

DESCRIPTION

The EAW Commercial CXA160 power amplifier features a flexible input/output design that makes it ideal for stand-alone operation as well as a convenient solution where additional system zones need to be added. Specifically intended for a wide variety of installation applications, CXA160 is outfitted with both a standard audio input as well as a dedicated priority input, combining to make them very cost-effective two-input by one-output units.

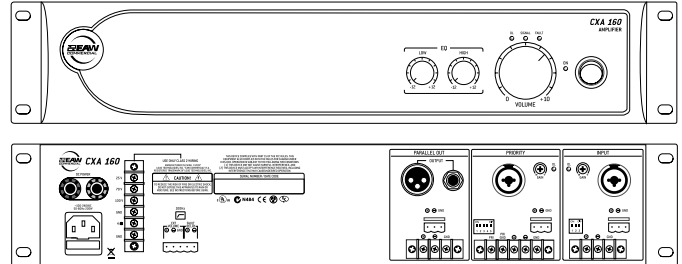
Two combination mic/line inputs are actively balanced, with individual adjustable potentiometers for line level input, mic level input, and mic level input with 24-volt DC phantom power. Input 1 and the priority input are divided into four discrete input sections: a combination XLR/TRS connector, Phoenix connector, or barrier strip. Meanwhile, a Parallel output provides handy “loop-through” capability - the means to pass un-amplified line level signals downstream to additional amplifiers via barrier strip, Phoenix, 1/4-inch or XLR outputs.

Priority announcements can be initiated with external contact closures or adjustable signal threshold levels. External volume control is also possible through a Phoenix connector as well as a user-supplied potentiometer. Further, a two-position Phoenix connector allows the internal fault relay to be connected to redundant systems.

Front panel controls include low and high EQ controls which offer 12 dB of boost or cut at 100 Hz and 10 kHz, respectively. A master volume control offers output volume control, while distinctive LEDs indicate power (green), signal (amber), overload (red), and fault (red).

The CXA160 provides 160 watts of output power at 100 volts, 70.7 volts, 25 volts and 4 Ohms. An intelligent output stage is fully protected against permanent damage caused by overloading, shorts and thermal faults.

CXA160 operates on 100 volts to 240 volts AC (50/60 Hz) and is supplied by a detachable IEC power cord. A combination banana plug/binding post connection is also provided for connecting an external 24-volt DC backup battery.



Features

- Two combination 1/4-inch/XLR/Phoenix, or barrier strip Mic/Line inputs
- One parallel output on barrier strip, Phoenix, 1/4-inch or XLR
- Selectable 24-volt phantom power
- Dedicated priority input
- Internal fault-activated relay
- External volume control
- 4-Ohm, 25-volt, 70-volt and 100-volt outputs
- Automatic changeover to 24-volt DC backup power
- Universal power supply
- UL Approved

Applications

- Paging Systems
- Hotel and Ballrooms
- Schools
- Foreground/Background Music Systems
- Houses of Worship
- Meeting Rooms
- Offices



CXA160

2 INPUT × 1 OUTPUT 160 W POWER AMPLIFIER

PERFORMANCE

Inputs	<i>Impedance</i>
Mic	Balanced, 2.7k Ohm
Line	Balanced, 30k Ohm
Input Protection	RFI and Level Protected
Input Gain Trim Range	-3dB to 40dB (Mic Input) -23dB to 20dB (Line input)
Max Input Level	+19dBV
Microphone Input E.I.N. (20Hz – 20kHz)	-124dBV
Common Mode Rejection Ratio (1kHz)	Mic Input 60dB Typical Line Input 30dB Typical
Dynamic Range	105dB
Frequency Response	20Hz – 20kHz +/-1dB
Distortion	<0.1% 20Hz – 20kHz
Operating Range (+0dB/- 3dB)	40Hz – 15kHz
Output Power	160W @ 100V 160W @ 70.7V 160W @ 25V 160W @ 4 Ohm

PHYSICAL

Front Controls	<i>Type</i>	<i>Range</i>
EQ	Lo High	+/- 12dB @ 100Hz +/- 12dB @ 10 kHz
Volume	Level	0 to 10
Power	AC Mains	On/Off

Rear Controls

Inputs 1–2	<i>Type</i> Trim Pot	<i>Range</i> 3dB to 40dB (Mic Input) -23dB to 20dB (Line Input)
Input 1	DIP	Parallel Enable, High-Pass Filter, 10 dB Pad
Input 2	DIP	Line, Mic, 24V Phantom, High-Pass Filter, 10 dB Pad
100Hz HPF		In/Out
External Volume Control		3 Position Phoenix
Fault Relay		2 Position Phoenix

Mains Power

AC	100Hz – 240HzVAC	50/60 Hz 220W
DC	24V	

Dimensions (inches)

H x W x D	with feet	4.0 x 17.25 x 14.6
	w/o feet	3.5 x 17.25 x 14.6

Dimensions (millimeters)

H x W x D	with feet	102 x 483 x 381
	w/o feet	88 x 483 x 381

Weight (approximate net lb/kg)

	17.7	7.9
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Shipping weight (lb/kg)

	22.8	10.2
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Operating temperature range

	-10°C to 45°C, 14°F to 113°F
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EMC STANDARDS:

U.S. - part 15 of the FCC Rules, EN55103-1, EN55103-2, EN55022 (Emissions), EN55024 (Immunity), C-Tick N484, Canada - ICES-003

SAFETY STANDARDS:

cTUVus, UL, cULus

ORDERING DATA:

P/N 0020861

