



KONA 1

Designed for broadcast, post and ProAV, as well as OEM developers, KONA 1 is a robust, cost efficient single-channel 3G-SDI 2K/HD 60p I/O card with serial control and reference/LTC. KONA 1 features standard application plug-ins and supports capture, monitoring and/or playback with software applications from AJA, Adobe®, Avid®, Apple®, Telestream and more as well as AJA SDK support. KONA 1 enables simultaneous monitoring during capture (pass-through) and includes: full size SDI ports supporting 3G-SDI formats, embedded 16-channel SDI audio in/out, Genlock with reference/ LTC input and RS-422.

\$825 US MSRP

<https://www.aja.com/products/kona-1>

Video Formats

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

Video Input Digital

- 3G-SDI, SMPTE 425
 - RGB 4:4:4 12-bit*, YCbCr 4:2:2 10-bit
- 1.5G-SDI, SMPTE 292M
 - Single Link HD-SDI YCbCr 4:2:2 10-bit
- 270 Mbps SDI, SMPTE 259M-C
 - YCbCr 4:2:2 10-bit, 8-bit

*Bit depth support is application dependent. Check with your software manufacturer for compatibility.

Video Output Digital

- 3G-SDI, SMPTE 425
 - RGB 4:4:4 12-bit*, YCbCr 4:2:2 10-bit
- 1.5G-SDI, SMPTE 292M
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HDR

- SDI: VPID signaling for SDR/HDR Transfer Characteristics, Colorimetry and Luminance.

Audio Input Digital

- 16-channel 24-bit SDI embedded, 48 kHz synchronous

Audio Output Digital

- 16-channel 24-bit SDI embedded, 48 kHz synchronous

Reference / LTC Input

- Analog Color Black or HD Tri-level sync
- LTC

Electrical Interface

- 2-lane PCIe 2.0

Machine control

- RS-422, Sony 9-pin protocol
- 9-pin D-connector pinout is as follows:

1	GND
2	RX-
3	TX+
4	GND
5	No Connection
6	GND
7	RX+
8	TX-
9	GND
Shell	GND

Size (w x d x h)

- T = 0.88" x 7.38" x 4.75" (22.36 x 187.46 x 120.65 mm)
- S = 0.75" x 7.25" x 3.125" (19.05 x 184.15 x 79.36 mm)



Weight

- 0.3 lb (0.2 kg)

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)