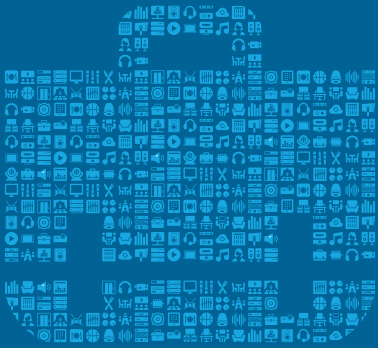


APPLICATION BRIEF



CORPORATE



Large Conference Room with Web Conferencing



OPPORTUNITY

The technology in large conference rooms is designed to allow presenters to share content from multiple source devices to local and remote viewers. To provide the ideal experience for both local and distant viewers, the conference room AV system needs to be able to optimize the experience for both sets of meeting attendees.

Local and remote attendees need to be able to hear audio from a variety of source devices. In order to provide optimum audio to the speakers in the room, local audio will also require digital signal processing to control volume and optimize EQ for the space. Once optimized, the audio is routed through an amplifier to the room speakers.

To be sure remote attendees can hear everyone, the system typically requires four or more microphones to evenly cover anyone in the room that's speaking. The solution should provide suitable connectivity and automixing for that requirement as well as acoustic echo cancellation (AEC) to ensure remote callers don't experience the "echo" often encountered when a microphone in the conference room picks up far-end audio coming through the signal. Optimized audio being sent to remote participants is output over USB for use in web conferencing.



SOLUTION

Providing optimum audio for both sets of users typically requires a rack of gear, expensive video conferencing hardware and complicated setup. However, HARMAN offers a complete solution for this application with minimal complexity and advanced features, leveraging a standard PC based conferencing solution, AMX Incite Digital Video Presentation Switcher and BSS BLU-101 Digital Conferencing Processor. Source devices (including the software-based codec) are connected to the AMX Incite. Video is routed to Incite's mirrored HDMI and AMX DXLite outputs for room display. Audio for the selected source is routed from one of Incite's auxiliary audio outputs to the BSS BLU-101. Audio from the source and microphones are combined and, through use of the BLU-101's Automatic Gain Control, Noise Cancellation, and AEC algorithms, optimised. That optimised audio is then connected to the conferencing PC via the BSS BLU-USB interface. A second optimised audio feed is sent from the BLU-101 to an audio input on the Incite which then routes that audio to the built-in amplifier and, ultimately, to speakers in the room.



AKG

AMX

BSS

CROWN

dbx

JBL
PROFESSIONAL

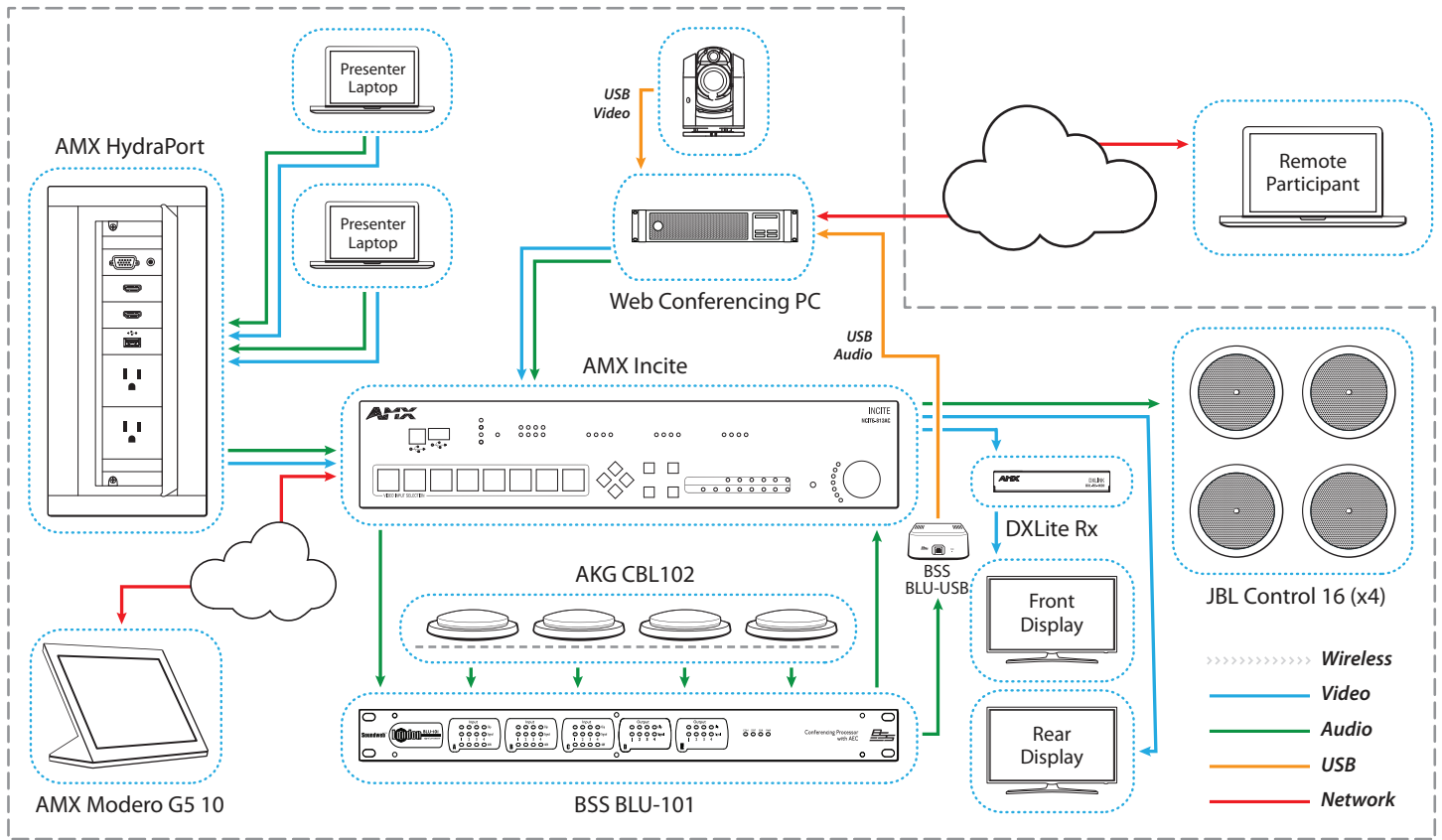

lexicon

Martin

Soundcraft


STUDER

LARGE CONFERENCE ROOM SYSTEM DIAGRAM


BSS BLU-101 Conferencing Processor with AEC

The Soundweb London BLU-101 offers configurable signal processing, AEC processing, and a high bandwidth, fault tolerant digital audio bus. In this application, the BLU-101 provides echo cancellation and signal processing to ensure that both the near and far end participants enjoy the ideal audio experience.



AMX Incite All-in-One Presentation Switcher

This integrated presentation switcher provides video switching with transitions, BSS audio signal processing, Crown DriveCore amplification, and AMX NetLinx room control. In this application, Incite provides source audio and video switching, with seamless video transitions between sources. Incite also drives in-room audio, leveraging the built-in amplifier with HARMAN's proprietary DriveCore technology.



BLU-USB Audio to BLU link Interface

The BLU-USB allows audio from a PC/Mac to be directly placed onto the BLU link audio bus, enabling easy implementation of softphones for conferencing systems or audio playback directly to/from a computer.



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