

# PIXERA MEDIA SERVER PERFORMANCE CHARTS

## PIXERA mini

This overview shows the maximum number of content streams per codec, that can be played back at the same time.

FHD@60fps	Codec	Content Data Rate	
	HAP	477 Mbit/s	15
	HAPQ	984 Mbit/s	6
	NotchLC	1170 Mbit/s	7
	H264	42.4 Mbit/s	4
	H265	19 Mbit/s	4

All videos had a frame rate of 60 fps, four outputs with 1920x1080px @60Hz were used for this test.

UHD@60fps	Codec	Content Data Rate	
	HAP	1871 Mbit/s	6
	HAPQ	3775 Mbit/s	2
	NotchLC	3980 Mbit/s	2
	H264	90.4 Mbit/s	2
	H265	44.4 Mbit/s	1

All videos had a frame rate of 60 fps, one output with 3840x2160px @60Hz were used for this test.

Pixera workspace rendering was disabled.

Please note that the kind of content used may influence the performance of individual video codecs. The test results are approximate values. Performance results will differ when using VIOSO or FRAMEBLENDING.



# PIXERA MEDIA SERVER PERFORMANCE CHARTS

## PIXERA one Gen. 2

This overview shows the maximum number of content streams per codec, that can be played back at the same time.

	Codec	Content Data Rate	X14	X24	
			1 SSD	1 SSD	
FHD@60fps	Videoformats	HAP	477 Mbit/s	18	45
		HAPQ	984 Mbit/s	11	30
		NotchLC	1170 Mbit/s	16	20
		H264	42.4 Mbit/s	4	15
		H265	19 Mbit/s	4	13
	Image Sequences	TIFF 8 Bit	2917 Mbit/s	11	13
		PNG 8 Bit	1392 Mbit/s	1	4
		DPX 10 Bit	3892 Mbit/s	9	10
		DDS 8 Bit	487 Mbit/s	19	30

	Codec	Content Data Rate	X14	X24	
			1 SSD	1 SSD	
UHD@60fps	Videoformats	HAP	1871 Mbit/s	12	16
		HAPQ	3775 Mbit/s	6	7
		NotchLC	3980 Mbit/s	6	7
		H264	90.4 Mbit/s	2	6
		H265	44.4 Mbit/s	1	3
	Image Sequences	TIFF 8 Bit	11664 Mbit/s	3	3
		PNG 8 Bit	4608 Mbit/s	0	1
		DPX 10 Bit	15556 Mbit/s	2	2
		DDS 8 Bit	1945 Mbit/s	15	20

All videos had a frame rate of 60 fps, four framelocked outputs with 3840x2160px @60Hz were used for this test.  
 One UHD GUI-Monitor was used. Pixera workspace rendering was disabled.  
 Please note that the kind of content used may influence the performance of individual video codecs. The test results are approximate values.  
 Performance results will differ when using VIOSO or FRAMEBLENDING.



# PIXERA MEDIA SERVER PERFORMANCE CHARTS

## PIXERA two Gen. 2

This overview shows the maximum number of content streams per codec, that can be played back at the same time.

FHD@60fps	Codec		Content Data Rate	X24		X50		X64	
				1 SSD	2 SSD	1 SSD	2 SSD	1 SSD	2 SSD
	Videoformats	HAP	477 Mbit/s	45	45	45	45	45	45
HAPQ		984 Mbit/s	30	30	30	30	30	30	
NotchLC		1170 Mbit/s	20	25	20	25	20	25	
H264		42.4 Mbit/s	15	15	22	22	22	22	
H265		19 Mbit/s	13	13	13	13	16	16	
Image Sequences	TIFF 8 Bit	2917 Mbit/s	13	20	13	20	13	20	
	PNG 8 Bit	1392 Mbit/s	4	4	8	8	10	10	
	DPX 10 Bit	3892 Mbit/s	10	10	10	10	10	10	
	DDS 8 Bit	487 Mbit/s	30	35	30	35	30	35	

UHD@60fps	Codec		Content Data Rate	X24		X50		X64	
				1 SSD	2 SSD	1 SSD	2 SSD	1 SSD	2 SSD
	Videoformats	HAP	1871 Mbit/s	16	16	16	16	16	16
HAPQ		3775 Mbit/s	7	7	7	7	7	7	
NotchLC		3980 Mbit/s	7	7	7	7	7	7	
H264		90.4 Mbit/s	6	6	10	10	10	10	
H265		44.4 Mbit/s	3	3	5	5	6	6	
Image Sequences	TIFF 8 Bit	11664 Mbit/s	3	6	3	6	3	6	
	PNG 8 Bit	4608 Mbit/s	1	1	2	2	2	2	
	DPX 10 Bit	15556 Mbit/s	2	5	2	5	2	5	
	DDS 8 Bit	1945 Mbit/s	20	20	20	20	20	20	

All videos had a frame rate of 60 fps, four framelocked outputs with 3840x2160px @60Hz were used for this test.  
 One UHD GUI-Monitor was used. Pixera workspace rendering was disabled.  
 Please note that the kind of content used may influence the performance of individual video codecs. The test results are approximate values.  
 Performance results will differ when using VIOSO or FRAMEBLENDING.



