120/240W 6-Channel Commercial Amplifiers

PA6X Product Manual

PULSEAUDIO

⚠ Safety Instructions

For optimum performance and safety, please read these instructions carefully before use and keep this guide for future reference. Please have the part number, serial number, and invoice available when requesting support.

- To prevent an electrical shock, please ensure all devices are properly grounded.
- Place the device in a well-ventilated area and do not block any ventilation openings.
- Do not expose or place device near water - liquid may cause a failure, fire, or eletrical shock.
- Do not place the device on an uneven or unstable surface - a fall may result in a malfunction.
- Never insert anything metallic into the device - this may cause an electrical shock.
- If a third-party power supply is used, please ensure it meets the requirements of this device.

Additional Resources

Visit the product page at www.vanco1.com for the latest version of this document and other resources.

Description

The PA6X series of 6-channel commercial amplifiers are designed for versatile audio distribution in retail, hospitality, and office environments. Supporting both 8ohm and 70/100V speaker systems, it offers flexible installation options to suit a wide range of projects. With inputs for two microphones, multiple line sources, Bluetooth connectivity, USB flash drives, SD/MMC memory cards, and a FM radio tuner, it delivers convenient playback and seamless mixing capabilities. Available with 120W or 240W total power output, these amplifiers provide reliable performance and a clear, balanced sound for any commercial setting.

Key features:

- Compatible with 4/8/16ohm and 70/100V speaker systems
- 120/240W total power or 20/40W per channel
- Multi-zone control to independently manage audio in 6 zones
- Front panel dials control for all functions
- Rack mounting ears and hardware included

Box contents:

- (1) PA6X120/240 amplifier
- (1) Set of rack mounting ears and hardware
- (1) FM tuner antenna
- (1) Remote control
- (1) Quick start guide
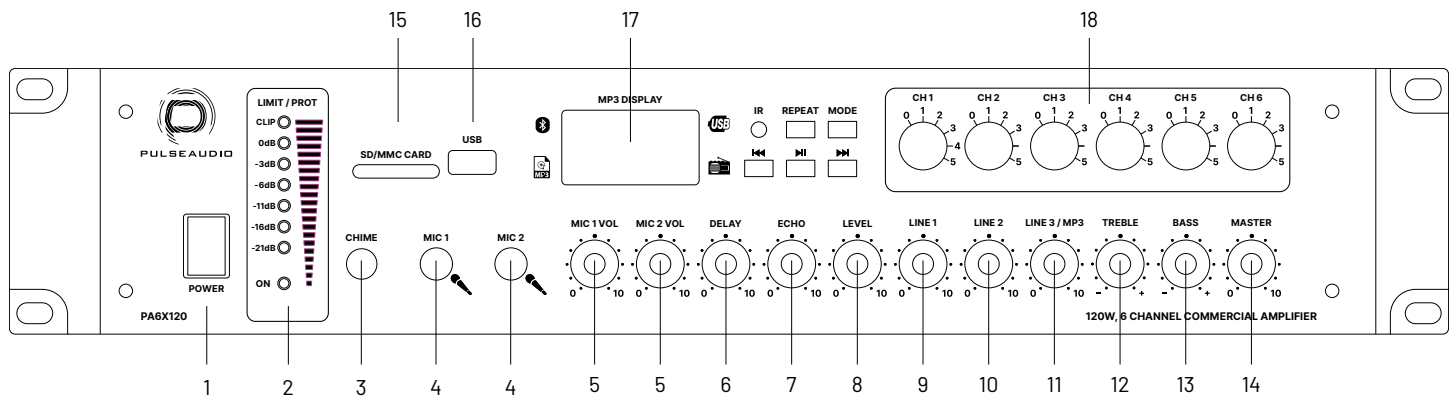

PA6X120 120W, 6-Channel Commercial Amplifier
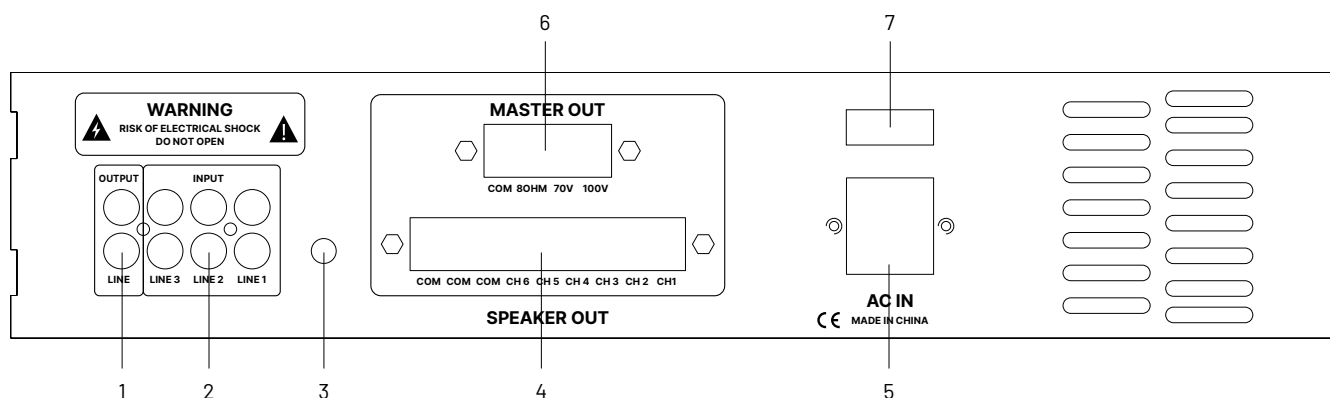
120W of total power or 20W per channel

