



KAYENNE/KARRERA/ GV KORONA

K-FRAME

Version 16.1

Release Notes

13-06166-010-AB

2022-1-14

Patent Information

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For further information, please visit: www.grassvalley.com/patents/

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Title	Kayenne/Karrera/GV Korona Release Notes
Part Number	13-06166-010-AB
Revision	2022-1-14

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K-Frame Version 16.1 Release Notes

About this Manual

This document describes the new features and other information specific to the K-Frame Video Production Center, Version 16.1 switcher software for the Kayenne, Karrera, and GV Korona systems.

IMPORTANT: V16.1.0 is only supported by the GV K-Frame XP Standard Video ProductionCenter.

For More Information

For information about installing, configuring, and operating K-Frame systems, see the K-Frame Video Production Center Documentation Libraries found on the Grass Valley website at grassvalley.com and on the USB thumb drive provided with your system.

New in this Release

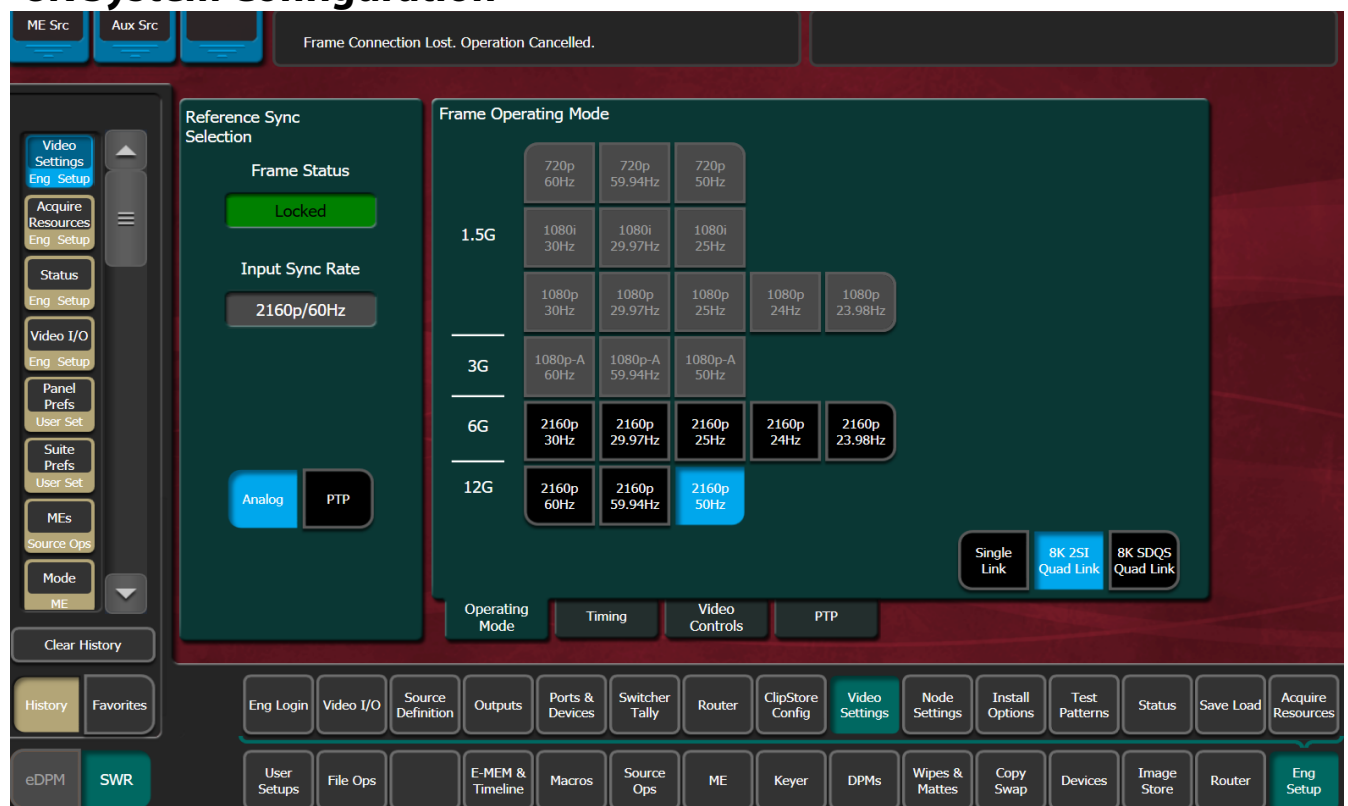
- 8K Quad Stream video support using either 2SI (2 Sample Interleave) or SDQS (Square Division Quad Split)

8K 2SI and SDQS Quad Stream

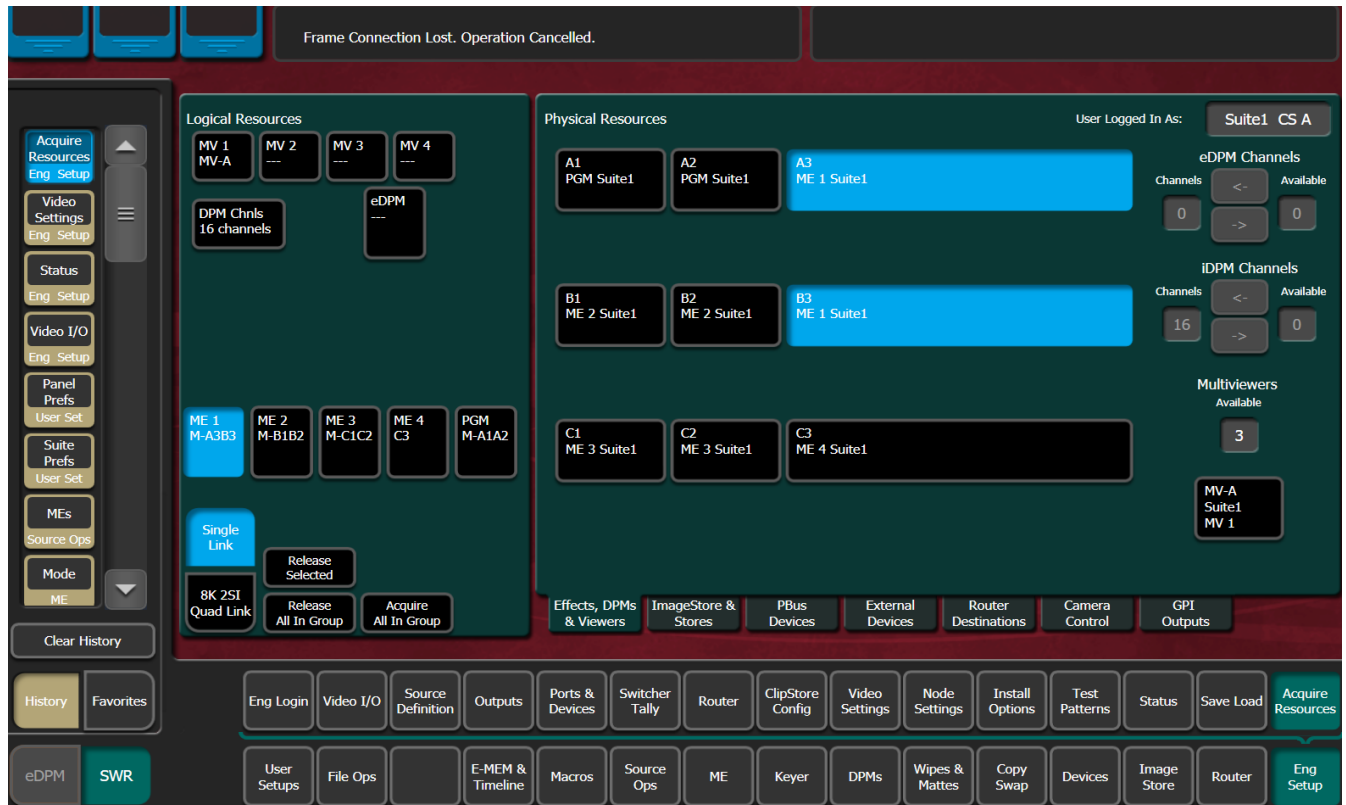
8K System Configuration is only available on the K-Frame XP Standard and Compact models of switcher with V16.1.0 or later software. It supports 8K 2SI (2 Sample Interleave) and 8K SDQS (Square Division Quad Split) frame operating modes. Engineers can refer to the Installation & Service Manual for 8K Frame Operating Mode video settings, video and key source configuration, and resource acquisition information.

When you place the switcher in an 8K Frame Operating Mode (FOM) mode, the M/Es and Keyers are automatically configured. The backgrounds and the first three keys for each M/E are 8K; simply turn on a key and a full 8K image is displayed.

