ClearOne®

Courtroom

Design Guide

Room Application
Voice Lift, Remote Witness, FTR Recording, Camera Tracking.

Included Interfaces
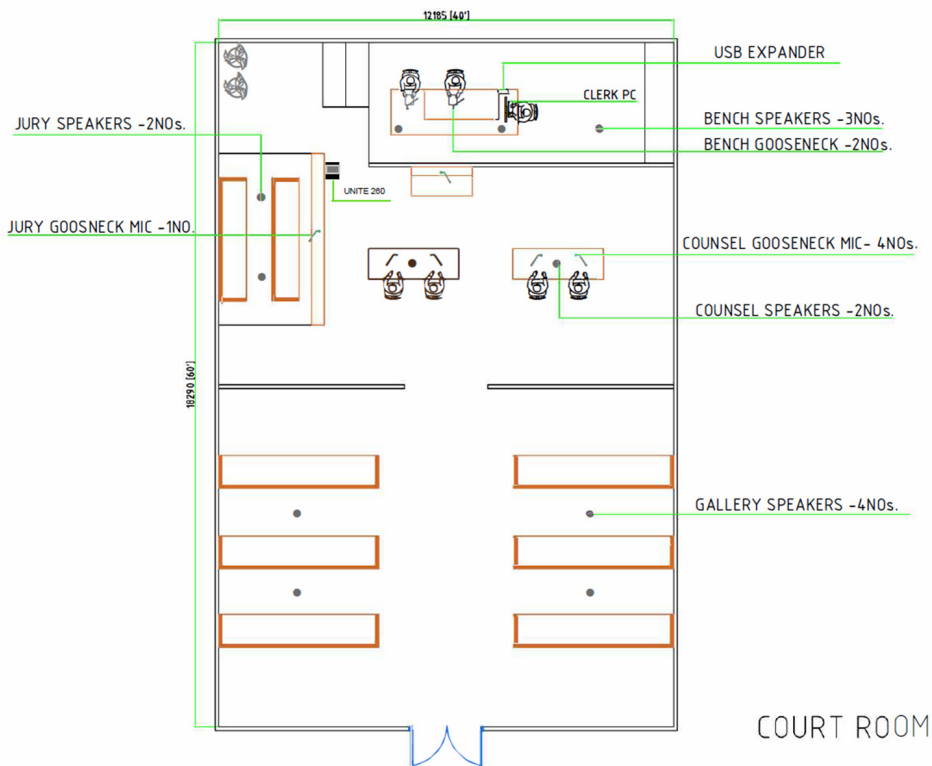VoIP, Telco, USB

Primary Equipment
- Converge Pro 2 128VTD
- Dante Microphones
- Converge PA460 Amplifier
- Unite 260 4K PTZ Camera

