

BSS Audio has entered the conference room... and is at the head of the table.



GREAT RECIPES START WITH GREAT INGREDIENTS

With over 25 years of experience in audio processing, BSS Audio knows what it takes to satisfy even the most discerning audio critic. The Acoustic Echo Cancellation (AEC) algorithms found in the Soundweb London BLU-101 and BLU-102 open-architecture conferencing processors are the same outstanding algorithms used in the highly-acclaimed Soundweb London AEC Input Cards. Since the Soundweb London AEC algorithms always run on dedicated processors, all of the configurable DSP is available for other processing.

HEARING ONLY WHAT'S IMPORTANT

Fans may be cooling projectors and HVAC may be cooling meeting attendees, but that doesn't mean that remote callers want to hear them. The Soundweb London Noise Cancellation (NC) algorithm has its heritage in automotive applications where road noise provides a significant conferencing challenge. Specially adapted for the conference room, the Soundweb London NC algorithm effortlessly removes steady-state noise for remote callers.

IT'S OUR DIFFERENCES THAT MAKE US UNIQUE

As system designers, we have no control over attendee speech levels and there is no guarantee that individuals will remain in optimum physical locations.



Fortunately, the Soundweb London Auto Gain Control (AGC) algorithm can be employed to increase the level of quiet wanderers of the conference room and decrease the level of the loud participant next to the microphone.

EVERYTHING UNDER ONE ROOF

HiQnet™ London Architect is the configuration, control and monitoring application for all of the Soundweb London devices so – whether providing conferencing for a small standalone conference room or a gigantic, networked corporate facility – users will feel at home with a single, familiar drag-and-drop software application.

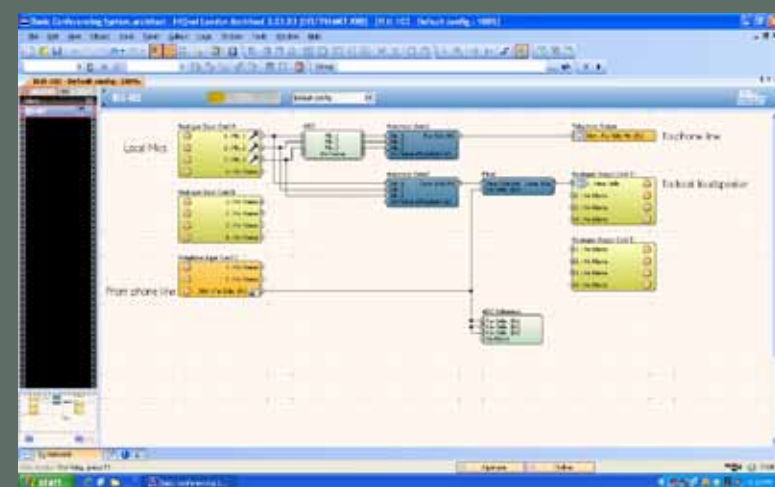
LONDON CALLING

Using the Soundweb London dialer is as simple as using a phone and all of the buttons and Speed Dial Numbers (up to 50) are made available to third-party control systems. Auto Answer and DTMF detect, featured on the Soundweb London Telephone Hybrid Card and within the BLU-102 conferencing processor, facilitates remote maintenance or telephone paging.

DIVIDE AND CONQUER

An individual reference per AEC path means that single devices can be used across multiple conference spaces, or that larger conference spaces can be seamlessly combined and uncombined using the Soundweb London Room Combine Processing Object.

The Soundweb London conferencing products and the other members of the Soundweb London family provide the building blocks of the perfectly tailored system solution.



