Power Vector Series
Modular Amplifiers & Mixers

- Convenient Signal Processing
- Input Flexibility
- More Power!

Amplifier Models: V250, V150, V100, V60, V25
Wall-Mount Amplifier Models: WV250, WV150, WV100
Mixer Model: VMX
Bogen's Power Vector modular input amplifier series consists of five models, ranging from 35 to 250 watts of power. Each model accepts up to 8 plug-in modules with 4 levels of priority between modules. Two module bays also accept signal-processing output modules. Each input has its own independent volume control and a signal/clip indicator. An 11-segment LED meter indicates output level, while a motorized master volume control allows smooth and accurate operation of the unit’s master volume control from a remote control panel (sold separately).

### FEATURES LIST:

- 5 models ranging from 35W to 250W, with a large power reserve.
- Capable of handling 70V, 25V, 8-ohm, and 4-ohm speaker loads.
- 8 module bays
- Wide selection of advanced plug-in modules (see pages 3 & 4).
- 2 module bays capable of handling signal processing output modules.
- 4 levels of priority between modules.
- 11-segment LED output level meter monitors the output level of the power amplifier, with Avg./Peak meter switch.
- Motorized master volume control that can be remotely operated.
- Two-color LED for each input channel indicates input signal and clipping.
- Master Mute function overrides all audio from the mixer section of the amplifier.
- Lockable switch permits user to select either transformer-coupled outputs or a direct low-impedance output.

### Performance Specifications

#### Power Vector Amplifiers, Rack-Mount (V-Series)

<table>
<thead>
<tr>
<th>Model Number</th>
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<tbody>
<tr>
<td>V250</td>
<td>250W / 255W</td>
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<td>V350</td>
<td>350W / 365W</td>
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<td>V150</td>
<td>150W / 170W</td>
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#### Power Vector Mixer

- VIXM

#### Frequency Response

- Transformer: 45 Hz to 20 kHz; 0/-2 dB
- Direct: 20 Hz to 20 kHz; 0/-4 dB

#### Distortion

- Transformer: 0.5%** (0.1% typical @ 1 kHz)
- Direct: 0.1%** (0.05% typical @ 1 kHz)

#### Signal-to-Noise

- Fundamental: -99 dB
- With AUX Modules: -94 dB
- With MIC Module: -94 dB
- With VIL Module: -92 dB

#### Tone Controls

- Bass Frequency: 100 Hz (+/- 10 dB minimum)
- Treble Frequency: 10 kHz (+/- 10 dB minimum)
- Low Cut Frequency: 125 Hz (+/- 10 dB minimum)
- High Cut Frequency: 125 Hz (+/- 10 dB minimum)

#### Tone Controls

- Bass and treble controls with bypass switch
- 3 priority mute busses are available externally for system expansion and external control
- Bridging connection available for expanding number of Power Vectors in a system
- 125 Hz Lo-cut switch
- Signal processing insert jacks allow external equipment to be inserted between the pre-amp output and the power amp input
- Pre-EQ, unbalanced, buffered output signal “post” all unit controls, but “pre” any external signal processing equipment inserted
- Grounded convenience receptacle
- 8 Module Security Covers (PVSC) included (not on Wall Mount units) (see below)
- Front panel security cover (PVMC) with break-away access tabs available (see below)
- 2 rack spaces high (3-1/2"
- Listed to UL Standard 60065 for U.S. and Canada

#### Wall Mount versions and Mixer only version (VMIX) also available, (see page 6)

### Accessories for Power Vector Amplifier Models

- RVCP: Rack Volume Control Panel
- PVMC: Module Security Cover
- PVSC: Power Vector Security Cover
- RP67: Module Mounting Kit

### Power Handling

**Five amplifier models offer minimum power handling capacity of 35, 60, 100, 150, and 260 watts and each has a substantial power reserve. (Typical reserve power @1kHz)**