Software/Firmware revisions utilized
- Console Ai Version: v7.7.0.14
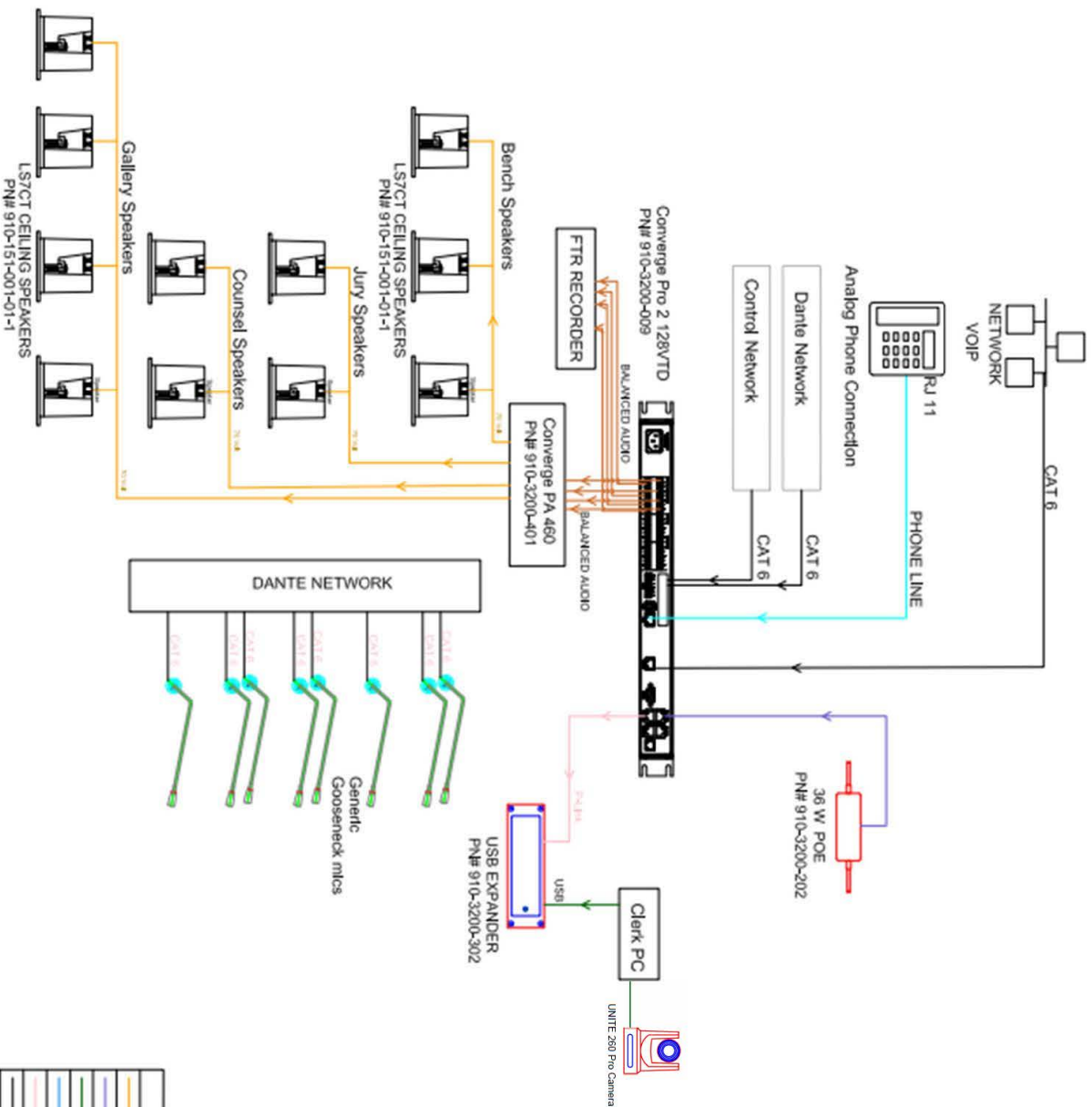- DSP Version: 8.7.14.13
- BMA 360 Version: 1.0.8.4

Room Illustrations

COURT ROOM

Room Description
Quality audio is key in the modern courtroom. This system design provides excellent audio pick-up for recording and transmit of all key courtroom positions, as well as voice lift for perfect communication within the courtroom itself. Native Camera Tracking keeps the active talker in camera view.

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

LS7CT CEILING SPEAKERS
PN# 910-151-001-01-1

Gallery Speakers

LS7CT CEILING SPEAKERS
PN# 910-151-001-01-1

Bench Speakers

Counsel Speakers

Jury Speakers

FTR RECORDER

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

BALANCED AUDIO

Analog Phone Connection

Control Network

Dante Network

NETWORK
VOIP

RJ 11

CAT 6

CAT 6

PHONE LINE

CAT 6

Converge PA 460
PN# 910-3200-401

BALANCED AUDIO

DANTE NETWORK

Generic
Gooseneck mics

36 W POE
PN# 910-3200-202

USB EXPANDER
PN# 910-3200-302

USB

Clerk PC

UNITE 260 Pro Camera

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

ClearOne®

ClearOne®

Equipment list:

Qty	Part Number	Product Name	Description
1	910-3200-009-D	CONVERGE Pro 2 128VTD	DSP Mixer with 12 Mic/Line AEC Inputs, 8 Mic/Line Outputs, USB Audio, VoIP, Telephone Interface, Dante 16 x 16
1	910-3200-302	USB Expander for CONVERGE Pro 2	Includes 6 ft USB cable
1	910-3200-202	36W PoE+ power supply kit	Includes 1 x 36 Watt PoE+ Injector, 2 x 25 ft CAT6 cables
6	910-151-001-01	Ceiling Speakers	Includes 2 x LS6CT ceiling speakers with 8 ohm and 70V/100V transformer taps and ceiling tile bridges.
1	910-3200-401	CONVERGE PA 460	4 Ch x 60 Watts Class-D audio power amplifier. Half rack size. Rack-mount kit not included.
1	910-2100-018	UNITE 260 Pro Camera	PTZ camera with 20x optical zoom, 4Kp30 UHD, USB, HDMI, IP connections, AI smart face tracking, and auto framing.

Note:

*Additional 3rd party equipment may be needed and may not be reflected in this equipment list.

