



Lightworks 2020.1

Release Notes

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Introduction

This document summarizes updates, enhancements, and fixes for release of Lightworks.

New Features and Fixes in Version 2020.1

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

The following new cross platform features are in this release.

- AJA SDK, which helps with some AJA devices, has been updated.
- Ability to change the audio playback rate of audio only clips to 29.97 or 30 in a 30fps project has been added.
- “Libraries” heading added to the Content Manager.
 - Moved Local files import option under the Libraries heading.
 - Moved Audio Network import option under the Libraries heading.
 - Moved Pond5 import option under the Libraries heading.
- Improvements to Audio Network integration.
 - Media can now be imported into a project.
 - Media can now be used in a sequence.
 - Export is prevented if the sequence contains non purchased media.
- Ability to handle still images correctly.
 - New “Images” filter added.
 - Images now import at the correct scale ratio rather than being scaled to the output format.
 - Added ability to drag an image into the sequence viewer or timeline.
 - Removed pagination on search results.
- Improvements to varispeed in Flexible layout.
 - Segment right-click 'Speed' menu item added.
 - 'Show segments speeds' option on the timeline appearance panel (to restore per-track speed widgets).
 - Removed per-track speed button by default.
- Ability to detect rotated phone footage and rotate it to the correct orientation automatically has been added.
- Ability to delete all V-tracks from a sequence at once has been added.
- HD overlay to the vectorscope has been added.

- Support for browsing "Amazing Music Tracks" from within "Libraries" has been added.
- New enhancements for Tile view bins (text now appears outside of the tile rather than overlaying the image) Fixed layout only.
- "Metadata, Decode, Cue Markers, and BITC" tabs from the Log layout to the Edit layout (Fixed layout only) have been added.
- Ability to generate .lvix seek files locally (previously stored next to linked media) has been added.
- Timeline tab underneath the Viewer on the Log and Edit tabs has been added.
- Scrollbars to sequence timelines (Video and Audio tracks) have been added.
- Blackmagic BRAW decode panel to the Video tab of the project card has been added.
- UHD Media to the Media->Transcoding tab to allow for transcoding to UHD on import has been added.
- Ability to switch between a Simple search and an Advanced search on the Search panel has been added.
- Better Keyboard shortcuts handling of using standard keyboard shortcuts (for example, pressing delete deletes clips) has been added.
- Ability to select segments on the sequence timeline has been added.
- Ability to right-click a clip containing ranged cue markers and select Make->Sequence from Cue Markers has been added.
- Ability to continue an interrupted transcode task has been added.
- Option 'remove from bin' to the deletion panel has been added.
- Keyboard key assignment for adding a VFX keyframe has been added.
- Compound effect to incorporate image-matte and blend (for example, a single-node image-key) has been added.
- Ability to add Video and Audio tracks has been added.
- Better categories for Keyboard Assignments list have been added.
- German translation wordings into the installers have been added.
- Ability to move an effect along the timeline without changing its routing has been added.
- 'Modification date' for audio only files on the filecard has been added.
- Ability to reorder filecard metadata items for all log types (previously it was only possible for V/A clips) has been added.
- Ability to use torn-off timecodes using the left mouse button has been added.
- Ability to select multiple items then edit the text for one of the fields, which now causes all rows to be updated has been added.
- Ability to apply effects to selected timeline segments has been added.
- "Region" option to the AAF export panel has been added.
- Higher resolution Pond5 proxies has been added.
- 'selected segments' to the sequence copy panel has been added.
- Ability to right-click an Effect node and choose 'Replace with >' has been added.

