



RovoRx-SDI

RovoRx-SDI is an UltraHD/HD HDBaseT Receiver with four integrated 6G/3G-SDI outputs and 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 SDI monitors, routers and recorders and HDMI TVs and devices. RovoRx-SDI also offers a DA (Distribution Amplifier) Mode for extensive output options. The HDBaseT connector on RovoRx-HDMI supports camera 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-sdi>

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), Analog Video reference terminating input
- REF IN supports tri-Level and bi-level sync (SDI outputs only)

Video Outputs

- HDMI 1.4b, No EDID negotiation, No embedded audio
- 6G-SDI output on SDI 1-4
- 4x 6G-SDI while in "DA Mode"
 - (UltraHD) 3840 x 2160p 25, 29.97
 - (UltraHD) 4:2:2 or 4:4:4 (4x BNC)
 - (UltraHD) LFR 3.0 GB 2SI (2x BNC)
 - (UltraHD) LFR 1.5 GB 2SI (4x BNC)
- 3G-SDI (Level A or B)
 - (HD) 1920 x 1080p 50, 59.94
- HD-SDI
 - (HD) 1920 x 1080i 50, 59.94
 - (HD) 1280 x 720p 50, 59.94
- SD-SDI
 - (SD) 625i 50
 - (SD) 525i 59.94

Video Displays

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

W x H	Frame Rate	Color Sampling	Max. Cable Length		Max. Bit Depth
			Cat 5e/6	Cat 6a/7	

W x H	Frame Rate	Color Sampling	Max. Cable Length		Max. Bit Depth
			Cat 5e/6	Cat 6a/7	
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
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

Audio Output Digital

- 2-channels (1 pair) of SDI embedded audio supported
- Rates supported: 48 kHz

Note: No Audio on HDMI output

Audio Output Analog

- 2x RCA connectors, 2-Channel unbalanced

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

RS-232



- 1x 3.5mm TRS Input for RS-232 bidirectional signals

USB Config

- 1x USB for configuration with AJA Mini-Config

Size (w x d x h)

- 4.66" x 6.97" x 0.94" (118.37 x 177.04 x 23.88 mm)

Weight

- 0.8 lbs (0.4kg)

Power

- RovoRx-SDI only: 48V @ 303mA = 14.5W typical, 48V @ 335mA = 16W max
- RovoRx-SDI powering RovoCam: 48V @ 450mA = 21.6W typical, 48V @ 480mA = 23W 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)