

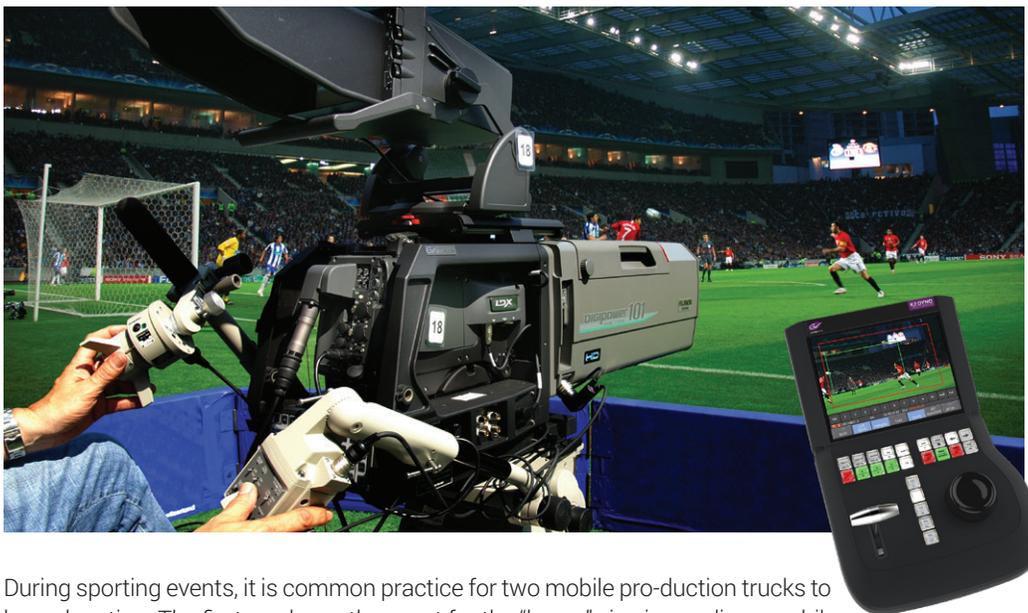
# PRODUCT SPOTLIGHT

August 2015

## LDX 86 XtremeSpeed & K2 Dyno Replay Systems

### Sharing LDX 86 XtremeSpeed cameras between two mobile production trucks for replay creation with independent K2 Dyno Replay Systems

By using a solid-state drive (SSD) server in the main truck, a hard disk drive (HDD) server in the second truck and a 1 GigE network between trucks, it is possible to share the recorded high-speed output of two LDX 86 XtremeSpeed 6X super slow-motion (SSM) cameras between **BOTH** mobile production trucks so that slowmotion operators in each truck can create and share their own SSM replays and playlists.



During sporting events, it is common practice for two mobile production trucks to be on location. The first produces the event for the “home” viewing audience, while the second produces the game for the “away” viewing audience. Typically, the equipment in each of the two production trucks is not the same, with the desire for one truck to share the resources of the other truck.

Grass Valley, a Belden Brand, field tested the ability to share the main truck’s recorded 6X SSM output of two LDX 86 XtremeSpeed cameras with a second production truck at a live major league sporting event in the US. The goal of this test was to allow the K2 Dyno Replay System operators in both trucks to create individualized replays for each of their respective viewing audiences (“Home” and “Away”), as well as share playlists, if desired.

It should be noted that the truck equipped with the two LDX 86 XtremeSpeed cameras (Home) has full directorial control over those cameras and is equipped with a server using fast SSDs for recording. It is only the recorded output of those cameras on the SSD server that is shared with the second truck’s (Away) less expensive HDD server and its K2 Dyno Replay System.

A 1 GigE network is used to connect the Home and Away trucks. The Home truck has control of the LDX 86 XtremeSpeed 6X SSM cameras and the SSD server recording the cameras’ SSM output. The Away truck utilizes ShareFlex to gain constant access to the Home truck’s SSM server — transferring the required footage to its own HDD server — and produces its own SSM replays.

### About ShareFlex

ShareFlex allows a K2 Dyno S Replay Controller to share content across multiple standalone K2 Summit systems. The K2 Dyno S Replay Controller accesses the content directly over Gigabit Ethernet, with no need to transfer content between the K2 Summit systems. This allows a K2 Dyno S Replay Controller that is controlling a local K2 Summit system to cue remote clips, playlists and record trains of a different K2 Summit system, without using remote channels.

You can share highlight clips instantly between K2 Summit systems. From a local K2 Dyno Replay System with a K2 Dyno S Replay Controller, you can access a different K2 Summit system to view recorded content, make a clip from a record channel, load and play back a clip, retrieve content from the library and place a clip in a local playlist.

