



# LWKS

## Lightworks 2021.1 Release Notes

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# New Features and Fixes in Version 2021.1

This section summarizes the fixes, enhancements, and features that have been implemented in this release of Lightworks.

## Cross Platform New Features and Fixes

This section describes the cross-platform new features and fixes contained in this release.

### New Features:

- Projects created in Lightworks no longer require a frame rate to be selected during project creation. This allows for any frame rate content to be imported to a project and played back, logged and added to a sequence seamlessly, including:
  - All content is played at its natural rate regardless of media frame rate.
  - Import 23.98fps, 24fps, 25fps, 29.97fps, 30fps, 50fps, 60fps, 120fps, and 240fps media into the same project
  - The video output format is now set per sequence instead of on the project card
  - Copies of a sequence can be made for different output frame rates if required
- Added a sequence output format option
  - Removed the project output format option
  - Each sequence has its own output format. This can be viewed/changed by right-clicking on a sequence and amending the 'Playback format'
  - Clips always play back at their native Rate/Size/Shape
  - Thumbnails in a bin are always shown with the correct aspect-ratio/shape, but within a 16:9 frame
- Asset Associations now allow for sequences, clips, subclips, documents, and to be linked together by loading an asset into the source viewer and selecting the "Associates" tab:
  - Drag and drop an asset from a bin to the 'User' sub-tab to associate them together
  - View associations in thumbnail or list views
  - View subclips associated with the clip loaded above within the viewer on the "Subclips" sub-tab
  - View sequences that include the loaded clip within the viewer on the "References" sub-tab
  - View constituent clips from a sequence loaded within the viewer on the "References" sub-tab
- Added ability to define sequence custom output aspect ratios (Lightworks Pro Only)
- Added "Square" and "Portrait" sequence output formats for social media
- Added resolution preservation. There is no pre-sizing of clips, so the full detail of the sources is available throughout the effects chain (and only the final output is scaled down)
- Added markers and documents to XML/JSON exports
- Added ability to show which storage space a file is in
- Added support on the Search panel for 'starts-with', 'ends-with', 'contains', 'equals', 'less-than', 'greater-than', 'doesn't contain', and 'doesn't equal'
- Added ability to use the UNC media path when dragging and dropping files Video Analysis sub-tab
- Added new user interface changes throughout the application
- Added some new icons throughout the application
- Added more configuration options for configuring the user interface within the "Appearance" panel
  - Global, Font, Panels, Flexible layout, Menus, Popups, Buttons and Tables
- Added ability to be able to export to 'H.264/MP4' using a custom output format (Lightworks Pro Only)
- Added ability to be able to export to 'MOV', 'MXF' and 'AVI' using a custom output format (Lightworks Pro Only)
- Added better clarification for export names (Changed '4k' to 'UHD 4k')
- Added further improvements to popup panels within the user interface
- Added format dimensions tooltips to the export panel list
- Added Korean Wording translations to the installers
- Added Vietnamese Wording translations to the installers
- Added the ability to be able to configure the default colour used for markers
- Added 'Frames' display option for elapsed/marked durations (in addition to 'Film frames')
- Added ability to show the 'Rate' of an audio only file on the import panel
- Added 'Colour' to CSV export of Cue Markers
- Added 'DCI 4k' (4096x2160) 19:10 as an output option for 4K media
- Added the ability to adjust timeline segment colours (within the sequence timeline 'Settings' panel)
- Added option on the 'System Settings' panel for choosing how to output source media to the hardware I/O
- Added further icon improvements to the user interface
- Added maximum codec supported bitrates to the H.264/MP4 compression panel on export

