K-FRAME

VIDEO PRODUCTION CENTER

Release Notes Addendum

VERSION 16.2.0

13-00122-000-AS

2022-05-24

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K-Frame Release Notes Addendum, V16.2.0

About this Manual

> **IMPORTANT**: V16.2.0 is only supported by the GV K-Frame XP and GV K-Frame X (Video Production Center). It is recommended to update the SW and HAD on any spare controller boards you may have as well.
>
> **NOTE**: For K-Frame XP systems: Some changes have been made in the V16.2.0 software to make the device control system more robust. No additional HW required for XP systems.
>
> **NOTE**: For K-Frame X systems: The V16.2.0 software includes changing the software operating system for the frame to Linux-based software (see **K-FRM-X-UPG-LX-KIT** for ordering). This change requires changing out the hard drives on the Frame Controller and Image Store Controller boards before installing the V16.2.0 software. It also means that the frame console has significantly changed its console behavior and Secure Shell Protocol (SSH) improving network security by requiring passwords for logging into the frame console. The default username and password is "user" and "gvuser". Please be aware that your local engineering management may have changed this password. Please refer to the K-Frame XP Installation and Service Manual for changes. The X will act similarly to an XP as described in the manual.
>
> The V16.2.0 software for the K-Frame X includes all of the bug fixes from V15.0.0 to V16.2.0 for the K-Frame XP that are applicable to the K-Frame X. Also, device control system, IP I/O cards, NMOS IS-04 and IS-05 and Gearbox boards have had significant updates since V14.6.x. This includes a number of menu screen changes.

This document includes "Resolved" and "Known" issues for K-Frame software version 16.2.0. See the K-Frame Release Notes, version 16.2 for Grass Valley Video Production Center software update instructions.

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 and on the USB thumb drive provided with your system.

Known Issues

See page 8 for Known Issues

Software Issues Resolved in Release 16.2.0

Area	Issues	ID	Case ID
Menu:	Over time, the Menu may occasionally begin to slow down, miss information, and the memory usage may go very high.	KFCK-27061	00800357
System: K-Frame X	There are rare instances where the CPL subsystem may cause the frame to reboot.	KFCK-26853	00810493
NMOS: K-Frame X	NMOS has inconsistent NMOS label – Issue fixed in previous version of K-Frame X.	KFCK-26593	00793058
NMOS: K-Frame XP	NMOS V1.2 is missing V16.1.3. Can see the IP I/O board but no TX and RX devices.	KFCK-27050	00819587
IP I/O: K-Frame X	ST 2110-40 VPID data incorrect – it does not appear to match what was configured in the User Setups>Suite Prefs>Suite Resources>Suite Signal Type menu. Fixed for XP in V16.0.0 release.	KFCK-27057	00808712
IP I/O: K-Frame XP	Timing of the video inputs on the -01 version of IP I/O boards may occasionally drift and delay the video essence. The delay may build up to multiple frames.	KFCK-26794	00804571
IP I/O: K-Frame X	The -01 version of the IP I/O board may have some video inputs drift over time resulting in multiple frames of delay. Fix for the K-Frame XP in a previous release.	KFCK-26789	00790656 00801847 00804356 00808488 00808954
Format Conversion IO: K-Frame XP	Conversion from 2160p to 1080p and back to 2160p needs improved.	KFCK-27060	
Gearbox I/O: K-Frame X/XP	MatchSync not working in SD modes	KFCK-27058	
VDCP Serial: K-Frame X/XP	May not always connect/re-connect during boot or reboot.	KFCK-27059	
iDPM: K-Frame XP	Splits and Mirrors modifier "Double Image" does not work correctly. The image may become distorted.	KFCK-27039	