PA6X240 240W, 6-Channel Commercial Amplifier

240W of total power or 40W per channel

Panel Descriptions

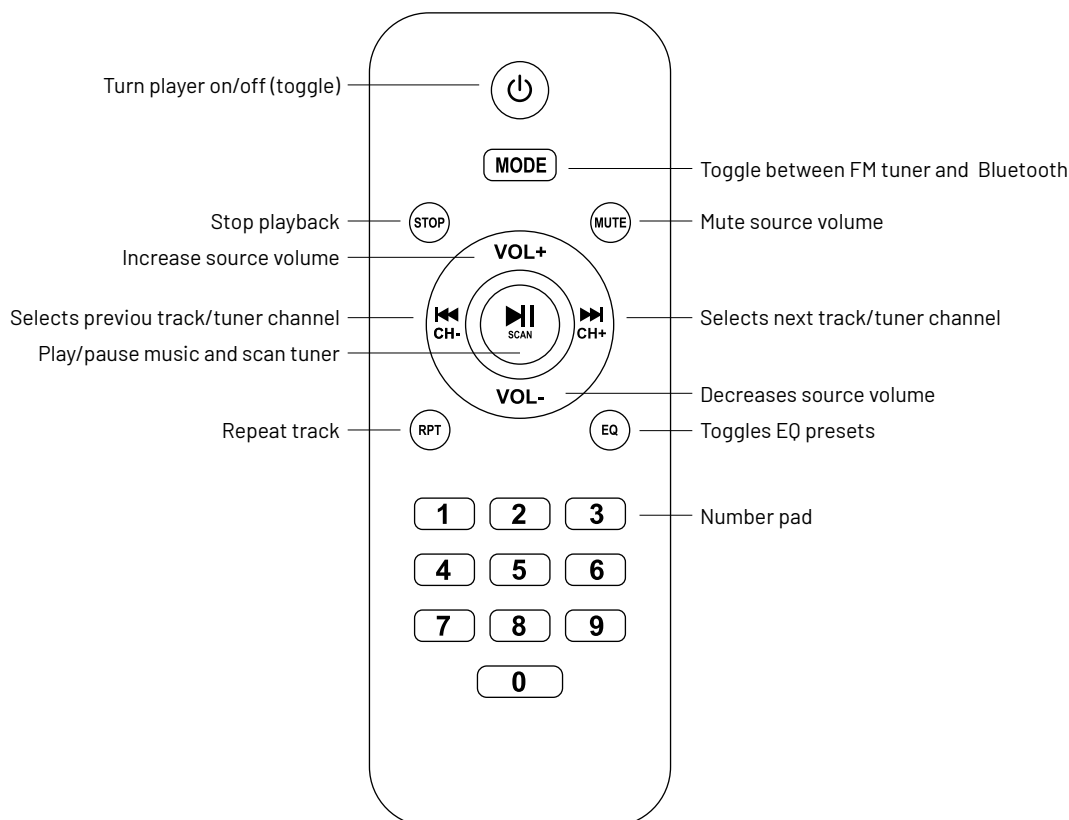| Front Panel			
1	Power Switch		Turns device on/off
2		Level Display	Shows level of the Master Output
		Limit / Prot	Senses clipping for protection based on Limit dial setting
3	Chime		Press to activate bell/chime from Master Output
4	Mic Inputs		1/4" microphone inputs
5	Mic Volume Control		Controls level of microphone output
6	Echo Delay Control		Adjusts time delay for echo
7	Echo Repeat		Control repeat time of echo effect
8	Echo Level Control		Control the depth of the echo effect
9	Line 1 Volume Control		Adjusts volume for Line 1 Input
10	Line 2 Volume Control		Adjusts volume for Line 2 input
11	Line 3/MP3 Volume Control		Adjusts volume for Line 3 input
12	Treble		Adjusts the "high" tones of the audio output
13	Bass		Adjusts the "low" tones of the audio output
14	Master		Overall volume control
15	SD/MMC Card Slot		Insert formatted SD card with content
16	USB Port		For connecting to USB flash drive with content
17	MP3 Display		Shows digital information of source being played
18	Speaker Output Control		Adjusts 6-independent volume control levels