- Ability to right-click the video routing panel to add a new node has been added.
- Ability to change the import method for audio only files on the batch import panel has been added.
- Support for 100fps media in a 24fps project has been added.
- Ability to change the size of the project thumbnail images by holding down CTRL and scrolling with the mouse wheel has been added.
- Keyboard shortcut assignment for moving focus to the record sequence or source clip has been added.
- Ability to make milestones much easier to resurrect has been added.
- Visible media file name/extension to the file path has been added.
- Improved timeline sync-loss representation has been added. Improved timeline sync-loss representation has been added.
- Ability to slip sync on multicam tiles by using ALT + mouse-wheel.
- Updated to the latest MainConcept 10.5.3 and 4.2.1 SDK's.
- Changed Vimeo/YouTube export options.
 - The options now appear under the "Web" category on the Export list.
 - The options now always upload to these targets.
 - Requires sign in order to begin publishing.
- Expanded the use of the unjoin/rejoin button to perform reselect/deselect when there are/were selected segments
- The "Decode" tab is now hidden, unless working with RED R3D media.
- Missing audio on MP4 file imports has been corrected.
- Proxy creation, using clip audio levels, has been corrected.
- A potential hang, during proxy creation, on projects created prior to 14.6/2020.1 has been corrected.
- Ability to show start and end clip thumbnails on the sequence timeline.
- A keyboard shortcut assignment for removing VFX keyframes: 'Remove VFX keyframe'.
- A keyboard shortcut assignment for transferring focus to the previous source: 'Focus previous source'.
- A keyboard shortcut assignment for rejoining all unjoined cuts: 'Rejoin'.
- Ability to toggle opening/closing a file card when clicking the icon on a tile (Flexible layout only).
- Improved 'Replace with' multicam menu when many sources are present.
- Preliminary support for HEVC/H.265.
- New timeline menu option for clearing/adding marks.
- Cover art for audio-only clips that support it.
- Enhanced the marked region within a sequence timeline to make it much clearer that a mark is present.
- Ability to select multiple segments on the sequence timeline right-click and choose 'Add' or 'Remove' (if there are any effects to remove).
- Ability to lasso clips in the sequence timeline.
- Ability to resize keyframe graphs using CTRL and mouse wheel.

- Ability to create a bin when dragging multiple clips to the + icon.
- Ability to use 'x' for deleting selected timeline segments and 'z' for removing.
- Same VFX widgets to the EQ parameter adjustments.
- New 'Blur' effect (based on a user-created shader) The old Blur has been renamed to 'Fast Blur'.
- A progress bar when rebuilding the project cache has been added.
- The speed of reading a folder containing large amounts of archive folders has been Improved.
- The thumbnail handling on the import panel to behave the same as normal bins has been Improved.
- Provisional RAW still image support for more camera types has been added.
- The ability to search cue marker text (via the search panel) has been added.
- The ability to create colored cue markers easily during playback has been added.
- Additional improvements to H.265/HEVC file handling.
- Ability to set a custom length on dissolves when right-clicking a cut point has been added.
- Ability to set a custom length on audio crossfades when right-clicking a cut point has been added.
- New keyboard assignment command for applying a crossfade using the last settings (bound to ALT+c by default) has been added.
- Support for 'starts-with', 'ends-with', 'contains', 'equals', 'less-than' 'greater-than' 'doesn't contain', and 'doesn't equal' to the search functionality has been added.
- Improvements to how search results are handled when searching for Bins has been added.
- Improvements to the Find->Clip references feature to highlight segments rather than jumping to the next match has been added.
- Ability to create a new bin when dragging a folder from 'Local files' to the Bins '+' icon has been added.
- Improvements to handling of .MKV Added improvements to handling of .MKV filesfiles
- Support for segment Enable/Disable on the sequence timeline:
 - Keyboard shortcut assignment for 'Activate selected segments'.
 - Keyboard shortcut assignment for 'Deactivate selected segments'.
 - Keyboard shortcut assignment for 'Toggle segment activation'.
 - Keyboard shortcut assignment for 'Activate all segments'.
- Support for collapsing video tracks when copying sequences has been added.
- Support for being able to create custom metadata columns has been added.
- The ability to choose All/Selected tracks when making a copy of a sequence has been added.
- Additional information to the import panel when encountering unsupported formats has been added.
- The ability to highlight/recolor clips on the timeline has been added.
- Scrollbar to the Effects transition selection box has been added.
- The ability to specify custom metadata mapping has been added.
- Export/Render option of 50/59.97 for UHD Cineform has been added.
- A hyperlink to upload the location for YouTube videos for easy access to uploaded videos has been added.
- Faster thumbnail generation from H.265/HEVC media has been added.

