



VoIP SECURE IP SYSTEM

VIGIL VoIP

Voice over Internet Protocol (VoIP) technology adds further flexibility to our VIGIL2 systems. The new Baldwin Boxall Archean Technology secured IP system of audio distribution includes the following products:

BVVCONT1 • BVVCONT2 • BVV422 • BVVMPS • BVVMICP • BVVO50D

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.



BVV422:

- BVV422 units are used to connect public address/voice alarm system racks to the BVVCONT via the Ethernet network.
- Has two inputs and two outputs with level adjustment.
- Each unit has four dry contact inputs and outputs for various applications such as local message broadcast, local defect report, etc.
- Can play MP3 files (stored on internal SD card) 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.

BVVMPS:

- Multi-functional PA/VA telephone-style microphone handset.
- Wall or desk mountable.
- Handset base programmable keypad which provides the following facilities:
 - Zone select / all call.
 - Paging with pre-announcement chime.
 - Message broadcast (selected from messages available on BVVCONT).
 - Cycle broadcasting.
 - Record messages.
 - The ability to listen to messages prior to broadcast.
- Protected key for 'evacuation' and 'system bypass'.
- Push-to-talk button located in the handset.
- Connected to the VoIP network via a BVV422 module.

BVVMICP:

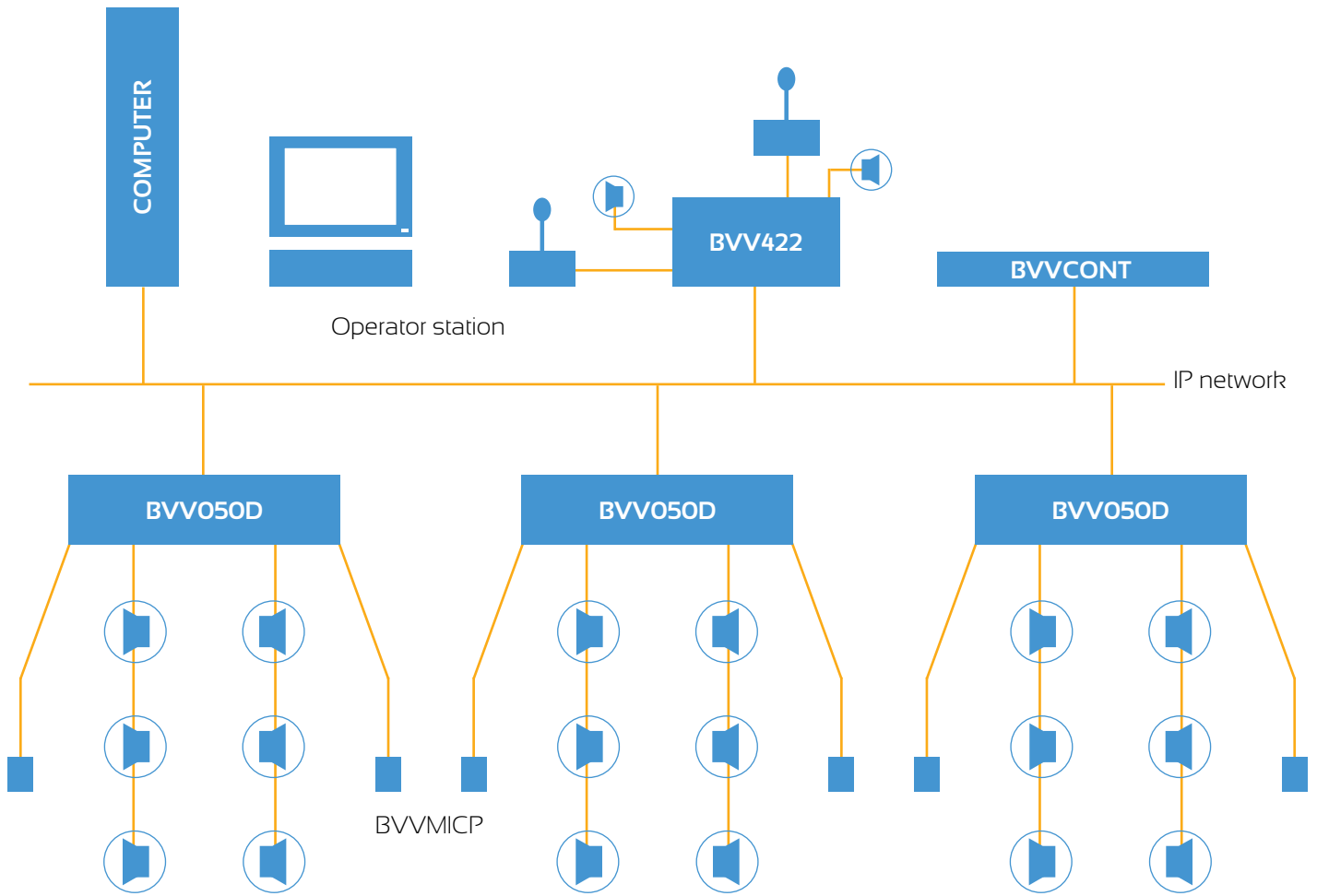
- Ambient noise sensor.
- Can be connected directly to the BVV422.
- IP65 rated enclosure.