8K System Configuration



The first step in configuring the switcher for 8K is to set the Frame Operating Mode (FOM) in the Eng Setup > Video Settings > Operating Mode Menu. You must select one of the 2160p Frame Operating Modes and then select either 8K 2SI Quad Link or 8K SDQS Quad Link. The step of selecting one of the 8K Frame Operating Modes will force the switcher to release and reacquire the Physical Resources that are the Video Processing Units as they need to be configured for 8K Video Processing.



When placed in a 8K Frame Operating Mode (FOM), two physical VPEs (Video Processing Engines) are automatically acquired to form logical M/Es to create 8K M/Es with three keys each. The Primary and secondary sides of the two VPEs each process one of the video streams of the Quad Streams of the 8K Video. Keys must remain split between the Primary (Key 1-3) and Secondary (Key 4-6) partitions for an M/E to function properly in 8K mode.

The Logical Program/Preset 8K ME will be created from Video Processors A1 and A2. Logical 8K ME 1 is created from Video Processors A3 and B3. Logical 8K ME 2 is created from Video Processors B1 and B2. Logical 8K ME 3 is created from Video Processors C1 and C2. Finally, Logical ME 4 is a single 2160p ME created from C3.

2160p MEs while in an 8K Quad Stream Frame Operating Mode

M/Es can be released from Suite 1 and acquired as 2160p MEs in Suite 2. This allows you to create a dual show in both 8K and 2160p from a single KFrame system. It is recommended that you save separate Engineering Setup and Show files before and after releasing and acquiring M/E resources so they can be reloaded as needed. To reacquire the M/E as 8K, the 8K Frame Operating Mode must be selected either by loading the saved Show file or in the Eng Setup, Video Settings menu. See the K-Frame Kayenne/Karrera/GV Korona Installation & Service Manual for information about Frame Operating Modes and allocating resources across suites

8K Video and Key Sources

8K video and key sources are configured for use prior to operation. Once an 8K source has been configured, it is previewed and taken to air the same as any other source, either as video or key.

In 8K 2SI mode, two pixels from each of the four inputs are layered to create one 8K image. In 8K 2SI FOM, if you select a source that is configured as a 2160p source, the pixels are replicated to create an 8K video for use in the production.

In 8K SDQS mode, each quadrant of video from the 8K source (for example an 8K camera in 8K SDQS mode) is one quarter of the 8K source's image.

Four physical inputs, each with one quarter of the 8K image, are passed through the switcher.

8K SDQS Wipe Limitations and Supported Wipe Patterns

It is recommended that in 8K SDQS (Square Division Quad Split) Frame Operating Mode, wipe transitions should be previewed before taking them on-air. Wipes and supported wipe patterns can be used in 8K but there are some limitations. For example, moving some wipe patterns may result in on-screen artifacts or anomalies. They include:

- Horizontally more than +/- 16,
- Vertically more than +/- 23)
- X or Y more than +/- 14.

Modulation, Multiply, and Horizontal Split functions are not supported. Rotation can be used successfully with most of the wipe patterns but may cause issues with others so it is best to preview the pattern with Rotation before taking it on-air.

For any wipe pattern, position, rotation, and size for a preset pattern or transition percentage for a transition can interact and sometimes have an unexpected appearance. Therefore, it is important to preview the settings for a wipe before taking it on-air. If the preview of the wipe settings shows the desired behavior, the wipe will consistently perform as expected with those settings.

Most wipe patterns available in the HD modes are available in 8K mode.

Note: Unsupported wipe pattern buttons are not grayed out in the GV switcher menu in 8K Mode.

iDPM Support for 8K 2SI Effects

Four iDPMs per keyer are needed to fly a full 8K effect in 8K 2SI Frame Operating Mode. Up to four 8K iDPMs are possible with 16 physical iDPM resources licensed and acquired. See the K-Frame Installation & Service Manual for physical resource allocation between suites and iDPM licensing instructions. When an iDPM is selected in 8K 2SI mode, four sub-images from the keyer source are delegated to four iDPMs.

Note: iDPMs are not supported in 8K SDQS Frame Operation Modes

2D DPMs with perspective in 8K 2SI Mode

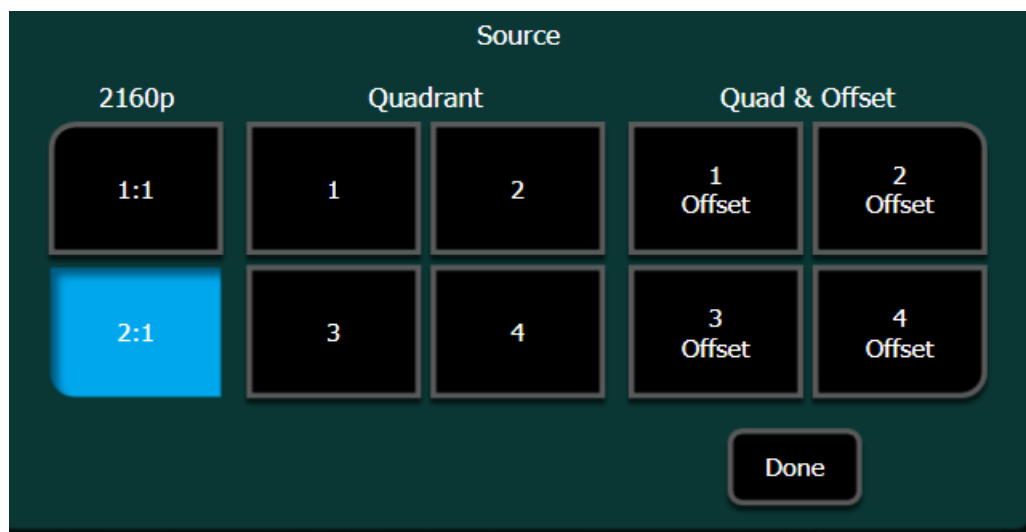
The 2D DPMs with perspective work the same as when not in quad stream modes when in the 8K 2SI Frame Operating Mode.

8K SDQS Modes and 2D DPMs

8K SDQS Mode and 2160p Keyers

When a 2D DPM is enabled for a 2160p source, the result is a full 2160p, 1:1 image. Images can be sized at 2:1 (double) with a button selection in the iDPM> Transform> Keyers 2DPM menu> (Quadrant) Source pane.

When the 2160p source image is set to the 2:1 setting, the 2160p source is scaled to a full sized screen. 2D DPM effects built on an HD system can be run and they will look the same but scaled to a 8K screen.



When the keyer is cut on, the 2160p image is located in the center of the screen (or target space) over the 8K background. You can size and move the image on the screen.

8K SDQS Mode and 8K Keyers

When a 2D DPM is enabled on a keyer with an 8K source in 8K SDQS mode, the resulting image is a 2160p, 1:1 quadrant (one quarter) of a 4K image.

Sizing or moving an 8K keyer in 8K SDQS mode requires four 2D DPMs, one for each quarter of the image. Since there are three keyers per logical M/E, keyers from two M/Es are required to perform this operation: for example, two keyers from ME-2 and ME-3. When these keyers are cut on, the 2160p images (each one quarter of the image) will be layered in the center of the screen over the 8K background.

In order to size and move the four 2D DPMs as one image, Quadrant Offsets are provided that are configurable in the 2DPM Keyers menu, Quadrant Source pane (see Create a 8K 2D DPM Effect in 8K SDQS Mode two section following). Using the quadrant offsets, the keyers can be offset to upper left (1), upper right (2), lower left (3), and lower right (4) in the target space, resulting in one full 7680 x 4320 keythat can be sized and moved.

You can change the quadrant/video selection. For example, you could use two 2160p quadrants for a lower third (Quadrants 3 and 4) or a split screen two-box effect (Quadrants 2 and 4), or cut on one quarter of a 8K graphic with text or a logo and apply a lower right offset (Quadrant 4) 8K 2D-DPM Quad Offset Borders and Cropping

When an 8K 2D DPM is created using four 2D DPMs, the inner borders are disabled. When a Quadrant Offset is enabled for one 2160p 2D DPM, the inner borders are also disabled.

Crops are calculated so that when you crop from the top or sides of a 8K keyer using Quadrant Offsets, the entire image is cropped simultaneously. This means, if for example only the keyers for Quadrant 3 and 4 are on, the crop will not be visible until it reaches the top edge of Quadrants 1 and 2 in the target space.

Create a 8K 2D DPM Effect in 8K SDQS Mode

In 8K SDQS mode, an 8K 2D DPM is configured using keyers from two logical M/Es. Each 8K M/E has the first three keyers available (Key 1-Key 3) for K-Frame XP. 8K DPMs require an 8K source: see the Kayenne/Karrera/GV Korona Installation & Service Manual for information about configuring 8K sources.

The following example describes how to use bus linking so the same source will be selected on four keyers from two M/Es and enable an 8K 2D DPM that uses Control Panel reentry to delegate the 2D DPM to a single keyer button on PGM.

