

The VO-4 is a networked audio output expansion device allowing the user to add four line-level output channels to a Vocia® system. The VO-4 accepts four channels of digital audio input via CobraNet® and provides four line-level analog audio outputs. The VO-4 features embedded DSP and on-board memory to process and store all device-specific configuration information locally and includes comprehensive fixed-chain digital-signal processing. As part of the Vocia system, the VO-4 meets paging requirements for facilities of all sizes.

### FEATURES

- Converts digital to analog
- Four removable terminal block connectors for line-level outputs
- Four control inputs and four control outputs
- Software-configurable local audio signal processing, including gain, filters, and compressor/limiter
- Rotary switches for unit identification
- Power Over Ethernet (PoE)
- CobraNet audio/control with dynamic use of available bundles, plus power over single Ethernet cable
- Status LEDs to indicate signal and clip
- **CE** marked and **RoHS** compliant
- Covered by Biamp Systems' warranty

### ARCHITECTS & ENGINEERS SPECIFICATION

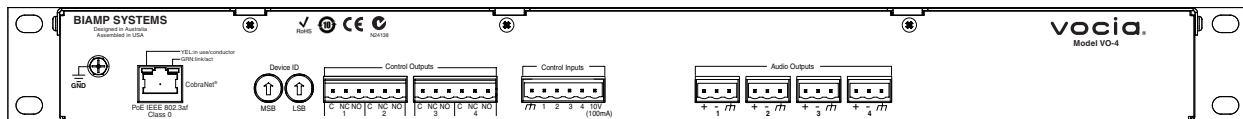
The audio output device shall be designed exclusively for use with Biamp® Vocia® systems. It shall be rack mountable (1RU) and provide audio and control via CobraNet®. It shall receive Power over Ethernet (PoE) utilizing a single (CAT5) network cable to a rear panel RJ45 connector. The output device shall provide four removable terminal block connectors for line-level audio outputs, four control inputs, and four control outputs. The audio output device shall provide local digital audio signal processing and local storage of configuration data. The audio output device shall indicate signal and clip with LEDs on the front panel. The audio output device shall be CE marked and shall be compliant with the RoHS directive. Warranty shall be five years.

The output device shall be a Vocia VO-4.

## Vocia Output 4 SPECIFICATIONS

|                         |                             |   |   |
|-------------------------|-----------------------------|---|---|
| Frequency Response:     | 20Hz to 20kHz + or - 1dB    | Control Outputs:                        |   |
| THD + N (20Hz to 8kHz): | <0.02%                      | Type:                                   | Form C Voltage<br>free change over contact                            |
| Dynamic Range:          | >80dB                       | Max Operating Voltage:                  | 125VAC, 60VDC   |
| Crosstalk (10kHz):      | >80dB                       | Max Switching Capacity:                 | 37VA  |
| Minimum Load Impedance: | 600kΩ                       | Min Operating Load:                     | 10μA @ 10mV DC  |
| Maximum Output Level:   | >+22dBu                     | Connection:                             | RJ45 with shielded Ethernet/PoE cable<br>(CAT5, CAT5e, CAT6, or CAT7) |
| Nominal Output Level:   | -10dBu, 0dBu, or +4dBu      | Power:                                  | 802.3af (PoE) Class 3   |
| A/D Converters:         | 24-bit (48kHz sampling)     | Dimensions:                             |   |
| Control Inputs          |                             | Height:                                 | 0.75 inches (44.5mm)  |
| Type:                   | Digital, variable threshold | Width:                                  | 19 inches (483mm)   |
| Max Input Threshold:    | 10V                         | Depth:                                  | 10 inches (254mm)   |
| Max Input Voltage:      | 12V                         | Weight:                                 | 6.4 lbs. (2.9kg)  |
| Min Input Threshold:    | 150mV                       | Ambient Operating<br>Temperature Range: | 32-113 degrees F (0-45 degrees C)                                     |
| Input Impedance:        | 100kΩ                       | Compliance:                             | EU Directive 2002/95/EC, RoHS directive<br>CE marked                  |

## Vocia Output 4 BACK PANEL



## Vocia Output 4 BLOCK DIAGRAM

