



VMA Series

VMA160

VMA1120

VMA1240

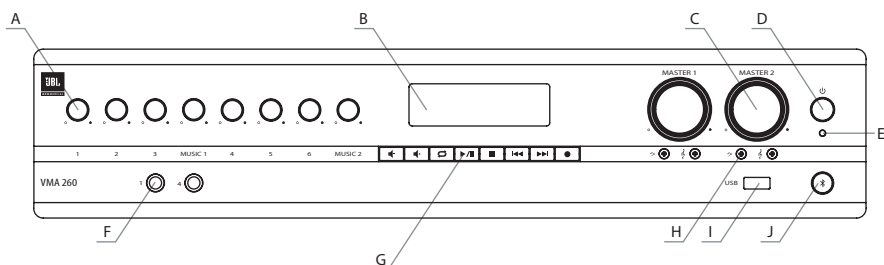
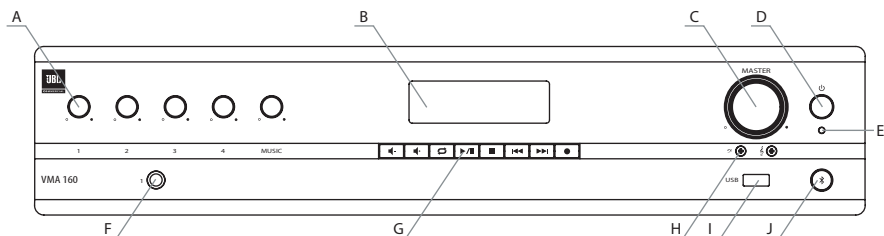
VMA260

VMA2120

Commercial Series

1 Channel & 2 Channel Mixer-Amplifier





1.3 Rear Panel Controls & Connectors (VMA160, VMA1120, VMA1240)

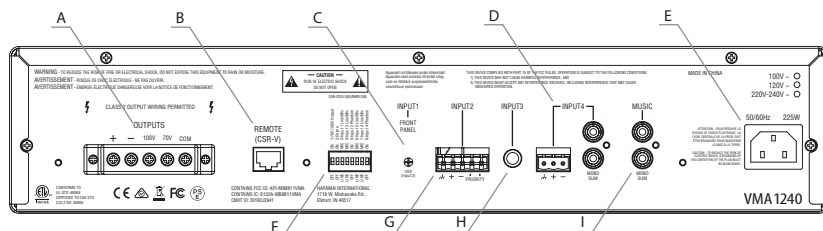


Figure 1.3.1 Rear Panel - VMA 1240

- A. Amplifier output connectors.
- B. Remote volume connectors – RJ-45 style connector to connect to JBL CSR-V control module.
- C. VOX sensitivity adjustment for Input 1.
- D. Input 4 may use either Euroblock or RCA style connector.
- E. AC Power Inlet – Detachable IEC.
- F. Configuration switches control mic/line gain settings and phantom power for the inputs as well as enable the chime and 70V/100V output mode.
- G. Input 2 – Euroblock connector provides for audio input and priority contacts that will duck other channels during an announcement when contacts closed using a switch.
- H. Input 3 accepts a 1/4" TRS connector.
- I. Music input uses a Dual RCA Connector. Stereo, unbalanced sources will be summed together.