Prerequisite: 8K sources are mapped to the Control Panel (2D DPM configuration can also be completed using just the switcher menu).

- 1) Create a bus link so each key will select the same source simultaneously (example):
 - a) In the Source Ops, Bus Links, Links Setup tab, select the Controlling Bus data pad.
 - b) Select a Controlling Bus in the ME Buses tab (ME2, Key1)
 - c) Select the Controlling Bus (Controller) in the Current Link pane, left.
 - d) Select the Linked Bus data pad and select a linked bus (ME 2, Key 2).
 - e) Repeat for the next two links (ME 3, Key 1 and ME 3, Key 2).
 - f) Verify all current links are enabled and the Link Enable button is on.
- 2) Select an 8K key source on the Control Panel.
- 3) In the iDPM > Transform > Keyers ME 2DPM menu tab, select the ME and keyer to be used as a quarter of the 8K image.
- 4) Select the Quadrant button in the Clears & Enables pane, top right of the menu and select an Offset button to move the quarter image to the desired location;
 - 1 Offset, top left
 - 2 Offset, top right
 - 3 Offset, bottom left
 - 4 Offset, bottom right.
- 5) Enable and select quadrants for the other three 2D DPMs, making sure the correct images for each of the four quadrants are on-screen. Result: With all four keyers cut on, a full 8K key is visible on-screen.

6) Chain the 2D DPM enabled keys so they will go on and off air simultaneously:

a) In the User Setups > Suite Prefs > Transition Key Chaining menu, with the Key Chains button selected (bottom left), select a Key Chaining data pad (turns light blue).

b) Select the four keys with 2D DPMs enabled for the 8K source; the Key Chaining will appear in the selected Chain data pad.

7) In the ME, Mode menu, select an M/E you used with the 2D DPM and turn on Primary in the Layered pane, repeat for the second M/E.

8) Delegate the 8K keyer to the PGM/Preset M/E:

a) On the Control Panel, hold down one of the three keys not used for the 2D DPM on an M/E (ME 3, Keyer 3 for example) and delegate the second M/E to the button by selecting the M/E source in the Source Select area (ME 2).

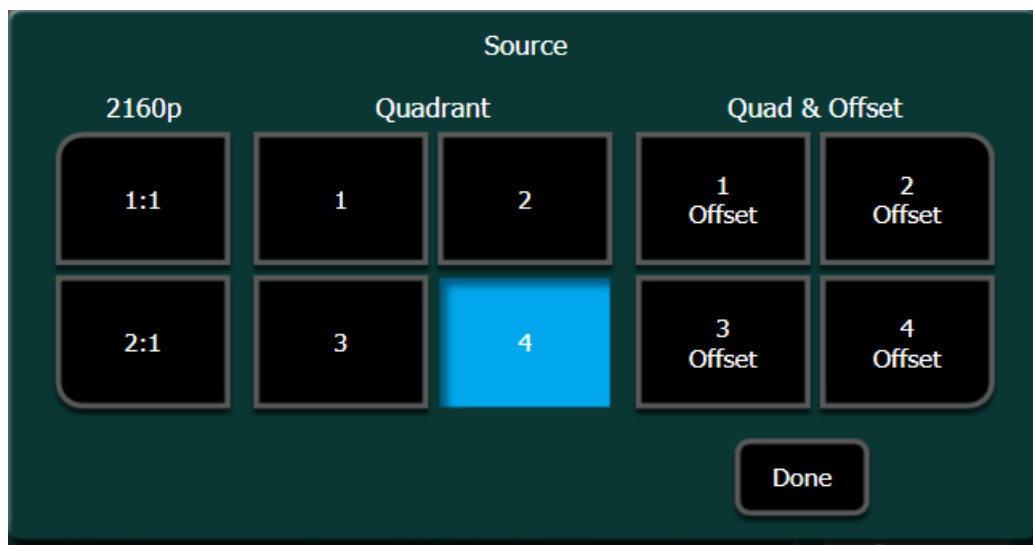
b) On the PGM/PVW M/E, press and hold one of the three available keyers and press the source select button with the M/E (ME 3).

Result: The 8K 2D DPM can be cut on/off or recorded in an E-MEM or Macro register with one button press.

9) When a 2D DPM is enabled, an 8K keyer quadrant is displayed on the 2160p 2D DPM. Select another quadrant to display from source video:

a) In the iDPM > Transform > Keyers 2DPM menu tab, select an M/E and keyer.

b) Select the Quadrant button in the Clears & Enables pane, top right of the menu and choose a Quadrant button 1-4 to select the source video.



8K Mode and the Image Store

In 8K Mode, images and image sequences imported into the Image Store cache will be divided into four sub-images, and assigned Image IDs and descriptions to reflect their association as a 8K image. For example, Image ID 1000 will load as IDs 1000, 1001, 1002, and 1003. The image descriptions will be 1000-1, 1000-2, 1000-3, 1000-4.

A tolerance of +/-10% of the width and height of an image is allowed. Stills, sequences, or movies outside those tolerances will be center cut, the default for progressive images.

Two Image Store channels are automatically configured as 8K, Image Store 1 and Image Store 5. Each source uses four channels. Each of the four sub-images must be loaded starting in either Image Store Channel 1 or Channel 5, then each sub-image in order of Image ID. For example, Image Store Channels:

- 1/2—1000/1001
- 3/4—1002/1003
- or-
- 5/6—1000/1001
- 7/8—1002/1003

Importing Images with Audio to Image Store

Images, image sequences, and movies with paired audio (stereo) can be imported into Image Store cache, and/or saved to disk. The video with audio must also match the frame rate; 59.97Hz, 50Hz, or 60Hz, otherwise only the video will be imported.

About the K-Frame Software Update

GV K-Frame XP systems are shipped with the current software version installed on the Frame and Control Surface. Updates to GV Switcher system software are available for download from the Grass Valley website. Software installation tools are provided with each update package.

The GV K-Frame XP Deployment Tool extracts and copies Grass Valley switcher system files to a Menu Panel or PC. These files include the K-Frame Installer Program.

The K-Frame Installer Program is used to install the extracted software to Grass Valley Video Processor Frame(s) and Control Panel(s) over the network. The program also launches other installation tools (wizards). One wizard installs the Menu application directly on the Menu Panel or PC running the installer program. If multiple Menu Panels (or PCs running the Menu application) exist, each must be updated individually. Installation wizards can also be launched for the KSP and NetConfig features.

Update the K-Frame Software

This software update procedure assumes your Grass Valley switcher system is fully operational with all network communications properly configured. Refer to the *Kayenne/Karrera/GV Korona Installation & Service Manual* for configuration instructions.

Back up Current Configuration and Effects Files:

- 1 Save your system configuration files (Eng Setup, User Setups), and your operational registers (EMEM, Macros, etc.) and other settings. You can create a Show file that contains all this information. (Note that the Show File does not contain the Eng Setup so it will need to be saved separately.) See the K-Frame Kayenne/Karrera/GV Korona User Manual for file operations instructions.

Note: A thumb drive that includes the current Grass Valley switcher software version is a convenient location to back up these files.

- 2 Store the backup media in a safe place. You may want to use these files if you decide to back down to that earlier software version.

Deploy the Switcher Update Package Files and Installer:

- 1 Exit the Menu application and any other applications that may be running on the Menu Panel or PC.
- 2 Disable any virus protection, Windows firewall, and any other firewall protections that may have been installed on the Menu Panel or PC. Firewalls must be inactive to allow switcher system software installation over the network.
- 3 Run the K-Frame Setup application, either:
 - a Insert the K-Frame Software USB stick into an available port on the Menu Panel or PC. Locate the removable disk in My Computer, open **K-FrameSetup.exe**, and select **OK**,
 - or -
 - b Download the K-FrameSetup.exe file from the Grass Valley download site, open the file, and select **OK**.

Note: If the same K-Frame Deployment Tool version files are detected, a Repair/Remove screen is displayed, allowing re-installation or removal of the Deployment files.