- Added ability to show what the image was on an offline media file
- Added ability for the 'Associates > Constituents' including subclips if the sequence refers to them
- Added ability for sequence 'constituents' to show marked regions corresponding to the portion that's in use
- Added the ability to change the frame rate on an EDL when dragging and dropping into the application
- Added the ability to change the frame rate on image sequences when dragging and dropping into the application
- Added the ability to change the frame rate on Audio Only files when dragging and dropping into the application
- Added a panel when creating a sequence from a bin for choosing the sequence frame-rate (when the proposed constituent clips don't share the same frame-rate)
- Added ability to display BITC information for Subclip/Sync metadata on sequences
- Added improvements to proxy generation from 4k and higher media when using 'Same as source'
- Added improvements to proxies generated from H.265/HEVC media
- Added tooltips to enabled BITC overlay labels on the viewer
- Added improvements for H.265/HEVC decoding and playback
- Improved the way users select the RED R3D Decode options on the project card
- Improved DVEs (2D and 3D) positioning when switching to a different sequence output format
- Updated the subsequent sign in panel text and image
- Updated the labels panel (no more 24-frame generations)
- Updated the timecode calculator
- Restored the frame rate selection for audio only files (timecodes adjust accordingly)
- Changed to double-size icons when user interface scale is greater than 100%
- Changed DPX export from 8-bit to 10-bit (better support with other applications)
- Resized the project card to accommodate the contents
- Restored the behaviour of showing black at the end of a sequence
- Relaxed restrictions on custom format widths (1080x1920 is now possible)
- Removed invalid export options appearing within the Free version export list
- Removed '???' and 'Passthrough' on enabled BITC labels
- Removed 'Audio rate' column header within Bins
- Removed obsolete columns from the content manager ('pulldown', '24p timecode', '24p reel')
- Removed '24P' and '24P Reel' labels from the BITC label selection
- Removed '24P' from the Sync tool label selection
- Removed '24P' from the Kemroll label selection
- Removed '24P' from the 'Find Material' label selection
- Removed video related information from audio-only tile tooltips (Flexible layout only)
- Removed Main Concept debug messages on the export tasks panel
- Removed midi device detection at application startup to help prevent startup failures
  - If you have a Mackie, you will require the config "midi 1" added to the config.dat
- 'Web' export options are now visible by default in the export list
- Clip cues in sequences are now shown in blue (unless they had their colours explicitly assigned, in which case the user-chosen colours will be used, albeit slightly greyed out)

#### Fixes:

- Fixed unlikely crash when two threads attempt to open the same edit simultaneously
- Fixed all values in each field not being selected by default when adding markers with icons/buttons
- Fixed AudioNetwork and Pond5 table-view appearance
- Fixed crash adding a keyframe while holding down SHIFT after deleting keyframes
- Fixed handling of dead keys and diacritics on European keyboards
- Fixed French keyboard handling issues
- Fixed YouTube uploads failing immediately after export/render
- Fixed 'Read Only' access on a media space not showing
- Fixed 'Orientation' display for non-rotatable clips
- Fixed issue with invalid JSON characters in CPUInfo for licensing
- Fixed potential crash when switching tabs while playing back
- Fixed potential crash loading an Image Sequence with DPX and JPG images
- Fixed audio only files not displaying in a bin when in Full Screen mode
- Fixed local file upload Tasks/Recent displaying all uploads as 'failed'
- Fixed project Details box closing when rolling over Tasks/Active
- Fixed BITC not respecting line breaks in multi line text
- Fixed imported WAV files causing a hang during waveform generation
- Fixed FCP7 XML exports failing if the sequence contains an audio only clip