ClearOne®

Flow View Diagram:
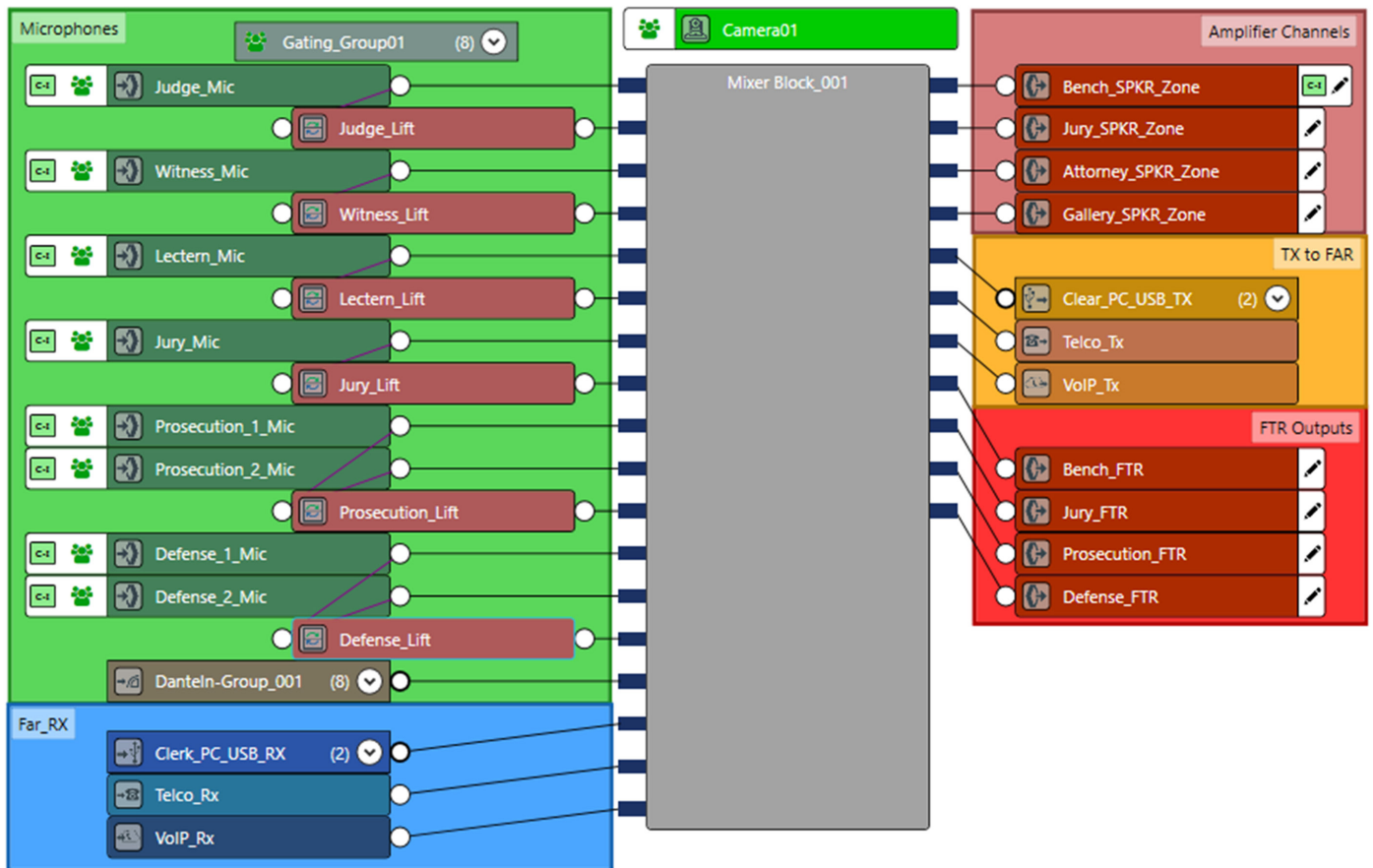
Included Macros:

-BenchMicMute – Mutes Judge and Witness Microphones.
-BenchMicUnmute – Unmutes Judge and Witness Microphones.
-DefenseMicMute – Mutes Defense Gooseneck Microphones.
-DefenseMicUnmute – Unmutes Defense Gooseneck Microphones.
-FullSystemMute – Mutes all Microphones as well as Far End RX and TX audio channels.
-FullSystemUnmute – Unmutes all Microphones as well as Far End RX and TX audio channels.
-JuryMicMute – Mutes the Jury Gooseneck Microphone.
-JuryMicUnmute – Unmutes the Jury Gooseneck Microphone.
-ProsecutionMicMute – Mutes the Prosecution Gooseneck Microphones.
-ProsecutionMicUnmute – Unmutes the Prosecution Gooseneck Microphones.

Note:

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

ClearOne®

Included Macros:

Converge Pro 2 audio processors support both IP and VISCA direct camera control to focus on speaking room participants. This design includes a preliminary configuration for tracking.

