K-FRAME CS X

Cloud-based Live Video Production with a Familiar Professional Workflow

Grass Valley® continues to fulfill its commitment to provide any panel for any engine across its series of video production centers. Kayenne®, Karrera®, GV Korona®, and KSP control surfaces connect with K-Frame CS X to provide a simple transition to cloud-based video production. Any panel from the series operates in the same way regardless of the production environment. TDs can get right to work — even transferring show files between K-Frame CS X and K-Frame™ engines.

For many TDs, operating a production switcher is done by muscle memory, knowing a panel so well that it is an automatic extension of the hands while the conscious attention focuses on the incoming video sources and cues to switch a show. The K-Frame CS X Production Switcher allows TDs to immediately transfer that intuitive knowledge to cloud-based video production. Button presses and transitions respond without delay, providing the precise control TDs have come to expect from Grass Valley production switchers.

With three M/Es and six keyers with 2D DPM per M/E, operators have the creative resources required for professional video production. Stills and animations with fill/key including transparency also provide a polished production look. Those looks are easy to create and store with hundreds of E-MEMs and macros available for recall at the touch of a button with the familiar Grass Valley feel.

Key Features

- Scalable to as many instances as required without upfront buildout
- Flexible, elastic I/O with access to any source on the AMPP® fabric

- Cloud hosted workflows without sacrifice on responsiveness and accuracy
- Operator experience remains the same regardless of distance from the processing

- Frame-accurate for live production
- Fully compatible with connected control surfaces and applications
- Intuitive software solutions

AMPP-connected K-Frame panels
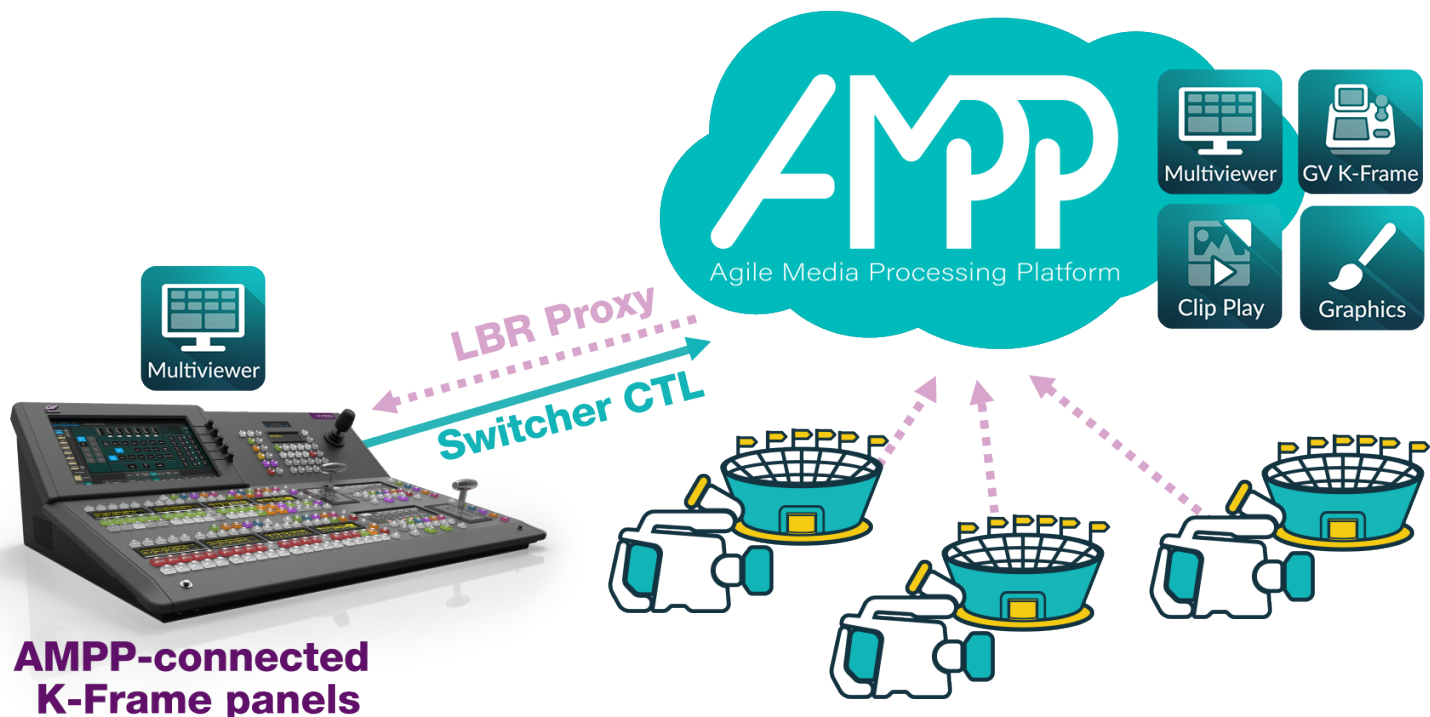
Security

As a cloud native, AMPP is designed from the ground up with security in mind. Conforming to the best IT practices of a representational state transfer (REST) architecture:

- All REST operations are executed over HTTPS for secure communication.
- All REST operations rely on JSON Web Tokens (JWT) for authorization.

IP streaming in AMPP is encrypted when applicable (SRT (AES), RIST (AES), RTMPS (TLS/SSL), WebRTC (DTLS/SRTP), AMPP Streaming (DTLS/SRTP)).

To ensure strict security standards are maintained, Grass Valley also regularly conducts third-party penetration testing.
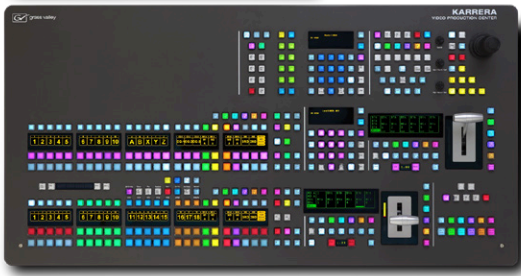
Initial Configuration

I/O channels	Compute instance dependent. Consult your Grass Valley representative
Format support	720p, 1080i, and 1080p
Number of M/Es	3
Keyers	Up to 18 (6 per M/E)
Key and fill	Linear/Luminance/Chroma
Wipes	Horizontal and Vertical
Animation playback with transparency	Yes
Still PNG/JPG support	Yes
ImageStore	10 channels
2D DPM (with border, edge/corner pinning)	Yes
eMEMs	1,000
Macros	999
Share show files between production engines	Yes
Source definition, labeling and mapping	Yes

Required Apps

Input

GV K-Frame

Output

Optional Apps

LIVE
Flow Monitor

Multiviewer

See Grass Valley website for detailed app information.