



High Definition Video

LifeSize Room is the High Definition video communications system designed for use in the conference room to the classroom or any room in between.

Experience 10X the quality of existing video conferencing systems resulting in high definition resolution (1280 x 720 pixels) for crystal clear quality. LifeSize Room uses the latest advances in processing power, display technology, high definition audio and camera technology. The result is true-to-life conferencing and better productivity.

(See, hear and truly understand everyone in the room)

From the outset, LifeSize designed video communications with absolute simplicity in mind for users. Connect calls from the integrated speakerphone, use the high definition interface and schedule conferences from Microsoft Outlook™. Rely on video communications for face to face meetings when email and the phone are not enough.

High definition quality. Simplicity. Complete connectivity.
LifeSize Room is how video communications were meant to be. Clearly.

The Advantages are Clear

High Definition Video — Up to 1280 x 720 resolution and better quality at all bandwidths

High Definition Audio — Fully integrated super wide-band speakerphone provides up to 22 kHz audio

Simple to Use — Intuitive interface and integrated directory make adding participants as simple as a phone call

Standards-Based — H.264, H.263 and H.261 for interoperability with multi-vendor systems; H.323 and SIP support

Fully Integrated System — Plug and play system with high definition codec, speakerphone, camera and wireless remote; connect to any display

Complete Connectivity — Connect to IP networks up to 5Mbps and ISDN/PRI and V.35 connectivity in conjunction with LifeSize Networker™

Multimedia and Presentation Sharing — Standards-based Dual-Streaming to collaborate real-time in high definition

Embedded Multipoint — 8-way multipoint built into the system for easy addition of participants for video or audio-only calls

Centralized Management — Integration with LifeSize Control™ management software and uses SNMP

Product Specifications

System Components

LifeSize codec with stand
High definition PTZ camera
LifeSize Phone™ – fully integrated speakerphone
Wireless remote control
Cables

Communications

64Kbps – 5Mbps (above E1 H.323 only)
IP calls: H.323
Integration to LifeSize Networker WAN access device for IP to ISDN H.320 connectivity
1 x RJ-45 Network LAN
1 x RJ-45 for LifeSize Networker
1 x RJ-11 for PSTN

Flexible Display Options

Plasma flat panel displays
CRT monitors - standard resolution and 720p displays, p30
Large screen rear projection TV displays - std resolution and 720p displays
Front projection displays
Rear projector A/V room configurations

High Definition Camera

LifeSize-designed high definition pan/tilt/zoom camera (patent pending)
Resolution: 1280 x 720, 30FPS
Wide-angle zoom lens
10 presets
70 degree field of view
Auto focus
Automatic gain control
Auto white balance
Auto iris and auto back light compensation

Video Specifications

Video Resolution

Widescreen 16:9 Modes

Widescreen FCIF	(480x272 pixels)	128 Kbps
2xWidescreen FCIF	(672x384 pixels)	384 Kbps
DVD Resolution	(848x480 pixels)	512 Kbps
2xDVD Resolution	(1024x576 pixels)	768 Kbps
High Definition	(1280x720 pixels)	1 Mbps

Normal 4:3 Modes

QCIF	(176x144 pixels)	64 Kbps
FCIF	(352x288 pixels)	128 Kbps
4xSIF (D1 NTSC)	(704x480 pixels)	512 Kbps
4xCIF (D1 PAL)	(704x576 pixels)	512 Kbps

Video Standards

H.264, H.263, H.261

Video Formats

16:9 High Definition aspect ratio
4:3 SD aspect ratio
High resolution modes up to 720p encode
NTSC
PAL

Video Inputs (7 Inputs)

2 x High Definition Cameras
2 x S-Video
2 x RCA In
1 x VGA In

Video Outputs (4 Outputs)

2 x VGA/Component/S-Video/Composite
1 RCA Out
1 x S-Video

Fully Integrated, High Definition Audio Conference Phone

LifeSize-designed full featured conference phone doubles as the microphone for video system
16 microphones in a patent-pending Circular Microphone Array™ with beam forming for high directivity
100 Hz up to 22 kHz
Standard SIP, H.323
No subwoofer required, no additional microphone pods required
2X the room coverage
Daisychain up to 2 LifeSize Phones for large conference rooms
Powered by video system

Audio Features

Spatial audio
CD-quality audio
Full duplex for natural conversations
Echo cancellation for echo-free calls
Automatic gain control
Automatic noise reduction
Audio mixer
Audio over ISDN

Audio Standards

G.722, G.722.1, G.723, G.711
MPEG-4 AAC

Audio Inputs (4 Inputs)

1 x RJ-45
2 x RCA line level in
1 x RCA line level input

Audio Outputs (2 Outputs)

1 x Main audio output (L+C+R)
1 x RCA output

User Interface & Features

High definition, context sensitive user interface
Wireless I/R remote
Integrated speaker phone with Add Video button
Localized language support
Customizable front screen
Selectable camera icons & preview

Security & Encryption

AES encryption support
Automatic key generation and exchange
H.234 (encryption key management)
H.235 V3 encryption standard
Flash-based Web management tool
Admin password
SNMP security alerts
Ability to disable IP services, Web, Telnet and FTP

Intelligent Networking Features

Auto H.323 dialing
When used with LifeSize Networker:
H.320 dialing
Auto SPID detect and downspeeding
Auto Number configuration
Auto gatekeeper discovery
Packet loss recovery

Directory and Address Book

Up to 1000 local directory entries
H.350 compliant
Hierarchical address book
Integrates with Microsoft Exchange™ for Microsoft Outlook™ end user scheduling using LifeSize Control management software

Collaboration & Multimedia Sharing

Live dual-stream graphics for multimedia sharing including documents, presentations or PC-screens
1280 x 1024 input
Easy-to-access, direct cable connection to PC
H.239 standards support

Embedded Multipoint Control Unit

8-port multipoint conferencing for video or audio
Seamlessly add participants
Integrated management with LifeSize Control management software
Continuous presence support
Transcoding
Downspeeding
Password protection

LifeSize Control management software including remote software upgrades, scheduling, reporting and automatic call establishment
Out of box setup via web interface and web management tool
SNMP
Call detail reporting
2 DB-9 RS-232 ports configurable as control, pass thru or Sony D30 camera control

Expansion

Dual Card Bus slots

Environmental Data
Operating temperature:
0°C (32°F) to 40°C (104°F)
Operating humidity:
15% to 85%, non-condensing
Storage temperature:
-40°C (-40°F) to 70°C (158°F)
Storage humidity: 10% to 90%

Information contained in this document is preliminary and subject to change without notice. LifeSize is a registered trademark or trademark of LifeSize Communications in the U.S. and other countries. All other trademarks are property of their respective owners.
April 2005



Corporate Headquarters:
901 S. Mopac Expressway
Building 3, Suite 300
Austin, Texas 78746 USA

Phone: +1 512 347 9300
Fax: +1 512 347 9301
Email: info@lifesize.com
www.lifesize.com

EMEA:
LifeSize Communications
United Kingdom
Phone: +44 1256 480 591

APAC:
LifeSize Communications
Hong Kong
Phone: +852 8239 3695