ClearOne®

COLLABORATE® | Room Pro
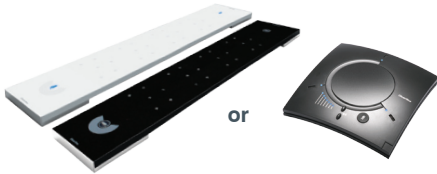Evolve from legacy video conferencing to media collaboration.

Fulfill every conference room media requirement with the industry's only solution to directly connect ClearOne's Beamforming Microphone Array for unbeatable audio. This fully integrated media appliance delivers best-in-class, full 1080p60 standards-compliant video conferencing, integrated audio conferencing, and can be used to record, create, and stream content to large audiences - even when not in a call. Deliver impacting "in-room" presentations with no additional equipment, and ensure everyone in the room can be clearly heard.

Note - Photos are not to scale

Features

+ Expands conference room use beyond "regular meetings"

+ Turn any meeting room into a broadcast studio with integrated multicast and unicast streaming, in or out of a call

+ Create content with our integrated recording server – no need for expensive recording and archiving infrastructure

+ Deliver in-room or video presentations using a USB stick or other sources like laptops or mobile devices

+ Fully integrates with your infrastructure, or the cloud

+ Embedded multipoint bridge to connect up to 9 sites

+ Capture video from two cameras or sources and transmit simultaneously

+ Multi-standard support – H.323 and SIP

+ Content with live data sharing (H.239) up to 1080p30

+ H.264 high-profile for better resolution at lower bandwidth

+ End to end digital audio integration

+ Beamforming Microphone Array replaces up to ten traditional microphones, with twice the pickup range

Video Conferencing	Audio Conferencing	Recording Server	Presentation System	Streaming Server	9-way Integrated MCU

COLLABORATE Room Pro 500 systems

> 510 includes tabletop COLLABORATE Microphone Array

> 520 includes Beamforming Microphone Array and CONVERGE USB adapter

Both sytems include:

+ Pro 500 codec with digital audio connectivity (USB)
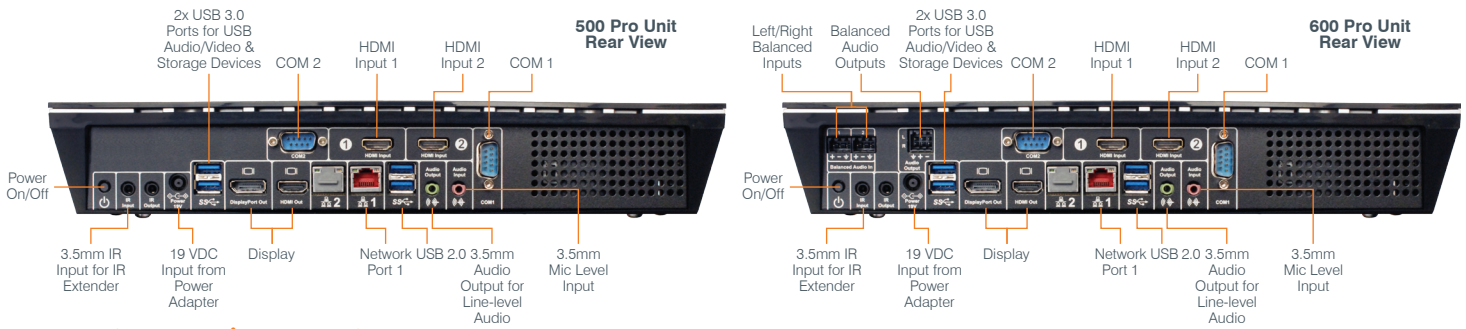
+ PTZ camera with 12x optical zoom

+ Remote control

COLLABORATE Room Pro 600 systems

> 610 includes tabletop COLLABORATE Microphone Array

> 620 includes Beamforming Microphone Array and CONVERGE USB adapter

Both sytems include:

+ Pro 600 codec with digital audio connectivity (USB)

+ PTZ camera with 12x optical zoom

+ Remote control

+ Balanced audio connectivity

> COMPONENTS/BACK PANEL

500 Pro Unit Rear View

- 2x USB 3.0 Ports for USB Audio/Video & Storage Devices
- COM 2
- HDMI Input 1
- HDMI Input 2
- COM 1
- Power On/Off
- 3.5mm IR Input for IR Extender
- 19 VDC Input from Power Adapter
- Display
- Network Port 1
- USB 2.0
- 3.5mm Audio Output for Line-level Audio
- 3.5mm Mic Level Input

600 Pro Unit Rear View

- Left/Right Balanced Inputs
- Balanced Audio Outputs
- 2x USB 3.0 Ports for USB Audio/Video & Storage Devices
- COM 2
- HDMI Input 1
- HDMI Input 2
- COM 1
- Power On/Off
- 3.5mm IR Input for IR Extender
- 19 VDC Input from Power Adapter
- Display
- Network Port 1
- USB 2.0
- 3.5mm Audio Output for Line-level Audio
- 3.5mm Mic Level Input

