



## INSTALLATION AND OPERATION MANUAL



### EZ-MXA20

Model numbers:  
EZ-MXA20 includes power supply with North American plug  
EZ-MXA20X includes worldwide power supply (specify plug)

#### 20 Watt Stereo Audio Mixer Amplifier with Tone Controls



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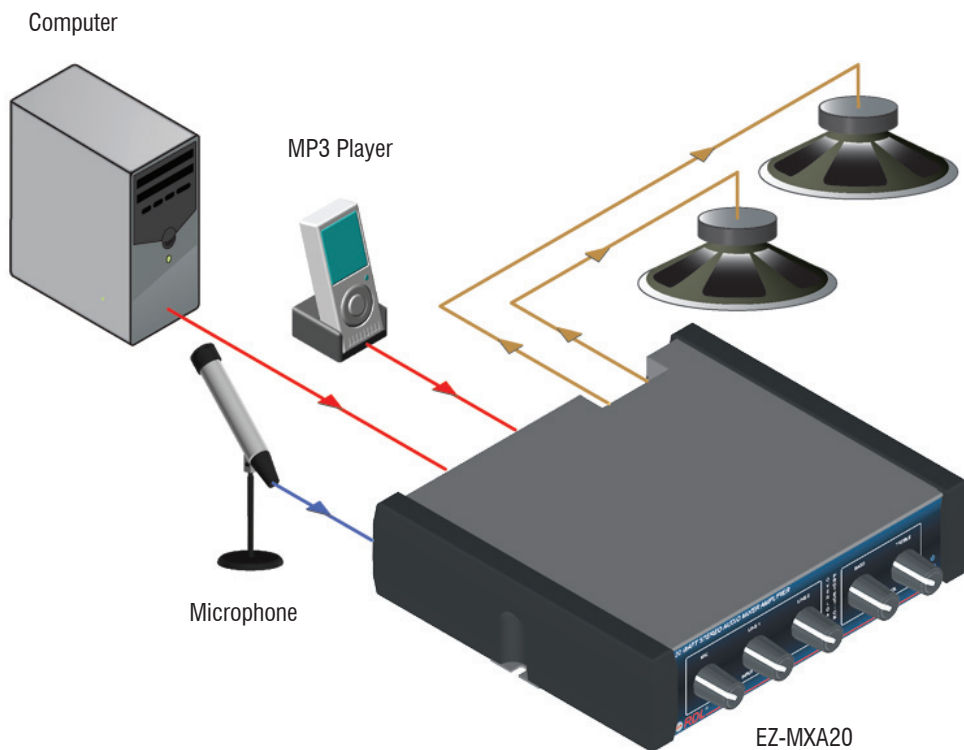
# EZ-MXA20

## 20 Watt Stereo Audio Mixer Amplifier with Tone Controls

- Audio Amplifier with Mic and Line Input Mixer
- 10 Watts RMS Per Channel into 8  $\Omega$
- 8 Watts RMS Per Channel into 4  $\Omega$
- Switch-Selectable Load Impedance on Rear Panel
- Balanced Microphone Input on XLR
- Unbalanced Line Inputs on RCA Jacks
- Switch-Selectable Phantom on Mic Input
- Bass and Treble Tone Control Equalization
- Integral Overload Limiter with LED Indicator
- Limiter Controls Overloads from Clipping

The EZ-MXA20 is a stereo mixer amplifier with one mic and two line inputs. Bass and treble tone controls are included. An integral compressor/limiter allows a higher sound output level without clipping than a standard amplifier. The outputs drive 4 or 8 ohm speakers. The EZ-MXA20 is used in houses of worship, restaurants, clubs, meeting rooms and commercial sound systems.

### TYPICAL APPLICATION



[www.rdl.net.com](http://www.rdl.net.com) . . . [www.rdlez.com](http://www.rdlez.com)

### **LINE INPUT LEVELS**

Adjust for the desired sound level from the sources connected to LINE IN 1 and 2.

### **MIC INPUT LEVEL**

Adjust for the desired microphone sound level.

### **OVERLOAD INDICATOR**

LED flashes when the internal compression circuits are protecting the amplifier output against overload. It is normal for this indicator to flash during high audio levels. Reduce the input level if this indicator flashes excessively or stays on continuously.

### **TONE CONTROLS**

Adjust for desired sound without causing amplifier overload.

### **POWER INDICATOR**

Glow blue when the product is connected to a valid power source.



### **24 V POWER INPUT**

Insert plug from power supply. Rotate 1/4 turn clockwise to lock.

### **SPEAKER WIRING**

Lift lever, insert wire. Close lever to lock.