Software Issues Resolved in Release 16.1.4

Area	Issues	ID	Case ID
GFX Interface: K-Frame XP	If an interface to the Xpressions graphics device is configured and the device is disabled, the switcher may lock up.	KFCK-26599	00800357
GFX Device Control: K-Frame XP	In some GFX Device configurations, switchers with IP boards may require significantly longer than normal time to boot/reboot.	KFCK-26809	00806155
iDPM: K-Frame XP	In FOM 2160p, the certain positions of the Warps: Splits and Mirrors, can cause video noise distortion of the warped image at some levels of separation.	KFCK-26940	00819535
iDPM: K-Frame XP	Where the drop shadow comes into contact with the bottom line of the screen with 2160, the background comes through. The problem occurs on the right edge of the screen.	KFCK-27038	
All boards: K-Frame XP	Video down-converted from 2160p to 1080p on the output board may occasionally flash when the video goes through certain paths through the switcher.	KFCK-27037	
iDPM: K-Frame XP	Intermittent shaking video in iDPM and eDPM. May go away with frame reboot and not return until next reboot.	KFCK-27040	00817509 00819394

Software Issues Resolved in Release 16.1.3

Area	Issues	ID	Case ID
Controller: K-Frame XP	In a few specific configurations and conditions, an error in the Controller Hardware Address Decoder (HAD) can cause the intermittent loss of output packets which will be detected as RTP sequence errors on the output video.	KFCK-26912	00814326

Software Issues Resolved in Release 16.1.2

Area	Issues	ID	Case ID
Kayenne Panel: K-Frame XP	The Kayenne Control Panel will not operate correctly due to missing files from the installer in V16.1.1 release. No other Panels were affected.	KFCK-26914	

Software Issues Resolved in Release 16.1.1

Area	Issues	ID	Case ID
IP I/O Boards: K-Frame XP	Some inputs from a LiveTouch server may have noise on PGM, PVW, or AUX.	KFCK-26871	00811427
IP I/O Boards: K-Frame XP	The IP Output may have 10ms RTP offset in 12G Mode.	KFCK-26862	00812750
IP I/O Boards: K-Frame XP	The clock for SFP 1 is shared with the other SFPs on the same IP I/O Board. If the signal to SFP 1 is lost (connection to switch lost, SFP unplugged, etc.), this may affect the other SFPs on the same board, including the redundant SFPs.	KFCK-26843	00804684

Software Issues Resolved in Release 16.1.0

Area	Issues	ID	Case ID
File System: Panel Prefs: K-Frame XP	Legal null references in some Panel Preference Files, can cause errors on loading.	KFCK-26845	

Software Issues Resolved in Release 16.0.4

Area	Issues	ID	Case ID
IS-04 & IS-05: K-Frame XP	Boards register with interface of and href of 0.0.0.0	KFCK-26804	00808400

Software Issues Resolved in Release 16.0.3

Area	Issues	ID	Case ID
GearBox and ConvIO boards: K-Frame XP	Switcher needs to recognize new versions of GearBox and ConvIO boards.	KFCK-26786	

Software Issues Resolved in Release 16.0.2

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Software Issues Resolved in Release 16.0.1

Area	Issues	ID	Case ID
Key Store: K-Frame XP	Key Store Keyer Cutout Source has corrupted video/memory.	KFCK-26627	
IS-04 & IS-05: IP I/O Boards K-Frame XP	IP Boards occasionally publish the Secondary URL even though using Primary SFP.	KFCK-26785	
Power Supply Monitoring: K-Frame XP Standard PS	Sometimes the four power supply's reporting is incorrect.	KFCK-26626	