CONFERENCE
SYSTEMS



Soundweb™
London

BSS Audio

8760 South Sandy Parkway

Sandy, Utah 84070

801.566.8800

bssaudio.com

PN: 18-0852

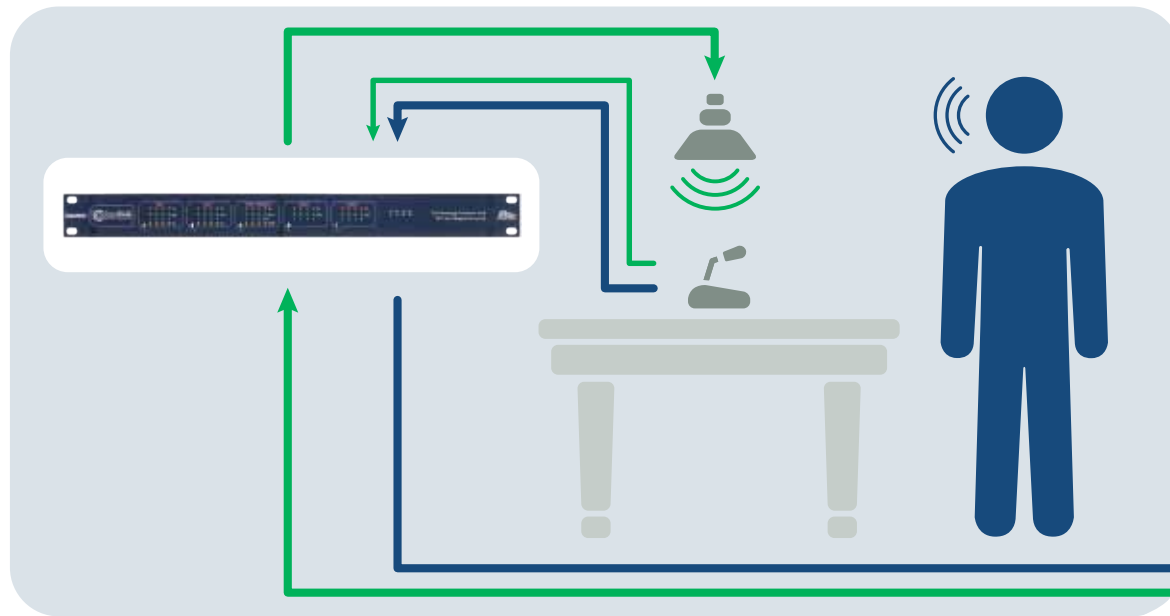
Whether a solo or a full ensemble, Soundweb London delivers the perfect performance.

WHY DO WE NEED ACOUSTIC ECHO CANCELLATION?

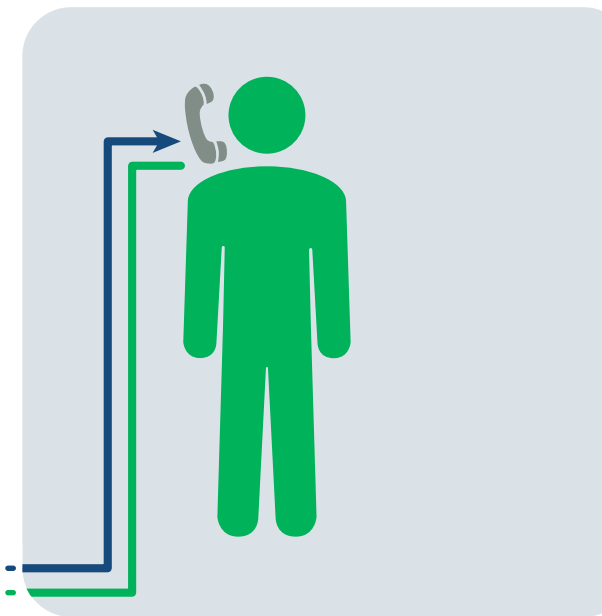
When a remote caller on the far-side speaks, their voice travels through the phone system and is heard through the loudspeakers by the conference room attendees on the near-side. In addition to reaching the conference room attendees' ears, the remote caller's voice also enters the conference room microphones, both directly and as reflections from the conference room surfaces. This direct and indirect far-side audio is mixed in with the voices of the conference room attendees.

The Acoustic Echo Cancellation algorithms remove the unwanted direct and indirect far-side audio from the conference room microphone signals. The result, which is simply the voices of the conference room attendees, is transmitted through the phone system to the remote caller. Without Acoustic Echo Cancellation, the remote caller would hear an echo of their own voice, with a delay caused by the round trip through the phone system and audio artifacts caused by the room reflections.

CONFERENCE ROOM (NEAR-SIDE)



REMOTE CALLER (FAR-SIDE)



The power, flexibility and reliability for any scale of installed sound system.

The choice of conferencing products from the Soundweb London family brings the quality and reliability of BSS Audio to your conference room. BSS Audio offers simple integration with POTS (Plain Old Telephone Service) systems and VoIP / digital phone systems. Whether you require standalone conferencing solutions or an integrated solution with a BGM (background music) and paging system, Soundweb London offers the building blocks of a tailor-made system.

