

# Reference Configuration (Based on EZStation\_B1130.3.11.0)

PC Bitrate	Max. number of decoding channels				
	CPU: i5-7500@3.40GHz RAM: 8G NVIDIA GeForce GT 1030 WIN10 Professional 64bit	CPU: i7-6700@3.40GHz RAM: 4G Intel(R) HD Graphics 530 WIN10 Professional 64bit	CPU: i7-6700@3.40GHz RAM: 8G Intel(R) HD Graphics 530 WIN10 Professional, 64bit	CPU: i7-6700@3.40GHz RAM: 16G Intel(R) HD Graphics 530 WIN11 Professional, 64bit	CPU: i7-8700@3.20GHz RAM: 16G NVIDIA GeForce RTX 2070 WIN11 Professional, 64bit
<b>Standard H.264 (GPU enabled)</b>					
8MP *8Mbps *20fps	2	8	10	14	10
4MP *6Mbps *25fps	3	15	19	23	19
1080P *4Mbps *25fps	6	23	29	41	33
720P *2Mbps *25fps	12	38	42	64	55
D1 *1Mbps *25fps	24	64	64	64	64
<b>Standard H.264</b>					
8MP *8Mbps *20fps	5	3	4	7	11
4MP *6Mbps *25fps	8	6	8	10	13
1080P *4Mbps *25fps	17	14	18	31	34
720P *2Mbps *25fps	31	28	30	58	55
D1 *1Mbps *25fps	56	54	58	64	64
<b>Standard H.265 (GPU enabled)</b>					
8MP *4Mbps *20fps	2	8	10	15	17
4MP *3Mbps *25fps	3	15	17	25	31
1080P *2Mbps *25fps	6	23	28	45	44

720P *1Mbps *25fps	12	38	44	64	56
D1 *512kbps *25fps	24	60	64	64	64
<b>Standard H.265</b>					
8MP *4Mbps *20fps	3	2	2	5	8
4MP *3Mbps *25fps	6	4	5	8	13
1080P *2Mbps *25fps	12	8	11	23	23
720P *1Mbps *25fps	28	21	25	55	55
D1 *512kbps *25fps	45	40	48	64	64

**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 8MP 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 U-Code (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 EZStation 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.