- Display warning of GOP length in Red/Amber on the import panel if it is likely to cause playback issues has been added.
- Improved stills caching, the cache memory used is now based on total available (32Mb with 4Gb system RAM), has been added.
- Improved responsiveness when trimming on the timeline has been added.
- Moved the 'Presets->Customize' option to the top of the bin column headers list.

Fixes

The following cross platform issues have been fixed in this release.

- Timeline not updating correctly after deleting (when there were unjoined cuts) has been corrected.
- One audio channel appearing as offline and unrecoverable after copying media from one drive location to another has been corrected.
- Multicam sync method not respecting the correct selected track on a sequence with more than one V track has been corrected.
- Some LUTs being parsed incorrectly has been corrected.
- Failure to load some LUTs from Resolve has been corrected.
- Modified timecode on subclips not appearing on the timecode labels panel has been corrected.
- Alpha channel not being removed from sample file has been corrected.
- Inability to map console keys from within an empty project has been corrected.
- Very slow restoration of large project archives has been corrected.
- Reverse sorting not working for Local files has been corrected.
- 'Save current frame' not working for sequences containing subclips/syncs has been corrected.
- Incorrect error message when a transcode operation fails has been corrected.
- Searching for audio only files based on 'Location' returning zero results has been corrected.
- The timeline zoom setting not always being transferred between views (Edit/VFX/Audio) has been corrected.
- Potential crash when dragging a Subclip out of the Subclip Current filter has been corrected.
- Potential crash when clicking on a newly created subclip in a List view bin has been corrected.
- Long delay when opening the BITC font list has been corrected.
- Focus switching when clicking timeline audio nodes has been corrected.
- Safe trimming not working with reversed segments has been corrected.
- Adjusting DVE positions via the viewer controls causing erroneous keyframes to be created has been corrected.
- Crash enabling 'Show frame reuse' on sequences containing very long Reel IDs has been corrected.
- Changing the soft cut duration not affecting sequences that have already been played (until project re-entry) has been corrected.
- Incorrect keyframe editing on effects has been corrected.
- Newly added tracks not inheriting any existing marks has been corrected.
- Incorrectly squeezed image with BITC and letter boxing enabled has been corrected.

- Incorrect durations being reported during render/export has been corrected.
- Length of project name not being updated correctly when changed has been corrected.
- 'Marked section' being ignored with auto-start export presets has been corrected.
- Project wide LUT setting affecting tile preview on the import panel has been corrected.
- Some key assignments getting lost when switching between Fixed and Flexible layouts has been corrected.
- Effect parameter text-entry boxes not providing enough accuracy has been corrected.
- Blend mix set to 'Burn Mode' producing pixel artifacts in dark areas has been corrected.
- Pinned panels having different magnetic behavior to unpinned panels (Flexible layout) has been corrected.
- Potential hang when using macro commands: "Bin: next in group" and "Bin: previous in group" has been corrected.
- Bin selection results displaying incorrectly with multiple content managers open (Flexible layout) has been corrected.
- Inability to add a "to here" or "from here" transition to a clip that does not overlap another clip has been corrected.
- Potential crash deleting the last audio track from a sequence that contains no video tracks has been corrected.
- Incorrect error message when attempting to delete the last audio track (in an audio-only sequence) has been corrected.
- Inability to sort a Bin by column "location" has been corrected.
- Incorrect audio on sample file has been corrected.
- Potential crash reading audio sample from file has been corrected.
- Inability to perform trimming, using the "Move Cut" after removing an audio cross-fade, has been corrected.
- 'Reset' and 'Replace' not working on Effects which have been alt+dragged from one segment to another has been corrected.
- Grouped tracks not being handled correctly when using 'remove' from the timeline context menu has been corrected.
- Potential crash when deselecting a label on the BITC panel has been corrected.
- Potential crash when deleting all tracks from a sequence has been corrected.
- Potential crash moving selected audio nodes with the mouse has been corrected.
- Audio nodes moving in the wrong direction when dragged has been corrected.
- 'Play' duration and 'Timecode' duration not showing the same information on NTSC clips has been corrected.
- 'Remove redundant cuts' not respecting track selection and/or marked region has been corrected.
- Second Clipboard being created after restoring a project archive and editing it has been corrected.
- Clip varispeed in AAF exports not importing correctly to Adobe Premiere and Resolve has been corrected.
- Incorrect clip varispeed from Premiere AAFs has been corrected.
- Incorrect audio on float WAV files from FFMPEG has been corrected.

