



HB-R-SDI

The HB-T-SDI and HB-R-SDI offer an easy solution for extending SDI signals up to 100 meters over Cat 5 (or better) cable, utilizing the industry standard HDBaseT protocol. Bi-directional IR and RS-232 for device control is also supported, making these Mini-Converters ideal in a variety of scenarios including: fixed installation AV, digital signage, live events, postproduction/network/studio environments and on-set.

\$595 US MSRP

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

Video Formats

- (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1080p 23.98, 24, 25, 29.97, 50, 59.94, 60
- (HD) 1920 x 1080i 50, 59.94, 60
- (HD) 720p 25, 29.97, 50, 59.94, 60
- (SD) 625i
- (SD) 525i

*PsF formats are converted to progressive outputs over the HDBaseT link

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

Video Input

- HDBaseT (RJ-45)

Video Output

- 3G-SDI

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	
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

Audio Output

- 3G-SDI Embedded Audio
- 8-Channels (4 pairs) of SDI embedded audio supported, select from 16-Channels (8 pairs)

RS-232

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

IR

- 1x 3.5mm TRS Input for IR Input
- 1x 3.5mm TRS Input for IR Output

Size (w x d x h)

- 4.0" x 4.6" x 1.0" (101.6 x 116.84 x 25.4 mm)

Weight



- 0.6 lbs (0.3 kg)

Power

- +5 to 20V DC regulated, 9 watts max., AJA external power supply model DWP-U-R1, 100-240V, 50/60 Hz universal input

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)