GENERAL

**Period:** 23 Juny to 4 July 2006; Addition 2006-11-27  
**SW-Version** LS.RM1-2.0.0 (15); Addition LifeSize Room 2.5 HD

TEST

**Addition**

The most essential and noticeable improvements are an extension of the bandwidth and a dynamic adjustment when further participants are logged on. Up to now participants could not be integrated into a multipoint conference over the internal 4-Way HD MCU, if the full capacity of the bandwidth was already occupied by two LifeSize devices. Now this works very well with up to four participants. If the limits of the system are reached there is not necessarily a reduction of the picture frequency with maintenance of the standard video resolutions (sharpness is more important than movements), but a frequency of 30 fps is maintained and the video resolution is reduced step by step, but not according to the usual standards (movements are more important than sharpness).

1 Mbps up to 5 Mbps with 1280x720 pixels in High Definition,  
768 kbps with 1088x608 pixels,  
512 kbps with 848x480 pixels,  
384 kbps with 768x432 pixels,  
128 Kbps with 400x244 pixels in Widescreen FCIF.

A total of 40 different video resolutions for a most precise movement replay with any desired bandwidth are said to be possible. Also with a video compression with H.264 the 30 fps are stable in a very well resolution. Besides the standard priority for movements, sharpness or movement as a priority can be chosen for the video quality of a call and set up in the administrator set-up.
Further improvements of LifeSize Room 2.5 HD are the activation of a second FireWire supply for a second proprietary LifeSize HD camera (Dual Camera support for a better room recording). Furthermore there are up to ten camera pre-sets with automatic focus and an improved resolution in all bandwidths.

There were further improvements in the compatibility with other systems and standards. There is a better support of non-LifeSize MCU (Polycom MGC), of PC presentations with Polycom H.239 (also over H.263), Codian H.264 4CIF support with 704x576 pixels at 30 fps, an improved interoperability with Radvision MCU with SIP-, H.323- and AAC support, as well as further details.

Backwards compatibility to H.261 with other systems can (or better: must) be realised over another MCU like Codian 4200 or 4500.

Many thanks to Dr Jörn Stock of Charité Universitätsmedizin Berlin, for the bandwidths and MCU stress test, with logging on many conference systems and including the Codian MCU.

Thanks to LifeSize for supplying the test.