

BRIDGE LIVE IP v.1 Hardware and v1.19 Software Release Notes

Software for the Live Encoding, Decoding, Transcoding, and Streaming

Introduction

This is the initial release of the BRIDGE LIVE IP, along with software v1.19. BRIDGE LIVE IP is a high-density multi-channel UHD version of the BRIDGE LIVE family that supports bi-directional ST 2110 workflows up to 4x UHD streams or 16x HD streams, bandwidth dependent. BRIDGE LIVE IP is a ST 2110 gateway for broadcast quality, low-latency Synchronous Multi-Channel Video Contribution, Remote Collaboration, Direct to Audience Streaming, REMI, and Multi-Bit Rate/Multi-Format Delivery via a diverse range of IP video standards.

Features

- Bidirectional multi-channel ST 2110-20 UHD (up to 4x channels) and HD (up to 16x channels)
- ST 2110-30 audio support: up to 64 channels per stream at 48 or 96 kHz
- Bidirectional Encode/Decode/Transcode Codecs: H.265 (HEVC), H.264 (AVC, MPEG-4), H.262 (MPEG-2), NDI^{®*}, JPEG 2000^{*} (TR-01), and JPEG XS^{*} (TR-07)
- Synchronous Multi-Channel / Multi-System Transport Backhaul or Cloud Delivery
- Protocols: SRT, UDP, HLS, RTP, RTMP/S, MPTS (input)
- Transports: MPEG-TS, NDI^{*}, AVC-TS, Fragmented MP4
- NDI Multiple Discovery Server and NDI Groups support
- Multirate/format distribution, ABR Ladder Profiles for OTT hand-off
- Selectable profiles for 8, 10, and 12-bit, 4:2:2 and 4:2:0 depending on the codec
- Unmatched metadata capabilities including ST 2110-40, MPEG-2 ANC, SMPTE 2038, Ad insertion markers (SCTE-35/SCTE-104), CC/Subtitles (EIA-608/708, Line 21), H.264 SEI
- Hitless Redundancy via ST 2022-7 for ST 2110 and MPEG-TS as well as SRT Network Bonding
- Remote WebUI or local GUI for easy administration, control, and operation
- Monitoring, Control, and Automation supported via REST API or SNMP
- Turnkey 1RU rack-mountable, enterprise class form factor
- Dual 10 GigE interface for control and compressed transport
- Dual 10/25GigE SFP cages for in-band NMOS control and ST 2110 transport^{**}
- Dual power supplies for critical application redundancy
- Three-year warranty, with an option to extend hardware warranty to five-years, with active Maintenance License

*NDI, JPEG 2000, and JPEG XS I/O options are available as purchasable licenses.

**SFPs not included

Documentation

For initial System Setup, see the BRIDGE LIVE IP Quick Start Guide that was included in the box with BRIDGE LIVE IP.

- The Quick Start Guide is unique to each BRIDGE LIVE IP system since it contains the unique admin and transcoder passwords necessary to gain access to the system for the first time.

The BRIDGE LIVE IP Manual is available via the AJA website:

- <https://webdev.aja.com/products/bridge-live-ip#support>
 - Under the Manuals heading, the BRIDGE LIVE manual can be selected for viewing and/or download.

The BRIDGE LIVE IP Tech Specs are available via the AJA website:

- <https://webdev.aja.com/products/bridge-live-ip#techspecs>

Downloading and Applying Software Updates from AJA.com

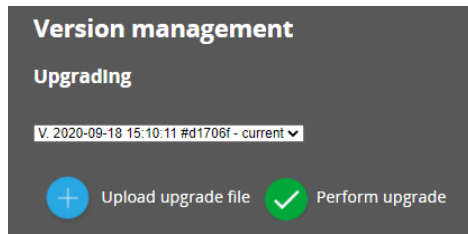
Download the Latest BRIDGE LIVE IP Update

- Using a separate host-system, connected to BRIDGE LIVE IP, use a web-browser to reach:
 - <https://webdev.aja.com/products/bridge-live-ip#support>
- Under the Software heading, the BRIDGE LIVE IP package can be selected for download.
- Download the package to the separate host-system, connected to BRIDGE LIVE IP.

Unpack BRIDGE LIVE IP Update

- The update provided by customer support is a “ZIP” file which can be opened with OS tools or third-party applications.
- Extract the contents of the ZIP file (unzip). This will present a folder containing the BRIDGE LIVE IP Product Manual, Release Notes, and appropriate Software update/upgrade.

Follow this procedure to update your BRIDGE LIVE IP



1. **WARNING:** Before performing an upgrade, be sure to backup your Pipeline configurations.
 - See "Creating and Loading Preset Configurations for Streams" in the BRIDGE LIVE IP Manual for details.
2. Using the BRIDGE LIVE IP GUI proceed to Setup > Version Management.
3. Choose "Upload upgrade file". Navigate to the unzipped Software update and select.
4. Choose "Perform upgrade".
5. Confirm the pop-up window stating that the BRIDGE LIVE IP unit will have to reboot after the update process is done.
6. Following reboot or restart, a login will be required.

NOTE: While updating software, do not remove power.

Technical Support

To contact AJA Technical Support:

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