

# ADVANCED INPUT MODULES

## Input Modules (Output Modules on Page 40)

Bogen's advanced plug-in input modules provide a wide range of functions to support a variety of applications. *(Shipping weight: 1 lb. each)*

### STEREO AUX INPUT - SAX1R

*Unbalanced Stereo Input*



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

### MONO AUX INPUT - MAX1R

*Unbalanced Mono Input*



- Gain/Trim control
- Bass & Treble controls
- Gate feature mutes lower priority modules
- Mutable by higher priority modules
- Variable ducking level when muted
- Fade back from mute
- 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
- Fade back from mute
- 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
- Fade back from mute
- Mute send threshold & duration adjustments
- Priority & Bus assignable
- Pluggable screw terminal connections

### TONE GENERATOR - TNG1S

*Multiple Tone Generator Input*



- Level control
- Select 4 of 8 tones to trigger
- Burst/steady, slow whoop, siren, mechanical bell, Klaxon, night ringer, double chime, & doorbell tones
- Momentary & continuous playback modes
- Microprocessor-controlled
- Priority assignable
- Mute send & receive
- Screw terminal trigger connections



LISTEN TO TONES ON THE WEB  
[www.bogen.com/tones](http://www.bogen.com/tones)

### Accessories

**MA3**  
Module  
Adapter



Adapts Modules for use with D-Series, WMA, and DPA Amps

### LINE/MIC INPUTS - LMM1S, LMR1S

*Actively Balanced Emulated Transformer Inputs*



LMM1S

- Input level controlled by remote panel or direct voltage (*LMR1S*)
- Wall Plate Control included (*with LMR1S* only)
- Limiter with LED activity indicator (*LMR1S*)
- Line/MIC gain switch
- Gain/Trim control
- Bass & Treble controls
- Noise gate w/threshold control
- Fade back from mute
- 24V phantom power
- Priority & bus assignments
- Screw terminal input
- Mutes lower priority modules
- Mutable by higher priority modules



LMR1S  
*with Remote  
Volume Control*



### MICROPHONE INPUTS - MIC1S, MIC1X

*Low-impedance, Transformer-balanced Microphone Inputs*



MIC1S

- Gain/Trim control
- Bass & Treble controls
- Noise gate w/Threshold & Duration control
- Limiter w/Threshold control
- 24V Phantom power
- Priority & Bus assignable
- Balanced, transformer-isolated
- Screw terminals (*MIC1S*); XLR connector (*MIC1X*)



MIC1X

### MICROPHONE INPUTS - MIC2S, MIC2X

*Low-impedance, Electronic-balanced Microphone Inputs*



MIC2S

- Gain/Trim control
- High Cut/Low Cut controls
- Enhance control
- Noise gate w/Threshold control
- Limiter w/Threshold control
- 24V Phantom power
- Priority & Bus assignable
- Screw terminals (*MIC2S*); XLR connector (*MIC2X*)



MIC2X

### TELEPHONE INPUT - TEL1S

*Interfaces to Telephone System's Loop Start/Ground Start Trunks or Paging 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
- Mutable by higher priority modules
- Bus assignable & Transformer-isolated
- Screw terminal connections

### Accessories

**PRS48**

48V DC  
Power  
Supply



### BALANCED INPUT - BAL2S

*Stereo, Balanced Input*



- Stereo, high-impedance, electronically balanced inputs
- Professional-quality, low noise performance
- Selectable gain of 0 or 18 dB
- Compatible with telephone system page ports
- Mutable by higher priority modules
- Variable ducking level when muted
- Fade back from mute
- Screw terminal connections

# ADVANCED OUTPUT MODULES

## Signal-Processing Output Modules (Input Modules on Page 39)

Bogen's plug-in signal-processing output modules automatically insert themselves into the mix bus signal path leading to the power amplifier stage when installed. *(Shipping weight: 1 lb. each.)*

### RELAY INPUT/OUTPUT - RIO1S



- Transformer-isolated, balanced line-level input
- 600-ohm or 10k jumper-selectable input impedance
- 8-ohm, 750mW output
- Input and output level controls
- Relay responds to selectable priority level
- External control of priority muting
- N.O. or N.C. relay contacts
- Input can be muted from higher priority modules, with signal fade back
- Output can gate with relay priority level
- Screw terminal strips
- RJ11 connection with line output and dedicated N.O. relay contact


### AMBIENT NOISE SENSOR - ANS1R



ANS1R  
with Sensor  
Microphone

- Maximum Gain control
- Ramp Speed control
- Activity Threshold control
- Ambient MIC input threshold control
- Stereo AUX input (*summed mono*)
- AUX level input control
- Gradual fade back from mute
- Connect up to 4 sensor mics (*1 included*)
- Mutable input (*lowest priority only*)
- RCA connectors

**Accessories**      **ANS500M**  
Sensor Microphone  
*(One included; additional available)*



### COMPRESSOR/LIMITER - CMP1R



- Compressor Ratio control
- Threshold control
- Make-up Gain control
- Bypass switch
- Unbalanced input
- Gradual fade back from mute
- Mutable input (*lowest priority only*)
- RCA connector

### PARAMETRIC EQUALIZER - PEQ1R



- 2 full parametric bands
- Frequency control
- 'Q' bandwidth control
- Gain control
- Bass and Treble control
- Unbalanced input
- Bypass switch
- Mutable input (*lowest priority only*)
- Gradual fade back from mute
- RCA connector

# MODULAR AMPLIFIERS

## Wall-Mount Power Vector Amplifiers WV100, WV150, WV250

The **Wall-Mount Power Vector Series** combines up to 8 modular inputs and 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.

### Product Features:

- 100-, 150-, and 250-watt models; each with large power reserve
- 8 module input bays, accepts up to 2 signal-processing output modules and 8 input modules
- Wide selection of advanced input and signal-processing output modules
- 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*)
- 11-segment LED output level meter registers Peak or Average output
- Adjustable output level limiter with active indicator
- Front-mounted tape output provides unbalanced signal level output
- Independent volume controls for each input
- Motorized master volume control, with optional accessory RVCP for remote operation
- External mute control
- Bass and treble controls with center detent
- 125 Hz Low Cut switch
- Tone control bypass switch
- Optionally installable front-mounted input combo jack with 1/4" stereo phone and female XLR capabilities for connection to user-supplied modules
- Thermal, short-circuit, and overload protection
- Thermally controlled 3-speed fan
- Listed to UL Standard 60065 for US and Canada
- Components required for installation: Door (*WMAD*) and Back Box (*BBF or BBS*), both sold separately
- Modules required, but sold separately



RACK-MOUNTABLE  
version  
on Page 38

Technical Specifications, Dimensions, and Weights can be found on Page 79

### MODULES



Input Modules-  
See Page 39;  
Output Modules-  
See Above

### Accessories

RVCP  
Remote Volume  
Control Panel



### Components

NOTE: These items are required for installation: BBF or BBS, and one WMAD.



BBF  
Flush-Mount  
Back Box



BBS  
Surface-Mount  
Back Box



WMAD  
Front Cover/  
Door