

Mixer/Preamplifier

Model CAM



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| Features | <ul style="list-style-type: none">• Active mixing• 4 microphone and 1 auxiliary inputs• High- and low-impedance (balanced or unbalanced) microphone inputs• Multiple units may be interconnected• Individual and master volume controls• 120VAC or 24-28VDC operation• High- and low-impedance microphone output, high-impedance auxiliary output• UL and CSA listed |
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Description

The Bogen Model CAM is a five-input fully transistorized mixer-preamplifier which meets a wide variety of applications. The CAM is particularly well suited for expanding the number of inputs on Bogen or other public address amplifiers. The CAM provides four microphone inputs and one auxiliary input and supplies both microphone-level and high-level outputs. Individual units may be interconnected for even more microphone inputs.

The CAM incorporates active mixing for nearly zero interaction between input controls. Microphone channel isolation exceeds 80dB. Active mixing minimizes the residual mixing bus noise, consistent with control settings and number of inputs, and provides constant preamplifier gain (constant input sensitivity) as input channels are added.

Model CAM accommodates both high-impedance and low-impedance balanced or unbalanced microphones, and has an input for crystal or ceramic cartridges, tuners or other high level sources. The unit provides outputs to a high-impedance or low-impedance balanced or unbal-

anced microphone, and a high-level, high-impedance public address amplifier, tape recorder or similar equipment.

The unit may be rack-mounted with a Model RPK-35B Rack Panel Kit, or vertically in-wall mounted with a Model WMK-1 Wall Mounting Kit. The CAM operates from 120VAC, 60Hz or 24-28VDC power sources.



Technical
Specifications

Rated Output:	2.5V Hi-Z output; 125mV Hi-Z MIC output; 12.5mV Lo-Z MIC output		
Output Impedance:	Lo-Z MIC 25-600 ohms balanced or unbalanced; Hi-Z MIC 20,000 ohms (or higher) unbalanced; Hi-Z AUX output 50,000 ohms (or higher) unbalanced		
Frequency Response:	Flat ± 2 dB, 20Hz to 20,000Hz		
Hum and Noise:	MIC 70dB below rated output; AUX 80dB below rated output; MASTER 90dB below rated output		
Distortion:	Less than 1% at rated output, 20Hz to 20,000Hz		
Equivalent Input Noise:	-123dBV		
Inputs:	4 balanced or unbalanced Lo-Z MIC or Hi-Z unbalanced MIC, 1 AUX		
Gain:	Lo-Z MIC Output	Hi-Z MIC Output	Hi-Z Output
Lo-Z MIC/300 μ V	+10dB/1mV	+30dB/10mV	+66dB/600mV
Hi-Z MIC/3mV	-10dB/1mV	+10dB/10mV	+46dB/600mV
AUX/30mV	-30dB/1mV	-10dB/10mV	+26dB/600mV
Input/Output Connections:	Microphone: Professional three-pin audio connectors (male) Canon XLR or Switchcraft A3 Series; AUX-Hi-Z: Standard phono jack		
Semiconductors:	All silicon; 16 transistors, 2 diodes		
Controls:	4-MIC volume; 1-AUX volume; 1-MASTER volume; 1-Power switch 4-microphone input impedance selector; 1-microphone output impedance selector		
Power Consumption:	120VAC, 60Hz, 0.02 Amps; 24-28VDC, 0.01 Amps		
Dimensions:	11-3/8"W x 2-7/8"H x 7-3/4"D (28.9 x 7.3 x 19.7cm)		
Shipping Weight:	6 lbs. (2.7kg)		
Accessory Equipment:	RPK-35B Rack Mounting Kit; WMK-1 In-Wall Mounting Kit; BPA-60 Power Amplifier; HTA-125A & HTA-250A Power Amplifiers		

Architects
and Engineers
Specifications

The unit shall be an all-silicon transistor, solid-state mixer-preamplifier, Bogen Model CAM or approved equivalent. It shall operate from either a 120VAC 60Hz or 24-28VDC source. Inputs shall be provided for four balanced or unbalanced low- or high- impedance microphones and one high-impedance, high-level, auxiliary sound source. The preamplifier shall incorporate active mixing to minimize both mixing bus noise and interaction between channel gain controls. The preamplifier shall provide a balanced or unbalanced low-impedance output, or a high-impedance unbalanced microphone level output and a high level/high impedance output that may be used simultaneously.

Frequency response shall be less than ± 2 dB from 20 to 20kHz, with distortion less than 1% at rated output of 2.5 volts rms from 20 to 20kHz. Equivalent input noise voltage shall be -123dBV, referencing a 150-ohm source impedance, with the hum and noise down a minimum of 80dB for high-impedance program inputs. Sensitivity and gain of the unit, and its other operating parameters, shall be as set forth in the Technical Specifications table.

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