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Pandoras Box

PANDORAS BOX SERVER R4

HARDWARE PERFORMANCE

The following performance results are to be understood as approximate values.
The upper table refers to systems driving either two 4K or four FullHD displays while the lower spreadsheet refers to eight connected FullHD displays. Please keep in mind that different codecs have different advantages, depending on the exact nature of the content being used.

Values shown as "max" refer to the maximum possible simultaneous playback once videos are loaded to the layers. „Show" values define a "safe" amount of videos which can be used flexibly without interfering already displayed clips during the loading time.

	Connected Displays: 2x 4K or 4x HD									
	PK1		PK2		PK3		PK4		PK5	
	max	show	max	show	max	show	max	show	max	show
Uncompressed (24bit RGB)										
4K@60	0	0	1	1	2	1	2	1	2	1
HD@60	2	2	4	4	8	6	8	6	8	6
Uncompressed (32bit RGBA)										
4K@60	0	0	0	0	2	1	2	1	2	1
HD@60	2	2	4	4	8	6	8	6	8	6
DDS (24bit RGB)										
4K@60	6	4	6	4	8	4	8	4	8	4
HD@60	28	28	28	28	32	28	32	28	32	28
DDSA (32bit RGBA)										
4K@60	2	1	4	2	6	4	6	4	6	4
HD@60	16	14	16	14	20	20	20	20	20	20
YCoCg (24bit RGB)										
HD@60	16	14	16	14	24	20	24	20	24	20
MPEG (24bit RGB)										
80MBit/s 4K@60	2	1	2	1	3	1	3	1	3	1
20MBit/s HD@30	14	14	14	14	14	14	14	14	14	14

When using eight displays, only the "uncompressed" performance is influenced. All other results remain the same.

	Connected Displays: 8x HD in mosaic mode									
	PK1		PK2		PK3		PK4		PK5	
	max	show	max	show	max	show	max	show	max	show
Uncompressed (24bit RGB)										
4K@60					1	1	1	1	1	1
HD@60					6	6	6	6	6	6
Uncompressed (32bit RGBA)										
4K@60					1	1	1	1	1	1
HD@60					6	6	6	6	6	6

Please note:
The DDS codec is comparable to HAP, while DDSA is the equivalent to HAP Alpha and YCoCg uses the same compression as HAP Q. Therefore the same performance levels, as described above, are to be expected when using those codecs.