

# Power Vector Mixer

## Model VMIX



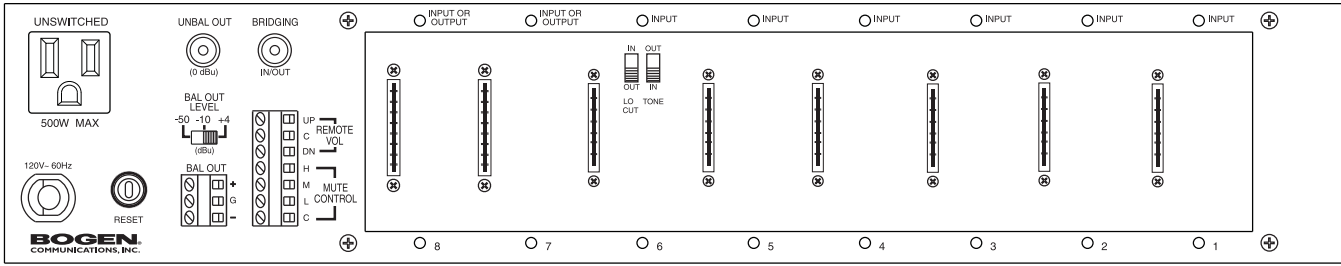
**Description** Bogen's Power Vector Mixer is an 8-channel mixer/pre-amplifier, offering a wide variety of operational features and functions for superior audio performance. Eight module bays accept plug-in input modules, allowing up to four levels of priority between modules. Two module bays are capable of accepting signal processing plug-in output modules. Each module is controlled by an independent volume control with an associated signal/clip LED for signal status, and an 11-segment LED output level meter that monitors output signal level. In addition, the VMIX has a motorized master volume control (that can be controlled using a remote control panel, RVCP, sold separately), bass and treble control, Avg/Peak switch, unbalanced output jack, and balanced output terminal. Optional security covers prevent tampering of settings. The VMIX can be used for various applications including foreground music, background music, and paging. For large applications, several VMIX units can be bridged together.

- Features**
- Wide selection of plug-in modules (sold separately)
  - 8 input module bays; each with independent volume controls
  - 2 module bays capable of handling signal-processing plug-in output modules
  - 4 levels of priority between modules
  - Motorized master volume control; remotely operated (with RVCP Remote Volume Control Panel, sold separately)
  - LED signal/clip indicator for each channel
  - Bass and treble controls
  - 11-segment LED output level meter monitors the output level of the mixer with Avg/Peak switch
  - Balanced transformer-isolated output
  - Balanced output signal level switch (-50, -10, and +4 dB $\mu$ )
  - Unbalanced signal output jack
  - Join multiple Power Vector mixers together using bridging jack and mute terminals
  - 125 Hz Low-cut feature (switch located in module bay 6)
  - Tone control bypass switch (located in module bay 6)
  - Rack mountable (rack mounting kit RPK87, sold separately)
  - Resettable circuit breaker
  - Grounded, unswitched AC convenience receptacle with a 500W maximum capacity provided for external equipment
  - Power indicator
  - Security cover to protect volume, bass, and treble controls (PVSC, sold separately)
  - PVMC module security covers prevent tampering with module controls (8 included)
  - 3-year warranty

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## Rear Panel



## Technical Specifications

### Output Level

<i>Balanced:</i>	Selectable +4, -10, -50 dB $\mu$ (typical with meter at "0")
<i>Unbalanced:</i>	0 dB $\mu$ (typical with meter at "0")

### Max. Output Level

<i>Balanced:</i>	+18 dB $\mu$
<i>Unbalanced:</i>	+20 dB $\mu$

### Frequency Response:

+/- 1 dB (20 Hz to 20 kHz)

### Distortion:

0.01% (@ +18 dB $\mu$  THD+N,  
20-20 kHz BW Limited)

### Signal-to-Noise

<i>Fundamental:</i>	-99 dB*
<i>w/ AUX MAX1R Module:</i>	-94 dB*
<i>w/ MIC2X Module:</i>	-64 dB*
<i>w/ TEL1S Module:</i>	-92 dB*

### Tone Controls

<i>Bass Frequency:</i>	100 Hz (+/- 10 dB minimum)
<i>Treble Frequency:</i>	10 kHz (+/- 10 dB minimum)
<i>Low Cut Frequency:</i>	125 Hz @ -6 dB/octave

### Signal / Clip Indicator

<i>Signal Detect Threshold:</i>	10 mV @ output of module
<i>Signal Indicator Hold Time:</i>	50 mS (green indicator)
<i>Clip Detect Threshold:</i>	6V @ output of module
<i>Clip Detect Hold Time:</i>	50 mS (red indicator)

### Output Impedance

<i>Balanced:</i>	50 ohms @ +4 dB $\mu$ , 600 ohms @ -10 dB $\mu$ , 5 ohms @ -50 dB $\mu$
<i>Unbalanced:</i>	100 ohms

### AC Voltage:

120V~, 60Hz

### Power Consumption:

21 watts

### AC Power Receptacle:

500 watts maximum power,  
unswitched

### Dimensions:

17-1/4" W x 3-7/8" H x 14-3/4" D

### Product Weight:

15 lb.

### Safety Approvals:

UL & cUL (U.S.A. & Canada)

\* Referenced to 18 dB $\mu$  level, 20 - 20 kHz bandwidth limited.

## Architect and Engineer Specifications\*\*

The mixer shall be the Bogen VMIX, or equivalent, with 8 module bays capable of accepting advanced plug-in modules, with 2 bays capable of accepting signal-processing plug-in output modules. Each channel shall have its own independent volume control, and LED signal/clip indicator. The mixer shall have a master volume control, bass and treble controls, an 11-segment LED output level meter to monitor the output level of the mixer with Avg/Peak meter switch.

The mixer shall have an unbalanced output jack, a 125 Hz Low-cut feature, tone control bypass switch (balanced transformer-isolated output), balanced output signal level switch (-50, -10, and +4 dB $\mu$ ), resettable circuit breaker, power indicator, and grounded unswitched AC convenience receptacle with a 500W maximum capacity provided for external equipment.

For larger applications, the mixer shall be able to bridge to another mixer using a built-in bridging jack and mute terminals, allowing the number of inputs to be increased.

The mixer shall have a motorized volume control that can be remotely operated (with RVCP Remote Volume Control Panel).

The mixer shall be rack mountable (with RPK87 rack mounting kit). Security covers shall be available to protect volume, bass, and treble controls (with PVSC); and 8 security covers shall be included to prevent tampering with module controls or to cover empty module spaces (with PVMC). The mixer shall have a three-year warranty, shall weigh 15 lb., and measure 17-1/4" W x 3-7/8" H x 14-3/4" D.

**BOGEN<sup>®</sup>**  
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\*\* Architect and Engineer Specifications are available online in a Microsoft® Word document to assist you with preparing your bids.