- Fixed duplicate project being created when re-opening a project
- Fixed Custom Marker metadata showing up incorrectly or not at all
- Fixed automatic marker name generation
- Fixed potential crash opening a project with BITC enabled
- Fixed Metadata tab showing Marker name Marker highlighting
- The media-date for subclips is now shown
- Prevented showing BITC in timeline thumbnails (it was appearing when there were effects present)
- Restored search-pattern highlighting in the Name column
- Fixed H.264/MP4 Free option not being available in the Free version
- Fixed only a single channel of audio playing in a sequence/clip that should have two
- Fixed missing hyperlink on the import panel for already imported media
- Fixed inability to enter a decimal point on the Project Card->Video Output->Letterbox Panel
- Fixed the sequence output-format list showing the wrong set of formats
- Fixed incorrect option 'WAV (PRO)' appearing to be enabled in the free version
- Fixed audio only clips incorrectly showing a 'Video format' and 'Aspect ratio' within Bins
- Fixed table-view bin columns from earlier versions of Lightworks not fully being respected
- Fixed auto-rotated images showing incorrectly after applying a title effect
- Fixed inability to manually position tiles in a Bin
- Fixed RED R3D clip decode settings not working correctly
- Fixed EDL exports having no shot timecode in them
- Fixed several Image Sequence file type format options failing immediately
- Fixed potential hang converting projects from earlier versions to new
- Syncs now inherit the 'Video Format' from the Video clip (not the audio)
- Fixed incorrect Export/Render preview of a sequence set to 'Portrait'
- Fixed global brightness not being respected correctly in User Appearance settings
- Fixed Content Manager icons not being correctly placed when set to 'Rounded corners' in the Appearance panel
- Fixed nothing showing on the YCrCb tab of the Video Tools panel for some custom output formats
- Fixed missing symbol on multi-cam bins (Flexible layout only)
- Fixed the Shark no longer swimming back to its preset position (Flexible layout only)
- Fixed the batch import panel not always allowing 'content' to be edited
- Fixed Image on an Image Key effect being squashed when switching to the 'Square' sequence output
- Fixed inability to modify a clip's timecode correctly
- Fixed potential crash typing timecode into the sequence timecode label
- Fixed minimum size for the import panel (Flexible layout only)
- Fixed AAF export failure on MXFs that do not contain a 'Master MOB'
- Fixed JPEG import and export failing if the folder contains non-ascii characters
- Fixed images on the import panel having an adjustable frame-rate (when it should be empty)
- Fixed manually entered effects parameter values being constrained when they shouldn't be
- Fixed the fullscreen preview window not always appearing with dual screen setups
- Fixed potential crash clicking on a sequence imported from an AAF containing audio only clips
- Fixed DisplayAsLiteral" not being respected for effect parameters if they have a range of 0..100
- Fixed potential crash attempting to browse wallpaper locations
- Fixed blend function of the 2D DVE
- Fixed table-view bin columns not being restored correctly
- Fixed sequence output-formats being incorrect in shared projects that were restored from archives
- Fixed inability to load a sequence that contains more than 24 Video tracks when you re-enter the project
- Fixed inability to use default wallpaper with monitors larger than 2048x1536
- Fixed EDL's not showing the sequence timecodes
- Fixed incorrect title effects over black for interlaced output formats
- Fixed long sequence names hiding the viewer close icon
- Fixed timeline segments moved with the mouse getting shorter
- Fixed incorrect position of title effect on sequence thumbnails
- Fixed issues with jumping past Cue Markers
- Fixed Image-key effects displaying incorrectly
- Fixed rendered dissolves showing as one frame short
- Restored archive names correctly in shared project spaces
- Fixed H.264/MP4 export tasks having the wrong format description in the Task log (Free version only)
- Fixed fast Blur being incorrect when applied to progressive sources
- Fixed Broadcast WAV frame rates being ignored (BWAVS are now assigned the correct frame-rate and matching timecode)

- Fixed video frame rate on imported files being editable in shared project spaces
- Fixed inline effect being lost when deactivating a highlighted clip on a timeline with multiple V tracks
- Fixed tooltips in new projects not being aligned correctly
- Fixed 'Marked section' exports being one frame too long
- Fixed Prints made from a sequence not being given a unique name
- Fixed calculation of positions on Film media (All film-related labels will now display the correct values)
- Fixed incorrect waveform being displayed when copying an audio track from one to another
- Fixed image changing size during playback on 4K MXFs (reimport is necessary)
- Fixed clips potentially showing a green frame when clicked on
- Fixed potential crash rendering thumbnail images
- Fixed crash dragging and dropping a file into the open import panel
- Fixed the on-screen console looking wrong when rounded-corners are enabled for buttons
- Fixed imported images losing shape in transition take 2 push effect (only affected 'push left' and 'push down')
- Fixed small horizontal black bars appearing at the top and bottom of media during playback
- Fixed MXF exports showing a freeze frame for the first minute or so of the completed file
- Fixed incorrect audio at the end of MXF exports
- Fixed 1080p 24fps Bluray exports failing immediately regardless of compression option
- Fixed hardware output not showing an image when clicking through multiple clips in a bin
- Fixed video image narrowing slightly during playback of a clip in a source viewer
- Fixed user defined export presets not being remembered correctly
- Fixed Solo button on Audio Mixer no longer glowing red
- Fixed no audio playing on the hardware output when playing an audio only file
- Fixed incorrect name suffix for sequences created from a clip
- Fixed various export options being the incorrect length when reimporting back into the project
- Fixed the 'replace with' menu for transitions not respecting subcategories
- Fixed missing shortcut functionality (Holding down k and tapping J or L to frame step)
- Fixed incorrect image on Source/Sequence/Tiles when playback is stopped if Letterboxing is enabled
- Fixed some pieces of text not updating until the app is restarted if the app language is changed
- Fixed incorrect name showing on "Audio Network" tracks when set to 'Tiles' view (Flexible Layout)
- Fixed 'Frame based origin' field in a List view bin not working
- Fixed export presets still not being remembered correctly
- Fixed inability to enter out-of-bounds parameter values on the keyframe graphs panel
- Fixed incorrect frame duration counts and film-label counts
- Fixed the Clipboard (tile) not updating after removing a section from a sequence
- Fixed 'Rounded corners' appearing twice under the 'Appearance->Panels' heading
- Fixed potential error attempting to purchase music from 'Amazing Music Tracks'
- Fixed the BITC field 'Top level subclip name' not working
- Fixed sequence BITC label disappearing when not being played
- Fixed sequence 'versions' association containing clips
- Fixed the incorrect sorting order on projects
- Fixed various issues with Change Lists
- Fixed HEVC/H.265 media appearing black
- Fixed BITC check boxes shifting position slightly when ticking and unticking
- Fixed incorrect background image when applying titles
- Fixed potential crash aborting an in progress export
- Fixed issues with the length of WAV exports/imports
- Fixed two popup marker panels appearing when adding a marker via the keyboard
- Fixed thumbnail images are still cached and showing in bins when media is offline
- Fixed compression slider on the H.264/MP4 export option only moving one way with the mouse wheel
- Fixed Live Editing with multicam bins inserting media at the incorrect position in the sequence
- Fixed Custom Format details not being included in sequence archives
- Fixed potential crash when attempting to generate proxies using 'Same as source'
- Fixed unarchiving the same sequence multiple times causing duplicates to appear in the sequences filter
- Fixed rendering of a marked section on a 720p sequence timeline results in black bars either side of the image
- Fixed proxy file still showing as present when creation was cancelled
- Fixed potential hang during live editing
- Fixed the 'close' icon not being visible on marker popups
- Fixed incorrect background input with 2D DVE effect
- Fixed incorrect audio 'fade out' when playing a sequence containing a Sync which has been trimmed beyond its limits