#### Power Vector Amplifier Product Features

- Bass and treble controls with bypass switch
- 3 priority mute busses are available externally for system expansion and external control
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- 8 Module Security Covers (PVSC) included (not on Wall Mount units) (see below)
- Front panel security cover (PVMC) with break-away access tabs available (see below)
- 2 rack spaces high (3-1/2"
- Listed to UL Standard 60065 for U.S. and Canada

#### Lockable switch permits user to select either transformer-coupled outputs or a direct low-impedance output.
Wall-Mount Power Vector Amplifier

The Wall-Mount Power Vector Series combines up to 8 modular inputs and 2 signal-processing outputs to meet various application requirements. The amplifier’s convenient and efficient wall-mount design provides a protected and accessible audio system in a permanent and inconspicuous mounting.

- 100, 150, and 250-watt models each with large power reserves
- 8 module bays, accepts up to 2 signal-processing output modules and up to a total of 8 input modules
- Wide selection of advanced input and signal-processing output modules (see pages 3 & 4)
- Four priority levels between modules
- 4-ohm, 8-ohm, 25V, and 70V outputs
- Secure, permanent wall mounting (in-wall with BBB or surface-mount with BBF)
- 15-segment LED output level meter registers Peak or Average output
- Adjustable output level limiter with active indicator
- Front-mounted Tap-Out provides unbalanced line level output signal
- Independent volume controls for each input

- Motorized master volume control, w/optional accessory RVCP for remote operation
- External mute control
- Bass and treble controls with center detent and bypass switch
- 125 Hz Low Cut switch
- Thermal, short-circuit, and overload protection
- Thermally controlled 3-speed fan
- Listed to UL Standard 60065 for U.S. & Canada
- Components required for installation: Door (WMAD) and Back Box (BBF or BBB), both sold separately
- Modules required, but sold separately

Accessories

RVCP Remote Volume Control Panel

BBF Flush-Mount Back Box

BBS Surface-Mount Back Box

WMAD Front Cover/Door

Power Vector Modular Mixer

This 8-channel Power Vector mixer/pre-amplifier offers a wide variety of operational features and functions for superior audio performance. Eight module bays accept plug-in modules, allowing up to four levels of priority between modules. Security covers for both the front and rear of the unit prevent tampering with settings. For large areas, several Power Vector Mixers can be bridged together.

- Wide selection of plug-in modules (see pages 3 & 4)
- 8 module bays
- 2 module bays capable of handling signal-processing plug-in output modules
- 4 levels of priority between modules (see pages 3 & 4)
- 8 inputs, with independent volume controls for each input
- LED signal/clip indicator for each channel
- Bass and treble controls
- 15-segment LED output level meter monitors the output level of the mixer with Avg/Peak switch
- Balanced output signal level switch (-50, -10, and +4 dBu)
- Balanced transformer-isolated output

- Join multiple Power Vector mixers together using bridging jack and mute terminals
- Motorized master volume control that can be remotely operated (with RVCP Remote Volume Control Panel, sold separately)
- Unbalanced signal output jack
- 125 Hz Low Cut feature switch
- Tone control bypass switch
- Module security cover prevents tampering with module controls (8 included)
- Resettable circuit breaker
- Rack mountable (rack mounting kit RPK87, sold separately)
- Security cover (PVSC) to protect front controls with break-away access to installer selected controls (sold separately)
- Listed to UL Standard 60065 for U.S. & Canada

Accessories for Power Vector Mixer (VMIX)

RVCP Remote Volume Control Panel

PVMC Module Security Cover

PVSC Power Vector Security Cover

RPK87 Rack Mounting Kit

 adventurers in the mix bus signal path when installed.

