



## Corvid HB-R

Expand your application's reach with HDBaseT and the Corvid HB-R. Using a single Cat 5e/6 cable as input, the Corvid HB-R receives up to 4K/60p video (8-bit 4:2:0) and 8-Channel embedded audio. It also delivers bidirectional VISCA/RS-232 control plus power up to 10W, and Corvid HB-R provides full-time looped HDMI 1.4b output of the signal received via the HDBaseT input. These features also make the Corvid HB-R the perfect desktop and server companion to AJA's RovoCam, the UltraHD HDBaseT camera.

**\$995 US MSRP**

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

### Video Formats

- (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30
- (4K) 4096 x 2160p 50, 59.94, 60 (8-bit 4:2:0)
- (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30
- (UltraHD) 3840 x 2160p 50, 59.94, 60 (8-bit 4:2:0)
- (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30
- (2K) 2048 x 1080p 50, 59.94, 60
- (2K) 2048 x 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1080p 23.98, 24, 25, 29.97, 30
- (HD) 1080p 50, 59.94, 60
- (HD) 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1080i 50, 59.94, 60
- (HD) 720p 50, 59.94, 60
- (SD) 525i 59.94
- (SD) 625i 50

### Video Input Digital

- HDMI v1.4b over HDBaseT
  - Video over HDBaseT
  - 24/30/36-bits/pixel, RGB or YUV
  - 300 MHz pixel clock maximum
  - 3.4 Gb TMDS data rate maximum per lane providing an aggregate 10.2 Gbps total bandwidth
  - UltraHD/2K/HD/SD
  - No support for HDCP encrypted video

### Video Output Digital

- HDMI v1.4b Output

- Active looped output of HDMI received on HDBaseT input
- No EDID interface
- No support for HDCP encrypted video
- Video out electronic copy of video negotiated at CORVID-HB-R HDMI receiver input

### Audio Input Digital

- Audio over HDBaseT
  - 8-Channels embedded audio
  - 2-Channels discrete RovoCam microphone audio

### Audio Output Digital

- 8-Channel HDMI embedded 48 kHz 24-bit

### Power Support

- Power over HDBaseT
  - Support for up to 10W output maximum via IEEE 802.3AF interface

### RS-232

- Serial port over HDBaseT
  - 115200 Baud interface intended for VISCA camera control

### USB

- USB over HDBaseT
  - USB Host intended for camera firmware updates

## Interface

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- 4-lane PCIe 2.0

## Size (w x d x h)

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- Conforms to PCIe Card Electromechanical Specification Rev 1.0A Low Profile Add-in Card
- Without bracket: 6.7" x 2.7" x 0.7" (170.18 x 68.58 x 17.78 mm), bracket is standard full height PCIe card size

## Power

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- 10-20V, 10W typical for card only, 16W typical when powering RovoCam, 18W max

## Environment

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- 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)