# PIXERA MEDIA SERVER PERFORMANCE CHARTS

## PIXERA two Octo Gen. 2

This overview shows the maximum number of content streams per codec, that can be played back at the same time.

			2x Mosaic 7680x4320	
FHD@60fps	Codec		X50	
	Content Data Rate		1 SSD	2 SSD
	Videoformats	HAP	477 Mbit/s	30
HAPQ		984 Mbit/s	18	18
NotchLC		1170 Mbit/s	20	20
H264		42.4 Mbit/s	15	15
H265		19 Mbit/s	12	12
Image Sequences	TIFF 8 Bit	2917 Mbit/s	13	18
	PNG 8 Bit	1392 Mbit/s	9	9
	DPX 10 Bit	3892 Mbit/s	10	10
	DDS 8 Bit	487 Mbit/s	30	35

			X50	
UHD@60fps	Codec		1 SSD	2 SSD
	Content Data Rate			
	Videoformats	HAP	1871 Mbit/s	16
HAPQ		3775 Mbit/s	6	6
NotchLC		3980 Mbit/s	6	6
H264		90.4 Mbit/s	8	8
H265		44.4 Mbit/s	4	4
Image Sequences	TIFF 8 Bit	11664 Mbit/s	3	5
	PNG 8 Bit	4608 Mbit/s	1	1
	DPX 10 Bit	15556 Mbit/s	2	4
	DDS 8 Bit	1945 Mbit/s	20	20

All videos had a frame rate of 60 fps, eight framelocked outputs ( four physical outputs per GPU assigned ) with 3840x2160px @60Hz were used for this test.  
 One UHD GUI-Monitor was used. Pixera workspace rendering was disabled.  
 Please note that the kind of content used may influence the performance of individual video codecs. The test results are approximate values.  
 Performance results will differ when using VIOSO or FRAMEBLENDING.



# PIXERA MEDIA SERVER PERFORMANCE CHARTS

## PIXERA four

This overview shows the maximum number of content streams per codec, that can be played back at the same time.

FHD@60fps	Codec	Content Data Rate	Y68	
			2 SSD	4 SSD
	Videoformats	HAP	477 Mbit/s	51
HAPQ		984 Mbit/s	36	36
NotchLC		1170 Mbit/s	31	31
H264		42.4 Mbit/s	26	26
H265		19 Mbit/s	19	19
Image Sequences	TIFF 8 Bit	2917 Mbit/s	26	36
	PNG 8 Bit	1392 Mbit/s	11	11
	DPX 10 Bit	3892 Mbit/s	13	13
	DDS 8 Bit	487 Mbit/s	45	49

UHD@60fps	Codec	Content Data Rate	Y68	
			2 SSD	4 SSD
	Videoformats	HAP	1871 Mbit/s	16
HAPQ		3775 Mbit/s	7	7
NotchLC		3980 Mbit/s	7	7
H264		90.4 Mbit/s	10	10
H265		44.4 Mbit/s	6	6
Image Sequences	TIFF 8 Bit	11664 Mbit/s	6	7
	PNG 8 Bit	4608 Mbit/s	3	3
	DPX 10 Bit	15556 Mbit/s	5	6
	DDS 8 Bit	1945 Mbit/s	26	32

All videos had a frame rate of 60 fps, four framelocked outputs with 3840x2160px @60Hz were used for this test.  
 One UHD GUI-Monitor was used. Pixera workspace rendering was disabled.  
 Please note that the kind of content used may influence the performance of individual video codecs. The test results are approximate values.  
 Performance results will differ when using VIOSO or FRAMEBLENDING.



# PIXERA MEDIA SERVER CAPTURE CARDS LATENCY

## Input

The following table provides an overview of the latency from capture to output.

Capture Cards	Input	Delay in Frames
PXO-IH2	2x HDMI 2.0	3 frames
PXO-CT1H1	1x 12G-SDI/4x 3G-SDI	2 frames
	1x HDMI 2.0	3 frames
PXO-IS2	2x 3G-SDI	2 frames
PXO-IS4	4x 3G-SDI	3 frames
PXO-CS4	4x 3G-SDI	3 frames
PXO-CS8	8x 3G-SDI	3 frames
PXO-CT4	4x 12G-SDI/8x 3G-SDI	3 frames
PXO-IS1	1x 3G SDI	2 frames