- Fixed sequences created from portrait or square media being assigned 16:9 output formats
- Fixed missing clip Names, Timecodes and Frame rates on XML imports
- Fixed failure to generate the sequence from an XML import
- Fixed slow appearance of titling fonts list
- Video scopes now show the expected analyses when first opened
- Fixed 'Sequence' related BITC becoming orphaned when adding a video track to the sequence
- Fixed crash double clicking on a clip tile under 'Associates->Constituents' tab of a Sync
- Fixed missing Marker shortcut key (m) in the Lightworks Keyboard prefs file (Lightworks keyboard prefs file will need reloading)
- Fixed missing 'clip name' BITC option showing as '???' when loading a layout
- Fixed scroll bars not working correctly on the Filecard->BITC tab
- Fixed missing sequence on XML import
- Fixed Bin thumbnail images not respecting the "link tiles to viewers" setting when dragging and dropping tiles to record viewers
- Fixed incorrect checkbox text colour on hints (if the default popup text colour is changed)
- Fixed regression in previous beta causing incorrect MXF anamorphic aspect ratios
- Fixed invalid CineForm proxies being generated for some formats
- Fixed errors/issues generating Cineform proxy/transcodes
- Fixed failure rendering/exporting to AVC-Intra
- Fixed BITC overlays flashing incorrectly when frame stepping
- Fixed decimated decode of Blackmagic Raw clips looking incorrect
- Fixed logging of clip timecodes from Blackmagic Raw files
- Fixed potential crash opening the Batch Import panel
- Fixed incorrect black bars surrounding the proxy image
- Fixed crash exporting an AAF from a sequence with embedded audio
- Fixed Mark/Park render on an unfolded effect is not working correctly
- Fixed vertical artefacts appearing in exported files with some graphics cards
- Fixed potential crash opening the video routing panel
- Fixed failure to export to H.264/MP4 for some frame rates
- Fixed potential crash browsing to a folder containing WAV media
- Fixed the 'Move to' menu item appearing truncated in some scenarios
- Fixed the colour wheel on the colour picker not always updating correctly
- Fixed incorrect image size when exporting a sequence as 'Square' H.264/MP4
- Fixed hard to see colour swatches if the selected colour has transparency
- Fixed pinned menu panels appearing partially offscreen
- Fixed frame rate list not showing as inactive if there's no choice
- Fixed sequence copy panel not disappearing if the source is a bin (as opposed to a filter)
- Fixed Bin next/previous tile shortcut causing the sequence record status to get lost
- Fixed sequence copy panel so that it can no longer be resized
- Fixed potential crash opening the voice over tool with Blackmagic hardware enabled
- Fixed 'Next Bin Tile' shortcut not work correctly
- Fixed appearance and visibility of the Mark/Park area on tiles
- Fixed upscaling media to the sequence output format when multiple FX are present
- Fixed bin tile not showing the correct frame after dragging a tile back to a bin
- Fixed incorrect behaviour moving items from one bin to another if the target bin is visible in two content manager windows
- Fixed incorrect In and Out markers when opening a clip from the Associates->Constituents panel in a source viewer
- Fixed Trimming and clip selection being possible when clicking within the 'Advanced' section of the sequence timeline
- Fixed Bin names not updating when viewing group constituents (and then one of them is renamed)
- Fixed "Make copy" icon on sequence viewers not highlighting the tile in the content manager afterwards
- Fixed issues setting the frame rate on many audio only files on the import panel
- Fixed deleted bins still showing in panel titles
- Fixed appearance of the 'move to' menu item
- Fixed issues with custom metadata search: Number
- Fixed empty item in the timeline shot texts list
- Fixed issues with proxies created from H.265/HEVC media
- Fixed VOB files no longer importing correctly
- Fixed export options showing an incorrect list of items that are available
- Fixed incorrect 2D DVE effect if the background input is not connected

