



# Corvid HEVC

Corvid HEVC is a 8-lane PCIe 2.0 video encoder card providing real time, low latency HEVC encoding at 4K, 1080p HD and lower resolutions. Development partners can use AJA’s powerful SDK to integrate Corvid HEVC directly into their Windows and Linux applications using a flexible API for a variety of use cases.

**\$4995 US MSRP**

To get all the details on Corvid HEVC, please email our Developer Program using the More Information button below.

<https://www.aja.com/products/corvid-hevc>

## Video Formats

- 4K (Quadrant or Sample Interleave)
  - (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30, 48 A/B, 50 A/B, 59.94 A/B
  - (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30, 48 A/B, 50 A/B, 59.94 A/B
- 2K (Cropped to 1920 before encoder)
  - (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 48 A/B, 50 A/B, 59.94 A/B, 60 A/B
  - (2K) 2048 x 1080PsF 23.98, 24, 25, 29.97, 30
- HD
  - (HD) 1080p 23.98, 24, 25, 29.97, 30, 50 A/B, 59.94 A/B, 60 A/B
  - (HD) 1080PsF 23.98, 24, 25, 29.97, 30
  - (HD) 1080i 50, 59.94, 60
  - (HD) 720p 50, 59.94, 60
- SD
  - (SD) 625i 50
  - (SD) 525i 59.94

Note: These formats are recognized by the SDI inputs of Corvid HEVC

## Film Formats

In addition to the Video Formats, these formats are supported for file-based encoding but are not recognized as SDI inputs

- (HD) 720p 24, 25, 29.97
- (SD) 625p 50

- (SD) 525i 60
- (SD) 525p 59.94, 60

## Video Input Digital

- 4x 3G-SDI BNC

## Audio Input Digital

- 16-Channel 24-bit SDI embedded, 48 kHz synchronous

## Compression

- Type
  - HEVC
- HEVC Profile
  - Main/Main 10
- HEVC Tier
  - Main/High
- HEVC Level
  - 1.0/2.0/2.1/3.0/3.1/4.0/4.1/5.0/5.1
- Bitrate 4K Format
  - 3 Mbps - 128 Mbps
- Bit Depth
  - 8 or 10-bit
- Chroma Sampling
  - 4:2:2/4:2:0

## Bit Rate Control

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- CBR/VBR

## Size (w x d x h)

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- 0.88" x 7.5" x 5.0" (22.36 x 190.50 x 127.00 mm)

## Weight

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- 0.9 lb (0.5 kg)

## Power

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- Requires either PCIe bus power via graphics slot or ATX 6-pin from computer power supply

## Environment

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- Safe Operating Temperature: 0 to 40 C (32 to 104 F)
- Safe Storage Temperature (Power OFF): -40 to 70 C (-40 to 158 F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)