RovoRx-HDMI

RovoRx-HDMI is an UltraHD/HD HDBaseT receiver with integrated HDMI video and audio outputs specifically designed to receive RovoCam's output. Receive the RovoCam's video and audio up to 100m away from the camera, and output to HDMI TVs and devices, while also providing power back to the camera. RovoRX-HDMI is also suitable for use with compatible HDBaseT 3rd party devices providing support for uncompressed video, audio, power, and control, all over a single Cat 5e/6 cable, greatly simplifying cabling and systems integration.

https://www.aja.com/products/rovorx-hdmi

Video Formats

- (UltraHD) 3840 x 2160p 25, 29.97
- (HD) 1080p 50, 59.94
- (HD) 1080i 50, 59.94
- (HD) 720p 50, 59.94
- (SD) 625i
- (SD) 525i

Video Input

- HDBaseT (RJ-45)

Video Output

- HDMI 1.4b

*No embedded audio

Video Displays

- HDBaseT Cable Run Performance for 4K/UltraHD/HD

W x H	Frame Rate	Color Sampling	Max. Cable Length Cat 5e/6	Max. Cable Length Cat 6a/7	Max. Bit Depth
1920 x 1080	< 30 fps	4:2:2	100 meters	100 meters	16-bit
	> 30 fps	4:2:2	100 meters	100 meters	12-bit
		4:2:2	70 meters	100 meters	16-bit
2048 x 1080	< 30 fps	4:2:2	100 meters	100 meters	16-bit
	> 30 fps	4:2:2	100 meters	100 meters	12-bit
		4:2:2	70 meters	100 meters	16-bit
3840 x 2160	< 30 fps	4:4:4	70 meters	100 meters	8-bit
	> 30 fps	4:2:0	70 meters	100 meters	8-bit

W x H	Frame Rate	Color Sampling	Max. Cable Length Cat 5e/6	Max. Cable Length Cat 6a/7	Max. Bit Depth
4096 x 2160	< 30 fps	4:4:4	70 meters	100 meters	8-bit
	> 30 fps	4:2:0	70 meters	100 meters	8-bit

VESA Displays

- VESA Display Resolutions and Performance

W x H	Frame Rate	Color Sampling	Max. Cable Length Cat 5e/6	Max. Cable Length Cat 6a/7	Bits Per Pixel
640 x 480	to 85 fps	4:4:4	100 meters	100 meters	24-bits
800 x 600	to 120 fps	4:4:4	100 meters	100 meters	24-bits
1024 x 768	to 120 fps	4:4:4	100 meters	100 meters	24-bits
1152 x 768	-	4:4:4	100 meters	100 meters	24-bits
1280 x 768	to 120 fps	4:4:4	100 meters	100 meters	24-bits
1280 x 800	to 120 fps	4:4:4	100 meters	100 meters	24-bits
1280 x 1024	to 120 fps	4:4:4	100 meters	100 meters	24-bits
1360 x 768	to 120 fps	4:4:4	100 meters	100 meters	24-bits
1366 x 768	to 120 fps	4:4:4	100 meters	100 meters	24-bits
1400 x 1050	to 120 fps	4:4:4	100 meters	100 meters	24-bits
1440 x 900	to 120 fps	4:4:4	100 meters	100 meters	24-bits

W x H	Frame Rate	Color Sampling	Max. Cable Length		Bits Per Pixel
			Cat 5e/6	Cat 6a/7	
1600 x 1200	to 75 fps	4:4:4	100 meters	100 meters	24-bits
	85 to 120 fps	4:2:0	70 meters	100 meters	24-bits
1680 x 1050	to 85 fps	4:4:4	100 meters	100 meters	24-bits
	120 fps	4:4:4	70 meters	100 meters	24-bits
1920 x 1200	to 120 fps	4:4:4	100 meters	100 meters	24-bits
1920 x 1440	to 60 fps	4:4:4	70 meters	100 meters	24-bits
2560 x 1600	60_RB	4:4:4	70 meters	100 meters	24-bits

Audio Output Analog

- 1x RCA connector, 2-channel unbalanced

Note: This feature only works when used in conjunction with RovoCam

RS-232

- 1x 3.5mm TRS Input for RS-232/VISCA Bidirectional signals

User Interface

- AJA RovoControl software (macOS and Windows)
- Third party VISCA software or hardware controllers

USB

- 1x USB for firmware and additional control

Size (w x d x h)

- 4.03" x 5.2" x 0.94" (102.37 x 132.08 x 23.88 mm)

Weight

- 0.7 lbs (0.4 kg)

Power

- RovoRx-HDMI only: 48V @ 125mA = 6W typical, 48V @ 156mA = 7.5W max
- RovoRx-HDMI powering RovoCam: 48V @ 271mA = 13W typical, 48V @ 312mA = 15W max

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)