- Fixed ranged markers not being adjusted correctly following speed changes
- Fixed ranged marker in/out positions sometimes being ignored when jumping back/forwards
- Fixed sequences made from upside-down progressive sources being assigned an interlaced output format
- Fixed incorrect aspect ratio on some H.264/MP4 exports
- Fixed potential hang frame stepping at the end of some sample media
- Fixed potential crash browsing to an import location containing video only files
- Fixed newly created bins showing as missing when created within a Group
- Fixed viewer slightly growing after exiting trim-view if letterboxing is enabled (Flexible layout)

## Windows New Features and Fixes

This section describes the Windows new features and fixes contained in this release.

### New Features:

- Added correct support for languages that support character composition (ie, Korean)
- Improved performance with Apple ProRes decoding
- Improved the installation procedure
- Removed the option for setting the machine number during installation

### Fixes:

- Fixed potential hang moving the mouse to the top of the screen when in fullscreen playback
- Fixed failures launching the application on Windows 7 and 8.1
- Fixed an error regarding the 'VFWcodecs' when starting Lightworks (installer issue)
- Fixed potential crash/failure launching Boris plugins
- Fixed images turning upside down after adding a Boris effect
- Fixed crash selecting the 'MXF' option on the Export and Transcode panels
- Fixed potential crash with Boris plugins with a tile and a viewer drawing stills simultaneously
- Fixed some keys on non-UK keyboards not triggering key assignments on the first press
- Fixed Alt key not working when combined with a dead key with keyboard shortcuts
- Fixed AltGr key not working at all with keyboard shortcuts
- Fixed automatically rotated .MOV files appearing upside down in the sequence viewer when applying a Boris effect

## Linux New Features and Fixes

This section describes the Linux new features and fixes contained in this release.

### New Features:

- Improved performance with Apple ProRes decoding

### Fixes:

- Fixed icons not appearing if the UI scale is set to 2.0
- Fixed potential crash browsing media locations containing lots of assets
- Fixed potential crash exiting the application
- Fixed potential hang clicking on a clip tile

## macOS New Features and Fixes

This section describes the macOS new features and fixes contained in this release.

### New Features:

- Added support for macOS version 11.0 (Big Sur)

- Added correct support for languages that support character composition (ie, Korean)
- Added keyboard preference for hiding the application (CMD+H)

#### Fixes:

- Fixed potential crash browsing for media within 'Local files'
- Fixed inability to load Mac 'Resources' location
- Fixed Project thumbnail images showing as black
- Fixed images turning upside down after adding a Boris effect
- Fixed transparent areas within the viewer showing as white/grey when they should be black
- Fixed potential crash with Boris plugins with a tile and a viewer drawing stills simultaneously
- Fixed appearance of some low-resolution icons with 4K screens
- Fixed potential crash browsing media locations containing lots of assets
- Fixed potential hang clicking on a clip tile
- Fixed inability to enter the '@' symbol using Alt key on non-UK keyboards
- Fixed automatically rotated .MOV files appearing upside down in the sequence viewer when applying a Boris effect

## Limitations and Known Problems in Version 2021.1

This section describes the limitations and known problems contained in this release.