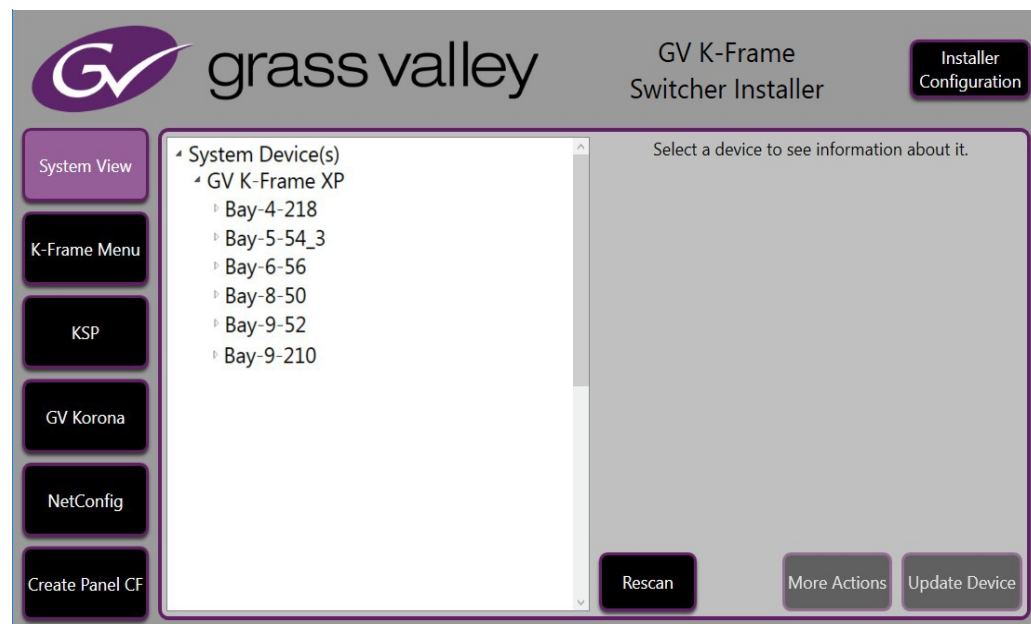
- 4 Select **Next** in the K-Frame Deployment Tool window.
- 5 Accept the license agreement and select **Next**.
- 6 Select **Next** to accept the default deployment location. Alternatively, you can Browse to a different location to deploy the files. The "Ready to Install the Application" screen appears next.
- 7 Select **Next** to deploy the files.

Result: When the deployment completes, the K-Frame Installer Program will launch automatically. After the switcher files have been deployed, the K-Frame Installer Program can be launched at any time by opening the **K-Frame Installer** from the desktop icon.

K-Frame Installer Program Description

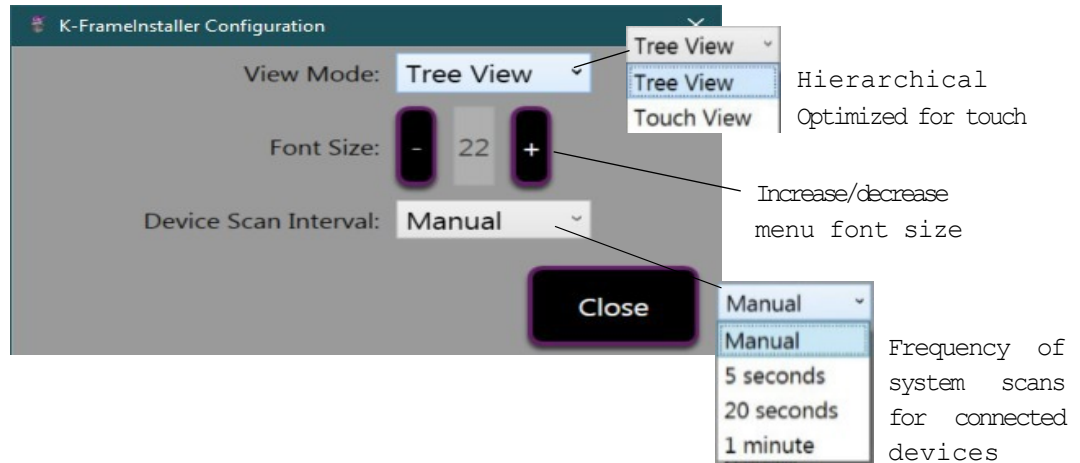
The K-Frame Installer Program menu has buttons on the left used to select various installers. Selecting the System button displays a hierarchy (Tree View) of connected devices.

Note: If a Video Processor Frame is started or rebooted, **Rescan** must be pressed to view the additional system.

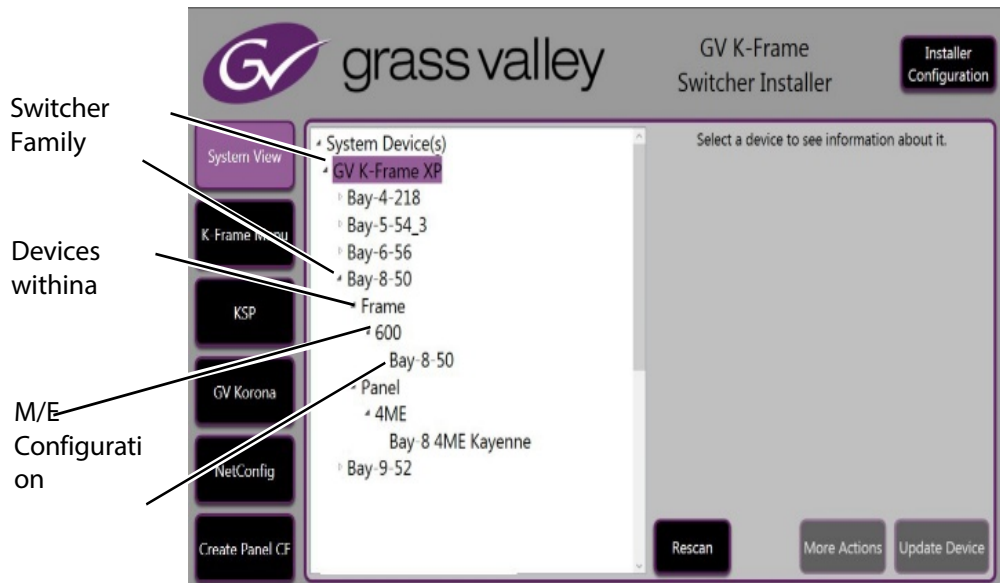


Configuring the Installer Menu

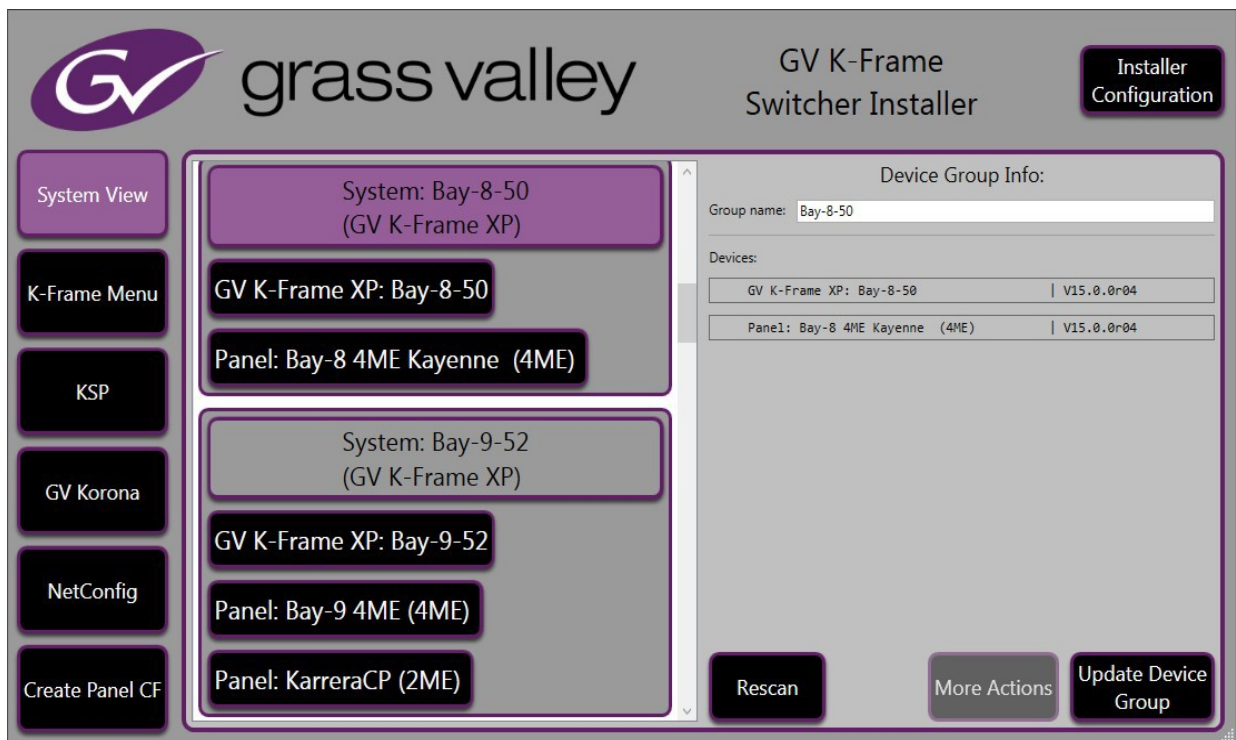
The **Installer Configuration** button (top right) is always available and provides customization of the installer menu.



