



# VidyoRoom™ HD-220

Step inside a conference room outfitted with the VidyoRoom HD-220 room system and be prepared to rethink what you know about videoconferencing. No more lost time in making complicated connections or waiting for IT support to start the conference! The VidyoRoom HD-220's intuitive user interface makes starting a conference as easy as pressing a button. Once that button is pressed, you and your conference participants will enjoy the natural, same-room feel and interactivity made possible by crisp, full HD, 60 FPS video with imperceptible latency. Delivered across two large HD screens, you'll be able to choose between active speaker and continuous presence layouts, independently of all other participants, via a click of a button. And just when you've gotten used to the fact that your Vidyo conference looks the same as your HD broadcast experience at home, your eyebrows will raise once more as you realize that all of this is taking place over converged IP networks and the Internet – no QoS required.

Welcome to the way telepresence was meant to be. The VidyoRoom HD-220 is affordable, simple to use, easy to configure and delivers amazing performance thanks to the VidyoRouter™ architecture. Like all VidyoRoom products, the VidyoRoom HD-220 interoperates seamlessly with VidyoDesktop™ clients, and with legacy H.264-based H.323 and SIP endpoints via the VidyoGateway™, making it possible to connect with anyone, anywhere using equipment they already have. And since a VidyoRoom does not consume a VidyoLine™ license for connectivity through the VidyoRouter, telepresence multipoint connectivity has never been more affordable.



VidyoRoom HD-220 raises the bar and changes the economics for room-based telepresence

## VidyoRoom HD-220 Benefits:

- Easy to deploy and use
- Stunning HD quality without noticeable delay
- Works over general purpose IP networks
- Integrates seamlessly with VidyoDesktop and with legacy room systems via VidyoGateway
- Consumes no VidyoLine licenses – economical deployment and connectivity to other users

## Features and Functions:

### Video Performance

- PSTN-like glass to glass multi-point latency (not perceptible in call)
- Built-in network error concealment – optimal performance without QoS

### User Interface

- Intuitive Graphical User Interface – consistent with the VidyoDesktop client - makes operating the VidyoRoom simple and straightforward
- Call initiation and entry into Private Meeting Room achieved with only one click
- IR remote and keyboard/mouse control options
- Multi-tap text entry when using the remote control keypad
- On-screen keyboard for convenient directory searches
- Dial pad for DTMF signaling (to support calls to legacy and voice endpoints)
- XML API for 3rd party control system integration (Crestron, AMX)
- Full and automatic integration with the VidyoPortal™ user's database. No need to maintain a local address book
- Self explanatory presence icons establish status of another user on the system
- Pop-up icon indicates that there is not an available video capture device





You and your conference participants will enjoy the natural, same-room feel and interactivity made possible by crisp, full HD, 60 FPS video with imperceptible latency.

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- Call setup actions are context aware and based upon status of selected contacts
- Web-based configuration settings
- Auto-select or manually select number of participants viewed
- Local preview toggle

## Data Sharing

- Participants can toggle between other users' shared windows (everyone can share concurrently)
- Laptop screen sharing through the optional VGA input device

## Audio Controls

- Speakers volume adjustment and mute/unmute
- Microphone gain adjustment and mute/unmute

## Camera Control

- Video privacy mode
- Local camera pan, tilt, zoom via remote control
- Advanced Far-End-Camera-Control during a conference

## Security & Network

- Media Encryption: Optional 128bit AES
- Optional HTTPS signaling encryption
- Signal Encryption: Optional HTTPS

## Administration & Maintenance

- Web-based administration for remote access and configuration
- Automatic software updates, downloadable from VidyoPortal
- Conference moderation via VidyoPortal



Delivered across two large HD screens, you'll be able to choose between active speaker and continuous presence layouts, independently of all other participants, via a click of a button.

## VidyoRoom HD-220 Specifications:

### APPLICATION SPECIFICATIONS

#### VIDEO STANDARDS

H.264 SVC  
H.264 AVC, H.263+ via the VidyoGateway

#### VIDEO PERFORMANCE

##### Transmit resolution & frame rate at minimum bit rate

HD 1080p @ 30 fps @ 2Mbps min.  
HD 720p @ 60fps @ 1Mbps min.  
HD 720p @ 30 fps @ 768Kbps min.  
540p @ 30 fps @ 512Kbps min.  
360p @ 30 fps @ 512 Kbps min.

##### Receive resolution & frame rate at minimum bit rate

HD 1080p @ 30 fps @ 2Mbps min.  
HD 720p @ 60 fps @ 1Mbps min.

##### Data sharing video resolution

Up to WXGA (fitted to screen resolution)

#### MAXIMUM DATA RATE

4 Mbps

#### AUDIO STANDARDS

SPEEX Wideband 32KHz (16KHz audio)  
G.711 (A-,  $\mu$ -Law), G.722, via VidyoGateway

#### LANGUAGE SUPPORT

English  
French  
German  
Italian  
Japanese  
Korean  
Portuguese  
Simplified Chinese  
Spanish

### DISPLAY

#### Single-screen modes

Participants' video is spread evenly on the screen  
Preferred larger voice-activated speaker  
N+1 layout where N=up to 8 participants + 1 self view)

#### Dual-screen modes

Preferred larger voice-activated speaker on second screen with participants' video spread evenly on first  
Participants' video is spread evenly on both screens  
Data full screen on second screen

#### Aspect ratio

Full-screen, 16:9 aspect ratio



## VidyoRoom HD-220 Specifications:

### PHYSICAL SPECIFICATIONS

#### FORM FACTOR

Stand-alone Chassis,  
(Freestanding or 19" Rack-mountable)

#### DIMENSIONS

Height 14.56" (370mm)  
Width 3.44" (87.4mm)  
Depth 12.59" (320mm)  
Gross Weight 13.0 lbs (5.89kg)

### PHYSICAL INTERFACES

#### Camera In

1 x HDMI

#### Camera Control

1 x RS-232 (through supplied Serial/USB dongle)

#### Video Out

2 x DisplayPort (through supplied DisplayPort  
to DVI converter)

#### Audio In

1 x 3.5mm Stereo Jack, USB

#### Audio Out

1 x 3.5mm Stereo Jack, USB

#### USB-2

6 (2 front, 4 rear)

#### Network

1 x Gigabit Ethernet – Supports  
10BASE-T, 100BASE-TX, and  
1000BASE-T, RJ45 outputs

### CONFIGURATION

#### Camera (Optional)

HD PTZ Camera, HDMI Interface

#### Microphones (Optional)

USB Echo Cancellation Speakerphone  
w/ Noise Suppression

### POWER SUPPLY

Auto-switching 300W AC to DC power  
supply w/ PFC 100 - 240V, 50 - 60Hz,  
4 - 2Amp

### OPERATING ENVIRONMENT

#### Operating Temperature Range

10° to 35° C (50° to 95° F)

#### Non-Operating Temperature

-40° to 70° C (-40° to 158° F)

#### Humidity Range

8% - 90% (non-condensing)

#### Non-Operating Humidity Range

5% - 95% (non-condensing)

### REGULATORY

EMI/EMC: EN55022, EN55024, FCC, VCCI,

Australian/New Zealand, MIC (Korea)

Safety: USA – TUV certified, Canada – TUV certified,

Europe/CE Mark EN 60950/IEC 60950-Compliant

China: CCC Certification

Environmental: RoHS compliant

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