

The following documents are included:

**Part 1**

Key factors in selecting a videoconferencing solution

**Part 2**

2019 videoconferencing solution comparison test

**Part 3**

Hardware comparison for each manufacturer (individual comparison)

**DEKOM**

# HARDWARE COMPARISON

MANUFACTURER  **lifesize**<sup>™</sup>

It has already been three years since our last test report. In the field of Unified Conferencing, three years is a lifetime. The market is constantly moving on. Technology is developing at an ever-increasing speed, the efficiency of solutions is constantly improving, and the influence of the consumer world adds to the ergonomics of business solutions.

This is the first of a series of documents to help you choose the right video-conference system and/or the most suitable platform.



	Icon 450	Icon 600	Icon 700	Icon 800
Category	Room System	Room System	Room System	Room System
Screens	Single	Single or dual	Single or dual	Dual
Camera	PTZ-Camera 5x	Lifesize Camera 10x	Lifesize 4K Camera 20x	Lifesize Camera 10x
Video Quality	Full HD	Full HD	Full HD	Full HD
Resolution	1080p 30fps	1080p 60fps	up to 3840 x 2160p 30fps	1080p 60fps
Video standards	H.264 high profile, H.264 baseline profile, H.263+, H.263	H.264 high profile, H.264 baseline profile, H.263+, H.263	H.264 high profile, H.264 Constrained Baseline Profile	H.264 high profile, H.264 baseline profile, H.263+, H.263
PC resolutions	Full HD	Full HD	Full HD	Full HD
Bandwidth (max)	2 mbits synchron	2 mbits synchron	2 mbits synchron	2 mbits synchron
Audio Standards	G.711, G.722, G.722.1 and G.722.1C with license from Polycom, MPEG-4 AAC-LC, MPEG-4 AAC-LD, Opus	G.711, G.722, G.722.1 and G.722.1C with license from Polycom, MPEG-4 AAC-LC, MPEG-4 AAC-LD, Opus	Opus, G.722.1 (licensed from Polycom®), G.722, G.711 uLaw and aLaw, Siren 7	G.711, G.722, G.722.1 and G.722.1C with license from Polycom, MPEG-4 AAC-LC, MPEG-4 AAC-LD, Opus
Phone HD	Acoustic echo cancellation, background noise suppression/microphone, VAD (voice activation detection), AGC (automatic gain control/microphone), adaptive jitter buffer and packet loss masking, 46 KHz pro audio sampling rate	Acoustic echo cancellation, background noise reduction/microphone, VAD (voice activation detection), AGC (automatic gain control/microphone) adaptive jitter buffer and packet loss masking, 46 KHz per audio sample rate	Acoustic echo cancellation, background noise reduction/microphone, VAD (voice activation detection), AGC (automatic gain control/microphone) adaptive jitter buffer and packet loss masking, 46 KHz per audio sample rate	Acoustic echo cancellation, background noise reduction/microphone, VAD (voice activation detection), AGC (automatic gain control/microphone) adaptive jitter buffer and packet loss masking, 46 KHz per audio sample rate
Video standards	H.264 high profile, H.264 baseline profile, H.263+, H.263	H.264 high profile, H.264 baseline profile, H.263+, H.263	H.264 high profile, H.264 Constrained Baseline Profile	H.264 high profile, H.264 baseline profile, H.263+, H.263
Video inputs	1x	2x	1x	4x
Video outputs	1x	2x	2x	2x
Audio inputs	2x	4x	3x	7x
Audio outputs	2x	4x	3x	4x
Other supported Standards	H.221, H.224, H.225, H.231, H.239/BFCP, H.241, H.242, H.245, H.281, RFC 3261, RFC 3264, RFC 2190, RFC 3407, RFC 2833	H.221, H.224, H.225, H.231, H.239/BFCP, H.241, H.242, H.245, H.281, RFC 3261, RFC 3264, RFC 2190, RFC 3407, RFC 2833	RFC 3261, RFC 3264, RFC 2833, HDMI CEC	H.221, H.224, H.225, H.231, H.239/BFCP, H.241, H.242, H.245, H.281, RFC 3261, RFC 3264, RFC 2190, RFC 3407, RFC 2833



# USER-FRIENDLY TECHNOLOGY THAT CONNECTS PEOPLE

## Lifesize Icon 700



20 x optical and digital zoom



4K  
Camera

The Icon 700 is designed in a Cloud-First-Design, which means a seamless integration into the Lifesize Cloud Services and exceptionally high user-friendliness. It can be set up very quickly and is very easy for the user to use. The system is operated via the Lifesize Phone HD touchscreen.

The **Lifesize Icon 700** also advertises two different room configurations, which are marked with the functions **Single Display** and **Dual Display**.



With the **Single Display Function**, one display can be connected to the videoconference system.



With the **Dual Display Function**, two displays can be connected to the videoconference system. In addition to connecting two displays, the Dual Display function creates further added value in terms of aesthetics.

For example, one of the screens can show all participants who are currently connected to the videoconferencing system. The other screen can show the contents that are of importance in the respective videoconference meeting. This means that content can be fed directly into the videoconference via a PC. The respective connections between individual sites are made by default using the SIP and H.323 protocols.

The Lifesize Icon 700 is the new flagship product of the Icon series. It comes with lifelike 4K picture quality, Ultra HD content sharing, premium sound and powerful zoom. As a result, the Icon 700 provides you with an unprecedented communication and collaboration experience that makes it easy to connect to a conversation or hold a top-level meeting.

Videoconferencing systems up to now have used 4K cameras; however, they output only full HD (1920 x 1080). The Lifesize Icon 700 is the world's first videoconferencing system with full 4K resolution (3840 x 2160 pixels) in both video and content streams. The result is dramatically sharper and clearer images. Together with the 20x optical + digital zoom and high photosensitivity, the Lifesize Icon 700 achieves the world's best imaging performance to date.

The Opus-Audio ultra-wideband audio codec produces excellent audio quality with very effective noise reduction and voice pick-up.

# DEKOM

## The following customers rely on the videoconferencing solution from Lifesize:

*"Using videoconferencing has simplified our communication channels. Decisions are accelerated, energy costs are lowered and CO<sub>2</sub> emissions are at an environmentally-friendly level. In keeping with our understanding of sustainable resource conservation."*

Ralf Hauser, Head of Project Management for technical communication in marketing, Schüco

*"Our day-to-day work benefits enormously from the advantages of video collaboration – so much so that we are now campaigning for the use of the technology by external partners."*

Rosa Meyerhoff, Online Marketing Team Leader, KIND Hörgeräte GmbH & Co. KG

*"First of all, our expectations were fully met. Secondly, it is now possible to achieve durable and extremely high quality without compromise. This is a key reason why the employees have accepted the systems so quickly."*

Peter Kraus, Head of IT Services, Vogel Business Media

*"Flexible, spontaneous videoconferencing between WWF locations and regular team meetings are held via Lifesize, which saves travel time and expenses."*

Thomas Reinhard Herrmann, Director ICT, WWF Germany

*"The use of videoconferencing systems has simplified our communication channels, saving us a lot of time, nerves and travel expenses."*

Stefan Leppin, Head of Corporate Communications, Warsteiner

More information about the Cloud and its back-end can be found in our upcoming review on "Software and Cloud Environments" – mid 2019.