Accessories

AMBIENT NOISE SENSOR - ANS1R

- Maximum Gain control
- Ramp Speed control
- Activity Threshold control
- Ambient MIC input threshold control
- Aux MIC input summation mode
- AUX level input control
- Gradual fade back from mute
- Connect up to 4 sensor mics (1 included)
- Mutually independent (lowest priority only)
- RCA connectors

PARAMETRIC EQUALIZER - PEQ1R

- 2 full parametric bands
- Frequency control
- ‘Q’ bandwidth control
- Gain control
- Bass and Treble control
- Unbalanced input
- Bypass switch
- Mutually independent (lowest priority only)
- Gradual fade back from mute
- RCA connectors

WV150, WV100, WV250

Bogen’s new advanced input modules provide a wide range of input types allowing for custom configuration of inputs - both in type and number - for a particular application. Modules are fully-featured for their application, many with Bass/Treble, Gain, Music Ducking, Mute Send, and Mute Receive. Mix and match a variety of modules to meet your specific installation needs. Each of Bogen’s modules support different signal-source/processing requirements. Included interface features are: balanced and unbalanced inputs; stereo or mono; telephone systems/PBXs; transformer-isolated; microphones; tone generator; and bridging.

Signal-Processing Output Modules

Bogen’s new output modules offer a cost effective and convenient way to add specific signal processing capability into a system. These modules automatically insert themselves into the audio signal path and eliminate the need for external wiring as well as accessory outboard equipment. The selection includes an ambient noise sensor, compressor/limiter, and parametric equalizer. Each Power Vector amplifier accepts up to two signal-processing output modules. The amplifier automatically detects the presence of an installed signal-processing output module and inserts it into the audio signal path of the amplifier. All connections are done internally, so there is no need for patch cords to connect to the inserts. When two output modules are installed, the signal processing effects are cascaded. In addition, each output module includes an unbalanced input that is controlled by the amplifier’s input control so an input is not forfeit-
ed when an output module is used.

Output modules afford two other benefits:

1. the effects insert jacks are still available for use by external processing equipment.
2. the signal processing output modules act on the signal on the raw mix bus signal before any other user controls (such as volume, bass, and treble) can affect it. This then ensures that signal level dependent processors, such as the Compressor/Limiter and the Ambient Noise Sensor modules, perform as intended regardless of front panel control changes (excluding input volume controls).
Input Modules

LINE/MIC INPUTS - LMM1S, LMR1S
- Actively Balanced Emulated Transformer Inputs
  - Gain/TRIM control
  - Bass & Treble controls
  - Noise gate w/Threshold control
  - 24V Phantom power
  - Priority & bus assignable
  - Transformer-balanced

MICROPHONE INPUTS - MIC1S, MIC1X
- Low-impedance, Transformer-balanced Microphone Inputs
  - Gain/TRIM control
  - High Cut/Low Cut controls
  - Noise gate w/Threshold control
  - 24V Phantom power
  - Priority & bus assignable
  - Transformer-balanced

MICROPHONE INPUTS - MIC2S, MIC2X
- Low-impedance, Electronic-balanced Microphone Inputs
  - Gain/TRIM control
  - Input signal available at buffered output
  - Bus assignable
  - Transformer-balanced (MIC2X)

TELEPHONE INPUT - TEL1S
- Interfaces to Telephone System's Loop Start/Quad Start Trunks or Paging Ports
  - Loop start or quad start trunk interfacing
  - Audio-coupled paging port
  - Gain/TRIM control
  - Noise gate & Limiter
  - Transformer-isolated
  - Bus assignable
  - Transformer-balanced

BALANCED INPUT - BAL2S
- Stereo, Balanced Input
  - Stereo, high-impedance, electronically-balanced inputs
  - Professional-quality, low noise performance
  - Selectable gain of 0 or 8 dB
  - Compatible with telephone system paging ports
  - Transformer-isolated
  - Bus assignable
  - Screw terminal connections

STereo AUX INPUT - SAx1R
- Unbalanced Stereo Input
  - Gain/TRIM control
  - Bass & Treble controls
  - Noise gate mutes lower priority modules
  - Variable ducking level when muted
  - Mute from bus
  - Stereo-to-mono summation
  - Bus assignable
  - RCA connectors

