# KRAMER

PA-120Z / PA-240Z Quick Start Guide

This guide helps you install and use your **PA-120Z / PA-240Z** for the first time.

Go to **www.kramerav.com/downloads/PA-240Z** to download the latest user manual and check if firmware upgrades are available.
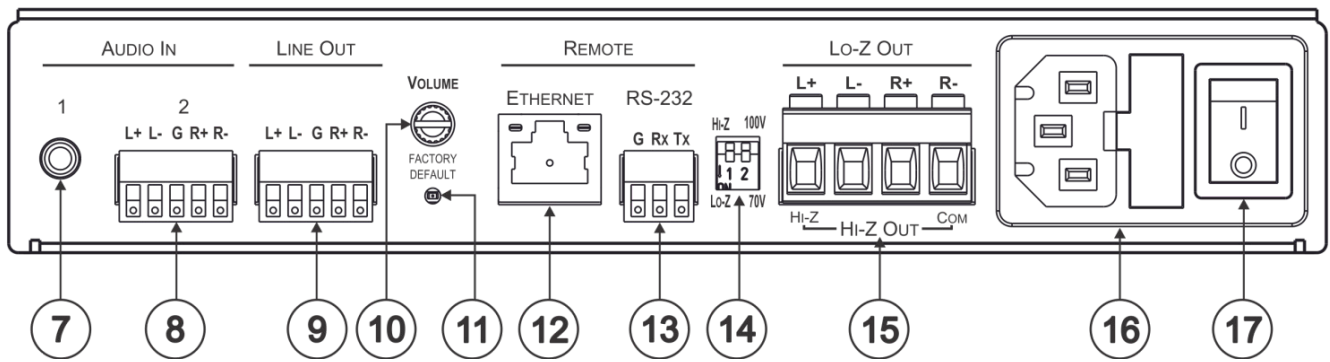
Step 1: Check what's in the box

☑ **PA-120Z / PA-240Z** 120W / 240W Power Amplifier

☑ 1 Power cord

☑ 4 Rubber feet

☑ 1 Quick start guide

Step 2: Get to know your PA-120Z / PA-240Z
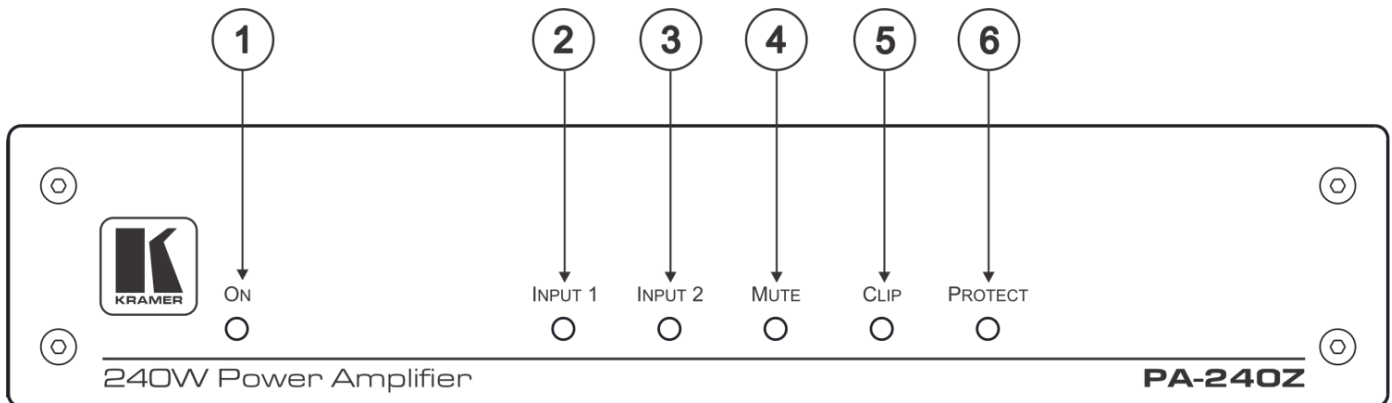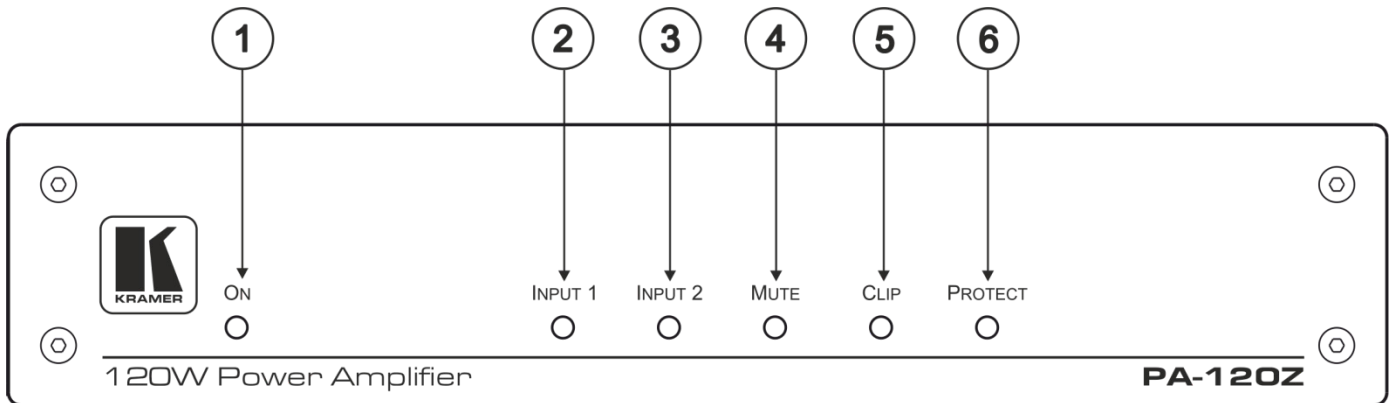
#	Feature	Function
1	ON LED	Lights green when powered on, orange when in standby.
2	INPUT 1 LED	Lights green when a signal is present on input 1.
3	INPUT 2 LED	Lights green when a signal is present on input 2.
4	MUTE	Lights red when the output is muted, off when unmuted.
5	CLIP LED	Lights red when the signal is clipped on the output and creating distortion. (When clipping is detected, lower the volume until the LED turns off.)
6	PROTECT LED	Lights red in case of over current / short / over heat. The device powers down until operation conditions are corrected and then powers up again.

