

**With Best-In-Class Audio and Video Quality,  
Videoconferencing Never Looked Better!**

**COLLABORATE Room HD**

**Key Features**

- Up to 9-way multiparty videoconferencing with continuous presence
- Team collaboration software with HD data sharing
- Industry-leading ClearOne audio performance with HDConference® technology
- High-definition 720p outgoing video resolution
- Full high-definition 1080p incoming video resolution
- 30 frames per second video for smooth motion capture
- 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

functionality • Full videoconferencing : recording, streaming, data sharing

COLLABORATE Room HD delivers high-definition videoconferencing at a price point right for small and medium-sized businesses (SMBs) seeking a plug-and-play system. Easy to set up and operate, it's the perfect room system.

**The Right Mix of Quality and Features**

Incorporating innovative technologies developed by pioneers in the worlds of audio and video conferencing, the COLLABORATE Room HD, 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 HD 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.

**HD-100 System Includes:**

- HD Video Codec Appliance – 720p 30fps
- Built-in Recording
- Built-in Streaming
- Remote Control

**HD-150 System Includes:**

- HD Video Codec Appliance – 720p 30fps
- CHAT 150 Speakerphone
- 18x PTZ Camera – 720p 60fps
- Remote Control

**HD-200 System Includes:**

- COLLABORATE Room HD-100
- COLLABORATE Microphone Array
- 18x PTZ Camera – 1080p 30fps



# 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

720p30 (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 30 fps

### Video Inputs

HD-SDI

### Video Outputs

DVI, HDMI

### Video Features

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

### Cameras

1 x HD720p30 PTZ Camera  
10x 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:  
- USB storage key  
- 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 (COLLABORATE  
Central 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