MONO AUX INPUT - MAX1R
- Unbalanced Mono Input
  - Gain/TRIM control
  - Bass & Treble controls
  - Noise gate mutes lower priority modules
  - Variable ducking level when muted
  - Mute from bus
  - Bus assignable
  - RCA connector

BRIDGING INPUT - BRG1R
- Daisy Chain Multiple Amplifier Inputs
  - Gain/TRIM control
  - Ground isolated input to eliminate ground loop
  - Input signal available at buffered output
  - Priority assignable
  - Variable ducking level when muted
  - Mute from bus
  - Buffered output not muted
  - Bus assignable
  - RCA input and output connector

TRANSFORMER-BALANCED INPUT - TBL1S
- Transformer-Balanced AUX Input
  - Gain/TRIM control
  - Bass & Treble controls
  - Transformer-isolated, dual-impedance, line-level input
  - Variable ducking level when muted
  - Mute send & receive
  - Mute from bus
  - Mute send threshold & duration adjustments
  - Priority & bus assignable
  - Pluggable screw terminal connections

TONE GENERATOR - TNG1S
- Multiple Tone Generator Input
  - Level control
  - Select 0 to 8 tones to trigger
  - Boost/slow, slow sweep, siren, mechanical bell, hi-hat, noise maker, toggle chimes, & sawtooth tones
  - Momentary & continuous playback modes
  - Microprocessor-controlled
  - Priority assignable
  - Mute send & receive
  - Screw terminal trigger connections

Each amplifier can accept up to 8 Bogen input modules, with user-selectable priority levels. Plugs-in modules support different input options including the ability to interface to balanced and unbalanced high- and low-level inputs, stereo or mono, telephone, PA, and microphones. Each amp can accept up to 2 output signal processing modules, such as Ambient Noise, Parametric EQ, and Comp/Limiter.

Signal/Clip Indicators
- A two-color LED indicates the audio activity for each of 8 input channels.
- Green - The input's signal is present on mix bus.
- Red - The channel's input is being overridden.

Front Panel

Bass & Treble Controls
- Select the amount of cut or boost of bass frequencies below 100 Hz and treble frequencies above 10 kHz (bypassable).

LED Output Meter
- This 11-segment LED meter monitors the output signal level of the power amplifier or the mixer.

Average/Peak Switch
- The Power Vector can register the average or peak level of the output signal on the 11-segment LED meter.

Master Volume Control Knob
- Controls overall volume level of the mixed input signals. The control is motorized and can be adjusted manually or by an optional remotely mounted control panel.

Pre-EQ Jack
- Output jack provides balanced, buffered output signal "post" all unit signal processing, but "pre" any external signal processing equipment connected to the insert jacks.

Power Indicator & Switch
- An LED indicates whether the amplifier power status is on or off. A rocker-type switch applies or removes power to the amplifier.

Bass, & Treble Controls
- Select the amount of cut or boost of bass frequencies below 100 Hz and treble frequencies above 10 kHz (bypassable).

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Pre-EQ Jack
- Output jack provides balanced, buffered output signal "post" all unit signal processing, but "pre" any external signal processing equipment connected to the insert jacks.
**Screw terminal connections**

- For external

**Fade back from mute**

- Can be programmed into larger systems

**Variable ducking level when muted**

-Mutable by higher priority modules

**Amp input**

- Together.

**Master Volume**

- Can be inserted between modules.

**Line/Mic Inputs - LMM1S, LMR1S**

- Actively Balanced Emulated Transformer Inputs
  - Input level controlled by remote panel or direct voltage (LMM1S)
  - Wall Plate Control included (with LMR1S only)
  - Limiter with LED activity indicator (LMM1S)
  - Line/Mic gain switch
  - Gain/Trim control
  - Bass & Treble controls
  - Noise gate/Threshold control
  - Fades back from mute
  - 24V phantom power
  - Priority & bus assignments
  - Screw terminal input
  - Mutes lower priority modules
  - Mutes by higher priority modules

