



---

## Trinity Fellowship A Christmas Crisis: How a multisite church replaced — and enhanced — its broadcasts just in time for the holidays with Kayenne K-Frame

---



### **CUSTOMER**

Trinity Fellowship, US  
[www.tfc.org](http://www.tfc.org)

### **CHALLENGE**

Days before Thanksgiving 2015, a lightning strike forced Trinity Fellowship to replace a key production switcher that failed due to a loss of cooling and extreme overheating. Trinity Fellowship, a church with over 13,000 members, relies on its broadcast center for content shown on seven campuses.

### **SOLUTION**

Grass Valley collaborated with the church's equipment dealer, organizing a complete proposal with revisions in less than 24 hours. The church then issued a purchase order for a 4.5 M/E Kayenne K-Frame Video Production Center switcher in less than a week, and during the service on Dec. 4, 2015 — only 11 days later — the switcher debuted.

### **BENEFITS**

The Kayenne K-Frame immediately improved E-MEM timeline automation and offered many other workflow and visual production technique enhancements.



“Our switcher had a catastrophic failure as a result of a lightning strike. Grass Valley and systems integrator Lubbock Audio Visual, Inc., were able to put together a complete proposal in less than 24 hours. We issued a purchase order on Tuesday November 24th and the switcher was on our dock by 9:30 am the following Monday morning, despite the Thanksgiving holiday.”

Michael Wells, Executive Director of Operations, Trinity Fellowship

## Background

Trinity Fellowship in Amarillo, Texas operates a fully staffed professional production department and a 10-camera HD broadcast center. For the church’s main location — a 3,800-seat worship center built in-the-round — quality video production for image magnification is crucial.

The broadcast center is also responsible for producing a number of other programs:

- Weekend sermon content for seven campuses throughout the Texas Panhandle and North Texas

- Additional video services at the primary location, such as creating a broadcast-quality IMAG experience for congregants attending services there
- All sermon content from the pastor
- Live studio tapings of a television program about marriage, where the head elder and his wife coach couples, gets broadcast via the Internet to more than 100 million households in North America and more than 200 countries

## Challenges

The original switcher was critically overheated as a result of a lightning strike that caused a failure of the plant’s cooling system months earlier, and the broadcast center’s switcher completely failed as Thanksgiving 2015 drew near. With the holidays approaching, the church needed to

find a way to restore its broadcast center quickly. That would mean deciding what to purchase, installing the equipment and training the new staff — all in a matter of days.

## Solution

The church’s executive director of operations first worked with Grass Valley, a Belden Brand, more than 20 years ago while attending college. At the time, he used a GVG 110 switcher. This experience continued as Trinity Fellowship utilized a Grass Valley XtenDD-HD 4 M/E switcher for many years in its broadcast center. With the crisis looming, he once again turned to Grass Valley.

He chose Grass Valley’s Kayenne K-Frame Video Production Center switcher (4.5 M/E) because it’s the leading large-format broadcast switcher. By choosing the nation’s most popular switcher line, he knew he could easily receive future support and parts for such an important asset.

Other considerations:

- The existing 4 M/E switcher needed to be replaced
- The church wanted the capability of enhanced DVE performance, as well as additional keys, auxes, and input and output scalability
- The need for a multicontrol panel configuration for separate broadcast and IMAG TDs



“The new switcher was surprisingly easy to learn. Immediately following commissioning, we had a brief overview of the overall switcher operations and this carried us through for six fairly complicated operation weeks.”

Michael Wells, Executive Director of Operations, Trinity Fellowship

## Benefits

Working with equipment dealer Lubbock Audio Visual, Grass Valley shipped the Kayenne K-Frame to arrive the Monday after Thanksgiving — only five days after the purchase order was issued. It came with several upgrades from the old switcher, and during their first church service the team used 80 percent of the upgrades. That included additional 2D key transform options to overlay four different configurations of its IMAG feed onto a graphic background utilized for environmental projection of a Christmas production.

The church also utilized aux transitions, developed new custom transitions with the RAMRecorder key and fills capabilities, created fairly complex E-MEMs to simplify specific service cues and integrated the ClipStore to simplify and, to some degree, automate the playback of content during the service. The broadcast center easily integrated Kayenne with other equipment in the switcher configuration, including a Grass Valley Encore/Trinix router and Kaleido-X multiviewer — simplifying the number of steps required to reconfigure the broadcast infrastructure.

Kayenne was easy to install, easy to use with other production equipment and easy to learn. Grass Valley immediately conducted a brief overview of switcher operations, enough for the team to handle the holidays without formal, on-site training. When formal training occurred, the trainer’s extensive broadcast experience helped tailor the teachings for each member of the church’s staff and their volunteers.

Today, Kayenne helps with weekend services, concerts and studio tapings, providing a range of ways to enhance, automate and operationally simplify production. The 2D and 3D iDPM options, ClipStore, and RAMRecorder help the church consistently produce visually pleasing presentations, including subtle special effects while switching worship music sets. That includes film-look frame rate adjustments, color correction, lighting and keying effects, as well as graphics-enhanced transitions — all easily recallable or assignable to front panel buttons.

The Kayenne ClipStore can timeslip incoming content for delayed playback, and it allows for complex turn-arounds using playlist re-ordering and editing of recorded content. Combined with basic playlist transitions, this allows the church to easily feed dual H.264 encoder channels for distribution to campuses.

But the biggest surprise: the sophistication of the E-MEM timeline automation. The church’s old switcher had some of those capabilities, but all the pieces weren’t integrated tightly, so it was of little use. Another surprise advantage: the flexibility in configuring panel layouts, and the scalability of the frame size, which provides options for future expansion, ensuring quality on all campuses for the fast-growing church.

Michael Wells, Trinity Fellowship’s executive director of operations is pleased with the Kayenne. More importantly, however, he’s grateful for Grass Valley’s help during a crisis.

GVB-1-0570B-EN-CS



[WWW.GRASSVALLEY.COM](http://WWW.GRASSVALLEY.COM)

Join the Conversation at [GrassValleyLive](#) on Facebook, Twitter, YouTube and [Grass Valley - A Belden Brand](#) on LinkedIn.



[www.grassvalley.com/blog](http://www.grassvalley.com/blog)

This product may be protected by one or more patents. For further information, please visit: [www.grassvalley.com/patents](http://www.grassvalley.com/patents).

Belden®, Belden Sending All The Right Signals®, the Belden logo, Grass Valley® and the Grass Valley logo are trademarks or registered trademarks of Belden Inc. or its affiliated companies in the United States and other jurisdictions. Grass Valley products listed above are trademarks or registered trademarks of Belden Inc., GVBB Holdings S.A.R.L. or Grass Valley Canada. Belden Inc., GVBB Holdings S.A.R.L., Grass Valley Canada and other parties may also have trademark rights in other terms used herein.

Copyright © 2016, 2019 Grass Valley Canada. All rights reserved. Specifications subject to change without notice.