When **System** is selected, a hierarchy (Tree View) or list of buttons (Touch View) is displayed showing the systems, their groups of devices on the network, and other information.



Touch View is organized by the Device Group.



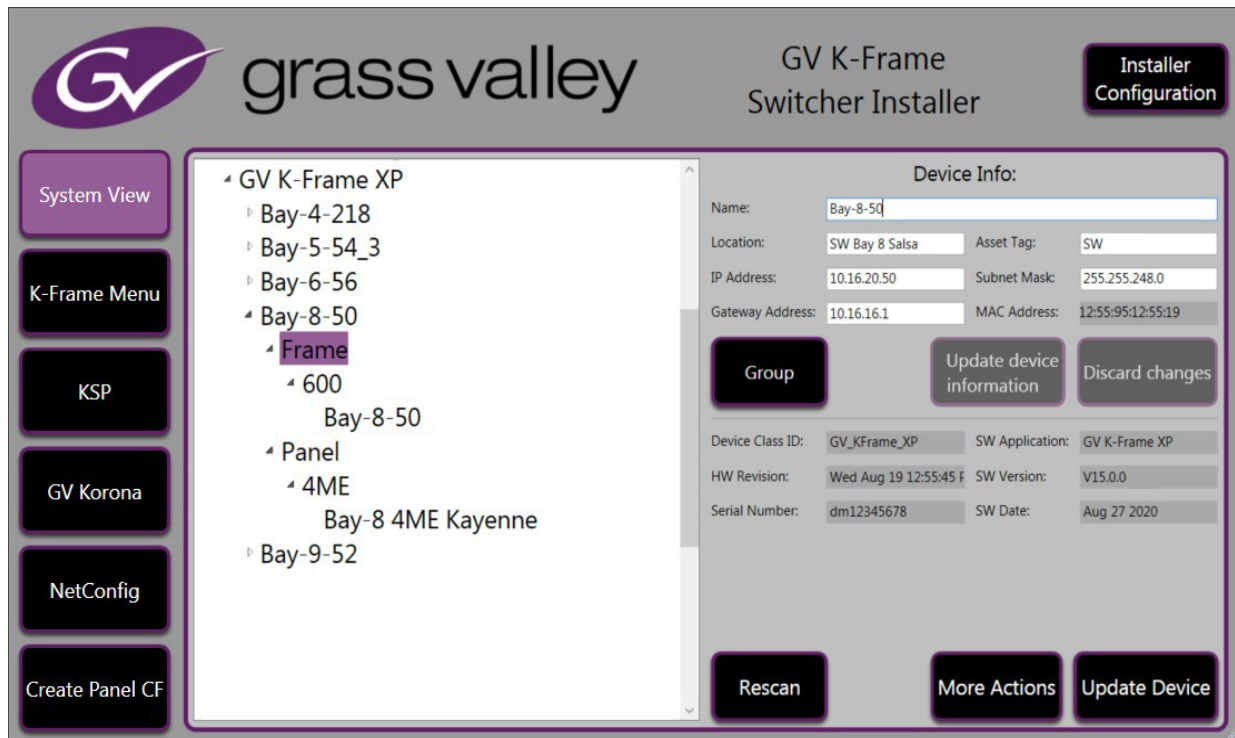
Selecting a Device Group or Device displays the Device Group/Device Info: menu (right) with configuration buttons:

Rescan—Rescan the system devices (refreshes the menu).

Update:

- **Update Device Group**—Update software for all devices in the group.
- **Update Device**—Update device software.

A group or device can be selected either in the tree/button list in the Group/Devices: list in the Device Group Info: menu (right). The Device Info: menu will be displayed (right).



Device Info can be edited in this menu. White Device info fields can be edited (gray fields cannot be edited but the text can be copied). Changes can be discarded or saved using the following buttons:

Discard changes—Deletes changes and reverts to previous configurations.

Update device information—Saves the updated device information to the Frame.

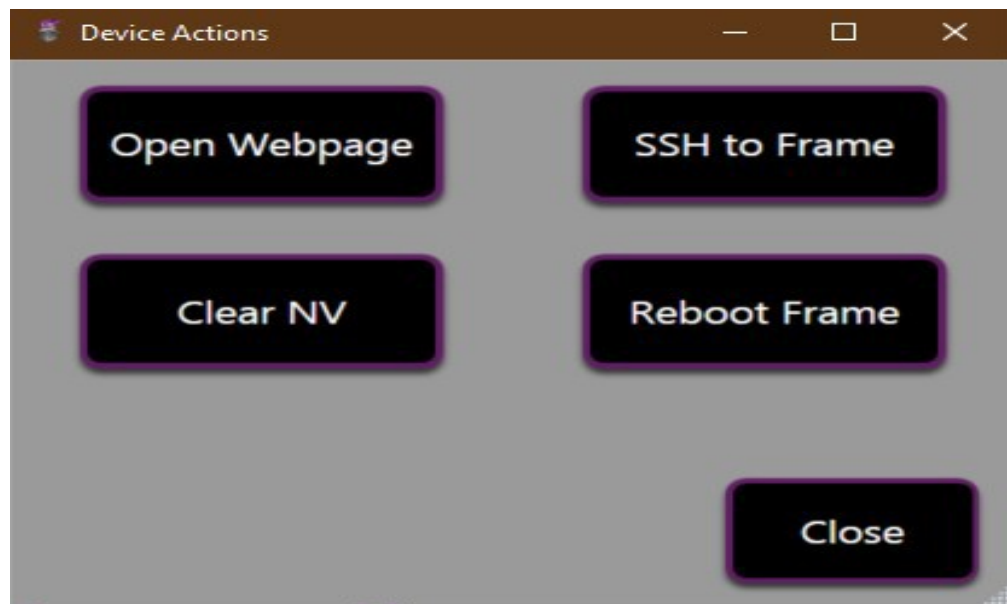
Group—Navigates to the Device Group Info: menu.

Rescan—Scans the network for devices and refreshes the menu to show the currently connected components and any modified system names.

Update Device—Update the device software.

More Actions—Provides context sensitive configuration for the selected device type:

Frame Device Actions



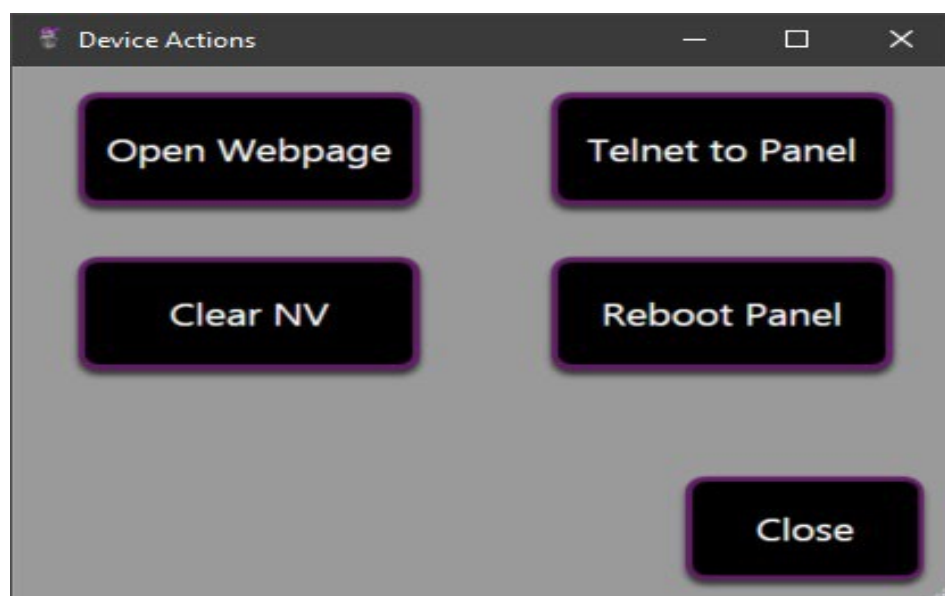
Open Webpage—Opens the device's web page using the IP Address (see the *Kayenne/Karrera/GV Korona Installation & Service Manual*).

SSH to Frame—Starts an SSH session with the Frame device (see the *Kayenne/Karrera/GV Korona Installation & Service Manual*).

Clear NV—Clears NV Memory.

Reboot Frame—Reboots the Frame.

Control Panel Device Actions



Open Webpage—Opens the device’s web page using the IP Address.

Telnet to Panel—Starts a Telnet session for a Control Panel (see the *Kayenne/Karrera/GV Korona Installation & Service Manual*).