**Stereo in**

- Unbalanced Stereo Input
  - Gain/Trim control
  - Bass & Treble controls
  - Gate feature mutes lower priority modules
  - Muted by higher priority modules
  - Variable ducking level when muted
  - Fades back from mute
  - Stereo-to-mono summing option
  - Bus assignable
  - RCA connectors

**Mono in**

- Unbalanced Mono Input
  - Gain/Trim control
  - Bass & Treble controls
  - Gate feature mutes lower priority modules
  - Muted by higher priority modules
  - Variable ducking level when muted
  - Fades back from mute
  - Bus assignable
  - RCA connector

**Microphone Inputs - MIC1S, MIC1X**

- Low-impedance Transformer-balanced Microphone Inputs
  - Gain/Trim control
  - High Cut/low Cut controls
  - Noise gate/Threshold control
  - Limiter with/without control
  - 24V Phantom power
  - Priority & bus assignable
  - Transformer-balanced, balanced
  - Screw terminals (MIC1X), XLR connector (MIC1X)

**Microphone Inputs - MIC2S, MIC2X**

- Low-impedance, electronically-balanced Microphone Inputs
  - Gain/Trim control
  - Mic Cut/Low cut controls
  - Noise gate/Threshold control
  - Limiter with/without control
  - 24V Phantom power
  - Priority & Bus assignable
  - Screw terminals (MIC1X)

**Telephone Input - TEL1S**

- Interfaces to Telephone System's loop Start/ground start Trunks Or Pagers Ports
  - Loop start or ground start trunk interfacing
  - Dry loop interface to paging ports
  - Audio-activated paging in dry loop
  - Gain/Trim control: noise gate & Limiter
  - Mutes lower priority modules
  - Mutes by higher priority modules
  - Bus assignable & Transformer-isolated
  - Screw terminal connections

**Balanced in**

- Stereo, Balanced Input
  - Stereo, high-impedance, electronically-balanced inputs
  - Professional-quality, low noise performance
  - Selectable gain of 0 or 38 db
  - Compatible with telephone system page ports
  - Muted by higher priority modules
  - Variable ducking level when muted
  - Fades back from mute
  - Screw terminal connections

**Balanced Input - BAL2S**

- Stereo, Balanced Input
  - Stereo, high-impedance, electronically-balanced inputs
  - Professional-quality, low noise performance
  - Selectable gain of 0 or 38 db
  - Compatible with telephone system page ports
  - Muted by higher priority modules
  - Variable ducking level when muted
  - Fades back from mute
  - Screw terminal connections

**Front panel**

- LED output meter
  - This 11-segment LED meter monitors the output signal level of the power amplifier or the mixer.

**Power Indicator & Switch**

- An LED indicates whether the amplifier power status is on or off. A rocker-type switch applies or removes power to the amplifier.

**Bass & Treble Controls**

- Select the amount of cut or boost of bass frequencies below 100 Hz and treble frequencies above 10 kHz (bypassable).

**Remote Volume Control Terminates**

- Connect the optional Remote Volume Control Panel (RVC) to these terminals to provide remote operation of the Master Volume Control knob.

**Remote Volume Control Terminals**

- Provide current to the remote volume control module.

**Module Bays**

- Each of 8 module bays can accommodate advanced plug-in modules.

**Bridging Connector**

- Allows system expansion by linking multiple Power Vectors' mix boxes together.

**Signal Processing Input Jacks**

- Allows external equipment to be inserted between the pre-amp output and the power amp input.
Wall-Mount Power Vector Amplifier

The Wall-Mount Power Vector Series combines up to 8 modular inputs and 2 signal-processing outputs to meet various application requirements. The amplifier's convenient and efficient wall-mount design provides a protected and accessible audio system in a permanent and inconspicuous mounting.

