ClearOne®

Lecture Hall

Design Guide

DOC-0586-001 - V 2.0- May 2024

Room Application

Web Collaboration, Audio Conferencing, Voice Lift, Presentation, Wireless Microphones.

Included Interfaces

VoIP - Analog Telco - USB Audio – Camera – Voice Lift

Primary Equipment

- CP2 128VT
- BMA 360
- Unite 260
- Unite 160

Software/Firmware revisions utilized

- Console Ai Version: v7.7.0.14
- DSP Version: 8.7.14.13
- BMA 360 Version: 1.0.8.4

Notes:

A large Lecture space with excellent Voice Lift capabilities and connectivity options. Everyone in this room can be heard, both locally and on the cloud or phone call connections. This design also provides full instructor control over the audience microphones as well.
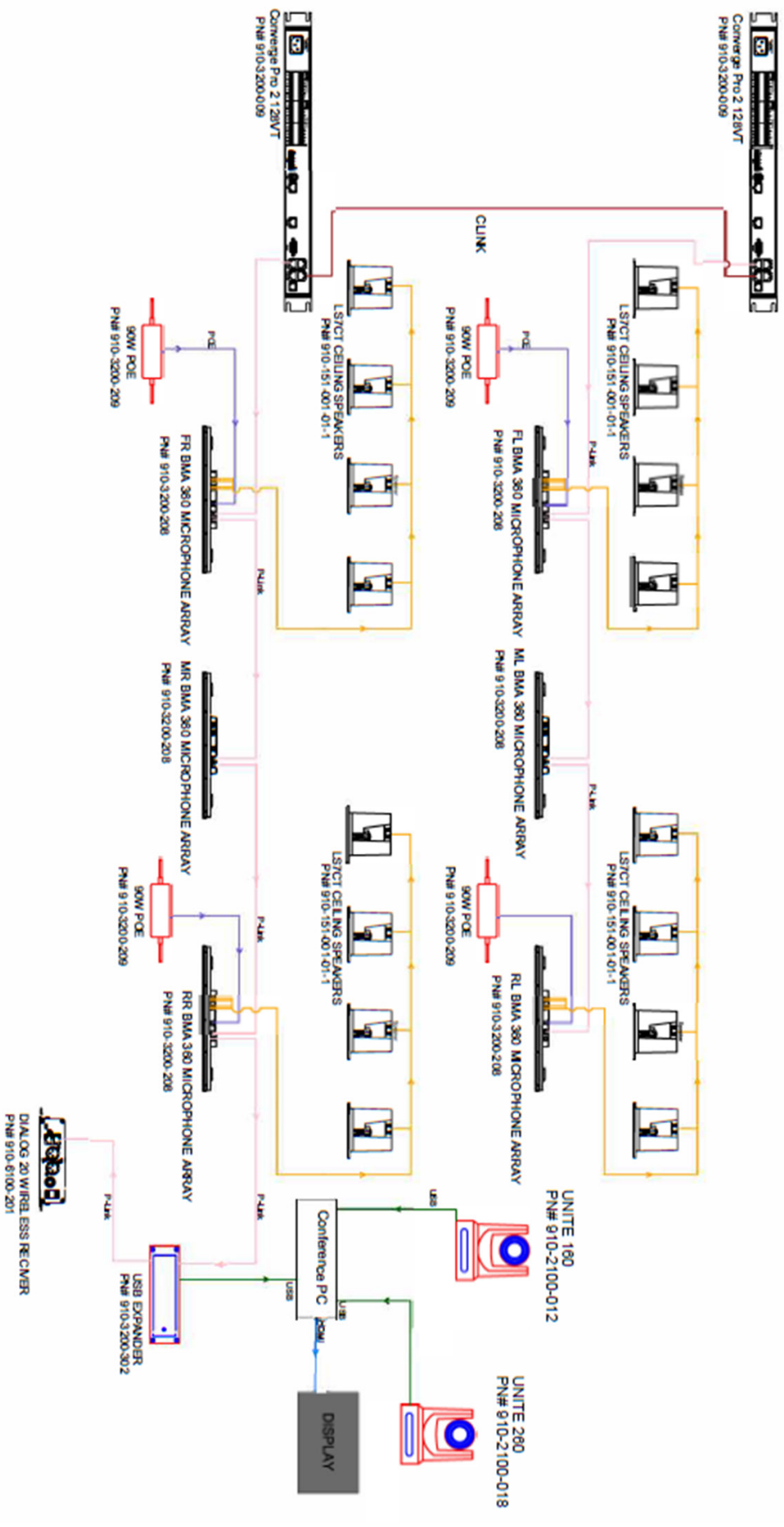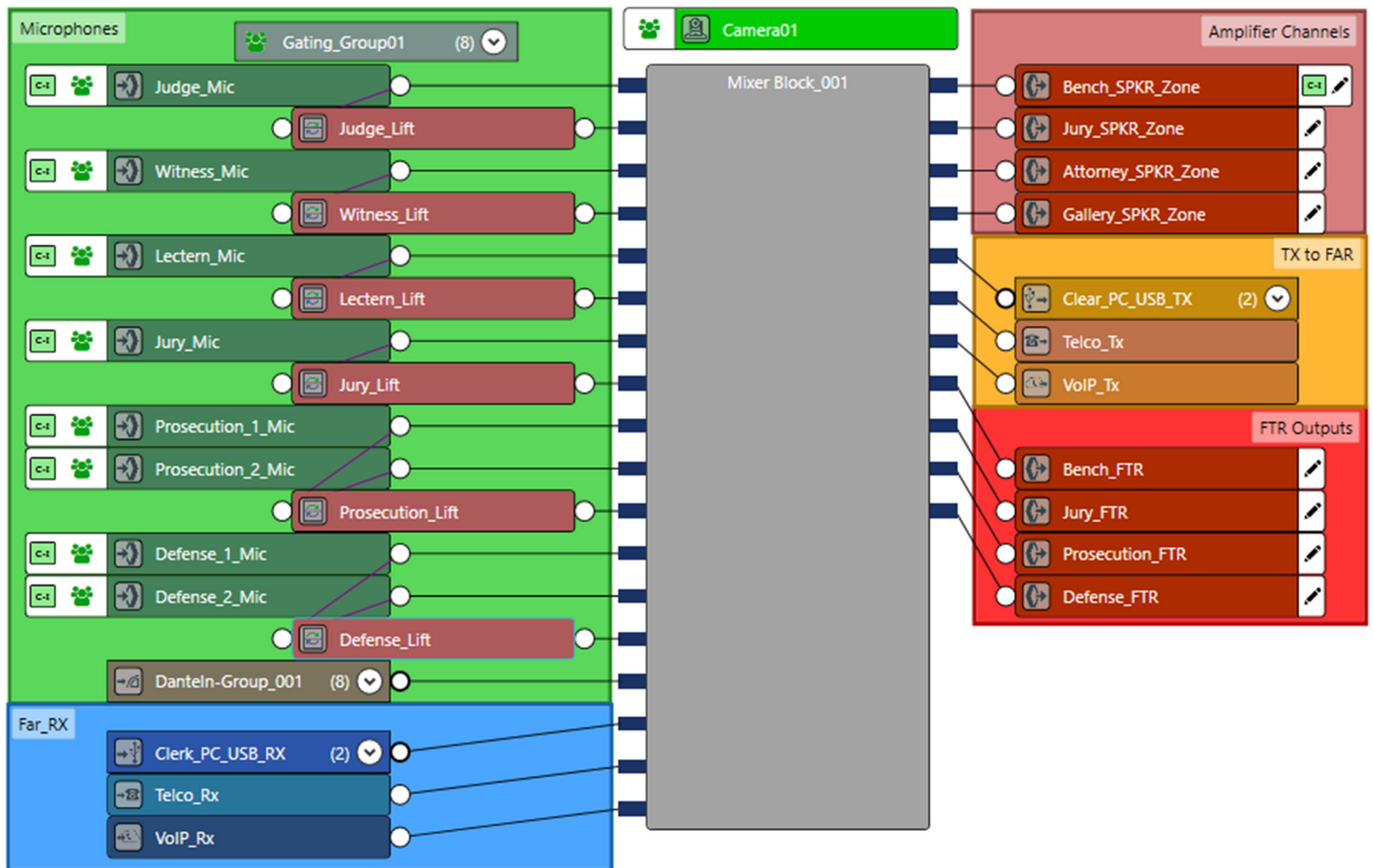
Room Illustrations

LARGE LECTURE HALL

NOTE: ANY INDIVIDUAL P-LINK MUST NOT EXCEED 200 FEET / 61 METER IN LENGTH

Converge Pro 2 128VT
PN# 910-3200-009

Converge Pro 2 128VT
PN# 910-3200-009

CLINK

90W POE
PN# 910-3200-209

90W POE
PN# 910-3200-209

90W POE
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90W POE
PN# 910-3200-209

