



HB-T-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-t-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

NOTE: PsF formats are converted to progressive outputs over the HDBaseT link

Video Input

- 3G-SDI

Video Output

- HDBaseT (RJ-45)
- Cat 5e 70m (230 ft) or Cat 6a 100m (328 ft)
- 4K/UltraHD signals require Cat 6a to achieve 100m cable run (HD signals can run the full 100m on Category 5e Cable)

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 | |

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|-------------|------------|----------------|-------------------|------------|----------------|
| | | | 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 |
| 2048 x 1080 | < 30 fps | 4:2:2 | 70 meters | 100 meters | 16-bit |
| | > 30 fps | 4:2:2 | 100 meters | 100 meters | 12-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 Input

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

Audio Output

- HDBaseT embedded audio

RS-232



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