

Merit LILIN Ent. Co., LTD

NAV H.265 vs H.264 decoding benchmark

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CPU decode	CPU Load	RAM	GPU Load	GPU Memory
H.264 720P	16%-20%	1.66G	18%-19%	120 MB
H.265 720P	7%-16%	1.67G	17%-18%	123 MB
H.264 1080P	16%-23%	1.66G	18%-19%	121 MB
H.265 1080P	10%-16%	1.66G	18%	121 MB
Intel GPU deocde	CPU Load	RAM	GPU Load	GPU Memory
H.264 720P	9%-14%	1.71G	14%	176 MB
H.265 720P	11%17%	1.69G	15%	155 MB
H.264 1080P	9%-14%	1.68G	15%	173 MB
H.265 1080P	13%-16%	1.68G	12%	155 MB

Streaming format FHD
50 FPS
CPU I3-7100 (7 generation)
RAM 8G
NAV 1 channel
WIN 7

CPU decode	CPU	RAM	GPU Load	GPU Memory
H.264 720P	7%-8%	1.4G	18%-19%	104 MB
H.265 720P	9%-10%	1.4G	18%	100 MB
H.264 1080P	8%-9%	1.5G	18%-19%	105 MB
H.265 1080P	11%-12%	1.5G	18%	111 MB
Intel GPU deocde	CPU	RAM	GPU Load	GPU Memory
H.264 720P	6%-7%	1.5G	18%	170 MB
H.265 720P	5%-7%	1.5G	17%-18%	147 MB
H.264 1080P	6%-7%	1.5G	18%	160 MB
H.265 1080P	6%-7%	1.5G	17%-18%	134 MB

Streaming format FHD
50 FPS
CPU I3-8100 (8 generation)
RAM 8G
NAV 1 channel
WIN 10

CPU decode	CPU	RAM	GPU Load	GPU Memory
H.264 720P	10%-16%	1.7G	14%-15%	116 MB
H.265 720P	13%-15%	1.7G	15%	109 MB
H.264 1080P	10%-11%	1.7G	15%	128 MB
H.265 1080P	17%-18%	1.7G	15%	122 MB
Intel GPU deocde	CPU	RAM	GPU Load	GPU Memory
H.264 720P	7%-8%	1.7G	18%	202 MB
H.265 720P	7%-8%	1.7G	17%-18%	163 MB
H.264 1080P	7%-8%	1.7G	18%	208 MB
H.265 1080P	7%-8%	1.7G	17%-18%	175 MB

Streaming format FHD
50 FPS
CPU I3-8100 (8 generation)
RAM 8G
NAV 2 channels
WIN 10

CPU decode	CPU Load	RAM	GPU Load	GPU Memory
H.264 720P	20%-21%	1.7G	15%	115 MB
H.265 720P	17%-18%	1.8G	17%	113 MB
H.264 1080P	21%-23%	1.8G	16%	114 MB
H.265 1080P	39%-41%	1.8G	18%	112 MB
Intel GPU deocde	CPU Load	RAM	GPU Load	GPU Memory
H.264 720P	12%-15%	1.9G	25%	304 MB
H.265 720P	13%-14%	1.9G	24%	222 MB
H.264 1080P	12%-15%	2.0G	24%	318 MB
H.265 1080P	13%-14%	1.9G	24%	223 MB

Streaming format FHD
50 FPS
CPU I3-8100 (8th generation)
RAM 8G
NAV 4 channels
WIN 10

CPU decode	CPU	RAM	GPU Load	GPU Memory
H.264 720P	26%-31%	1.8G	21%-22%	125 MB
H.265 720P	44%-48%	1.9G	20%-21%	100 MB
H.264 1080P	27%-35%	1.8G	20%-22%	106 MB
H.265 1080P	49%-53%	1.9G	21%-23%	90 MB
Intel GPU deocde	CPU	RAM	GPU Load	GPU Memory
H.264 720P	18%-23%	2.2G	30%-33%	507MB
H.265 720P	20%-21%	2.1G	30%-31%	323MB
H.264 1080P	19%-25%	2.2G	30%-35%	508MB
H.265 1080P	21%-23%	2.1G	29%-30%	325MB

Streaming format FHD
30 FPS
CPU I3-8100 (8th generation)
RAM 8G
NAV 8 channels
WIN 10