BVVO50D:

- The BVVO50D is the outcome of a joint venture between Baldwin Boxall and Archean Technologies.
- 'All-in-one' product, 2U high.
- Contains two independent 50W class D power amplifiers, each with a single balanced line audio input and 50W 100V line output.
- Two independent audio IP channels.
- Integral processor enables local management.
- Failure of network can trigger a local safety or warning message if required.
- Ideal for voice alarm or public address systems.
- Enables broadcast of data and voice simultaneously - without any loss of quality (even over several hundred kilometres).
- Conforming to the IP standard, can be easily integrated into existing networks.
- Does not need a dedicated Ethernet network.
- Amplifiers are fully monitored.
- Impedance monitoring of loudspeaker lines.
- Suitable for numerous applications.
- Managed by the ATCONT controller and ATSOFT management system, which provide the following optional features:
 - Text-to-speech broadcast.
 - Messaging capabilities.
 - SD memory for messaging.
 - Live paging - using either standard BDM microphones or the BVVMPS handset.
 - Realtime fault indication and reporting.
 - Timed messages and timed volume adjustment.
 - Multi-IP user system.
 - Remote control.
 - Communicate with passenger information display system (PIDS) for automatic audio translation, with redundancy.

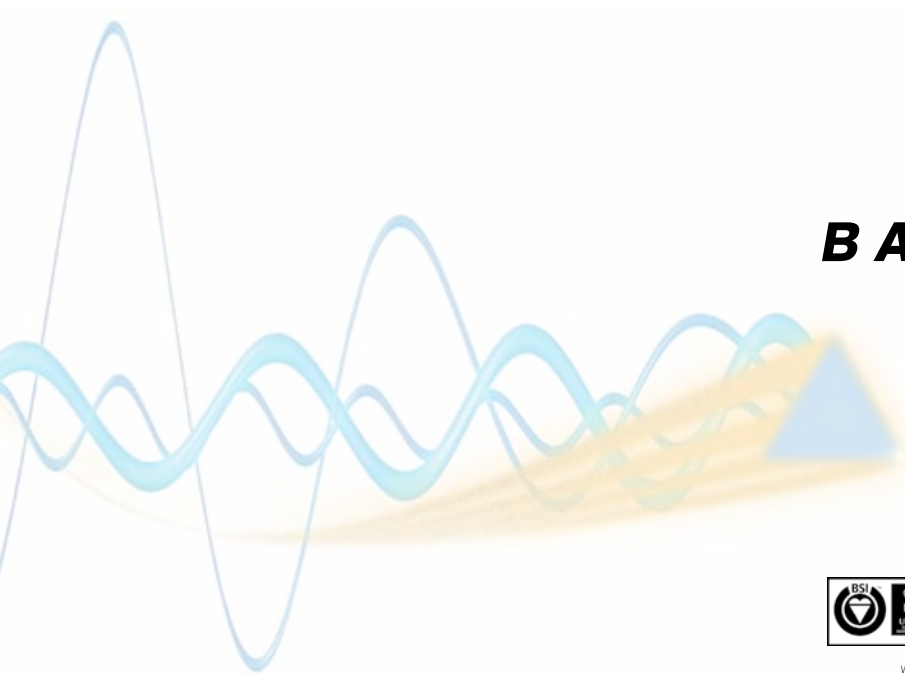


TYPICAL SYSTEM LAYOUT:



SPECIFICATION:

	BVVCONT1 (with 8 in/8 out interface fitted)	BVV422 (2 in / 2 out)
	16-bit/48kHz DSP	
Analogue inputs & outputs	8x8, balanced on inputs 1&2	2 x 2 OdB 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	
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	2 x high quality
MP3 recorder	4 x high quality	
VOIP input channel	4	2
VOIP output channel	4	2
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	



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