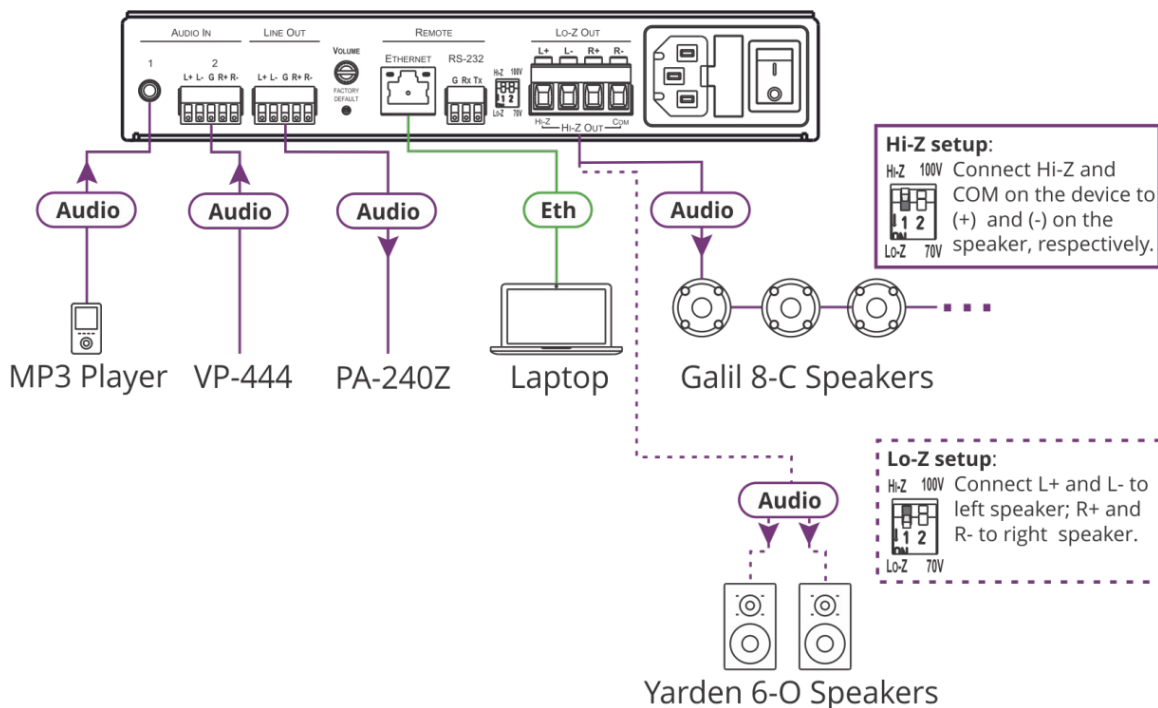| #	Feature		Function
7	AUDIO IN Connectors	Unbalanced Stereo Audio 3.5mm mini jack	Connect to an unbalanced stereo audio source.
8		balanced Stereo Audio 5-pin Terminal Block Connector	Connect to a line-level, balanced, stereo audio source.
9	LINE OUT Balanced Stereo Audio 5-pin Terminal Block Connector		Connect to a balanced, stereo audio acceptor (for example, amplified speakers).
10	VOLUME Attenuator		Master volume for speaker output – rotate to set the maximum amplifier volume.
11	FACTORY DEFAULT Button		Press to return to the factory default settings, including all the configurations and network settings.
12	ETHERNET RJ-45 Connector		Connect to an ETHERNET LAN.
13	RS-232 (G, Tx, Rx) Port		Connect to an RS-232 connector on A/V equipment or a PC or other Serial Controller.
14	Hi-Z/Lo-Z and 100V/70V DIP-Switches		Set to Hi-Z for high impedance and Lo-Z for low impedance. In Hi-Z, set to 70V or 100V.
15	Lo-Z/Hi-Z Out Terminal Block Connectors		Lo-Z – connect stereo output to Lo-Z speakers: L+ and L- to the left speaker; R+R- to the right speaker. Hi-Z (70V or 100V) – connect Hi-Z and COM to mono Hi-Z speakers. Speaker can output either the left side of the audio input or reduce the stereo input to a mono signal (via webpages).
16	Power Connector with Fuse		AC connector, enabling power supply to the unit.
17	Mains Power Switch		Switch for turning the device on or off.

