

Reference Configuration

PC \ Bitrate	Max. number of decoding channels				
	CPU: i7-6700@3.40GHz RAM: 8G Graphics card: Dedicated NVIDIA GeForce RTX 2070 WIN10 Professional 64bit	CPU: i7-6700@3.40GHz RAM: 4G Graphics Card: Integrated, Intel(R) HD Graphics 530 WIN10 Professional 64bit	CPU: i7-6700@3.40GHz RAM: 8G Graphics Card: Integrated, Intel(R) HD Graphics 530 WIN10 Professional, 64bit	CPU: i7-6700@3.40GHz RAM: 8G Graphics Card: Integrated, Intel(R) HD Graphics 530 WIN7 Professional, 64bit	CPU: i7-6700@3.40GHz RAM: 16G Graphics Card: Integrated, Intel(R) HD Graphics 530 WIN10 Professional, 64bit

Standard H.264 (GPU enabled)					
12MP *10Mbps *20fps	8	7	9	9	12
8MP *8Mbps *25fps	11	9	11	11	14
4MP *6Mbps *20fps	23	17	22	20	27
1080P *4Mbps *25fps	36	24	37	34	47
720P *2Mbps *25fps	49	36	64	64	64
D1 *1Mbps *25fps	53	49	64	64	64

Standard H.264					
12MP *10Mbps *20fps	/	2	4	4	7
8MP *8Mbps *25fps	/	2	5	5	9
4MP *6Mbps *20fps	/	6	11	15	14
1080P *4Mbps *25fps	/	9	15	20	24
720P *2Mbps *25fps	/	19	32	36	53
D1 *1Mbps *25fps	/	36	46	51	61

Standard H.265 (GPU enabled)					
12MP *5Mbps *20fps	9	6	9	8	11
8MP *4Mbps *25fps	12	8	11	10	13
4MP *3Mbps *20fps	23	16	17	18	28
1080P *2Mbps *25fps	39	21	34	33	49
720P *1Mbps *25fps	48	42	59	57	64
D1 *512kbps *25fps	51	50	64	64	64

Standard H.265					
12MP *5Mbps *20fps	/	1	3	2	3
8MP *4Mbps *25fps	/	2	3	4	6
4MP *3Mbps *20fps	/	3	7	8	10
1080P *2Mbps *25fps	/	6	12	14	19
720P *1Mbps *25fps	/	15	28	33	42
D1 *512kbps *25fps	/	24	42	45	57

Remarks:

- The above data are for reference only. Enabling GPU significantly improves decoding performance.
- Higher PC configurations brings higher decoding performance. Impact on decoding performance: Graphics Card > RAM > CPU.
- The bit rates and frame rates for the resolutions are defaults. Please be aware, the default frame rate is 20fps for 4MP and 12MP resolutions, and 25fps for other resolutions.
- With the same compression mode and resolution, Operating system hardly affects decoding performance.
- In the same compression mode, enabling or disabling Codec (Basic or Advanced) hardly affects decoding performance; for example, no obvious difference in decoding performance is found between Standard H.264 and H.264+U-Code.
- Currently Station limits the max number of decoding channels to 64.
- Supported NVIDIA models: GeForce GT 1030 to GeForce RTX 2070
- It is meaningless to compare the performance between graphics of different manufacturers because the underlying architectures are different. It only makes sense to compare graphics of the same manufacturer.