### Cross Platform

- Some proxy images may have incorrect black bars surrounding the image
- Some proxy files generated from H.265/HEVC media may be incorrect
- Issues generating proxy files from 4k media with codecs other than H.264
- Contour ShuttlePROs will not work unless you duplicate the 'Lightworks' settings in their app and then point it at the new 2021.1 release
- Prints containing multiple V tracks and DVEs used will not display correctly in a sequence
- DVEs may change position when switching to a different sequence output
- MXF, AVI and MOV export options have an incorrect mix of PAL and NTSC options
- H.264/MP4 exports at 23.98fps show the audio sync is half a frame out
- PAL/NTSC source files thumbnails/viewers may not play out on the hardware I/O
- Freeze frames, in sequences exported to AAF, are ignored in Adobe Premiere (XML works).
- Proxy files are not created for files shorter than one second in length, when set to H.264.
- A crash may occur when attempting to export an image sequence from a sequence containing 16-bit DPX files.
- After removing a media space, with the import panel open, Media may appear offline.
- Some MTS files show pixelation on the start frames.
- The Video Analysis tool appears through the FX configuration panel when configuring a color correction effect.
- The Audio Monitor Delay setting is not accounted for during export.
- AVID DNxHD 10bit encode is not possible.
- There is no support for importing .WMV files.
- Make sure all applications are closed before attempting to install Lightworks.
- The ability to transcode 1080p 60fps files on import to AVID DNxHD, is not supported.
- Blu-ray VC1 export does not generate a valid file, instead it imports back as Sound only.
- Audio on exported AVCHD files cannot be played by Windows Media Player. The audio is muted.

### Windows 64-bit

- There is no QuickTime Movie/MPEG4 import/export via Apple SDK.
- After Effects plug-ins are not supported.

### Linux 64-bit

- Debian Distros:
  - Ubuntu/Lubuntu/Xubuntu 20.04 and higher



- Mint 17 and higher
- RPM Distros:
  - Fedora 30 and higher
- Fedora is only supported when enabling Xorg. There is no support for Wayland (default) currently.
- Fedora installs fail if using Mesa drivers.
- There is no QuickTime Movie/MPEG4 export option.
- There is no .WMV import.
- ATI and Nvidia cards are supported. LWKS Software LTD recommends Nvidia for the best performance.
- There is no FX plug-in support.
- Do not use linux default GFX driver. If you experience the viewer playing at a reduced size then the Linux default graphics driver is installed. Make sure the Nvidia driver is loaded and that the system is restarted.

## Mac OS 10.9 and Higher

- Potential loss of output clicking the voice over icon on a sequence with AJA hardware enabled
- Any users running Macbook Pro systems MUST disable 'Automatic graphics switching' under 'Energy Saver' in 'System Preferences'.
- Lightworks supports all OSX versions from 10.9 (Mavericks) onwards
- There is no H.264 MOV export.
- There is no QuickTime/MPEG4 export option.
- There is no Apple ProRes 4444 export option.
- There is no support for Matrox I/O hardware.
- The shared project feature is not currently operable.
- Video overlay may change brightness on playback when running dual monitor setups.
- MTS Playback may be poor.

## Matrox Hardware I/O

- If your system is not fast enough or does not have sufficient memory, the captures using MXO2 will stop with a 'dropped-frame' message.
- If the drives you are recording to are not fast enough the captures using MXO2 will stop with a 'dropped-frame' message.

## Blackmagic Hardware I/O

- Input or Output only devices cannot be used. Lightworks requires both an Input and an Output to be present on the device.
- USB 3.0 devices may not work correctly on a Mac running Windows Bootcamp.
- Audio monitor level control has no effect on Blackmagic recordings.
- You will not be able to view video on the Blackmagic output if Precision is set to 10-bit. Change setting to 8-bit .
- You will not be able to view video from Boris Red via the Blackmagic Output when Lightworks is running.
- SDI Output does not playback smoothly if a title has been applied to the material.

## AJA Hardware I/O

- Audio monitor level control has no effect on AJA recording.
- There is no E-E when using the KONA LHi during recording.
- If your system is not fast enough or does not have enough memory, the captures using AJA devices will stop with a 'dropped-frame message'.
- If the drives you are recording to are not fast enough, the captures using AJA devices will stop with a 'dropped-frame' message.
- AJA/BMD SDI Output does not playback smoothly if a title has been applied to the clip.
- On Kona 3G SDI 2 output must be used with Windows 64bit.

## Troubleshooting

If you experience an issue with your Lightworks installation, or something is not working as expected, visit our FAQ page at <http://www.lwks.com/fag> where you can type in a question relating to the issue and view the search results. If you do not find an answer to your question, you can refer to the Lightworks forums at <http://www.lwks.com/forum>.

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