Software Issues Resolved in Release 16.0.0

Area	Issues	ID	Case ID
IP IO Boards: K-Frame XP	IP at edge of horizontal timing very intermittently offsets video to left.	KFCK-26607	
IP IO Boards: K-Frame XP	Inputs on the -01 version of IP I/O Boards will occasionally delay the video essence for multiple frames.	KFCK-26794	00804571
Hot Swap: K-Frame XP	Changing I/O Board Type with Hot Swapmay require frame reset to work.	KFCK-26608	
IP IO Boards:K-Frame XP	SDP file of Senders always says SDR andcolor space undefined.	KFCK-25927	00766459
Format Conversion IO: K-Frame XP	Media Port on Conversion I/O board doesnot always initialize correctly.	KFCK-26609	
Format Conversion IO:K-Frame XP	In the FOM of 720p, the input on the Format Conversion card drops the videoby a line when MatchSync is applied.	KFCK-26610	
Image Store: K-Frame XP	On rare occasions, the Frame Crasheswhen Image Store Restore is enabled	KFCK-26611	
Image Store:K-Frame XP	Image Store Import of AVI and TGA inFOM 2160p may get an OutOfMemoryException error andsilently fail.	KFCK-26612	
Image Store:K-Frame XP	In FOM of 1080i, the Image Store appears to be recording F1:F2 with onefield delayed	KFCK-26037	
Image Store:K-Frame XP	On rare occasions, the Image Store Import will fail without an error message and import will not work until the menu is reset.	KFCK-25523	
Image Store:K-Frame XP	Canceling an Image Store save or import operation might not clean up the file directories correctly.	KFCK-25530	
System: K-Frame XP	Does not pass Active Format Descriptor	KFCK-26137	00786893
iDPM: K-Frame XP	Garbage in picture with ExtremePerspective in 2160p FOM.	KFCK-26613	
iDPM: K-Frame XP	In FOM of 720p, iDPMs are shifted up aline.	KFCK-26614	
Film Look: K-Frame XP	The Film Look parameters to not workcorrectly in some value ranges.	KFCK-26588	00798804
2DPM: K-Frame XP	2DPM Border line between video andborder when Z rotate is used.	KFCK-26615	
Timing Analyzer: K-Frame XP	Timing Analyzer should be more specific(59.94 not 59.94/60)	KFCK-26616	
Chroma Key:K-Frame XP	When in 2160p FOM, Chroma Key AutoSetup Cursor start at bottom of screenand is oval.	KFCK-26617	
PCU: K-Frame XP	On rare occasions, the PCU Configuration Alt IP stripe selection are not displayed correctly.	KFCK-26620	
SNMP: K-Frame XP	Snmpwalk – vsmNetworkConfig may fail	KFCK-26621	
SNMP: K-Frame XP	SNMP GetBulk doesn't always work.	KFCK-26622	
Editor Port:K-Frame XP	Editor Source Mapping Menu does notallow for mapping sources.	KFCK-26619	
Multiviewer:K-Frame XP	In 720P and in the Quad Layout, the video in the Multiviewer has an offset	KFCK-26618	
Wipes Menu:K-Frame XP	When changing wipe patterns on PGM ME the menu does not always update toshow the wipe pattern selected, but onME1 it does.	KFCK-26150	00793477
Panel / Menu / Frame Comm: K-Frame XP	The panel, frame, and menu would work better over longer IP connections usingTCP/IP instead of RDP over UDP/IP.	Enhancement	

Software Issues Resolved in Release 15.3.3

Area	Issues	ID	Case ID
Menu: K-Frame XP	Wipes & Mattes > Patterns Menu can benon-responsive. **WORKAROUND:** Select ME 1-4 and PGM/PST point of use on menu, then usethe menu normally.	KFCK-26587	00797335

Software Issues Resolved in Release 15.3.2

Area	Issues	ID	Case ID
Devices: K-Frame XP	Switcher is not communicating with AvidFast Serve DDR's via VDCP Ethernet.	KFCK-26121	00784289
PTP: K-Frame XP	Management response packet causesproblems on other interfaces. Response Packet size may beinvalid.	KFCK-26022	00780982
Editor Interface: K-Frame XP	Editor interface doesn't work.	KFCK-26143	00790328

