

CMA350

PRELIMINARY

Commercial Mixer/Amplifier



The **CMA350** commercial mixer/amplifier, combines a versatile 6-input mic/line mixer with 350 Watts of amplification. Mixing functions include one mic/line/telephone input, selectable automatic & manual channel muting, channel priority assignment, remote level control, tone control, a built-in compressor, an internal chime, phantom power, and extensive output patching. The amplifier includes an output transformer, and provides rated power into direct or distributed speaker systems. The CMA350 is covered by a five-year warranty.

FEATURES

- ◆ integrated mixer, power amplifier, and output transformer
- ◆ five electronically balanced microphone/line input channels
- ◆ one transformer balanced microphone/line/tel input channel
- ◆ rear panel trim control & pad switch on each input channel
- ◆ +24 Volt phantom power selectable on each input channel
- ◆ automatic muting of selected channels (-10, -20, or -40dB)
- ◆ automatic muting triggered by selected "priority" channels
- ◆ manual muting of selected channels (-10, -20, or -40dB)
- ◆ manual muting triggered from remote contact closures
- ◆ remote control of master level via rear panel terminals
- ◆ integral output compressor with rear panel threshold control
- ◆ recessed treble & bass controls plus "loudness" & "low-cut"
- ◆ two insert points for signal processing and remote control
- ◆ two line-outs and one stack-in for system interconnections
- ◆ 350 W power into direct or distributed systems
- ◆ front panel indicators for power, fault, signal, and peak
- ◆ internal 'pre-announcement' chime tone with level control
- ◆ input/output connections provided on barrier strip terminals
- ◆ integral security cover and removable rack-wing/handles
- ◆ covered by Five-Year "Gold Seal" Warranty
- ◆ CE marked, UL and C-UL (UL Canada) listed

ARCHITECT'S & ENGINEER'S SPECIFICATION

The commercial mixer/amplifier shall provide a 6-input mic/line mixer with an integral power amplifier. The power amplifier shall include a selectable output transformer, have 350 watts of power, and be capable of delivering rated power into direct or distributed speaker systems. Front panel indicators shall be provided for amplifier signal present, peak, and fault.

The mixer shall provide five electronically balanced mic/line input channels and one transformer balanced mic/line/telephone input channel. Each channel shall include a rear panel trim control, a front panel level control, and a +24V phantom power switch. Automatic and/or manual muting, by -10dB, -20dB, or -40dB, shall be selectable on each channel. Automatic muting shall be triggered by selected priority channels and manual muting shall be triggered by external contact closures. The output section of the mixer shall include a master level control, recessed tone controls with on/off switch, loudness & low-cut filter switches, a built-in compressor with a rear panel threshold control, and an internal pre-announcement chime tone with rear panel level control. Rear panel terminals shall allow remote control of master level. Two separate insert points shall be provided for connection of external signal processing or remote control devices. Two line outputs and one stacking input shall be provided for other system interconnections. All channel input and amplifier output connections shall be on barrier strip screw terminals. The mixer/amplifier shall include a see-through security cover and removable rack-wing/handles.

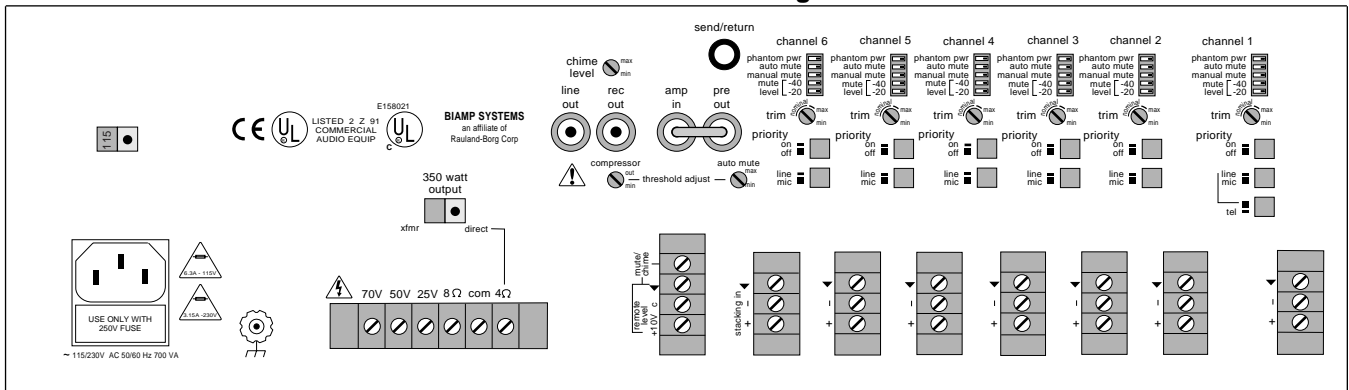
Frequency Response shall be +0/-1.5dB from 20Hz to 20kHz at rated power into a direct load. THD + Noise shall be less than 0.2% at 1kHz at rated power. Equivalent Input Noise shall be -123dBu at mic input with 150Ω termination. Signal-to-Noise shall be greater than 78dB from 20Hz to 20kHz at line input at rated power. Power consumption shall be less than 760 Watts. Dimensions shall be 5.38" (3 rack spaces) high, 19" wide, and 14" deep. Weight shall be 55 lbs. The mixer/amplifier shall be CE marked, UL / C-UL listed, and shall carry a five-year warranty.

The 350 Watt mixer/amplifier shall be a PRECEDENCE® CMA350.

SPECIFICATIONS

Output Power:	350 Watts	Output Regulation (no load to full load)	< 0.5dB
Power Bandwidth (THD < 0.4%):		Equivalent Input Noise (mic in, 150Ω termination):	-123dBu
direct output	20Hz-20kHz	Input Impedance / Sensitivity	
transformer output	50Hz-20kHz	mic inputs	6kΩ / -77dBu (110μV)
Frequency Response (+0/-1.5dB):		line inputs	15kΩ / -37dBu (14mV)
direct output	20Hz-20kHz	telephone inputs	600Ω / -60dBu (775μV)
transformer output	50Hz-20kHz	amplifier input	10kΩ / +4dBu (1.2V)
THD + Noise		stacking input	20kΩ / -8dBu (300mV)
1kHz @ rated power	< 0.2%	patch/return input	10kΩ / -8dBu (300mV)
Output Regulation (no load to full load)	< 0.5dB	Amplifier Output Impedance / Level:	
line inputs	78dB		4Ω / 37.4V
telephone inputs	78dB		8Ω / 53V
master level off	98dB		1.8Ω / 25V
Compressor:			7.1Ω / 50V
attack time	< 1mSecond		14Ω / 70V (28.6Ω / 100V Export)
release time	> 1 Second	Power Requirement	120VAC 60Hz / 240VAC 50Hz
compression ratio	4 : 1	Power Consumption:	Less than 760 Watts
threshold adjust range	15dB	Dimensions (includes rack/handles & feet):	
Output Impedance / Level:		height (three rack spaces)	5.24" (133mm)
preamp output & line output	200Ω / +4dBu (1.2V)	width	19" (483mm)
record output	200Ω / +4dBu (1.2V)	depth	14" (356mm)
patch/send output	50Ω / -8dBu (300mV)	Weight	55 lbs (25.95Kg)

CMA 350 Rear Panel Diagram



CMA 350 Block Diagram