- 100, 150, and 250-watt models each with large power reserve
- 8 module bays, accepts up to 2 signal-processing output modules and up to a total of 8 input modules
- Wide selection of advanced input and signal-processing output modules (see pages 3 & 4)
- Four priority levels between modules
- 4-ohm, 8-ohm, 25V, and 70V outputs
- Secure, permanent wall mounting (in-wall with BBF or surface-mount with BBS)
- 15-segment LED output level meter registers Peak or Average output
- Adjustable output level limiter with active indicator
- Front-mounted Tap Output provides unbalanced line level output signal
- Independent volume controls for each input
- Motorized master volume control, w/optional accessory RVCP for remote operation
- External mute control
- Bass and treble controls with center detent and bypass switch
- 125 Hz Low Cut switch
- Thermal, short-circuit, and overload protection
- Thermally controlled 3-speed fan
- Listed to UL Standard 60065 for U.S. & Canada
- Components required for installation
- Door (WMAD) and Back Box (BBF or BBS), both sold separately
- Modules required, but sold separately
- Transformer-Limiter and the Ambient Noise Sensor modules, perform as intended regardless of front panel control changes (excluding input volume controls).
- Included interface features are: balanced and unbalanced inputs; transformer-isolated; microphones; tone generator; and bridging.

Other Available Power Vector Products...

Wide Selection of Advanced Plug-In Modules

Bogen’s new advanced input modules provide a wide range of input types allowing for custom configuration of inputs - both in type and number - for a particular application. Modules are fully-featured for their application, many with Bass/Treble, Gain, Music Ducking, Mute Send, and Mute Receive. Mix and match a variety of modules to meet your specific installation needs. Each of Bogen's modules support different signal-source/processing requirements. Included interface features are: balanced and unbalanced inputs; stereo or mono; telephone systems/PBXs; transformer-isolated; microphones; tone generator; and bridging.

Signal-Processing Output Modules

Bogen’s new output modules offer a cost effective and convenient way to add specific signal processing capability into a system. These modules automatically insert themselves into the audio signal path and eliminate the need for external wiring as well as accessory outboard equipment. The selection includes an ambient noise sensor, compres-sor/limiter, and parametric equalizer. Each Power Vector amplifier accepts up to two signal-processing output modules. The amplifier automatically detecting the presence of an installed signal-processing output module inserts it into the audio signal path of the amplifier. All connections are done internally, so there is no need for patch cords to connect to the inserts. When two output modules are installed, the signal processing effects are cascaded. In addition, each output module includes an unbalanced input that is controlled by the amplifier's input control so an input is not forfeit-
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Flexibility

Output modules afford two other benefits:
(1) the effects insert jacks are still available for use by external processing equipment.
(2) the signal processing output modules act on the signal on the raw mix bus signal before any other user controls (such as volume, bass, and treble) can affect it. This then ensures that signal level dependent processors, such as the Compressor/Limiter and the Ambient Noise Sensor modules, perform as intended regardless of front panel control changes (excluding input volume controls).

Power Vector Modular Mixer

This 8-channel Power Vector mixer/amplifier offers a wide variety of operational features and functions for superior audio performance. Eight module bays accept plug-in modules, allowing up to four levels of priority between modules. Security covers for both the front and rear of the unit prevent tampering with settings. For large applications, several Power Vector Mixers can be bridged together.

- Wide selection of plug-in modules (see pages 3 & 4)
- 8 module bays
- 2 module bays capable of handling signal-processing plug-in output modules
- 4 levels of priority between modules (see pages 3 & 4)
- 8 inputs, with independent volume controls for each input
- LED signal indicator for each channel
- Bass and treble controls
- 15-segment LED output level meter monitors the output level of the mixer with Avg/Peak switch
- Balanced output signal level switch (+50, -10V, and +4 dBu)
- Balanced transformer-isolated output
- Join multiple Power Vector mixers together using bridging jack and mute terminals
- Motorized master volume control that can be remotely operated (with RVCP/Remote Volume Control Panel, sold separately)
- Unbalanced signal output jack
- 125 Hz Low Cut feature switch
- Tone control bypass switch
- Module security cover prevents tampering with control modules (8 included)
- Resettable circuit breaker
- Rack removable (rack mounting kit RPK87, sold separately)
- Security cover (PVCX) to protect front controls with break-away access to installer selected controls (sold separately)
- Listed to UL Standard 60065 for U.S. & Canada