Step 3: Install the PA-120Z / PA-240Z

Install **PA-120Z / PA-240Z** using one of the following methods:
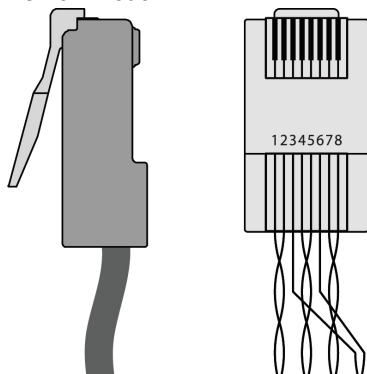
- Mount the unit in a rack using an optional **RK-1** rack adapter.
- Attach the rubber feet and place the unit on a flat surface.

Step 4:   Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your **PA-120Z / PA-240Z**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the **PA-120Z / PA-240Z**.


Hi-Z setup:
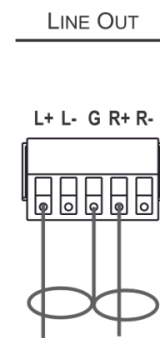Hi-Z 100V Connect Hi-Z and COM on the device to (+) and (-) on the speaker, respectively.
Lo-Z 70V

Lo-Z setup:
Hi-Z 100V Connect L+ and L- to left speaker; R+ and R- to right speaker.
Lo-Z 70V

MP3 Player   VP-444   PA-240Z   Laptop   Galil 8-C Speakers

Yarden 6-O Speakers

RJ-45 Pinout:

PIN EIA /TIA 568B	
PIN	**Wire Color**
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown

Connect the audio line out:

To a balanced stereo audio acceptor:
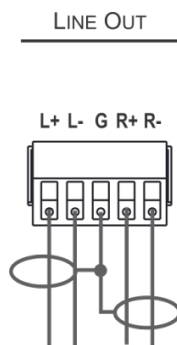
LINE OUT

L+ L- G R+ R-

To an unbalanced stereo audio acceptor:

LINE OUT

L+ L- G R+ R-

To a balanced stereo audio source:

AUDIO IN

1   2
L+ L- G R+ R-

To an unbalanced stereo audio source:

AUDIO IN

1   2
L+ L- G R+ R-
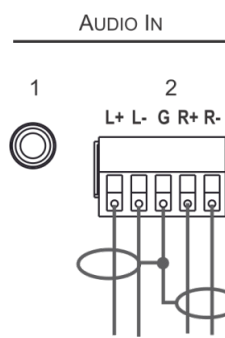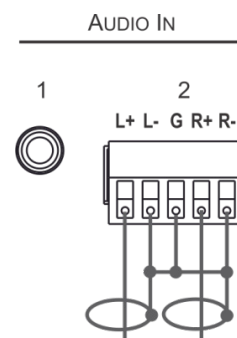
Step 5:   Connect the power

Connect the power cord to **PA-120Z / PA-240Z** and plug it into the mains electricity.

Safety Instructions

Caution: There are no operator serviceable parts inside the unit.
Warning: Use only the power cord that is supplied with the unit.
Warning: Do not open the unit. High voltages can cause electrical shock! Servicing by qualified personnel only.
Warning: Disconnect the power and unplug the unit from the wall before installing.
See www.KramerAV.com for updated safety information.