	CHASSIS	CONFIG. I/O	INPUTS	AEC ALGORITHMS	TELEPHONE HYBRIDS	OUTPUTS	CONFIG.	DISPLAY	LOGIC	RS-232	GPIO	SIGNAL PROCESSING (MHz)	COBRANET	DIGITAL AUDIO BUS
BLU-800	19"	✓	C	4 / AEC CARD	1 / TEL HYBRID CARD	C	S	LCD / LED	✓	✓	✓	800	✓	256
BLU-320	19"	✓	C	4 / AEC CARD	1 / TEL HYBRID CARD	C	S	LCD / LED	✓	✓	✓		✓	256
BLU-160	19"	✓	C	4 / AEC CARD	1 / TEL HYBRID CARD	C	S	LCD / LED	✓	✓	✓	800		256
BLU-120	19"	✓	C	4 / AEC CARD	1 / TEL HYBRID CARD	C	S	LCD / LED	✓	✓	✓			256
BLU-102	19"		10	8	1	8	S	LED	✓	✓	✓	400		48
BLU-101	19"		12	12		8	S	LED	✓	✓	✓	400		48
BLU-B1B	HALF-RACK		8				M	LED						256
BLU-B0B1	HALF-RACK					8	M	LED						256
BLU-B0B2	19"					8	M	LED						256

C = CONFIGURABLE; S = SOFTWARE; M = MANUAL

AEC Algorithms

BSS Audio offers both a full-bandwidth AEC algorithm and the original 8kHz-bandwidth AEC algorithm. A property within HiQnet London Architect v3.04 and above allows users to switch between the two algorithms.

When upgrading systems to HiQnet London Architect v3.04, they will continue to use the 8kHz-bandwidth AEC algorithm unless manually switched to use the new full-bandwidth AEC algorithm. Therefore, changes will not be forced upon existing systems. New Soundweb London designs will default to using the new full-bandwidth AEC algorithm, which gives excellent performance with POTS and VoIP systems, while also accommodating full-bandwidth content.

The AEC algorithms for the BLU-101, BLU-102 and AEC Input Cards run on dedicated processors which means that all of the configurable DSP is available for other processing. In the case of the BLU-101 and BLU-102, the AEC algorithms are represented within software as Processing Objects so AEC inputs can be sourced locally, from networked audio or even post-mix for budget-constrained applications.

Hardware



Soundweb London BLU-101



Soundweb London BLU-102

I/O Cards

(for BLU-800, BLU-320, BLU-160 and BLU-120 devices)



