIC</b>	50 Hz - 14 kHz
	<b>LINE</b>	30 Hz - 14 kHz
<b>S/N Ratio:</b>	<b>Input 1</b>	65 dB below rated power
	<b>Input 2-5</b>	55 dB below rated power
	<b>Main In</b>	65 dB below rated power
<b>Tone Controls</b>	<b>Bass</b>	±10 dB/ 25 Hz - 160 Hz / Centre freq. 60 Hz
	<b>Treble</b>	±10 dB/ 4k Hz - 20 kHz / Centre freq. 10 kHz
<b>Chime:</b>	4 tone (Attention signal preceding a call)	
<b>Priority:</b>	Tel/Emer. - Input 5	
<b>Type:</b>	Solid state player/recorder (USB/SD)	
<b>Formats:</b>	MP3 / WMA	
<b>Storage:</b>	Up to 32 GB	
<b>Folders/Tracks:</b>	Up to 99 + FRE (REC folder) / 999	
<b>Repeat modes:</b>	One track, all tracks, random mode	
<b>Power Supply:</b>	AC 115/230V, 50/60 Hz ±10%	
<b>Consumption:</b>	395W	
<b>Phantom Voltage:</b>	24 ±2V	
<b>Dimensions:</b>	483 x 88 x 335 mm (2 HU 19" rack)	
<b>Weight:</b>	11.6 kg	

\* Specifications are subject to change without notice.

## Block Diagram



Rev. 12.06.01