VoIP
CONNECTION MODULE

VIGIL VoIP

Voice over Internet Protocol (VoIP) technology adds further flexibility to our VIGIL2 systems. The VoIP products are the outcome of research and development between Baldwin Boxall and Archean Technologies.

BVV422 • BVV422W • BVV422OPT1 • BVV422OPT2

SYSTEM FEATURES:

- The BVV422 and the BVVCONT form audio IP system routeing and control for public address applications.
- The system uses high quality (up to 20kHz audio bandwidth) and low latency (max 10mS) audio encoding. The quality/compression ratio is adjustable, enabling optimum settings for each network.
- Audio inputs outputs are fully monitored. In the event of a network problem an alarm will be sent to the operator and recorded in the log files.
- Audio input levels and signal saturation can be visualised in real time.
- VoIP: 16 bits/48kHz digitalisation (24kHz audio bandwidth).
- Any audio input can be used for monitoring ambient noise using a BVVMICP sensor. The output level is adjusted according to the last sensed noise level.
- Does not need a dedicated Ethernet network.

BVV422:

- BVV422 units can be used to link public address/voice alarm (PA/VA) racks together - ideal for long distances or for complicated networked systems.
- Alternatively, the modules can connect PA/VA systems to an Ethernet network controlled by a BVVCONT.
- The ability to remotely control a public address system provides a solution for many applications.
- Has two opto-coupled inputs and two opto-coupled relay outputs.
- Inputs and outputs have level adjustment.
- Each unit has four dry contact inputs and outputs for various applications such as local message broadcast, local defect report, etc.
- Enables a variety of equipment to be connected to the network and remotely managed - such as our BDM range of paging microphones.
- Integral processor enables local management software to be loaded onto the unit. For example, on closure of a dry contact (or if the network is lost), the BVV422 could play a safety or warning message.
- Text-to-speech (TTS) synthesis option. Enabling the module to be converted, for example, into an aid for the visually impaired by broadcasting information shown on a Passenger Information Display System (PDS).
- SD memory for storing messages (updated and administered via the BVVCONT controller).
- Plays MP3 files for local broadcast, or transmitted over the network to other VoIP units.
- Has an RS232/485 port for simple connection to the VIGIL EVAS routers.
- DIN rail mounted.

BVV422W:

- Same as the BVV422 but with two audio inputs and two 20W outputs.

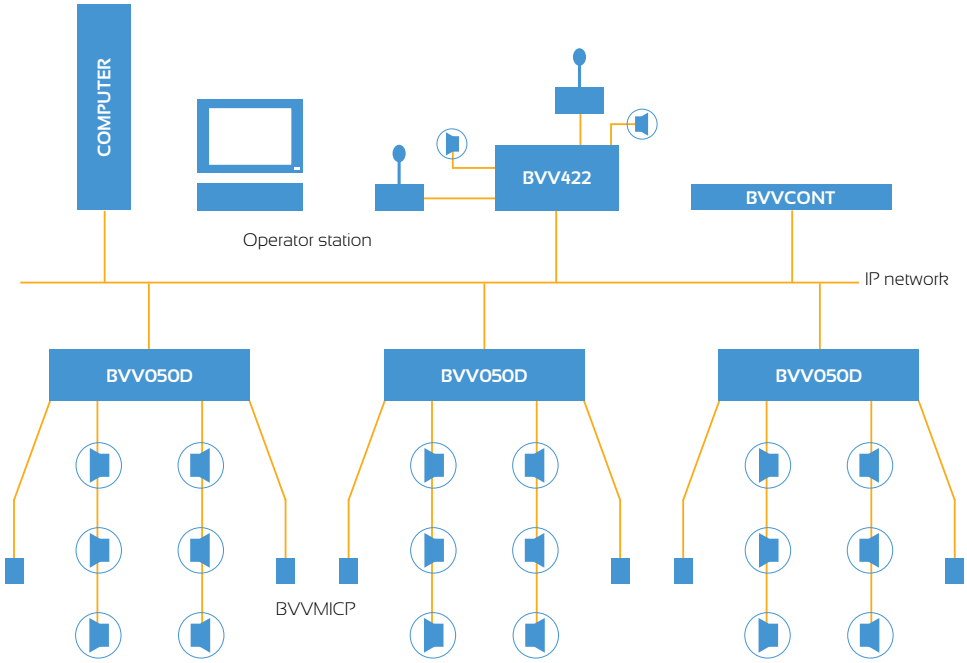
OPTIONS:

- BVV422OPT1 - 2 x amplifier/loudspeaker line monitoring.
- BVV422OPT2 - phantom power supply for 2 x audio outputs.

SPECIFICATION:

BVV422 (2 in / 2 out)	
16-bit/48kHz DSP	
Analogue inputs & outputs	2 x 2 0dB balanced, with 3 selectable levels of hardware gain
Maximum level input/output	6dBu
High dynamic range (A weighted measured	D/A 101.5dB, AD 99.6dB
Noise generators	30Hz, 1kHz, 20kHz, white or pink noise
MP3 player	2 x high quality
VOIP input channel	2
VOIP output channel	2
Embedded noise analysis	300ms weighted dB meter (and level adjustment on all I/O)
Message databases	2
	All direction realtime audio routeing
	<10ms overall latency

TYPICAL SYSTEM LAYOUT:



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