Camera coverage zones-

Unite 260

Zone 3

Zone 4

Zone 1

Zone 2

CLERK PC
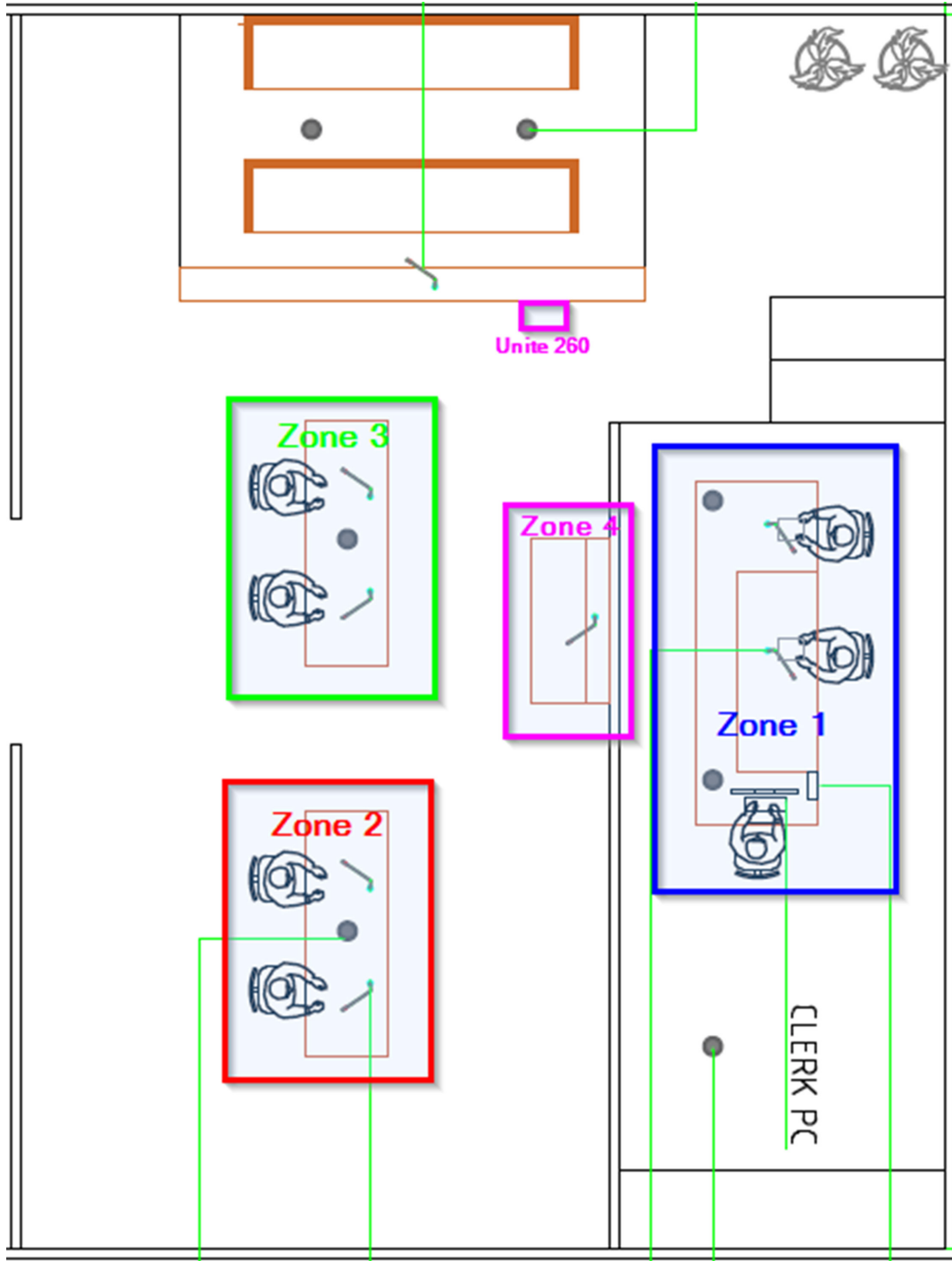
Active Microphone assignments to Camera Presets-

ClearOne®

Camera Preset Matrix

UNITE26..	Preset_1	Preset_2	Preset_3	Preset_4	Preset_5	Preset_6	Preset_7	Preset_8	Preset_9	Preset_10	Preset_11	Preset_12	Preset_13
Defense_1_Mic		X											
Defense_2_Mic		X											
Judge_Mic	X												
Jury_Mic													
Lectern_Mic				X									
Prosecution_1_Mic			X										
Prosecution_2_Mic			X										
Witness_Mic	X												

Download the Courtroom files:

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