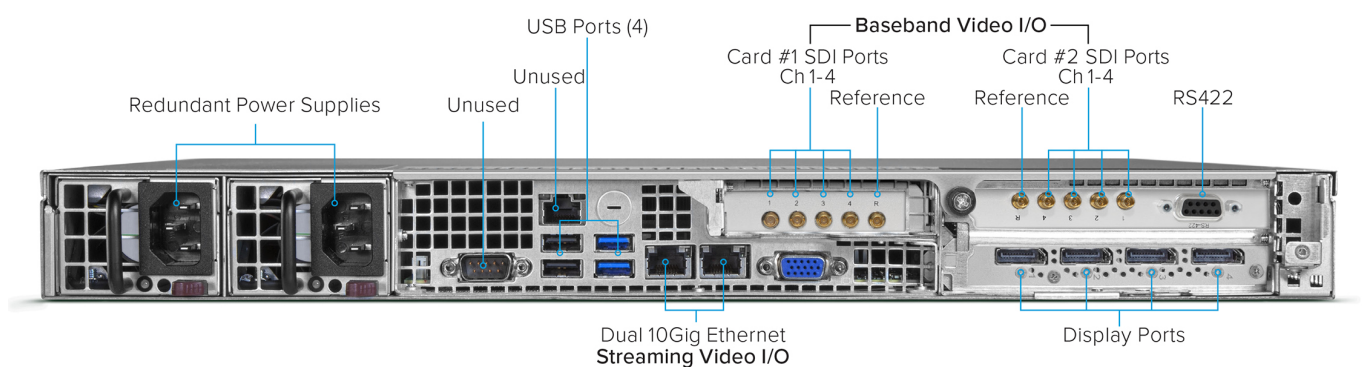![AJA VIDEO SYSTEMS logo]

BRIDGE LIVE

BRIDGE LIVE and BRIDGE LIVE 3G-8 are the broadcast quality, low latency turnkey system for REMI, Synchronous Multi-Channel Video Contribution, Remote Collaboration, Direct to Audience Streaming, and Multi Bit Rate/ Multi Format Delivery.

BRIDGE LIVE and the new BRIDGE LIVE 3G-8 were developed as a collaboration between AJA and Comprimato to deliver the performance, reliability, and ease of use necessary for critical live encode, decode, or transcode needs. Equipped with 12G-SDI I/O or 8x 3G SDI I/O plus the power and flexibility to enable real time bidirectional encoding, decoding, and transcoding for critical UltraHD and HD workflows, BRIDGE LIVE and BRIDGE LIVE 3G-8 are essential parts of any modern live video production toolkit. A compact and robust 1RU form factor with redundant power supplies and a three year warranty means peace of mind even when dealing with the most demanding applications.
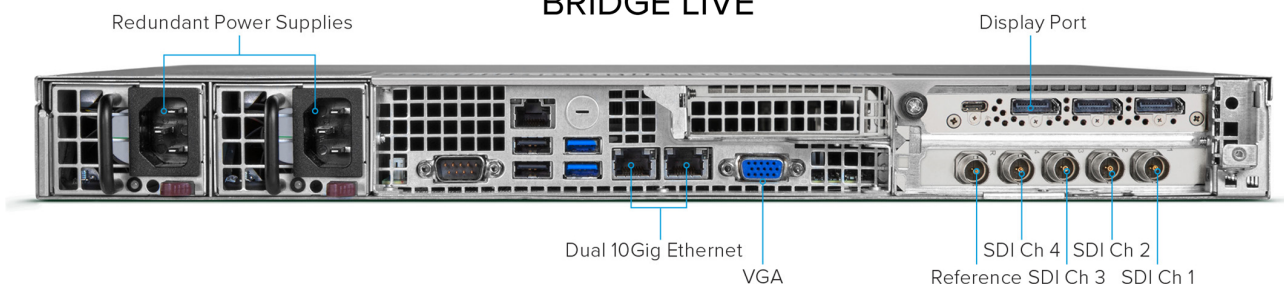
https://www.aja.com/products/bridge-live

**$16,635 BRIDGE LIVE,
$18,999 BRIDGE LIVE
3G-8** US MSRP

BRIDGE LIVE 3G-8

BRIDGE LIVE

BRIDGE LIVE SDI

Video Formats

- (UltraHD) 3840x2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (2K) 2048x1080p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60
- (HD) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1080i 50, 59.94, 60
- (HD) 720p 50, 59.94, 60
- (SD) 625i 50
- (SD) 525i 59.94
- 12G-SDI, SMPTE ST 2082, 10-bit
- 6G-SDI*, SMPTE ST 2081, 10-bit
- 3G-SDI, SMPTE ST 424, 10-bit
- 1.5G-SDI, SMPTE ST 292M, 10-bit
- 270 Mbit/s SDI, SMPTE ST 259M-C, 10-bit