Step 6: Control PA-120Z / PA-240Z via the embedded web pages
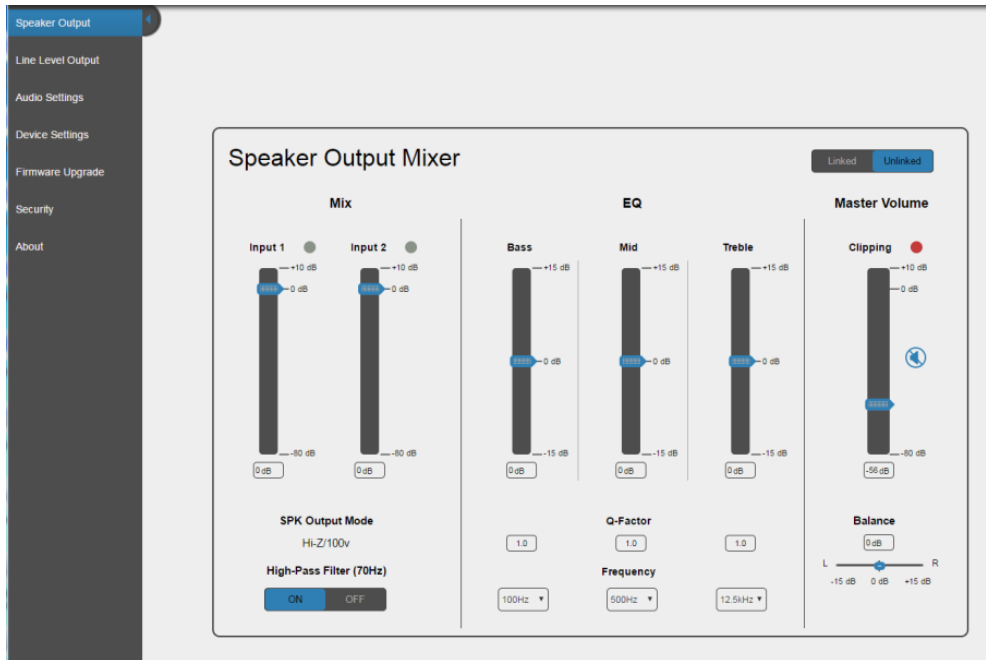
RS-232			
Protocol 3000			
Baud Rate:	115,200	Stop Bits:	1
Data Bits:	8	Parity:	None
Change the volume of input 2 to -10 DB	`#X-AUD-LVL 1,2,-10`		

TCP/IP Parameters					
IP Address:	192.168.1.39	Maximum UDP Connections:	Unlimited	UDP Port #:	50000
Subnet mask:	255.255.000.000	Maximum TCP Connections:	Unlimited	TCP Port #:	5000
Default gateway:	192.168.0.1	Default Username / Password:	Admin / Admin		

Full Factory Reset	
Protocol 3000	Excluding ETH: use "`#FACTORY`" command and use "`#RESET`" to restore the factory default values.

Technical Specifications

	PA-120Z	PA-240Z
Input:	1 unbalanced stereo on a 3.5mm connector 1 balanced stereo +4dBu/10kΩ on a 5-pin terminal block	
Output:	1 balanced stereo line level on a 5-pin terminal block 1 stereo or 1 mono speaker output on a 4-pin large terminal block	
Input Sensitivity:	Full power @ 0.3V (–10dBV)	
Output Power:	2 x 60W @ 4Ω or 8Ω 1 x 120W @ 70V or 100V	2 x 120W @ 4Ω or 8Ω 1 x 240W @ 70V or 100V
Amplifier Type:	Class D	
Maximum Voltage Gain:	26dB SE / 32dB BTL	
Dynamic Range	119dB	
Frequency Response	20Hz to 20kHz @ +/-1dB	
S/N Ratio:	80dB -10dBV, 20 Hz - 20 kHz	
Controls:	Screw trimmer amplifier attenuator, IP and RS-232	
Audio THD + Noise:	THD+N (1kHz @ 1W) 0.003 %	
Audio 2nd Harmonic:	0.08% @ 75W RMS @ 4Ω 6.67kHz	
Power Source:	Universal mains operational voltage 85VAC – 265VAC	Universal mains operational voltage 85VAC – 265VAC (full power at 120V – 230V)
Total System Efficiency	89.2%	89.5%
Dimensions:	21.2cm x 22.8cm x 4.3cm (8.35" x 8.98" x 1.69") W, D, H	
Weight:	1.0kg (2.2lbs) approx.	
Included Accessories:	Power cord	
Options:	RK-1 rack adapter	

Specifications are subject to change without notice at www.kramerav.com

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