Software Issues Resolved in Release 15.3.1

Area	Issues	ID	Case ID
IS-04 & IS-05: K-Frame XP	NMOS control redundancy doesn't workcorrectly.	KFCK-26138	00788449
IS-04 & IS-05: K-Frame XP	NMOS communications disconnectsfrom server in some configurationsusing static routes.	KFCK-26131	00780988
IP IO Boards: K-Frame XP	The Switcher rejects SDP files and audiowith a=ptime:0.12 instead of a=prime:0.0125 (As done by LAWO control systems)	KFCK-26132	
IP IO Boards: K-Frame XP	2110-30 Audio is distorted in some configurations.	KFCK-26126	00785650
IS-04 & IS-05: K-Frame XP	Need Static Routes for fail over connection to Global Registry. (Need change to Eng Setup > Node Settings > NMOS Configurations)	Enhancement	00770425
Image Store: K-Frame XP	Four channels of Audio now works correctly. Record/Play Import &Export	Enhancement	

Software Issues Resolved in Release 15.3.0

Area	Issues	ID	Case ID
Frame Simulator: K-Frame XP	Default I/O Boards in K-Frame XP Frame Simulator are wrong.	KFCK-26025	
GearBox IO Board: K-Frame XP	Timing Analyzer is sometimes getting information from the wrong GearBox Inputs.	KFCK-26034	
Image Store: K-Frame XP	Movies in 2160p will save as .EIF files if they have been edited. It appears that if you trim the front and back of a movie thatit will save with a .EIF extension rather than a .ISF. This doesn't cause a problem for the K- Frame XP but may cause a problem for theother K-Frame systems.	KFCK-26036	
Image Store: K-Frame XP	Image Store – Loading stills and movies of one resolution while FOM is a different resolution may corrupt thecache.	KFCK-25912	

Software Issues Resolved in Release 15.3.0 *continued...*

Area	Issues	ID	Case ID
Image Store: K-Frame XP	Image Store Loading ID's is loadinglower in some circumstances.	KFCK-25520	
Input Timing: K-Frame XP	The Input Timing Analyzer is not alwayscorrect for some IO Boards.	KFCK-25922	
IP I/O Boards: K-Frame XP	Redundant Audio is not working whenroute is made from NMOS.	KFCK-26032	
IP I/O Boards: K-Frame XP	Ethernet Ports reporting Link/Lock Upwhen no SFP connected.	KFCK-26035	
Frame Simulator: K-Frame XP	Default I/O Boards in K-Frame XP Frame Simulator are wrong.	KFCK-26025	
GearBox IO Board: K-Frame XP	Timing Analyzer is sometimes getting information from the wrong GearBox Inputs.	KFCK-26034	
IP I/O Boards: K-Frame XP	Changing Audio Stream Format doesn'talways change "A" side.	KFCK-26027	
IP I/O Boards: K-Frame XP	B Side IP Audio occasionally hadconfiguration issues.	KFCK-26029	
IP I/O Boards: K-Frame XP	Payload Type for Audio goes to "98"when you use "dot enter"	KFCK-26026	
IP I/O Boards Menu: K-Frame XP	8x4 IP I/O Boards do not show System Input/Output names in I/O Config Menu	KFCK-26031	
IP I/O Boards Configuration: K-Frame XP	"Restore Defaults" on Port Config SFPsmenu can cause a loss of input video until the frame is reset.	KFCK-25924	
IP Video: KFrame XP	When GVO and/or Cisco Switches pingthe Media LAN of XP Switcher it is inconsistent and pings may fail to Connect.	KFCK-25989	
IS-04/IS-05: K-Frame XP	IP node has duplicated NMOS Node IDs that can be caused by swapping boards.	KFCK-26001	
Multiviewer:K-Frame XP	There may be a dark flash at the top ofthe multiviewer video when Tally or Tilesare updated.	KFCK-25922	
SNMP: K-Frame XP	Default IP Addresses and Community nameare not correct for SNMP values for the frame.	KFCK-9209	
System: K-Frame XP	System may erroneously report PowerSupply status as present but Failed.	KFCK-26038	
System: K-Frame XP	ME and Aux timing isn't always being setcorrectly on Power Cycle.	KFCK-26028	
System Timing: K-Frame XP	H&V Phase calcs don't recalculate after2160p FOM change.	KFCK-26039	
Timing Analyzer: K-Frame XP	The Indications for the 2160p inputvideo are incorrect.	KFCK-25910	
Timing Analyzer: K-Frame XP	Timing Analyzer green bar is calculating status wrong for uSec adjustments atedge of timing.	KFCK-26030	
Timing Analyzer: K-Frame XP	Timing Analyzer occasionally displayingthe wrong information.	KFCK-26040	