- XML exports not importing to Resolve correctly has been corrected.
- Occasional "Format unsupported" messages when starting an XML import to Lightworks has been corrected.
- Incorrect varispeeded segments when importing XML to Lightworks (published by Resolve or Premiere) has been corrected.
- Incorrect varispeeded segments when exporting XML from Lightworks to both Resolve and Premiere has been corrected.
- Timecode mismatch with burnt in timecode and the labels panel when reverse varispeeding a clip has been corrected.
- BITC clip timecode being incorrect on reverse varispeeded media has been corrected.
- Potential crash when hiding a filter in the content manager has been corrected.
- Incorrect scrollbar on sequence timeline after sequence extension has been corrected.
- Floating style hints appearing in Fixed layout has been corrected.
- Timeline segment turning black when removing an effect has been corrected.
- Incorrect BITC following a sequence modification has been corrected.
- Ineffective 'milestones_per_edit' config has been corrected.
- Dragging of local files to a new/empty bin not assigning tile positions correctly has been corrected.
- Blank quality compression setting on HD/UHD transcode panel for AVI/MOV has been corrected.
- Crash transcoding UHD sample to Cineform on import has been corrected.
- Media->Transcode option creating files using the Proxy settings rather than the Transcode settings has been corrected.
- 'film frame' option for elapsed/total frames having 3:2 pulldown applied has been corrected.
- Crash dragging from floating import panel directly to a bin.
- Inability to unlock a sequence that has been archived and opened in a shared project has been corrected.
- Preventing the Clipboard from being renamed has been corrected.
- Preventing 'Pop out tile' keyboard shortcut being active in Fixed layout has been corrected.
- Preventing a 1080i 23.98 export option appearing ob H.264/.MP4 exports has been corrected.
- Deleting the last V track from a sequence implicitly causes any remaining FX tracks to be deleted too has been corrected.
- Avoid adding implicit start/end keyframes when enabling keyframing for an effect parameter.
- Make hold+tap key presses work properly with commands that support transactions.
- Cue Markers are not copied from sequences when used inserted/replaced into other sequence.
- Mackie audio mixer not being recognized has been corrected.
- Sequences left on the desktop in 14.5 flexible layout not showing the close icon on the tile in 14.6 has been corrected.
- Crash editing/removing user effects that are no longer present on the system has been corrected.
- Incorrect image when playing/stopping an image key effect has been corrected.