Signal-Processing Output Modules

Wide selection of advanced input modules allows for custom configuration of inputs - both in type and number - for a particular application. Modules are fully-featured for their application, many with Bass/Treble, Gain, Music Ducking, Mute Send, and Mute Receive. Mix and match a variety of modules to meet your specific installation needs. Each of Bogen's modules support different signal-source/processing requirements. Included interface features are: balanced and unbalanced inputs; stereo or mono; telephone systems/PBXs; transformer-isolated; microphones; tone generator; and bridging.

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</table>

### Frequency Response
- Transformer: 45 Hz to 20 kHz; 0/-2 dB
- Direct: 20 Hz to 20 kHz; 0/-4 dB

### Distortion
- Transformer: 0.5%** 0.5%** 0.01%†
- Direct: 0.1%** (0% typical @ 1 kHz)

### Signal-to-Noise
- Fundamental: -94 dB
- With AUX Module: -70 dB
- With MIC Module: -60 dB
- With TEST Module: -70 dB

### Tone Controls
- Bass Frequency: 100 Hz (+/- 10 dB minimum)
- Treble Frequency: 10 kHz (+/- 10 dB minimum)
- Low Cut Frequency: 125 Hz (+/- 10 dB minimum)
- High Cut Frequency: 125 Hz (+/- 10 dB minimum)

### Sensitivity
- Balanced: 10 mV @ output of module
- Unbalanced: 6V @ output of module

### Input Impedance
- Balanced: 50 ohms maximum
- Unbalanced: 600 ohms

### Output Impedance
- Balanced: 100 ohms
- Unbalanced: 50 ohms

### Output Level
- Balanced: 125 Hz (+/- 10 dB minimum)
- Unbalanced: 45 Hz (+/- 10 dB minimum)

### Output Regulator
- Transformer-Coupled: 4 ohms
- Direct Coupled: 4 ohms
- Balanced: 50 ohms @ +4 dBu, 600 ohms @ 10 dBu, 5 ohms @ 50 ohms
- Unbalanced: 50 ohms @ +4 dBu, 600 ohms @ 10 dBu, 5 ohms @ 50 ohms

### Output Regulation
- 2 dB or better, no load to full load

### Signal Indicator
- Transformer-Coupled: 45 Hz to 20 kHz; 0/-1 dB
- Direct: 20 Hz to 20 kHz; 0/-3 dB

### Clip Detect
- Transformer: 50 mS red indicator
- Direct: 50 mS red indicator

### Signal/Clip Indicator
- Transformer: 100 Hz (+/- 10 dB minimum)
- Direct: 10 kHz (+/- 10 dB minimum)

### Distortion
- Transformer: 0.5%** 0.5%** 0.01%†
- Direct: 0.1%** (0% typical @ 1 kHz)

### Transformer: 20 Hz to 20 kHz; 0/-1 dB

### Power Handling
- Five amplifier models offer minimum power handling capacity of 35, 60, 100, 150, and 260 watts and each has a substantial power reserve.
- (Typical reserve power: 1kHz)

### Accessories for Power Vector Amplifier Models
- RVCP Remote Volume Control Panel
- PVSC Power Vector Security Cover
- RPK7 Wall Mounting Kit
- Power Vector Rack Mounting Kit

### Wall Mount versions and Mixer only version (VMIX) also available, (see page 6)

### Power Handling Five amplifier models offer minimum power handling capacity of 35, 60, 100, 150, and 260 watts and each has a substantial power reserve.
- (Typical reserve power: 1kHz)
Power Vector Series
Modular Amplifiers & Mixers

- Convenient Signal Processing
- Input Flexibility
- More Power!

Amplifier Models: V250, V150, V100, V60, V35
Wall-Mount Amplifier Models: WV250, WV150, WV100
Mixer Model: VMX