

## LifeSize Multipoint 230 delivers Full HD multiparty calling



## Experience Multipoint Bridging in Full HD

LifeSize® Multipoint 230™ is the next generation high definition video communications bridge.

LifeSize Multipoint 230 utilizes the latest in DSP technology. With a 3U blade system, this superior MCU enables up to 30 sites to participate in True High Definition or up to 15 sites in Full High Definition for natural, immersive multiparty calls at the best price performance on the market today.

### Superior high definition quality

LifeSize Multipoint 230 supports Full HD -- 1080p and True HD -- 720p resolution at 30 frames per second. Crystal clear image quality creates the most lifelike communications experience -- no matter the distance.

### Flexible use and control

LifeSize Multipoint 230's flexible capacity mode expands 1080p30 conferences into 720p30 conferences seamlessly, doubling HD port capacity. With the new Enhanced Definition License Key, the MCU can be further partitioned to offer 120 ports of 352p30 video. Now more departments and work teams can utilize the MCU simultaneously, increasing productivity without additional investment.

A simplified user interface makes calling, managing and navigating through the system easier than ever before -- for end-users and administrators alike.

Superior quality, flexibility and unmatched price performance -- LifeSize Multipoint 230.

## LifeSize Multipoint 230 Key Features

### High Definition MCU

Full 1080p30 and True 720p30 HD Multipoint conferencing

### High Quality Communications

Up to 15 simultaneous High Definition 720p30 conferences per bridge

### Flat Capacity

Encoder per participant delivers HD for upto 30 participants

### Scalable

Up to 120 participants with the Enhanced Definition License Key

### Optimized Quality

22 unique layouts with up to 28 HD participants displayed

### Intuitive Interfaces

On-screen overlays give end-users complete control

### Intelligent Management

Simplified administrator interface for system and conference control.

### Multi-Vendor Support

Supports video devices from LifeSize®, Polycom®, Tandberg®, Radvision®, Aethra® and Sony®

# Product Specifications

## Model

LifeSize Multipoint 230

## Protocols

H.323  
SIP  
H.320<sup>1</sup>  
H.324M<sup>2</sup>

<sup>1</sup> In conjunction with LifeSize Gateway

<sup>2</sup> In conjunction with 3G Gateway

## Video Protocols

H.263  
H.263+  
H.264

## Video Resolution

Full HD 1080p (1920x1080) @ 30fps  
True HD 720p (1280x720) @ 30fps  
480p (848x480) @ 30fps  
352p (624x352) @ 30fps  
CIF (352x288) @ 30fps  
SIF (352x240) @ 30fps

## Video Bandwidth

Up to 12Mbps<sup>3</sup>

<sup>3</sup> 200Mbps maximum bridge bandwidth

## Presentation Video Resolutions

1080p  
720p  
SXGA  
SVGA  
XGA

## Audio Protocols

G.711  
G.722  
G.722.1  
G.729  
G.729 (AB)  
AAC-LC  
AAC-LD  
Polycom® Siren14™/G.722.1 Annex C

DTMF tone detection (in-band, H.245 and RFC2833)

## Scalability

Cascade up to 9 Multipoint 230 bridges in one call (250 max participants)  
No self-see option in Continuous Presence Cascading  
Up to 120 participants in 352p, with the Enhanced Definition License Key

## Advanced Video Processing

30 frames per second regardless of the number of participants  
Automatic aspect ratio adjustments (4:3 or 16:9)  
Maximum conference size of up to 30 participants in 720p30 flat capacity  
Transcoding and rate matching on each port

## Layouts

22 total layouts available  
Unique layout per participant in HD conferences  
HD Continuous presence, displaying up to 28 conference participants on one screen  
DTMF selection of 9 different layout options  
Selectable image size adjustment to match TV display resolution  
Dynamic layout based on the number of participants  
Enhanced lecture mode, CP for "lecturer" and full screen for participants

## On-screen & Audio Informational Overlay

User entry and exit notifications  
Custom participant entry and exit tones  
Number of audio only participants  
Audio only active speaker name  
Encrypted meeting notification  
Recording notification  
Text overlay (e.g. conference participant's names)

## LifeSize Multipoint Extension

Browser delivered, desktop video & audio conference participation client, with built-in, streaming, annotations, presentation layer video (H.239), and optional recording  
Built-in NAT and firewall traversal  
Easy scheduling via Microsoft® Outlook™

# LifeSize® Multipoint 230™



Utilized SVC between desktop and MCU

## Security

H.235 AES encryption  
Password protected web GUI user access with multiple levels: Administrator, Operator and User  
PIN protected conferences  
HTTPS for secured management

## Quality of Service (QoS)

Diffserve  
TOS  
IP Precedence

## Presentation Protocols

H.239 Dual Video

## Video Auto-Attendant (IVR)

IP dialing support  
Leading number support  
Multi-lingual support  
Fully customizable auto-attendant audio prompts

## Conference Control from the Endpoint

H.243 conference control  
DTMF-based conference control  
Far end camera control (FECC) pass-through  
On-Screen user and moderator menu

## Management

Supports up to 29 Service Prefixes  
HTTP – embedded web server providing MCU configuration and conference control

## Power

AC Voltage 90-264 VAC, 50/60 Hz

## Chassis Specifications

3U 19-inch rack-mountable with flanges  
Height: 132.55mm (5.25")  
Width: 448mm (17.6")  
Depth: 400mm (15.75")  
Weight: 17kg (37 lbs) fully loaded chassis with 1 power supply  
Hot-Swap redundant cooling system (2 fan trays, push-pull cooling)  
Hot-Swap Intelligent Shelf Manager blade

## Environmental Data

Operating temperature: 0°C (32°F) to 45°C (113°F)  
Storage temperature: -25°C (-13°F) to 70°C (158°F)  
Relative humidity: 5% to 90%, non-condensing

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	LifeSize Multipoint 230	LifeSize Multipoint 230 with Enhanced Definition License Key
Form Factor	3U	3U
Full HD (1080p30) Continuous Presence (CP) video participants	15	15
True HD (720p30) continuous Presence (CP) video participants	30	30
SD (352p30) continuous Presence (CP) video participants	30	120
Full HD (1080p30) Voice Activated Switching (VAS)	15	60
True HD (720p30) Voice Activated Switching (VAS)	30	120
SD (352p30) Voice Activated Switching (VAS)	30	N/A, use 720p30 @ 120



LifeSize Communications:  
1601 S. Mopac Expressway  
Suite 100  
Austin, Texas 78746 USA

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

EMEA:  
LifeSize Communications  
Toll-Free Europe  
008000 999 09 799

APAC:  
LifeSize Communications  
Hong Kong  
Phone: +852 3189 7061