AEC INPUT CARD



TELEPHONE HYBRID CARD



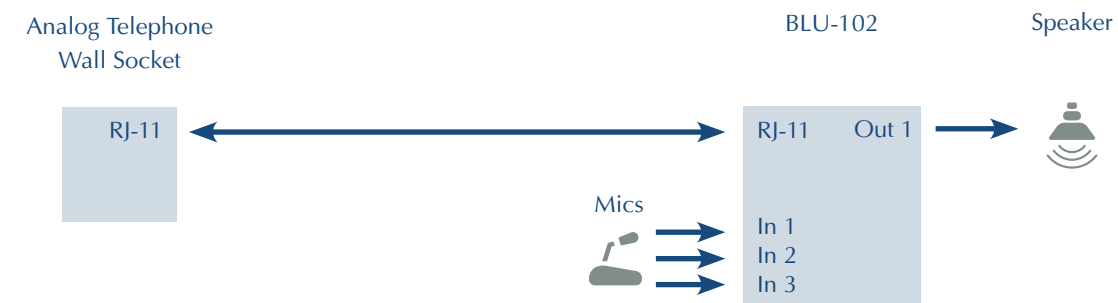
BLU HIF Telephone Headset Interface

Accessories

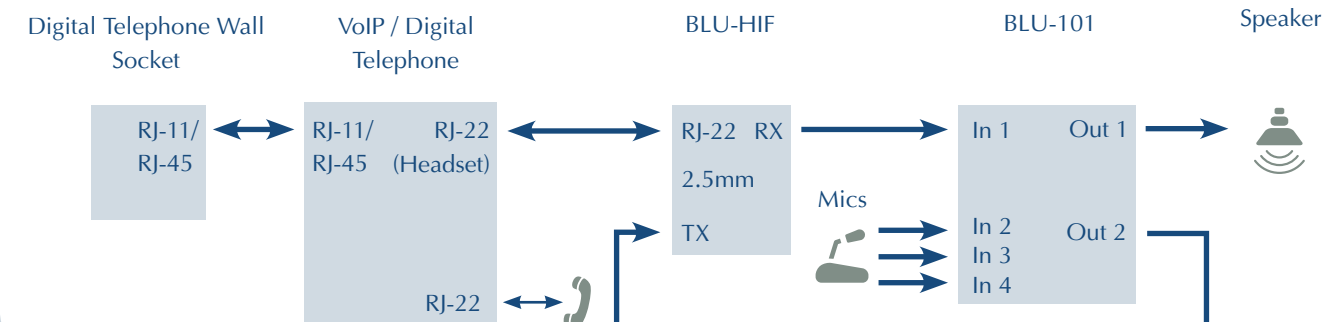
- Simple Integration with POTS Phone Line
- Variety of Dialer Options inc. Third-Party Control Systems
- DTMF Detect Functionality
- Up To 50 Speed Dial Presets

- Integration with VoIP / Digital Phone System
- Variety of Dialer Options inc. Third-Party Control Systems
- DTMF Detect Functionality
- Up To 50 Speed Dial Presets

STANDARD POTS LINE

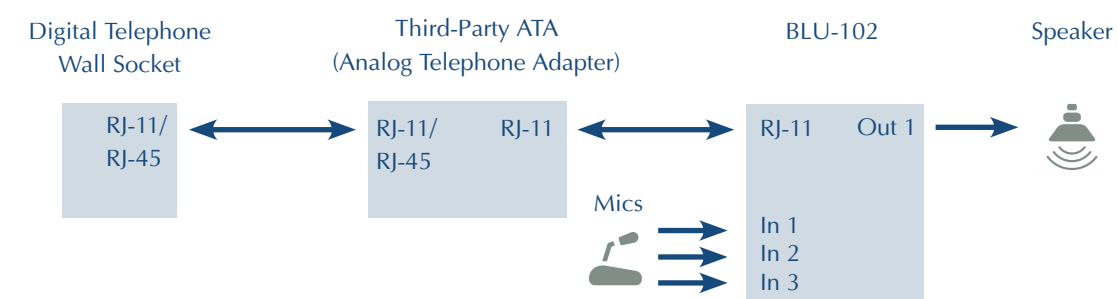


VOIP / DIGITAL LINE - Using Headset Port of VoIP / Digital Phone

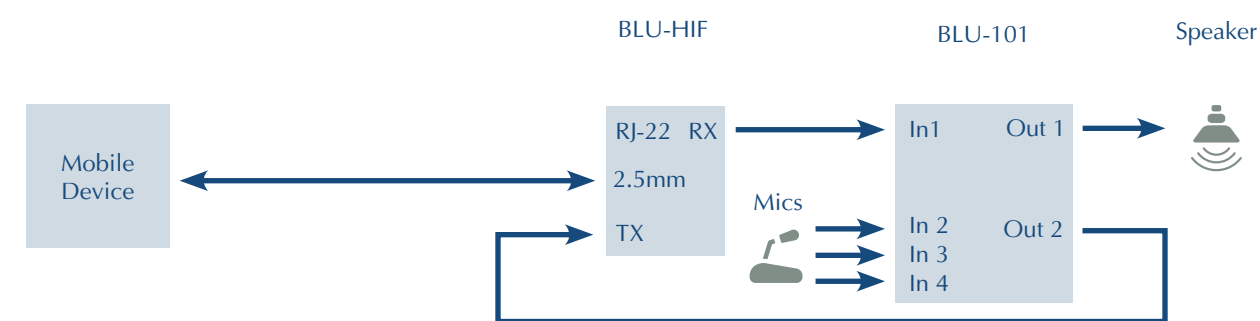


- Integration with VoIP / Digital Phone System
- Leverage Existing Infrastructure e.g. Speed Dial Presets / Phone Directory
- Familiar Dialing Interface
- Simple Handset / Conference Room Switching

VOIP / DIGITAL LINE - Using ATA



MOBILE DEVICE - Using BLU-HIF



- Facilitate Conference Calls without Installed Phone Connections
- Leverage Mobile Device Phone Directory
- Provide Backup Phone System