Software Issues Resolved in Release 15.2.0

<INTERNAL RELEASE>

Software Issues Resolved in Release 15.1.1

Area	Issues	ID	Case ID
2DPM	Moving 2DPM off-screen or shrinking to zero size should not tally as on-air.	KFCK-25527	
IP I/O Board: K-Frame XP	Modify Stream Health Monitoring to Log changes between Stream Present / NotPresent.	Enhancement	
IP I/O Board: K-Frame XP	If the I/O card sees a DHCP message, it may zero out some IP configuration data,stopping the video stream Present / Not Present.	KFCK-25951	
IP I/O Board: K-Frame XP	SFP may occasionally drop link in 4 x 2 mode causing the output stream to belost.	KFCK-25552	00761912

Software Issues Resolved in Release 15.1.0

Area	Issues	ID	Case ID
Camera Tally: K-Frame XP	Camera Tally via XML Camera Protocol may not work for cameras without a basestation or CCU. (This includes the LDX 100)	KFCK-24271	00723412
E-MEM: K-Frame XP	The frame is giving next register instead of the next empty register to LEARN DOT. command for some register ranges.	KFCK-25911	
E-MEM & Timeline Menu	E-MEM & Timeline > Timeline Edit > E-MEM enables Keyers 5 and 6 Not Visible.	KFCK-25926	
Frame Operating Mode: K-Frame XP	1080p23.98, 2160p23.98, 1080p29.97, or 2160p29.97 may not be configuredcorrectly on boot.	KFCK-25533	
IP I/O Board: K-Frame XP	Added Output Gearbox functionality (1080p <> 2160p)	Enhancement	
IS-04 & IS-05: K-Frame XP	Need the ability to configure the Node JARVersion to V1.2 instead of V1.3 in the console.	Enhancement	
Multiviewer & ME View: K-Frame XP	Need Multiviewer and ME View Features enabled.	Enhancement	
Panel Memory: K-Frame XP	Panel Memory is not always being recalled from disk correctly in show loads orindividually.	KFCK-25923	
Signal Integrity:K-Frame XP	Occasional minor bit errors on some signalpaths.	KFCK-25914	

Known Issues

Area	Issues	ID	Case ID
Clip Store	Using a Macro to stop a ClipStore recordingleaves the channel in record mode. Stoppingthe recording by pressing the menu Stop button works correctly. Workaround: Do not use Macros to stop arecording or if you do, toggle the RecordEnable button to get back into play mode.	KFCK-9060	
Control Panel	On a few systems, when the Control Panel is reset, the video may perform a transition and the video may randomly cut to what ison the preview bus.	KFCK-21481	00604179
Device Control	Devices at frame rates slower than 25Hz maynot be controlled correctly.	KFCK-25543	
Device Control	Sometimes after a reset of the frame, noneof the devices (except the ClipStore) are enabled in suite 2. They can be enabled manually.	KFCK-24235	
DPM: K-Frame XP	iDPM with narrow borders, borders may disappear at certain edge rotations: WORKAROUND: Slightly increase the sizeof the border.	KFCK-26042	
E-MEM	Circular sequencing of registers is not supported.	KFCK-9965	
Editor Interface	The first time an Editor Port is assigned, enabled and connected, it may not start correctly. WORKAROUND: If the Editor Port is configured to the desired state and does notwork the first time, reset the Frame and Menu and enter the Editor Port configurations a second time.	KFCK-21673	
Format Conversion: K-Frame XP	When FOM 2160p and using the output to adjust the vertical offset of 2160p it doesn't work in the positive direction. FOM 2160 conversion to other frame rates vertical offset works correctly.	KFCK-26041	
GV Korona Control Panel	User Setup > Panel Prefs > Panel User Interactions > OLED brightness soft knob adjustment is not linear. If you are at 100% and take the brightness to 10%, youdon't see the change until you turn the knob up again.	KFCK-19507	
GV KoronaMenu	GV Korona menu brightness doesn't work inUser Setups > Panel Prefs > Panel User Interactions. WORKAROUND: Set the menu brightnessusing Windows adjustments.	KFCK-19509	
Hot Swap	During the hot swap of a Frame board, if another board is removed and replaced, the removal of the second board is not detected.WORKAROUND: Wait ten seconds betweenhot swapping boards.	KFCK-17208	
Image Store	After recording a movie, the blue progress bar may be blank until the movie is saved tocache.	KFCK-18178	

