

Reference Configuration (Based on EZStation_B1130.3.16.5)

PC configuration Parameters		Max. number of decoding channels				
		CPU: i5-7500@3.40GHz RAM: 8G Graphics card: NVIDIA GeForce GT 1030 Chipset: NVIDIA GeForce GT 1030 OS: Windows 10 Pro 64-bit (Chinese) Graphics card memory: 2G	CPU: i7-8700@3.20GHz RAM: 16G Graphics card: NVIDIA GeForce RTX 2070 Chipset: NVIDIA GeForce RTX 2070 OS: Windows 11 Pro 64-bit (Chinese) Graphics card memory: 8G	CPU: i7-6700@3.40GHz RAM: 4G Graphics card: Intel (R) HD Graphics 530 Chipset: Intel (R) HD Graphics Family OS: Windows 10 Pro 64-bit (Chinese) Graphics card memory: /	CPU: i7-6700@3.40GHz RAM: 8G Graphics card: Intel (R) HD Graphics 530 Chipset: Intel (R) HD Graphics Family OS: Windows 10 Pro 64-bit (Chinese) Graphics card memory: /	CPU: i7-6700@3.40GHz RAM: 16G Graphics card: Intel (R) HD Graphics 530 Chipset: Intel (R) HD Graphics Family OS: Windows 11 Pro 64-bit (Chinese) Graphics card memory: /
Standard H.264 (GPU enabled)						
8MP	Bitrate: 8Mbps & Frame rate: 20fps	2	10	8	10	14
4MP	Bitrate: 6Mbps & Frame rate: 25fps	3	19	15	19	23
1080P	Bitrate: 4Mbps & Frame rate: 25fps	6	33	23	29	41
720P	Bitrate: 2Mbps & Frame rate: 25fps	12	55	38	42	64
D1	Bitrate: 1Mbps & Frame rate: 25fps	24	64	64	64	64
Standard H.264						
8MP	Bitrate: 8Mbps & Frame rate: 20fps	5	11	3	4	7
4MP	Bitrate: 6Mbps & Frame rate: 25fps	8	13	6	8	10
1080P	Bitrate: 4Mbps & Frame rate: 25fps	17	34	14	18	31
720P	Bitrate: 2Mbps & Frame rate: 25fps	31	55	28	30	58
D1	Bitrate: 1Mbps & Frame rate: 25fps	56	64	54	58	64
Standard H.265 (GPU enabled)						

8MP	Bitrate: 4Mbps & Frame rate: 20fps	2	17	8	10	15
4MP	Bitrate: 3Mbps & Frame rate: 25fps	3	31	15	17	25
1080P	Bitrate: 2Mbps & Frame rate: 25fps	6	44	23	28	45
720P	Bitrate: 1Mbps & Frame rate: 25fps	12	56	38	44	64
D1	Bitrate: 512kbps & Frame rate: 25fps	24	64	60	64	64

Standard H.265

8MP	Bitrate: 4Mbps & Frame rate: 20fps	3	8	2	2	5
4MP	Bitrate: 3Mbps & Frame rate: 25fps	6	13	4	5	8
1080P	Bitrate: 2Mbps & Frame rate: 25fps	12	23	8	11	23
720P	Bitrate: 1Mbps & Frame rate: 25fps	28	55	21	25	55
D1	Bitrate: 512kbps & Frame rate: 25fps	45	64	40	48	64

PC configuration Parameters	Max. number of decoding channels				
	CPU: i7-12700@2.10GHz RAM: 16G Graphics card: NVIDIA GeForce RTX A1000 Chipset: NVIDIA GeForce RTX A1000 OS: Windows 11 Pro 64-bit (Chinese) Graphics card memory: 8G	CPU: i7-13700@2.10GHz RAM: 32G Graphics card: RTX 4060 8G Chipset: NVIDIA GeForce RTX 4060 OS: Windows 11 Pro 64-bit (Chinese) Graphics card memory: 8G	CPU: i7-14700@2.10GHz RAM: 32G Graphics card: RTX 4060ti 16G Chipset: NVIDIA GeForce RTX 4060 Ti OS: Windows 11 Pro 64-bit (Chinese) Graphics card memory: 16G		

Standard H.264 (GPU enabled)

8MP	Bitrate: 8Mbps & Frame rate: 20fps	13	12	10		
4MP	Bitrate: 6Mbps & Frame rate: 25fps	24	23	21		

1080P	Bitrate: 4Mbps & Frame rate: 25fps	30	40	45		
720P	Bitrate: 2Mbps & Frame rate: 25fps	56	66	80		
D1	Bitrate: 1Mbps & Frame rate: 25fps	80	80	80		

Standard H.264

8MP	Bitrate: 8Mbps & Frame rate: 20fps	6	5	6		
4MP	Bitrate: 6Mbps & Frame rate: 25fps	13	8	12		
1080P	Bitrate: 4Mbps & Frame rate: 25fps	30	43	51		
720P	Bitrate: 2Mbps & Frame rate: 25fps	50	64	70		
D1	Bitrate: 1Mbps & Frame rate: 25fps	64	64	72		

Standard H.265 (GPU enabled)

8MP	Bitrate: 4Mbps & Frame rate: 20fps	15	15	15		
4MP	Bitrate: 3Mbps & Frame rate: 25fps	27	32	33		
1080P	Bitrate: 2Mbps & Frame rate: 25fps	34	45	58		
720P	Bitrate: 1Mbps & Frame rate: 25fps	55	71	80		
D1	Bitrate: 512kbps & Frame rate: 25fps	80	80	80		

Standard H.265

8MP	Bitrate: 4Mbps & Frame rate: 20fps	4	5	6		
4MP	Bitrate: 3Mbps & Frame rate: 25fps	8	10	12		
1080P	Bitrate: 2Mbps & Frame rate: 25fps	25	37	44		
720P	Bitrate: 1Mbps & Frame rate: 25fps	47	64	70		
D1	Bitrate: 512kbps & Frame rate: 25fps	64	64	72		

Note:

- The above data are for reference only.
- Generally, a higher PC configuration results in stronger decoding performance. The main factors affecting decoding capability in a PC configuration include the graphics card, memory, and CPU.
- The bitrates and frame rates corresponding to the resolutions above are all default values. The default frame rate for 8MP is 20 fps, while it is 25 fps for other resolutions.
- With the same compression mode and resolution, the operating system has almost no impact on decoding performance.
- In the same compression mode, enabling U-Code (Basic or Advanced) has almost no impact on decoding performance. For example, there is no significant difference in decoding performance between standard H.264 mode and H.264+U-Code mode.
- The current version of EZStation supports a maximum of 64 live view channels and 16 playback channels.
- EZStation supports NVIDIA graphics cards from the GeForce GT 1030 up to the GeForce RTX 40 series.
- Comparing the performance of graphics cards from different manufacturers is not meaningful. Performance comparisons are only meaningful between cards from the same manufacturer, as their underlying architectures differ.