*Only Ultra-UltraHD 2160-line single link is supported, as defined in SMPTE ST 2081-1 and ST 2081-10

BRIDGE LIVE 3G-8 SDI

Video Formats

- (HD) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1080i 50, 59.94, 60
- (HD) 720p 50, 59.94, 60
- (SD) 625i 50
- (SD) 525i 59.94
- 3G-SDI, SMPTE ST 424, 10-bit
- 1.5G-SDI, SMPTE ST 292M, 10-bit
- 270 Mbit/s SDI, SMPTE ST 259M-C, 10-bit

Video Color Component Sampling

- SDI
  - YCbCr, 4:2:2, 10-bit
- Transport Streams
  - YCbCr, 4:2:2, 10-bit/8-bit
  - YCbCr, 4:2:0, 10-bit/8-bit
- NDI
  - P216, 4:2:2, 16-bit
  - UYVY, 4:2:2, 8-bit

Video Codecs

- H.264 (AVC, MPEG-4)
- H.265 (HEVC)
- JPEG 2000 (VSF TR-01)
- MPEG-2
- NDI
- JPEG XS (VSF TR-07)

Audio Streams/Codecs

- AAC-LC (ADTS, LATM)
- AAC-HE (ADTS, LATM)
- AAC-HE v1 & v2 (ADTS, LATM)
- AC3
- E-AC3 (input)
- Dolby E pass-through
- MPEG-2 Audio
- NDI (uncompressed float)
- Uncompressed PCM multi-channel (SMPTE ST 302M-2007)

Metadata

- MPEG-2 ancillary packet support (SMPTE ST 2038)
- HDR over SDI end-to-end via VPID signaling for SDR/HDR Transfer Characteristics, Colorimetry, and Luminance
- Closed Captioning (EIA-608/708)
- Line 21 Captions
- Metadata pass-through
- SCTE-35, SCTE-104
- Subtitles embedded within H.264 SEI messages
- Timecode embedded within HEVC and H.264 SEI messages
- Electronic program guide (EPG) on input

Containers and Protocols

- HLS (input)
  - AVC TS segments
  - Fragmented MP4
- HLS (output)
  - AVC TS segments
- MPEG-TS
- MPTS (input)
- RTMP
- RTMPS (output)
- RTP, UDP
- SRT (including encryption)
- VSF TR-01
- VSF TR-07

Video Processing

- Auto Color Component Sampling based on I/O settings
- Cropping / Padding
- Color adjustments
- Deinterlacing
- Frame rate 50% down-conversion (60p->30p, 59.94->29.97, 50p->25p)
- Frame rate up-conversion (50i->50p)
- Logo insertion
- Resizing

Audio Processing

- Channel Remapping
- Gain
- Sample Rate conversion
- Up/Down-mixing (e.g. 5.1 to stereo and vice versa)

Synchronization

- Input PCR
  - Global configuration (in separate transport stream)
  - Local configuration (in each transport stream)
- Output PTS
  - Pass-through
  - Add offset to input PTS
- NTP
  - Encoder Synchronous Multi-Channel Transport
- PCR
  - Decoder Synchronous Multi-Channel Transport

Audio Input Digital

- 16-channel, 16 and 24-bit SDI embedded audio, 48 kHz sample rate, synchronous per SDI connection

Audio Output Digital

- 16-channel, 16 and 24-bit SDI embedded audio, 48 kHz sample rate, synchronous per SDI connection

Configuration and Monitoring

- Local "Kiosk" interface (keyboard, mouse, and monitor)
- Remote access via Browser
- REST API
- SNMP

BRIDGE LIVE Form Factor

- 1RU turnkey system
- 4x full-size BNC (12G/6G/3G/1.5G-SDI compatible)
- 2x 10 GigE
- Local interface via Display Port and USB
- OS custom image
- Update and license via download

BRIDGE LIVE 3G-8 Form Factor

- 1RU turnkey system
- 8x Din 1.0/2.3 (3G-SDI compatible)
- 2x 10 GigE RJ-45
- Local interface via Display Port and USB
- OS custom image
- Update and license via download

Size (w x d x h)

- 17.2" x 16.9" x 1.7" (436.88 x 429.26 x 43.18 mm)

Weight

- 28 lb. (12.7kg) in box
- 18 lb. (8.2kg) server only

Power

- 100-240 VAC 50/60 Hz (Dual, redundant power supplies)
- 190W typical, 245W Maximum

Environment

- Safe Operating Temperature: 5 to 35 C (41 to 95 F)
- Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)
- Operating Relative Humidity: 8-90% noncondensing
- Nonoperating Relative Humidity: 5-95% noncondensing