ClearOne.

COLLABORATE™ | Desktop

Video Conferencing with COLLABORATE Desktop

- High definition video and audio quality videoconferencing

- Supports ISDN networking up to 4 BRI lines

- Multiple viewing modes from mini-mode to full-screen

- Incorporates H.239, HD DualStream for simultaneously sending and receiving video + data streams

- Supports encrypted conferences using the H.235 encryption standard

- ClearOne PacketAssist architecture for advanced Quality of Service (QoS) over IP

- Remote software upgrades from network administrator guarantee uniformity across the organization (with COLLABORATE Central)

- Fully compatible with Windows 8

- Variety of models

- 1080p Full HD incoming - Executive Model

- H.460.18/19 Firewall/NAT traversal support

- Recording \ Streaming \ Multicast

- SIP, H323, H320

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

COLLABORATE Desktop offers high definition audio and video up to 720p and 1080p*, and includes features and functionality that extend far beyond the capabilities of a desktop videoconferencing application **COLLABORATE Desktop** offers multiple media transmitting capabilities for video, audio and data. Among **COLLABORATE Desktop** advanced capabilities is the ability to send and receive video and data streams simultaneously, using DualStream™ technology. Additional streaming capability, using Simulcast™, allows **COLLABORATE Desktop** to chair or participate in corporate broadcasts.

COLLABORATE Desktop is a versatile, key application for any PC or laptop user, in organizations of any size. It is available in different models: Basic, and Executive, to suit varying corporate requirements.

This newly released version also includes recording and streaming capabilities, as well as the ability to connect across firewalls and NAT, compliant with H.460.18/19 firewall/NAT traversal protocols.

* 1080P Incoming only is available in Executive mode.

High Definition Video and Audio

Using the latest H.264video standard**, COLLABORATE Desktop** sends and receives high definition quality video. Users can participate in videoconferences at data rates ranging from 64 Kbps to 4 Mbps, depending on the available bandwidth. The superb high definition image quality provided by 4CIF, 720p, and1080p technology enables the sharpest images in natural color and full motion, even with a simple webcam.

COLLABORATE Desktop's audio features include full duplex echo cancellation, automatic noise suppression and wide-band audio in low bit-rate calls, all combined to deliver crisp audio to the desktop.

Superior Collaboration Environment

COLLABORATE Desktop allows users to share data from their desktop with the remote side. Various forms of sharing are possible such as desktop, file, window and region sharing, utilizing a detachable data window. When deployed in conjunction with COLLABORATE Central, users can invite a 3rd party into their conference, and everyone will be placed automatically into a multipoint conference bridge. Other video telephony features, such as video call transfer and video call forward are also possible when an COLLABORATE Central server is used.

Corporate Ready

Using a COLLABORATE Central Administrator program, the network administrator can remotely upgrade all **COLLABORATE Desktop** endpoints, as well as manage those endpoints on a day-to-day basis. **COLLABORATE Desktop** includes video and audio device discovery as well as an audio tuning wizard, making it easy to install and operate, no matter which cameras and audio the user chooses.

Specifications

Minimum PC Requirements

➢ Pentium IV 3 Ghz PC
  H.264 4CIF and above requires Core 2 Duo or Dual Core 3Ghz or faster CPU, or AMD equal to, or faster than Athlon 64x2 Dual
➢ 512MB 400 MHz RAM
➢ 25 MB available disk space
➢ Windows XP / 7 / 8
➢ Graphic display that supports DirectX 9.0
➢ Two available USB Ports (one for video device and one for a USB protection key if used).

Video Specifications
Transmission Speed H.323: 64 Kbps - 4Mbps SIP: 64 Kbps – 4Mbps
ISDN 64 Kbps - 512 Kbps (4BRI)

SIP protocols
RFC 3261 2396, 2543, 2617, 2822, 2833, 2976, 3264, 3960, 5168, 3262, 3550, 3984, 4961
Secure Authentication: MD5

Video Standards
H.261, H.263, H.263+/++ H.264 - up to 2Mbps outgoing

HD Video Resolution
1080p (1920 x 1080 pixels) incoming
720p (1280 x 720 pixels)

Other Video Resolution
4CIF (704 x 576 pixels)
4SIF (704 x 480 pixels) VGA (640 x 480 pixels)
Interlaced CIF (352 x 576 pixels)
CIF (352 x 288 pixels)
SIF (352 x 240 pixels) QVGA (320 x 240 pixels)
QCIF (176 x 144 pixels)

Video Frame Rate
Up to 15 fps: 64 - 128 Kbps
Up to 20 fps: 192 Kbps
Up to 30 fps: 256 Kbps +

Video Features
Video device discovery Automatic NTSC/PAL detection Unlimited number of video devices supported
HD Simulcast™
Chair or Participant in any Interactive Multicast session
Integrated Broadcast Viewer
Uses bandwidth-efficient IP multicast

Audio Specifications
Full duplex echo cancellation Automatic noise suppression (ANS)
Automatic gain control (AGC)
Audio device discovery
Audio tuning wizard
Unlimited number of audio devices supported
Headset and speaker profiles
Voice Activity Detection (VAD)

Audio Standards
AAC-LD – 20Khz
G.722.1- Annex C – 14Khz
G722,G722.1 – 7Khz,
G.711, G.723.1, G.728,G.729 - 3.4 Khz

Data Specifications
HD DualStream™
File, region, and window sharing - (Detachable data view)
Windows desktop sharing
H.239 support in both live video and multicast
Tandberg DuoVideo support
Sending and receiving capability
1 live video source + 1 data source
Resolutions supported:
XGA, SVGA, 4CIF, VGA, CIF, QVGA

Networking Specifications
Standards Supported
ITU-T: H.323 v5.5
H.281 Annex Q (FECC)
H.460 17,18,19 (FW traversal) ISDN: H.320, H.221, H.242, H.230
Dual network support

H.323 QoS Features
DiffServ
IP Precedence
Firewall port sync
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

H.323 QoS Features
DiffServ
IP Precedence
Firewall port sync
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

Recording/Streaming/Multicasting
WMV format
Low – CIF resolution HIGH – 4CIF resolution
Only in executive version
Multicasting is available in both Basic & Executive.

Viewing Modes
Mini screen Regular screen
Large screen Full screen
Support for 16:9 aspect ratio in wide screen

Dialing Modes
Manual
Speed dial
Personal address book Online directory Multicast chair Broadcast viewer

Security
Encryption using H.235 (AES)

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 Directory and Exchange
Sun iPlanet Netscape Directory Search and filter queries

Language Support
English, French, German, Italian, Spanish, Chinese, Polish, Turkish, Norwegian, Korean, Russian, Indonesian