WARNING
RISK OF ELECTRICAL SHOCK
DO NOT OPEN

OUTPUT INPUT
LINE LINE 3 LINE 2 LINE 1

MASTER OUT
COM 8OHM 70V 100V

COM COM COM CH6 CH5 CH4 CH3 CH2 CH1
SPEAKER OUT

AC IN
CE MADE IN CHINA

Rear Panel			
1	Line Outputs	Dual mono line level RCA outputs
2	Line Inputs	3 independent line level RCA stereo inputs
3	Antenna Port	Use with provided antenna for FM tuner
4	Speaker Output	Connects to 70/100V speakers
5	AC Connection	110V or 220V AC power connection
6	Master Output	Connects between 4-16 ohm stable speakers
7	Voltage Switch	Switch to be compatibility with 110V or 220V

Remote Control Description and Use

The provided remote is used to control internal or streamed sources such as Bluetooth, USB flash drive, SD Card, or FM tuner.

Turn player on/off (toggle)

Toggle between FM tuner and Bluetooth

Stop playback

Mute source volume

Increase source volume

Selects previou track/tuner channel

Selects next track/tuner channel

Play/pause music and scan tuner

Decreases source volume

Repeat track

Toggles EQ presets

Number pad

Specifications

Vanco International LLC reserves the right to change the specifications, features, and/or appearance of this product at any time without notice. Visit www.vanco1.com for the lastest versions of the manual and other resources.

Technical		
RMS Output Power	120/240W	
Master Speaker Impedance	4-16ohm	
Input Sensitivity - Microphone	-50dB / 600	
Input Sensitivity - Line	-10dB / 10k	
Frequency Response	60Hz - 18kHz	
Total Harmonic Distortion (THD)	0.1%	
Signal-to-Noise Ratio	Mic: 66dB	Line: 102dB
Zone Quantity	6	
Amplifier Type	Class AB	
Inputs	Stereo RCA, USB, Bluetooth 5.0, SD Card, 1/4" Mic, FM Tuner	
Outputs	Dual RCA mono outputs	
	4/8/16 ohm and 70V/100V screw down speaker terminal (Master)	
	6x 70/100V screw down speaker terminal	
Dimensions (W x D x H) - with rack ears	19in x 14.75in x 3.5in (480mm x 375mm x 88mm)	
Dimensions (W x D x H) - with feet (no rack ears)	17in x 14.75in x 3.9in (432mm x 375mm x 99mm)	
Weight	PA6X120: 18lbs (8.2kg)	PA6X240: 21lbs (9.5kg)
Power Supply	AC 100-120V or 220-240V	

Connect & Operate

Please reference the diagrams below for how to connect and operate the PA6X series of amplifiers.

Audio
Bluetooth
Power

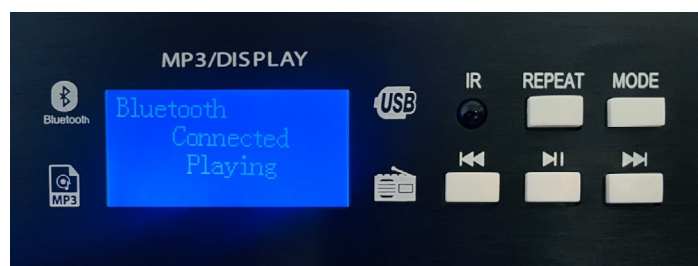Phone   Microphone   Computer   Speakers

Connection Diagram

1. Ensure power is off or removed from the PA6X series amplifier.

2. Connect any line in analog audio sources using the stereo dual-RCA input, USB flash drive, or SD or MMC memory card.

3. If using microphone(s), connect using the 1/4" connections on the front of the unit.

4. If using the built-in FM tuner, connect the provided antenna to the antenna port and extend and adjust for best results.

5. Connect the speakers accordingly:

   - COM acts as the NEGATIVE terminals and can be shared among others
   - CH1–CH6 acts as the POSITIVE terminals and are independent

   NOTE: Master Output has 4-16 ohm capabilities and 70V/100V capabilities. Use the COM terminal as the NEGATIVE and either 70V, 100V, or 8 ohm as the POSITIVE terminal

6. Connect the power into the power input port.

7. Power on attached audio devices and test.

Pairing Bluetooth

1. On the front panel of the amplifier, or by using the provided remote control, press the Mode button until Bluetooth is shown on the front panel LED.

2. On your Bluetooth enabled device, search through nearby Bluetooth devices and find and select PA-BT.

3. Play content. The status of the Bluetooth connection and action will be displayed on the front panel LED screen.