### **IMPEDANCE SELECTOR**

Set to match the speakers connected:  
8 Ohm: Button OUT  
4 Ohm: Button IN

### **MICROPHONE INPUT**

Connect a microphone to the XLR jack. Microphone may be either a dynamic or condenser type.

### **PHANTOM SELECTOR**

Set for mic type connected:  
Dynamic mic: OFF (out)  
Condenser mic: ON (in)

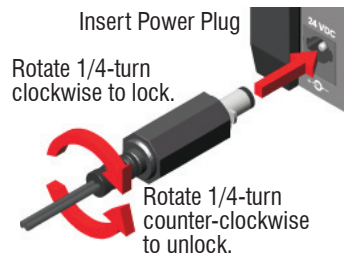
### **LINE INPUTS**

Connect a line-level source to LINE IN 1 and/or 2.

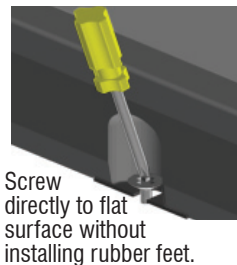
### **SPEAKER OUTPUTS**

Connect a pair of 8 Ohm or 4 Ohm speakers to the LEFT SPKR and RIGHT SPKR terminals. Connect the speaker "+" terminal to the amplifier "+" terminal. Connect the speaker "-" terminal to the amplifier "-" terminal. **DO NOT GROUND ANY SPEAKER OUTPUT TERMINAL!**

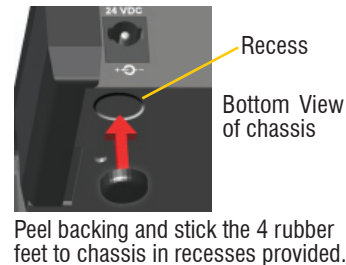
### **POWER CONNECTION**



### **FIXED MOUNTING**



### **RUBBER FEET ATTACHMENT**



## SELECTED MOUNTING ACCESSORIES Complete accessory listing available at: [rdlez.com](http://rdlez.com)

### EZ-RA6

**Rack Adapter** for 6 Increments of 1/6 Rack Width



### EZ-CC6

**Component Chassis** for 6 Increments of 1/6 Rack Width



### EZ-SMB2

**Surface Mount Bezel** for 1/3 Rack Width Products



### EZ-DC2

**Desktop Chassis** 1/3 Rack Width



### EZ-UCB2

**Under-Counter Brackets** 1/6 or 1/3 Rack Width



### EZ-SD2

**Storage Drawer** 1/3 Rack Width

Use In Place of Filler Panel  
Holds Adapters and Cables  
Mounts in EZ-CC6 and EZ-RA6



## TYPICAL PERFORMANCE

|                              |                                                                                                                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inputs (3):                  | 1.2 k $\Omega$ balanced on XLR jack, mic-level, -55 dBu Min. (for 10 W out), -11 dBu max (1);<br>> 10 k $\Omega$ , -10 dBV nominal on RCA jacks, -13 dBV Min. (for 10 W out), +22 dBV max. (2) |
| Gain:                        | Off to 74 dB (mic), Off to 32 dB (line)                                                                                                                                                        |
| Outputs (2):                 | Left and Right, 10 Watts RMS into 8 $\Omega$ per channel or 8 Watts RMS into 4 $\Omega$ per channel, switch-selectable output impedance                                                        |
| Equalization:                | $\pm 10$ dB @ 10 kHz, $\pm 9$ dB @ 80 Hz                                                                                                                                                       |
| Frequency Response:          | 50 Hz to 20 kHz ( $\pm 1.5$ dB, mic input, 10 Watts), 35 Hz to 20 kHz ( $\pm 1.5$ dB, line input, 10 Watts)                                                                                    |
| THD+N:                       | < 0.25%                                                                                                                                                                                        |
| CMRR:                        | > -55 dB (mic)                                                                                                                                                                                 |
| Crosstalk:                   | < -68 dB (1 kHz, line input)                                                                                                                                                                   |
| Phantom: S                   | switch-selectable 24 V (IEC 61938: 2013)                                                                                                                                                       |
| Noise:                       | < -70 dB (below 10 Watts, -10 dBV line input), < -65 dB (below 10 Watts, -50 dBu mic input)                                                                                                    |
| 24 Vdc power supply current: | 170 mA (idle), 1000 mA (max.)                                                                                                                                                                  |
| Power supply input voltage:  | 100 to 240 VAC                                                                                                                                                                                 |
| Warranty:                    | 3 Years; contact RDL technical support department for assistance                                                                                                                               |
| Case dimensions:             | 5.75" (14.6 cm)W x 5" (12.7 cm)D                                                                                                                                                               |
| Mounting size:               | 1/3 rack width                                                                                                                                                                                 |

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