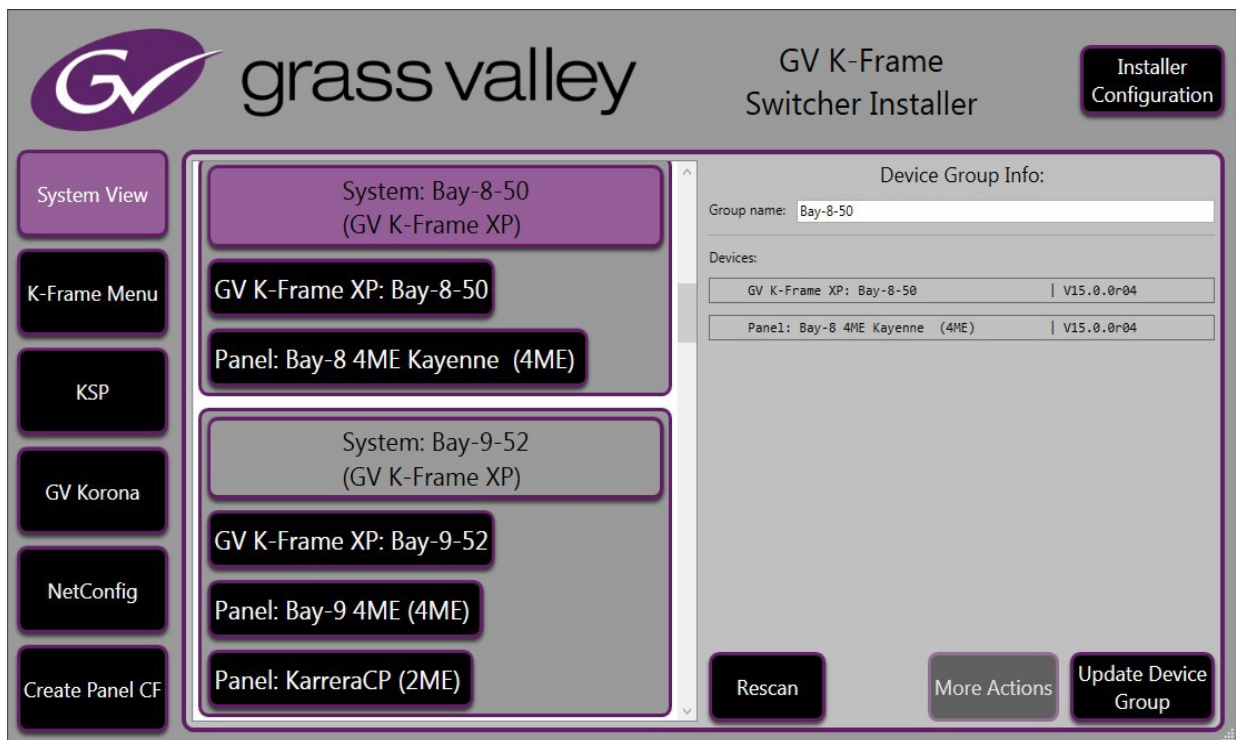
Clear NV—Clears NV Memory.

Reboot Panel—Reboots the Control Panel.

Update the K-Frame System Software

For Kayenne and Karrera, the K-Frame system’s Video Processor Frame and Control Panels can be updated in one operation. The GV Korona Control Panel is updated separately from the Frame ([Update the GV Korona Control Panel Software](#)).

- 1 With the K-Frame Switcher Installer Program launched, select the **System** button.
- 2 Select a group (or device). The **Update Device Group** button becomes active.



- 3 Select **Update Device Group**.
- 4 Select **Yes, update this device** if you agree.

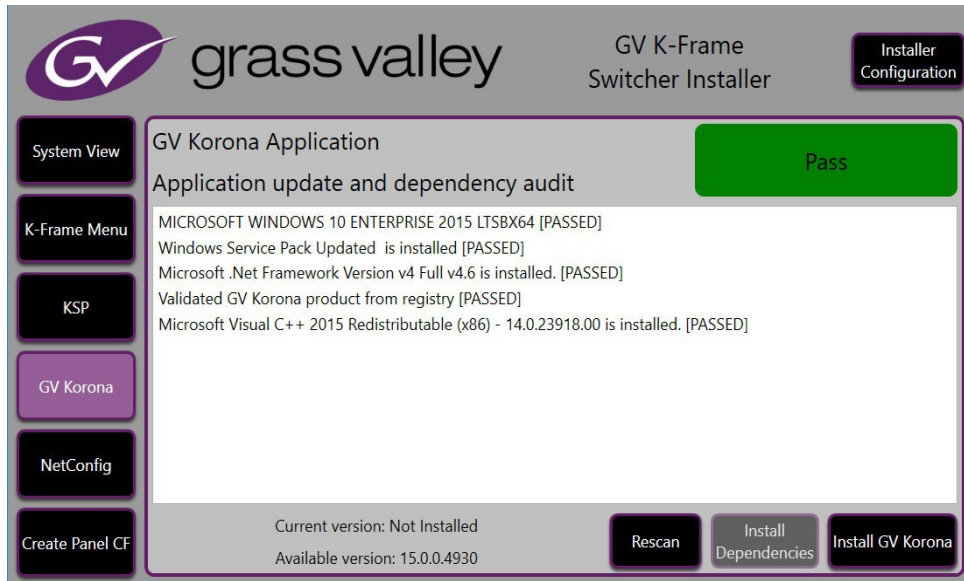
The system will reboot after the device update has been completed.

Update the GV Korona Control Panel Software

In addition to updating the GV Korona Control Panel software, third party software can be audited and dependencies updated in the GV Korona Application menu.

The **Rescan** button repeats the application dependency audit.

- 1 Select **GV Korona** in the GV K-Frame Switcher Installer.



- 2 Verify that the third-party applications have passed the audit.
- 3 If not, the **Install Dependencies** button will be active, select it to update the applications.

Note: If there is not a GV Korona Control Panel connected to the Device Group, the **Install Dependencies** button will not be available even if the other dependencies have passed the audit.

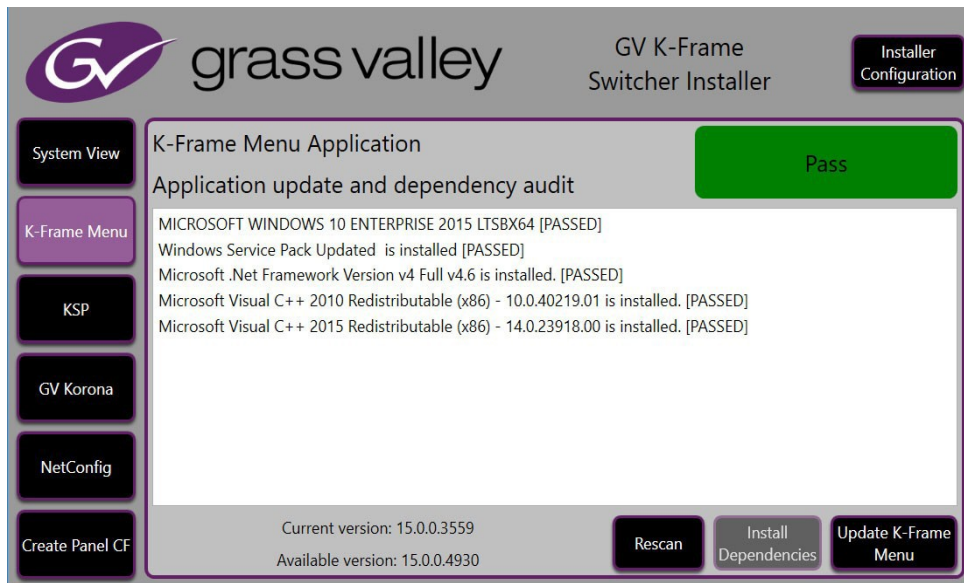
- 4 Select **Install GV Korona**.
- 5 Select **Yes, update this device** if you agree.

Update the K-Frame Menu Software

In addition to updating the K-Frame menu software, third party software can be audited and dependencies updated in the K-Frame Soft Panel Application menu.

The **Rescan** button repeats the application dependency audit.

- 1 Select **K-Frame Menu** in the GV K-Frame Switcher Installer.



