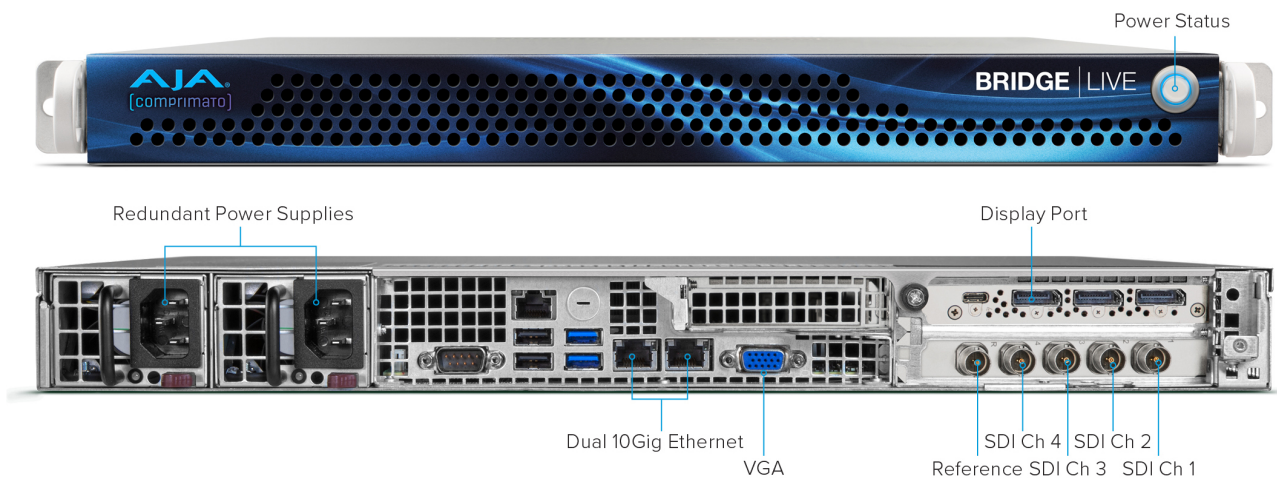




## BRIDGE LIVE

<https://www.aja.com/products/bridge-live>



### 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) 1080i 50, 59.94, 60
- (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
- YCbCr, 4:2:2, 10-bit

### Video Codec Color Component Sampling

- 4:2:2, 10-bit/8-bit
- 4:2:0, 10-bit/8-bit

### Video Codecs

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

### Audio Streams/Codecs

- AAC
- AC3
- MPEG-2 Audio
- Uncompressed PCM (multichannel), SMPTE 302M-2007

### Metadata

- Closed Captioning (EIA-608/708)
- Line 21 Captions
- Metadata pass-through
- MPEG-2 ancillary packet support, SMPTE 2038
- SCTE-35, SCTE-104 (pass-through)
- Subtitles embedded within H.264 SEI messages
- Electronic program guide (EPG) on input

## Containers and Protocols

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- MPEG-TS
- MPTS (input only)
- RTMP/RTMPS
- RTP, UDP
- SRT (including encryption)
- VSF-TR01

## Video Processing

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- 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

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- Channel Remapping
- Gain
- Sample Rate conversion

## Synchronization

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- Input PCR
  - Global configuration (in separate transport stream)
  - Local configuration (in each transport stream)
- Output PTS
  - Pass-through
  - Add offset to input PTS

## Performance

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- Stream startup time maximum 5 seconds after configuration applied
- Latency 200-700ms input to output (based on codec and other parameters)
- Up to 4 simultaneous primary HD streams, plus additional output variations per stream\*
- Up to 1 primary UHD stream, plus additional output variations of that stream\*

\*Final additional stream count per output is dependent on configuration

## Video Input Digital

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- 12G-SDI, SMPTE-2082, 10-bit
- 6G-SDI\*, SMPTE-2081, 10-bit
- 3G-SDI, SMPTE-424, 10-bit
- 1.5G-SDI, SMPTE 292M, 10-bit
- 270 Mbit/s SDI, SMPTE 259M-C, 10-bit

\*UltraHD 30p supported, no other SMPTE-2081 support at this time

## Video Output Digital

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- 12G-SDI, SMPTE-2082, 10-bit

- 6G-SDI\*, SMPTE-2081, 10-bit
- 3G-SDI, SMPTE-424, 10-bit
- 1.5G-SDI, SMPTE 292M, 10-bit
- 270 Mbit/s SDI, SMPTE 259M-C, 10-bit

\*UltraHD 30p supported, no other SMPTE-2081 support at this time

## Audio Input Digital

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

## Audio Output Digital

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

## Configuration and Monitoring

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

## Form Factor

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

## Size (w x d x h)

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

## Weight

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

## Power

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

## Environment

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- 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