



# VoIP CONTROLLER

## 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.

### BVVCONT

#### FEATURES:

- The BVVCONT is the control unit for the VIGIL VoIP audio IP system.
- Used in conjunction with the BVV422 unit to provide full routing and control for public address applications.
- A 1U module suitable for 19" rack mounting.
- A BVVCONT unit can manage over 450 BVV422 modules.
- Can send eight audio messages or listen to eight areas simultaneously.
- Level adjustment on inputs and outputs.
- Set up through TCP/IP/Ethernet network via a Graphical User Interface) GUI.
- An IP record option enables all audio broadcasts to be recorded. Providing the ability to listen to activity that has previously taken place on the system at any given time.
- Can simultaneously:
  - Digitise up to eight audio inputs,
  - Playback up to eight audio outputs,
  - Play up to eight MP3 files, and
  - Record up to eight MP3 files.
  - Timed messages and timed volume adjustment.
  - Passenger information display system (PIDS) integration.
- The operator can set up many different functions as dictated by user rights. Such as:
  - Administration of the messaging system.
  - Set up of input and output levels.
  - Priority management.
  - View fault and history logs.
  - Adjust ambient noise attenuation.

#### SYSTEM FEATURES:

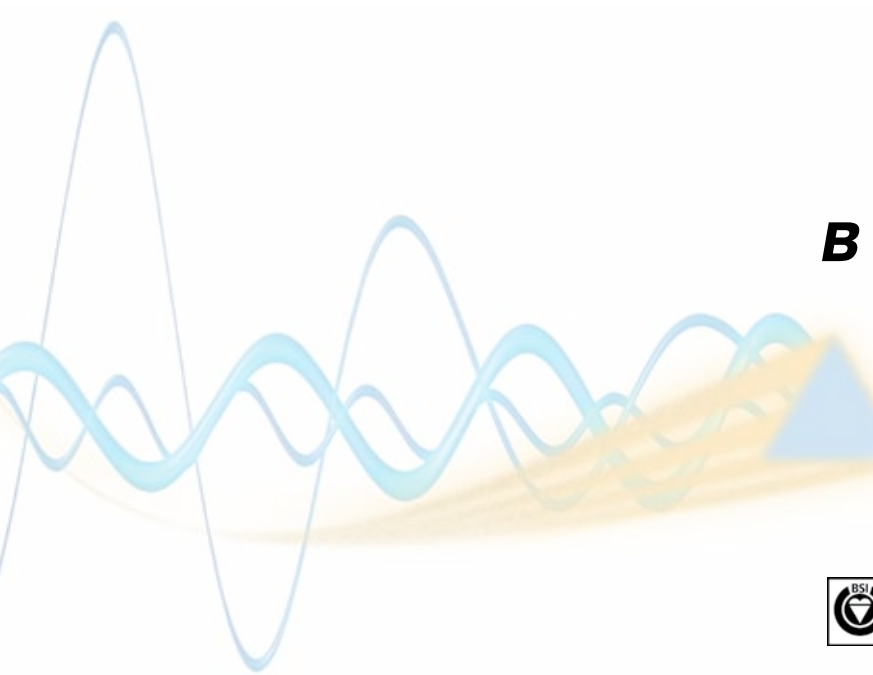
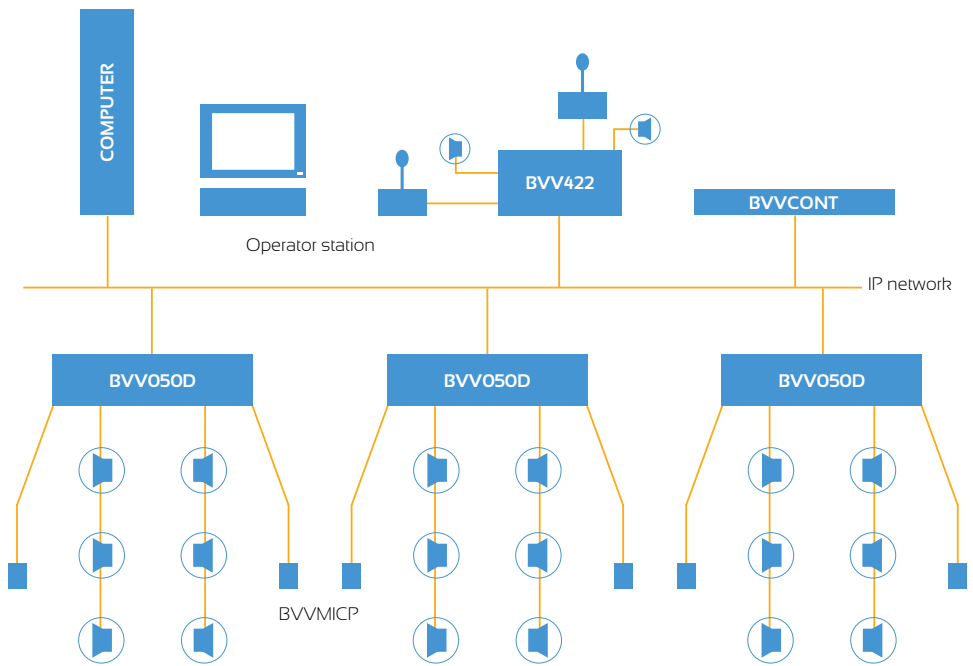
- The system uses high quality (up to 20kHz audio bandwidth) and low latency (max 10mS) audio encoding. The quality/compression ratio is adjustable, enabling optimum settings for each network.
- Audio inputs outputs are fully monitored. In the event of a network problem an alarm will be sent to the operator 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 sensor. The output level is adjusted according to the last sensed noise level.
- Does not need a dedicated Ethernet network.

**SPECIFICATION:**

<b>BVVCONT1 (with 8 in/8 out interface fitted)</b>	
16-bit/48kHz DSP	
Analogue inputs & outputs	8x8, balanced on inputs 1&2
Maximum level input/output	6dBu
High dynamic range (A weighted measured)	D/A 101.5dB, AD 99.6dB
Low distortion (measured THD @ 9dBFS)	A/D & D/A less than 0.002%
Frequency response	22-22kHz, -0.2, -0.4dB @ 48kHz 22-40kHzm -0.2, -0.7dB @ 96kHz
Analogue audio inputs	8

Analogue synchronised audio outputs	8
Noise generators	30Hz, 1kHz, 20kHz, white or pink noise
MP3 player	4 x high quality
MP3 recorder	4 x high quality
VOIP input channel	4
VOIP output channel	4
Embedded noise analysis	300ms weighted dB meter (and level adjustment on all I/O)
Message databases	2
Text-to-speech (TTS)	Optional embedded
	All direction realtime audio routing
	<10ms overall latency

**TYPICAL SYSTEM LAYOUT:**



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