

Corvid Ultra™

Corvid Ultra is designed for high bandwidth applications such as 4K workflows where performance is critical. With built-in acceleration capabilities, AJA TruScale arbitrary scaling and dual expansion bays, Corvid Ultra can adapt to the specific needs of any workflow.

$7,995 US MSRP

https://www.aja.com/products/corvid-ultra

Video Formats

- (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30, 48, 50, 59.94, 60
- (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30, 48, 50, 59.94, 60
- (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 50, 60
- (2K) 2048 x 1080PsF 23.98, 24
- (HD) 1080i 25, 29.97, 30
- (HD) 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 720p 50, 50.94, 60
- (SD) 625i 50
- (SD) 525i 59.94

Pixel Formats

- 8-bit:
  - YCbCr 4:2:2
  - RGB
  - RGBA
- 10-bit:
  - YCbCr 4:2:2
  - RGB
  - RGBA
- 12-bit:
  - YCbCr 4:2:2
  - RGB
  - RGBA
  - XYZ
  - XYZA
- 16-bit:
  - RGB

Video Input Digital

- 3G-SDI, SMPTE-259/292/296/424, 8 or 10-bits
- 4K/UltraHD 4:4:4 (4x BNC)
- Dual Link HD 4:4:4 (2x BNC)
- Single Link 4:2:2 or 4:4:4 (1x BNC)
- Canon C500 Raw data

Video Output Digital

- 3G-SDI, SMPTE-259/292/296/424, 8 or 10-bits
- 4K/UltraHD 4:4:4 (4x BNC)
- Dual Link HD 4:4:4 (2x BNC)
- Single Link 4:2:2 or 4:4:4 (1x BNC)
- HDMI v2.0b, 30/36 bits/pixel, RGB or YUV, 2.25Gbps, SD, HD, 1080p 50/60, 4K, 2K stereoscopic (full-size HDMI)

Audio Input Digital

- 16-Channel 24-bit SDI embedded, 48 kHz synchronous
- 16-Channel 24-bit AES/EBU, 48 kHz synchronous (x BNC)

Audio Input Analog

- 16-Channel 24-bit SDI embedded, 48 kHz synchronous
- 16-Channel 24-bit AES/EBU, 48 kHz synchronous (x BNC)

Audio Output Digital

- 16-Channel 24-bit SDI embedded, 48 kHz synchronous
- 16-Channel 24-bit AES/EBU, 48 kHz synchronous (x BNC)

Audio Output Analog

- 2-Channel unbalanced output (2x RCA)

Reference

- Analog Reference Input (BNC)
- Analog Reference Output, loop through (BNC)

Timecode

- LTC timecode input and output (via 1x BNC each)

Machine Control

- RS-422, Sony 9-pin protocol
- 9-pin D-connector pinout is as follows:

1	GND
2	RX-
3	TX+
4	GND
5	No Connection
6	GND
7	RX+
8	TX-
9	GND
Shell	GND

Host Connection

- 8-lane PCIe 2.0
- 3 meter interconnect cable
- 2500+ MB/sec (bidirectional)

Expansion Slots

- Accepts AJA TruScale option card

Processing

- 4 Capture Frame stores
- 4 Playback Frame stores
- 8 Color space converters (high precision)
- 4 1D LUTs (12-bit)
- 4 Debayering widgets

Optional Arbitrary Scaling

- High quality scaling from one resolution and aspect ratio to any other
- Not limited to standard formats
- TruScale hardware option card for real time performance
- Keyframeable control for animated pan and scan

Size (w x d x h)

- 17.25" x 11.625" x 3.375" 2RU (438.15 x 295.28 x 85.73 mm)

Note: compatible with standard 19" racks

Environment

• Safe Operating Temperature: 0 to 40 C (32 to 104 F)
• Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)
• Operating Relative Humidity: 10-90% noncondensing
• Operating Altitude: <3,000 meters (<10,000 feet)