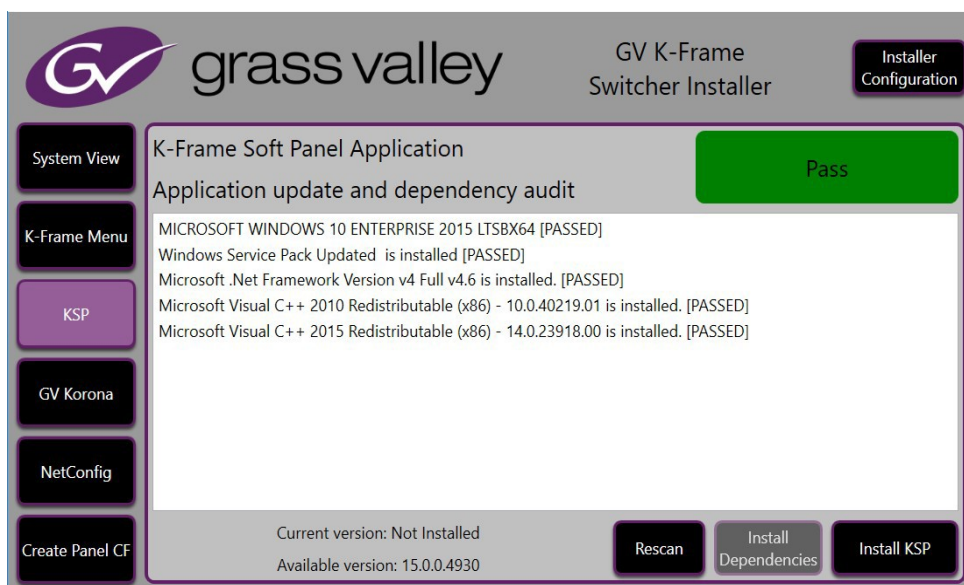
- 2 Verify that the third-party applications have passed the audit.
- 3 If not, the **Install Dependencies** button will be active, select it to update the applications.
- 4 Select **Install K-frame Menu**.
- 5 Select **Yes, update this device** if you agree.

Update the KSP (K-Frame Soft Panel) Software

In addition to updating the KSP software, third party software can be audited and dependencies updated in the K-Frame Soft Panel Application menu.

The **Rescan** button repeats the application dependency audit.

- 1 Select **KSP** in the GV K-Frame Switcher Installer.



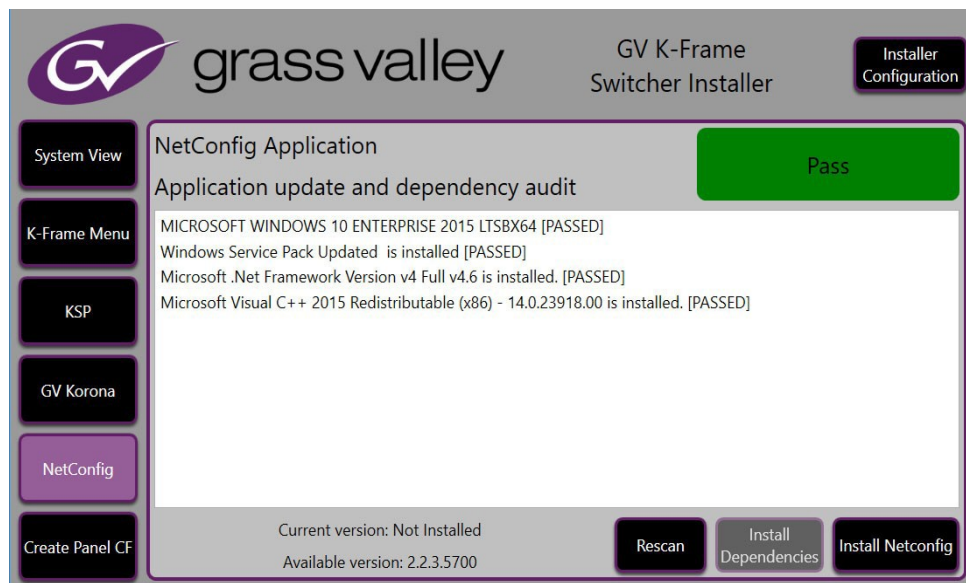
- 2 Verify that the third-party applications have passed the audit.
- 3 If not, the **Install Dependencies** button will be active, select it to update the applications.
- 4 Select **Install KSP**.
- 5 Select **Yes, update this device** if you agree.

Update the NetConfig Software

In addition to updating the NetConfig software, third party software can be audited and dependencies updated for the NetConfig Application menu.

The **Rescan** button repeats the application dependency audit.

- 1 Select **NetConfig** in the GV K-Frame Switcher Installer.



- 2 Verify that the third-party applications have passed the audit.
- 3 If not, the **Install Dependencies** button will be active, select it to update the applications.
- 4 Select **Install NetConfig**.
- 5 Select **Yes, update this device** if you agree.

Create a Control Panel Compact Flash Card

See the *Kayenne/Karrera/GV Korona Installation & Service Manual, Maintenance* section.

About Updating Spare Kayenne Control Panel Modules

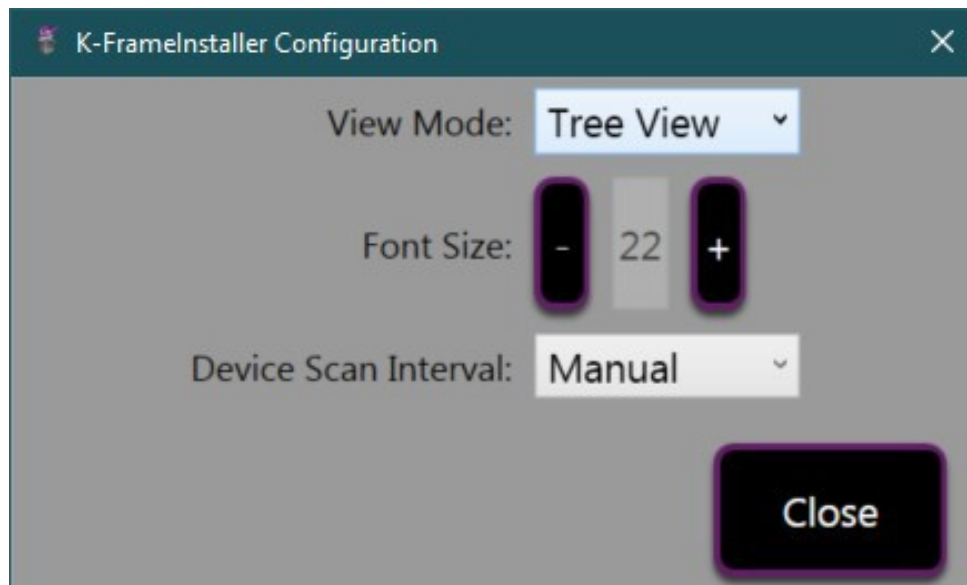
The Kayenne K-Frame Control Panel FPGAs will automatically be updated with software installation. However, spare Kayenne Control Panel Modules must be connected to the Control Panel after initial software installation and the Control Panel software re-installed so all modules are loaded with the current FPGAs and ready for use when needed.

CAUTION: Do not interrupt power to GV switcher systems during software installation; the FPGAs will revert to an older version. If power is lost during software installation, install the software once the power has been restored.

Install the Menu Panel Application Update

CAUTION: For Menu on PC, you must be logged on as administrator or the installation will fail.

- 1 Select the K-Frame Switcher Installer desktop icon, if necessary, to launch the K-Frame Switcher Installer Program.



- 2 Select the **Menu** button. The K-Frame Menu Installation tool will launch.

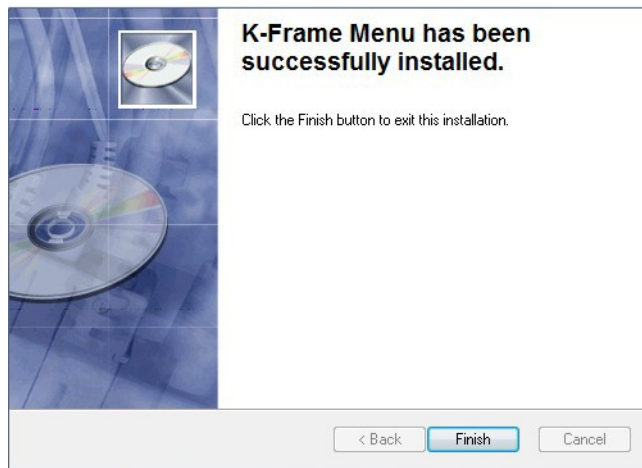


- 3 Select **Next**.

- 4 In either the Karrera, Kayenne, or GV Corona Control Panel area, choose either the Menu Platform (the Touch Screen Menu Panel) or User PC, and select **Next**.
- 5 Enter a name and organization in the User Information screen, leave the Anyone who uses this computer setting selected, and select **Next**.

Note: Selecting 'Only for me' limits some settings to the currently logged in user. This may be appropriate if the Menu application is installed on a PC shared by several users. However, this is not a foolproof security method and should not be relied on for mission critical applications.

- 6 Select **Next** to accept the default installation location. Alternatively, you can browse to a different location to install the application.
 - 7 In the Ready to Install the Application menu, select **Next**.
 - 8 When done, the Menu Successfully Installed screen appears, select **Finish**.
- If you installed onto Menu hardware you will be prompted to reboot the computer.



- 9 Select **Exit** and answer **Yes** at the prompt to exit the K-Frame Installer.

