ClearOne.

COLLABORATE™ | Room *PHD*
Perfect High Definition Room Video Conferencing

With Perfect-HD Video and Best-In-Class Audio, Videoconferencing Never Looked Better!

COLLABORATE Room PHD

Key Features
- Best quality at any bandwidth, using the H.264 High Profile codec technology

- The best videoconferencing system of its kind, with sophisticated audio and video technologies

- Team collaboration software with HD data sharing

- Industry-leading ClearOne audio performance with HDConference® technology

- Full High Definition (HD) video - 1080p outgoing/incoming resolution at 60 FPS for unsurpassed smoothness and life-like motion

- Support for a wide range of audio and video formats

- Built-In recording and streaming

- Interoperability for communication with all standard (SIP/H.323) videoconferencing devices

- Easy data collaboration – PC files can be shared via USB during the VC session

- Advanced data sharing capabilities with no PC required – display presentations or videos, open various file types from USB storage devices

Top Benefits
- Value for money – the best videoconferencing and collaboration of its kind

- Compatible with ClearOne professional audio – CONVERGE Pro, INTERACT Pro, INTERACT AT, CHAT 150 speakerphone

- Never Obsolete – easily upgradable to support future requirements

- Full videoconferencing functionality: recording, streaming, data sharing

COLLABORATE Room PHD is designed for customers that want to be seen at their best while enjoying a professional, broadcast-grade videoconferencing experience.

The Right Mix of Quality and Features
Incorporating innovative technologies developed by pioneers in the worlds of audio and video conferencing, the COLLABORATE Room PHD, like other systems from the COLLABORATE Room series, offers ease of operation and the right mix of quality and features.

- Top-rated echo/noise cancellation for crisp, clean audio every time

- Daisy-chainable HDConference® microphone array for up to 6 microphones, guaranteeing 360-degree coverage to ensure all participants are heard

- Recording – on internal & external HDD for playback and archiving of important meetings

- Streaming – up to 20 people can view a session (great for webinars and remote training)

- Software-based videoconferencing – enabling flexibility, easy upgrades, future-proof scalability, low TCO (total cost of ownership), and openness to the world of unified communications

Unbeatable Return on Investment (ROI)
COLLABORATE Room PHD is a full-featured system at an unbeatable price. With the lowest cost in its class, its high-quality audio and video lets you "be there" without the need to pay for travel. Wherever you are, the multi-purpose design and ease-of-use of the system contribute to workplace efficiency.

PHD-100 System Includes:
- FHD Video Codec Appliance – 1080p 60fps
- Built-in Recording
- Built-in Streaming
- Remote Control

PHD-200 System Includes:
- COLLABORATE Room PHD-100
- COLLABORATE Microphone Array
- 18x PTZ Camera – 1080p 60fps

Specifications

VIDEO CHARACTERISTICS

Video Specifications
Transmission speed (H.323 / SIP):
64Kbps – 6MBps

Video Standards
H.261, H.263, H.263+/++, H.264,
H.264 High Profile
Up to 6Mbps

Live Video Resolution
1080p60 (1920 x 1080 pixels), 720p60
(1280 x 720 pixels), 16:9 VGA (672 x 348
pixels), 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)
Up to 1080p60 RX, (1920 x 1080 pixels)

Video Frame Rate
Up to 60 fps

Video Inputs
DVI-I

Video Outputs
DVI, HDMI

Video Features
Embedded MCU (4 way, 6 way, 9 way),
Video Switch,
Continuous presence, Stream/Record

Cameras
1 x PHD1080p60 PTZ Camera
18x optical zoom

Dual Display
Supported

AUDIO CHARACTERISTICS

Audio Features
Full duplex echo cancellation
Automatic Noise suppression (ANS)
Automatic gain control (AGC)
Voice Activity Detention (VAD)

Audio Inputs
ClearOne Mic Array

Audio Standards
20KHz AAC-LD
14KHz: G.722.1 Annex C
7KHz: G.722, G.722.1
3.4KHz: G.711, G723.1, G.728, G.729. AMR(3G)

DATA CHARACTERISTICS

Data Specifications
Data sharing methods Laptop plug-in (via
COLLABORATE DataPoint VGA-to USB adapter
available as an accessory)
Documents: PPT, PPTX, PPS, m PPSX, DOC, DOCX,
XLS, XLSX Video clips (AVI, MPEG, WMV, etc)
Graphic files (BMP, GIF, TIF etc)
H.239 support, Tandberg DuoVideo support,
Sending & receiving capability
1 live video source + 1 data source

Resolutions Supported
XGA, SVGA, 4CIF, VGA, CIF

NETWORK CHARACTERISTICS

Networking Specifications
ITU-T: H.323 v4.2, Annex Q (FEC)
Dual network support

Standards Supported
H.323, SIP, H.221, H.242. H.230

H.323 QoS Features
DiffServ, IP Precedence,
Firewall Port Sync, Port pinholing
NAT IP address mask, Adaptive Bandwidth Adjustment,
Packet loss recovery (FEC), Packet duplication control
Packet ordering, Jitter correction, Overhead prediction
Lip sync correction, Max packet size adjustment

Dialing Modes
Manual, Speed dial, Personal address book,
Online directory, Multicast chair, Broadcast viewer,
Telnet API for AMX/Cretron

Security & Encryption
Encryption using H.235 (AES)
Supports NetPoint (Firewall Traversal)
Network address translation
Supports restricted access to users via admin

Control
International remote control
Embedded web-based management
Telnet API for AMX/crestron

Directory Services
1000+ local number directory
10,000+ global number directory
H.350 support (MXM Mode)
LDAP online directory support,
OpenLDAP
Microsoft ILS
SiteServer
Active Search and Filter queries

Physical Characteristics

Dimensions
12.75" x 8.25" x 2.75"

Weight
7 lbs.

Environmental Characteristics

Temperature
0°C-40°C

Storage Temperature
20°C-80°C

Humidity
15 - 80% humidity

Universal Power Supply
DC 20V, 40W

Operating Voltage
120V or 230V

Operating Frequency
50 Hz or 60 Hz

Language Support
English, French, German, Italian,
Spanish (Spain and Latin America),
Portuguese (Brazil), Chinese,
Korean and Russian