**Key features of ShareFlex are as follows:**

- Sharing highlight clips between systems
- Viewing recorded content locally on a different K2 Summit system
- Making a clip from a different K2 Summit system’s record channel
- Loading and playing back a clip from a different K2 Summit system
- Retrieving content from the library of a different K2 Summit system
- Placing a clip in a local playlist from different K2 Summit system

For more information on ShareFlex, see the application note: *Enabling and Using ShareFlex Between Network Connected K2 Summit 3G Servers with K2 Dyno Replay Controllers.*

## Process

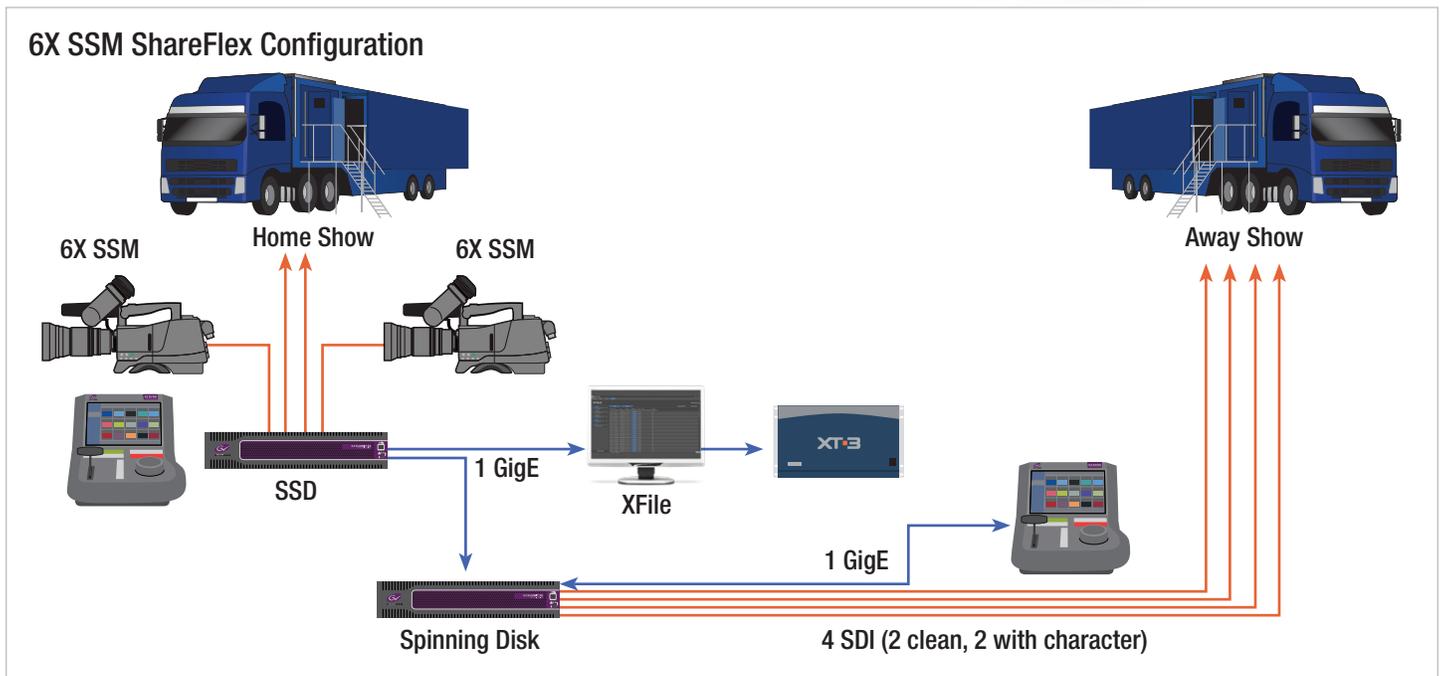
The Home show K2 Summit 3G Production Client has solid-state drives (SSDs) for recording the 6X SSM signals from the cameras, while the Away show K2 Summit 3G Production Client is spinning hard disk drives (HDDs) with mezzanine boards. Both of the K2 Summit 3G Production Clients reside in the Home show truck with one net-work cable (for K2 Dyno control) and four SDI cables spanning the two trucks.

The SDIs are two “clean” for router/switcher path, with the other two “dirty” for operator monitoring.

In this test, the Home show K2 Summit 3G Production Client was also pushing clips to an EVS XT3 system via XFile, and both of the ShareFlex streams were being utilized in real time the entire time with no hang-ups.

## Benefit

This ability to easily and inexpensively share 6X SSM recorded content addresses the need for both shows to have their own replay control over the content captured, even if one show is 1080i and the other show is 720p. This also allows for the Away show operator to create clips from the record train of the Home show K2 Summit 3G Production Client, as well as the sharing of playlists between trucks and replay operators.



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