POE

POE

LS7/CT CEILING SPEAKERS
PN# 910-151-001-01-1

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LS7/CT CEILING SPEAKERS
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PN# 910-151-001-01-1

FL BMA 360 MICROPHONE ARRAY
PN# 910-3200-208

ML BMA 360 MICROPHONE ARRAY
PN# 910-3200-208

RL BMA 360 MICROPHONE ARRAY
PN# 910-3200-208

FR BMA 360 MICROPHONE ARRAY
PN# 910-3200-208

MR BMA 360 MICROPHONE ARRAY
PN# 910-3200-208

RR BMA 360 MICROPHONE ARRAY
PN# 910-3200-208

P-Link

P-Link

P-Link

P-Link

P-Link

P-Link

DIALOG 20 WIRELESS RECIVER
PN# 910-6100-201

USB EXPANDER
PN# 910-3200-302

Conference PC

USB

USB

USB

USB

DISPLAY

UNITE 160
PN# 910-2100-012

UNITE 260
PN# 910-2100-018

LEGEND

	SPEAKER (18 AWG Wire)
	POE
	USB
	HDMI
	P-LINK (CAT 6)
	NETWORK (CAT 6)

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Equipment list:

Qty	Part Number	Product Name	Description
6	910-3200-208	BMA 360	BMA with 4 x 15 Watt Power Amplifiers. PoE Injector and CAT6 cables not included.
4	910-3200-209	90W PoE++ power supply kit for BMA	Includes 1 x 90 Watt PoE++ Injector, 2 x 25 ft CAT6 cables
1	910-6100-300	Dialog 20 USB Wireless Microphone	A flexible, high quality, 2-channel wireless microphone solution with less than 4 milliseconds of audio latency that enables hybrid meetings with simultaneous local sound reinforcement
2	910-6103-001	DIALOG Handheld Transmitter H18	Wireless Handheld with H18, Condenser, Cardioid Microphone capsule with 2.4 GHz RF band
8	910-151-001-01-1	Ceiling Speakers	Includes 2 x LS7CT ceiling speakers with 8 ohm and 70V/100V transformer taps and ceiling tile bridges.
1	910-2100-012	UNITE 160 PTZ Camera	4K PTZ camera with 12x optical Zoom, 2160P30 UHD, USB, AI smart face tracking, and auto framing.
1	910-2100-018	UNITE 260 PTZ Camera	PTZ camera with 20x optical zoom, 4Kp30 UHD, USB, HDMI, IP connections, AI smart face tracking, and auto framing.
1	910-3200-302	USB Expander for CONVERGE Pro 2	Includes 6 ft USB cable
1	910-6105-021	DIALOG Antenna Kit 25 Ft	Di-pole Antenna extension kit with pair of 25 Ft RG8 Plenum cables tuned for 2.4 GHz RF band, includes pair of mounting brackets. Antennas not included.
2	910-3200-009	CONVERGE Pro 2 128VT	DSP Mixer with 12 Mic/Line AEC Inputs, 8 Mic/Line Outputs, USB Audio, VoIP, Telephone Interface

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Flow View Diagram:

Included Macros:
- SPKR_UP: Increase speakers by 3 dB.
- SPKR_DOWN : Decrease speakers by 3dB.
- Presenter_to_Class_OFF: Remove Lift routing from Presenter to Class
- Presenter_to_Class_ON: Return Lift routing from Presenter to Class
- Mic_Mute_ALL: Mute all Lecture Hall microphones
- Mic_Unmute_ALL: Unmute all Lecture Hall microphones
- Mic_Mute_Lectern: Mute Presenter lectern microphone.
- Mic_Unmute_Lectern: Unmute Presenter lectern microphone.
- Mic_Mute_Wireless: Mute Dialog 20 wireless channels.
- Mic_Unmute_Wireless: Unmute Dialog 20 wireless channels.
- Mic_Mute_Class: Mute all Class BMA 360 microphones.
- Mic_Unmute_Class: Unmute all Class BMA 360 microphones.

Note:
*Macros can be executed via Telnet or serial communications. Refer to the Converge Pro 2 Serial Command Reference Manual for details.

Download the Lecture Hall files:

Example Console Configuration File | Download
DWG Wiring Diagram | Download
Stardraw Wiring Diagram | Download

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