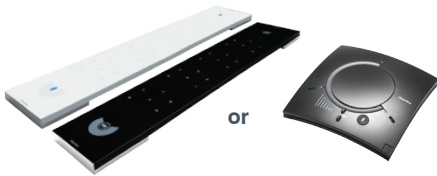


Fulfill every conference room media requirement with the industry's only solution to directly connect ClearOne's Beamforming Microphone Array for unbeatable audio. This fully integrated media appliance delivers best-in-class, full 1080p60 standards-compliant video conferencing, integrated audio conferencing, 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 systems include:

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

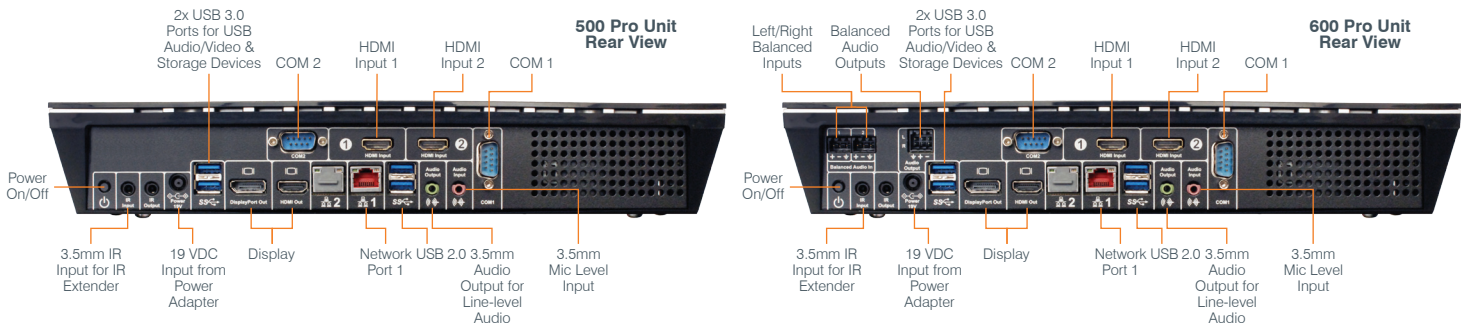
### COLLABORATE Room Pro 600 systems

- > 610 includes tabletop COLLABORATE Microphone Array
- > 620 includes Beamforming Microphone Array and CONVERGE USB adapter

Both systems include:

- + Pro 600 codec with digital audio connectivity (USB)
- + PTZ camera with 12x optical zoom
- + Remote control
- + Balanced audio connectivity

> COMPONENTS/BACK PANEL



## 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, 1X USB

#### 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

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 COLLABORATE  
Microphone Array)  
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 COLLABORATE  
Microphone Array)  
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

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