Known Issues *continued...*

Area	Issues	ID	Case ID
IO Config Menu:	If the menu application is started before the frame, the Eng Setup > Video I/O > I/O Config Menu may occasionally come up blank. The menu application must be restarted for the I/O Config menu to work correctly.	KFCK-26839	
IP I/O Board	Hot swap of IP I/O board may affect adjacentIP I/O Board.	KFCK-25542	
IP I/O Board	It takes over 30 seconds to change SFP Speed on IP cards; it will flash twice after thechange is made.	KFCK-25182	
IP I/O Board: GV K-Frame X GV K-Frame V	On some occasions, the IP i/O board may take as long as six minutes to power up froma complete powered off state.	KFCK-24378	
IP I/O Board: GV K-Frame X	On rare occasion with some Cisco networkswitches with QSFP, after a boot, the input video may be pink or green. WORKAROUND: Reset the QSFP in the Cisco network switch.	KFCK-24858	
Karrera Control Panel	DPOP of USER buttons does not work if SplitME and PRI/SEC are selected.	KFCK-9332	
Karrera Control Panel Memory	Panel Memory on the Karrera does not record the page offsets of the Macro Mode inthe Local E-MEM section.	KFCK-8249	
Kayenne Control Panel/Machine	Machine Control Module only works fromSuite 1 Surface A and/or Suite 2 Surface A.	KFCK-9933 /DE364	
Machine Control	Enabled devices that are not connected, willcontinue to try and connect which can cause menu slow-downs. WORKAROUND: Disable unused devices.	KFCK-9101 /DE1228	
Macro Edit/Build	Starting to edit or saving a macro may bedelayed during a file operation in either suite.	KFCK-8505 /DE1831	00487254
Media PortInput	Media Port on 8x4 SDI board detects 1080iwhen no video is connected.	KFCK-25170	
Menu Software Installation	Immediately after the installation of new software, the Status Menu reports the previous version of the software even after asuccessful update. WORKAROUND: Restarting the Menucorrects the issue.	KFCK-19611	
Node Settings	Joy Stick Override mapped to "None" stillselects source.	KFCK-9953/DE344	
Panel:	Panel Frame TCP connection may not always notify user if Ethernet is disconnected. Communications will recover when Ethernet cable is reconnected.	KFCK-26841	
PTP: K-Frame X	Loss of the PTP messages might not bereported since the Flywheel Reference onthe PTP Board is providing a valid reference that had been synchronous with the PTP Master Clock.	KFCK-25181	
System Timing	Sometimes internal sources are incorrectly reported as out of time.	KFCK-24868	00695116
Timing Analyzer	Color visual indicator missing onRedundant inputs.	KFCK-25545	

Contact Us

Grass Valley Technical Support

For technical assistance, contact our international support center, at
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To obtain a local phone number for the support center nearest you, please consult the
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An online form for e-mail contact is also available from the website.

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