Selecting the K-Frame Menu icon launches the new version of the Menu Panel application.

Touch Screen PC Installation for KSP

The KSP (K-Frame Soft Panel) installer is intended for a customer provided touch screen PC.

Soft Panel requirements:

- The installed menu software matches the K-Frame system.
- 1920 x1080 display resolution.
- Microsoft .NET Framework 4.5 Windows 7/Windows 10.
- Microsoft Visual Studio 2010 redistributable is installed.

Prepare the Touch Screen PC for KSP

The KSP option is activated with a purchased license key.

- 1 Install the menu and follow the prompts (see [Update the KSP \(K-Frame Soft Panel Software\)](#)).
- 2 Add the PC's Name and IP Address to the KSP software in the node list, in the Eng

Setup, Control Surfaces menu (see *Kayenne/Karrera/GV Korona Installation & Service Manual*).

- 3 See the *KSP Switcher Soft Panel Graphical User Interface Instruction Manual* to configure and operate the KSP, available at www.grassvalley.com.

FPGA and Board ARM Software Upgrades

CAUTION: It is recommended that HAD FPGA Board ARM Software upgrades are performed by qualified personnel only, for example an EIC (Engineer In Charge).

About Host Address Decoder FPGA Upgrades

Each CPU or Image Store board installed in a Grass Valley K-Frame Video Processing Frame has a PCI Express endpoint for communication with the host processor. These PCI endpoints are governed by the HAD (Host Address Decoder) FPGA (Field Programmable Gate Array). Software updates can include firmware upgrades for endpoint HADs. Upgrading the HADs is recommended.

Any out of date HADs will be reported by the menu, however the HAD version match can be checked with the `checkHADs` command in the Console menu (*Kayenne/Karrera/GV Korona Installation & Service Manual, Maintenance*).

About the IP I/O Board ARM Software

Depending on which software version you are upgrading from, the 16x8 and 8x4 Video IP I/O boards may require a board ARM software upgrade as part of the software installation. In most cases, the Board ARM software upgrades are automatic but there are exceptions, see the *Kayenne/Karrera/GV Korona Installation & Service Manual, Maintenance* section.

Sample Files and DPM Effects

Sample files or other elements and instructions for use are provided with an installer from the Grass Valley website. The K-Frame Sample Installer, available on the Software USB thumb drive that came with your system and from the Grass Valley website, can be used to place the K-Frame samples in the `C:\K_Frame\user\Samples` directory on the GV Switcher system.

IMPORTANT: When upgrading, install the samples after the initial software upgrade.

During installation, you can choose to install all (the default) sample effects or select specific effects, reducing installation times.

Sample DPM Effects

Sample DPM effects are provided with the K-Frame Sample Installer. It is important to read the accompanying instructions on how to load and run the sample DPM effects.

–**Note:** The C:/Images folder must be a shared folder on the network to use sample Image Store stills with sample DPM Effects.

Check Software Versions

Launch the Menu application. The Status menu lists the switcher system devices. Ensure all the components are running the same software version. Mismatched versions will be reported with red text.

Node Name	Control Surface	Node Type	IP Address	Version	Date
Frame Facility Interface		Video Proc Frame	0.0.0.0	V16.1.0r01	Jan 10 2022
ImageStore		Image Store	127.0.0.1	V16.1.0r01	Jan 10 2022
localhost	1 A	Menu Panel	127.0.0.1	V16.1.0d61	Dec 29 2021

Confirm System Operation

- 1 Verify that all the installed MEs are operational. Select different crosspoints on the Control Panel and fly a key with an iDPM.
- 2 Ensure that any software enabled options operate correctly. Existing authorization codes should work with the new software.
- 3 Check that EMEMs run properly:
 - Older effects should work with the new software. If there are differences, however, you will need to edit or rebuild the effect with the new software version.
 - If older effects use iDPMs, it may require that you load, update, and save the show (see the *K-Frame User Manual* for more information).
- 4 Reload the Macros and check that they operate correctly.
- 5 Load some Image Store images and confirm they display correctly.

Back up New Configuration and Effects Files

- 1 When you are satisfied with system operation, save the new configuration files and effects as a Show file to a folder you've created on that version's K-Frame Software USB

stick.

- 2 Label the media with the version and date and store it in a safe place.
- 3 Reactivate any virus protection on the Menu panel that may have been disabled at the start of this procedure.

This completes the standard switcher system software update procedure.

Update Other Grass Valley Switcher Systems Software

More than one switcher system (multiple Video Processor Frames) may reside on your network. Each system can operate simultaneously with different software versions, as long as all the components in each system run the same software version.

Additional switcher systems are updated using the same procedure as described.

- 1 Select the other switcher system on the K-Frame Installer Program System hierarchy screen, and choose Update All.
- 2 Insert the K-Frame Software USB stick into each Menu Panel or PC associated with that switcher system and choose the Menu software update button.

Individual Switcher System Component Update

Individual components can be selected for update (just the Video Processor Frame, Image Store, or just one Control Panel). However, all components of a switcher system must run the same software version. If updating components individually, make sure they all are at the same version before resuming K-Frame system operation.

CAUTION: Allow the Video Process Frame and optional Image Store to completely finish rebooting before attempting to install Control Panel software. The Control Panel update process requires the Frame to be operational.

K-Frame Software Removal With Windows OS

K-Frame Deployment Tool versions and Menu Panel programs can be removed using standard Windows techniques (Setup/Add or Remove Programs/Uninstall or Change Programs, etc.).

Deployment Archive Files

When new software versions are installed with the K-Frame Deployment tool, older version deployment files are not automatically removed. Each K-Frame deployment creates its own software version folder. If the default installation location, or the same alternative destination, is always chosen, all the version folders will be listed together.

Note: All the components of a switcher system must run the same software version. If you want to return to an earlier version of software, you should back-down the software on the Video Processor Frame, all Control Panels, and all Menu Panel applications used with that switchersystem

Default destinations:

- C:\Program Files (x86)\Grass Valley\GV Switcher\K_Frame_Switcher_VX.X for 32-bit
- C:\Program Files\Grass Valley\GV Switcher\K_Frame_Switcher_VX.X for 64-bit systems.

Running the K_FrameInstaller.exe file in any version's folder will permit installation of that version's files.

CAUTION: Before installing an older version of the Menu Panel application, you must first remove the newer, currently installed Menu Panel version, either using the newer version's K-Frame Deploy Tool or Windows Add or Remove Programs.

Calibrate the Lever Arm and Joystick

See the Maintenance section of the *Kayenne/Karrera/GV Korona Installation & Service Manual*.

K-Frame System Suggested IP Addresses

K-Frame systems are shipped with default IP addresses, and it is suggested that you reserve several IP Address in sequence to configure Control Panel suites and additional devices. These default addresses can be used if the K-Frame system is operating on a dedicated network with no other devices present.

Note that these addresses can be changed during installation so your system may not be using these defaults.

K-Frame System Default IP Addresses

Device	IP Address
Video Processor Frame	192.168.0.170
Control Panel Suite 1A	192.168.0.173
Touch Screen Menu Panel 1	192.168.0.175
ClipStore	192.168.0.180
All Subnet Masks)	255.255.255.0
All Gateways (except V1.6.5 software Remote Aux panel)	192.168.0.1
Reserved For Future Use	CAUTION: Do not connect any devices configured with the following IPaddresses to a Karrera network.

K-Frame System Default IP Addresses

Device	IP Address
Video Processor Frame Gigabit Ethernet	192.168.0.172
PCU Panel (Kayenne) Reserved LAN Port	192.168.0.174

Note: Customer orders with multiple Control Panels will be pre-configured to the listed IP addresses. However, if one of these additional Control Panels is reset to factory defaults, it will be given the standard 1A default 192.168.0.173 address.

IP Addresses and Single Control Surface Systems

A new Grass Valley system will operate on an isolated network with the default IP addresses configured at the factory (except for 32 Crosspoint Remote Aux panels). However, if you wish to integrate the system into an existing network, wish to use gateway communications, or wish to add more control surface components, then the IP addresses may need to be changed.

IP Addresses and Multiple Control Surfaces and Suites

If you plan to use multiple control surfaces (for example, more than one Control Panel or more than one Menu Panel) with the same Video Processor frame, you must make sure the IP addresses of the additional items are unique before connecting them to the network. Using default IP addresses will cause network conflicts and unpredictable system operation. See the *Kayenne/Karrera/GV Korona Installation & Service Manual* for network configuration information.



Contact Us

Grass Valley Technical Support

For technical assistance, contact our international support center, at 1-800-547-8949 (US and Canada) or +1 530 478 4148.

To obtain a local phone number for the support center nearest you, please consult the Contact Us section of Grass Valley's website (www.grassvalley.com).

An online form for e-mail contact is also available from the website.

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