Functional Specifications

VIDEO CHARACTERISTICS

VIDEO SPECIFICATIONS
Transmission speed (H.323/SIP): 64Kbps – 6MBps

VIDEO STANDARDS
H.261, H.263, H.263+/++,
H.264/AVC High Profile - UP TO 6Mbps

LIVE VIDEO RESOLUTION
1080p (1920 x 1080 pixels), 720p (1280 x 720 pixels)
672 x 384, 4CIF (704 x 576 pixels), 4SIF (704 x 480 pixels)
VGA (640 x 480 Pixels), CIF (352 x 288 Pixels)
SIF (352 x 240 Pixels), QVGA (320 x 240 Pixels)

RECEIVING RESOLUTION
Up to 1080p60

VIDEO TRANSMIT FRAME RATE
Up to 60 fps at 720p, Up to 30 fps at 1080p
Up to 60 fps at 1080p

VIDEO INPUTS
2X HDMI

VIDEO OUTPUTS
HDMI, Display Port

VIDEO FEATURES
MCU 1+8 Video Switch/Continuations Presence
Recording- on internal or external (USB) storage
Streaming- Unicast and Multicasting
Data Recording/Streaming/Multicasting

CAMERA SPECIFICATIONS
1080p60/1080p30/720p60 PTZ Camera
12x optical zoom
70-degree field of view
Auto focus/automatic gain control

AUDIO CHARACTERISTICS

AUDIO INPUTS/OUTPUTS
Unbalanced Audio, USB,
Balanced Audio (Pro 600 model)

AUDIO FEATURES
Full duplex echo cancellation
Automatic Noise suppression (ANS)
Automatic gain control (AGC)
Voice Activity Detection (VAD)

AUDIO STANDARDS
20KHz AAC-LD
14KHz: G.722.1 Annex C
7KHz: G.722, G.722.1
3.4KHz: G.711, G.723.1, G.728. G.729. AMR (3G)

DATA CHARACTERISTICS

DATA SPECIFICATIONS
Data Sharing methods
Laptop plug in
USB Storage key
Documents: PPT, PPTX, PPS, PPSX, DOC, DOCX,
XLS, XLSX, Video clips (AVI, MPEG, WMV, etc)
Graphic files (BMP, GIF, TIF etc)
H.239 support, Sending & receiving capability
2 live video sources or 1 live source and Data source

RESOLUTIONS SUPPORTED
1080p, 720p, XGA, SVGA, 4CIF, VGA, CIF

NETWORK CHARACTERISTICS

STANDARD SUPPORTED
ITU-T: H.323 v4.2,
SIP RFC3261

NETWORK OPTIMIZATION
NAT IP address mask, Port pinholing
Adaptive Bandwidth Adjustment,
Packet loss recovery (FEC), Packet ordering,
Packet duplication control, jitter correction
Lip sync correction, Overhead prediction
Max packet size adjustment

DIALING MODES
Manual, Speed dial, Personal address book,
Online directory, Multicast viewer,
Through API

SECURITY & ENCRYPTION
Encryption using H.235 (AES - 128)
Supports ClearOne NetPoint (Firewall Traversal)
Network address translation (NAT)
Supports restricted access to users via admin
H.460 Support

CONTROL
International remote control
Embedded web-based management
Telnet API for AMX/crestron
Far End Camera Control

DIRECTORY SERVICES
1000+ local number directory
10,000+ global number directory
H.350 support (thru COLLABORATE Central)
LDAP online directory support,
OpenLDAP
Active Search and Filter queries

PHYSICAL CHARACTERISTICS

DIMENSIONS (L x W x H)
210mm x 340mm x 54mm

WEIGHT
3.1Kg

ENVIRONMENTAL CHARACTERISTICS

TEMPERATURE
0°C-40°C

STORAGE TEMPERATURE
20°C-80°C

HUMIDITY
15 - 80% humidity

POWER SUPPLY
19VDC, 120W (40W typical)

INPUT VOLTAGE
120VAC - 230VAC

OPERATING FREQUENCY
50Hz - 60Hz

LANGUAGE SUPPORT
English, French, German, Italian, Chinese (Simplified, Traditional), Korean, Russian and Japanese

MODELS

ROOM PRO 500 SERIES
Room Pro 500 (base unit)
Room Pro 510 (base unit, camera and CHAT 150 speakerphone)
Room Pro 520 (base unit, camera and Beamforming Microphone Array)

ROOM PRO 600 SERIES
Room Pro 600 (base unit)
Room Pro 610 (base unit, camera and CHAT 150 speakerphone)
Room Pro 620 (base unit, camera and Beamforming Microphone Array)

ADDITIONAL SOFTWARE LICENSE AND CODEC OPTIONS
910-401-801 Multipoint 4-way License
910-401-802 Multipoint 6-way License
910-401-803 Multipoint 8-way License

RACK MOUNT KIT
910-401-913 Rack Mount Kit for COLLABORATE Room Pro series

Clearone Contacts