- Any keyboard shortcut assigned to a console-type function not being respected has been corrected.
- BITC panel becoming empty if deleting the tracks which it was showing has been corrected.
- Potential hang deleting tracks within a sequence has been corrected.
- Potential crash closing record tool (Flexible layout) has been corrected.
- Uneditable sequence after dragging multiple assets from a bin to a record viewer has been corrected.
- Potential hang/crash importing a folder of clips has been corrected.
- Adding audio tracks after a stereo pair not working correctly has been corrected.
- Inability to generate an H.264 proxy from 100fps media has been corrected.
- Disabled XDCAM HD formats that were not valid.
- The Markers panel no longer handles the 'Delete' key if it's not visible.
- Live logging is now disabled if the markers panel is not visible.
- Using CTRL and Mouse Wheel will now work, regardless of whether the mouse is over a tile or not on the project browser.
- Using the Mouse Wheel without modifier keys will now always scroll the bin (unless over the tile with focus).
- Enabling 'lived editing' should not change the function of the mark/unmark keys for non-console users
- All FX tracks being deleted when deleting an FX track has been corrected.
- Project wide LUT setting not being recognized has been corrected.
- Hold/tap keyboard shortcuts from 14.5 not being respected in 14.6 if the 'hold' key has a default assignment has been corrected.
- Problems with OMF/AAF export of sequences containing clips that are audio-only has been corrected.
- Problems with OMF/AAF export with embedded-audio has been corrected.
- Import of OMFs containing embedded audio has been corrected.
- Live-cutting (using the mouse) not being possible if 'live editing' was disabled in 14.5 has been corrected.
- Audio import sync panel not remembering the settings has been corrected.
- Still images not displaying on the full screen output unless they are playing has been corrected.
- Closed bins showing activity when dragging across a source viewer in Flexible layout has been corrected.
- The sequence viewer Record button becoming permanently inactive after popping out the tile (Flexible layout only) has been corrected.
- "selected segments" commands not working in different scenarios has been corrected.
- Potential crash disconnecting FX nodes in the routing panel has been corrected.
- Redraw errors if the source timeline is visible and you resize the horizontal area above the sequence timeline has been corrected.
- Incorrect behavior on the nudge 10 frames keyboard assignment has been corrected.
- Incorrect appearance on .Cube format LUTs has been corrected.
- Hang playing Multicam bins with more than 12 members has been corrected.

- Possible crash importing a folder of clips has been corrected.
- The keyframe forward/backward buttons are now always active.
- Missing audio on MP4 file imports has been corrected.
- Proxy creation, using clip audio levels, has been corrected.
- A potential hang, during proxy creation, on projects created prior to 14.6/2020.1 has been corrected.
- Moved the trim commands into their own menu list when right clicking the sequence timeline.
- Changing the project viewing LUT not always updating all viewers has been corrected.
- Timeline thumbnails not always appearing has been corrected.
- Shuttle Pro keyboard shortcuts not being imported correctly has been corrected.
- Macro keyboard shortcuts not being honored has been corrected.
- Selected timeline segments not being deselected if there were segments selected when disabling the option has been corrected.
- Drag and drop region not appearing in the timecode bar at the top of the sequence has been corrected.
- Timeline thumbnails on sequences stretching across the entire segment when zooming has been corrected.
- Missing cogs menu icon in the top right hand corner of the sequence viewer (Flexible layout only) has been corrected.
- Cube LUTs not showing a preview of the effect they will have has been corrected.
- Sequence timeline thumbnails persisting even after the clip has been deleted has been corrected.
- Long delays when switching tabs (eg. Log -> Edit) has been corrected.
- VFX routing showing a node connection coming from infinity has been corrected.
- Incorrect behavior when 'Moving' a bin from one project to a new empty project has been corrected.
- Bin tiles shifting incorrectly after scrolling horizontally to the right on one bin, then selecting another and scrolling up/down has been corrected.
- Multicam bins containing a lot of clips not showing any tiles in the new bin view has been corrected.
- Inability to add an audio crossfade to a Mark/Park region unless there is a cut point present has been corrected.
- Potential crash undoing a DVE move.
- Dragging/dropping from the import panel not always working has been corrected.
- Potential crash dragging from the import panel directly to a bin (Flexible layout) has been corrected.
- Dragging/dropping of selected segments on the sequence timeline not working correctly has been corrected.
- Inability to delete more than 1 marker when doing a drag select has been corrected.
- Performance playing back AVCIntra Canon Quicktime files has been corrected.
- Restored 'Bin Commands' menu to the multicam bin.
- Inhibited restore functionality for clips that have been moved to other projects.
- Keyframe buttons always being active on the keyframe graphs panel.