1.4 Rear Panel Controls & Connectors (VMA260 & VMA2120)

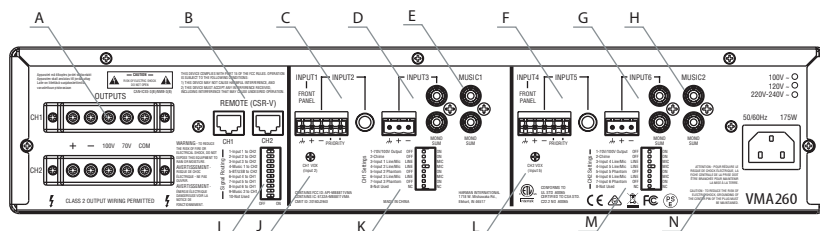


Figure 1.4.1 Rear Panel - VMA 260

- A. Amplifier output connectors.
- B. Remote volume connectors – RJ-45 style connector to connect to JBL CSR-V control modules.
- C. Input 2 – Input audio through either the Euroblock connector or the 1/4" TRS connector. Pins 4 and 5 of the Euroblock are priority contacts that will duck other channels during an announcement when the contacts are closed using a switch.
- D. Input 3 accepts input through either the 3-pin Euroblock or the Dual RCA jacks. Stereo, unbalanced sources will be summed into a mono signal.
- E. Music1 input uses a Dual RCA Connector. Stereo, unbalanced sources will be summed together.
- F. Input 5 – Input audio through either the Euroblock connector or the 1/4" TRS connector. Pins 4 and 5 of the Euroblock are priority contacts that will duck other channels during an announcement when the contacts are closed using a switch.
- G. Input 6 accepts input through either the 3-pin Euroblock or the Dual RCA jacks. Stereo, unbalanced sources will be summed together.
- H. Music2 input uses a Dual RCA Connector. Stereo, unbalanced sources will be summed together.
- I. Signal Routing DIP switch is used to route inputs to both output channels. By default, each group of inputs is routed only to its respective output channel (Input 1 – Music1 are routed to output CH1, Input 4 – Music2 are routed to output CH2).
- J. VOX sensitivity adjustment for Input 1.
- K. CH1 Settings DIP switch is used to enable the 70V/100V output option, turn on the chime feature, select input gain, and enable phantom power for CH1.
- L. VOX sensitivity adjustment for Input 4.
- M. CH2 Settings DIP switch is used to enable the 70V/100V output option, turn on the chime feature, select input gain, and enable phantom power for CH2.
- N. AC Power Inlet – Detachable IEC.

Appendix A: Preliminary Performance Specifications

Performance	VMA160	VMA1120	VMA1240	VMA260	VMA2120
Max Output Power per Channel into 4 Ω or 8 Ω ; 1kHz, $\leq$ 0.5% THD	60W	120W	240W	60W	120W
Insertion Loss (70V & 100V outputs)	1 dB maximum				
Number of Input Channels	5	5	5	8	8
Number of Output Channels	1	1	1	2	2
Tone Controls (Bass and Treble non-detented potentiometers on each channel)	Bass +/-14dB @ 50Hz Treble +/-14dB @ 10kHz				
Input Sensitivity (to obtain full rated power into 8 Ω load)	Mic Input: 5.5mV _{RMS} Line Input: 1.3V _{RMS} RCA Input (stereo in): 130mV _{RMS}				
Frequency Response (measured at 2.83V _{RMS} into rated load impedance at any output)	4/8 Ω Output: 20Hz - 20kHz, +/-2dB 70V/100V Outputs: 80Hz - 15kHz +/-3dB				
Total Harmonic Distortion (THD) (measured at 2.83V _{RMS} into rated load impedance at any output)	Power Amp Output: <0.5%, 20Hz - 20kHz				
Signal-to-Noise Ratio (Ref. Rated Power, mixer levels @ min., master volume @ max. A-weighted)	>76dB				
Input Impedance (nominal)	Mic: 400 Ω Line: 20 k Ω (balanced) RCA: 50 k Ω				
Phantom Power	27VDC				
Crosstalk (reference rated power, volume at mid position, 1kHz)	-70 dB				
Nominal AC Line Voltages	100V, 120V, 220V, 220-240V, 50/60 Hz				
Minimum Load Impedance Low Impedance Output 70V Output 100V Output	4 Ω 80 Ω 160 Ω	4 Ω 40 Ω 80 Ω	4 Ω 20 Ω 40 Ω	4 Ω 80 Ω 160 Ω	4 Ω 40 Ω 80 Ω
Operating Temperature/ Humidity	0°C to 35°C @ 95% R.H. (non-condensing)				
Storage Temperature	-20°C to 85°C				
Dimensions & Weight					
Net Weight	19.4 lb (8.8 kg)	20.2 lb (9.2 kg)	25.5 lb (11.6 kg)	25.5 lb (11.6 kg)	29.3 lb (13.3 kg)
Dimensions	Width: 17.0 in. (432 mm) Depth: 16.3 in. (415 mm) Height: 3.5 in. (88 mm)				
Shipping Weight	24.6 lb (11.2 kg)	25.5 lb (11.6 kg)	30.8 lb (14 kg)	30.8 lb (14 kg)	34.5 lb (15.7 kg)

Note: For AC power draw and thermal dissipation information, please visit our website. www.jblcommercialproducts.com

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