- Keyframe graph scaling not taking into account the values outside the allowed range has been corrected.
- 'View in new browser window' option not working when right clicking a Bin (Flexible layout) has been corrected.
- The marked region shown on the sequence timeline ruler not updating reliably has been corrected.
- 'Reveal bins' not working as expected has been corrected.
- Handling of hold/tap keyboard shortcuts has been corrected.
- XML exports with clips set to -200% (Reverse) showing in Premiere as +200% has been corrected.
- Imported images not appearing in a search filter has been corrected.
- 'Reveal imports in search filter' option not working until you re-enter the project has been corrected.
- Search results created by revealing imports in search filters not persisting has been corrected.
- 'Target region' text being grayed out on the VFX panel has been corrected.
- Moving clips between bins not working has been corrected.
- Unusual empty areas appearing in sequences has been corrected.
- Duplicate FX nodes appearing following video routing disconnection has been corrected.
- The timeline position indicator staying yellow after exiting trim mode has been corrected.
- Incorrect sequence timeline thumbnail images on narrow segments with only one end unjoined has been corrected.
- Exported files having enhanced contrast added when compared with the original file has been corrected.
- Incorrect color on .MOV sample files has been corrected.
- Poor performance playing back AVCHD media has been corrected.
- Potential hang transcoding a file to Cineform AVI/MOV has been corrected.
- Duplicate 'Room 1' being created when restoring a project archive has been corrected.
- Gradient effect not working as expected when it has no input has been corrected.
- Sequence timeline segments not being selectable when the sequence is a source has been corrected.
- Incorrect modification date on sequences created via 'clip references/sequence of matches' has been corrected.
- Clipboard marks not being present after a Remove/Delete has been corrected.
- The 'Trim >' pop-out menu not being wide enough for its contents has been corrected.
- Black flashes and distortion playing back XDCAM EX media has been corrected.
- Crash clicking the cogs icon on an added EQ effect has been corrected.
- First frame showing incorrect thumbnail image on orientated phone footage has been corrected.
- Incorrect aspect ratio on the first frame of M2T/M2TS files has been corrected.
- Implicit soft audio cuts being applied to redundant cuts has been corrected.
- Incorrect soft audio cut setting on newly created projects has been corrected.

- Timeline marker jumping to the incorrect position when trimming at tail of a clip has been corrected.
- Incorrect tile image when dragging a still image from the import panel to the desktop (Flexible layout) has been corrected.
- Incorrect thumbnail image when dragging a clip from a user created bin has been corrected.
- 'Track swap' causing circular effect routing has been corrected.
- Redraw issues closing a search tab (Flexible layout) has been corrected.
- AAF exports imported into Resolve 15 showing all media as "Offline" has been corrected.
- Decoding of AVID DNxHD media has been corrected.
- Digital noise (clicks) when playing back AC3 audio has been corrected.
- Potential crash opening a project containing a corrupt sequence.
- Missing Pond5/Audio-Network thumbnail images has been corrected.
- Potential crash importing all search results from a Pond5/Audio Network query has been corrected.
- Unusual behavior when trimming with deselected tracks has been corrected.
- Potential crash opening a bin of Blackmagic RAW files has been corrected.
- Drop-down menus appearing off the bottom of the screen has been corrected.
- Potential crash when changing the speed of the track has been corrected.
- Disabled logging database recording (Flexible layout).
- Inability to add an effect to a non-topmost audio track has been corrected.
- Key assignments not being honored between 14.6 installs has been corrected.
- No thumbnail images on the Room list (Flexible layout) has been corrected.
- Crash playing back Photo JPEG .MOV samples has been corrected.
- Missing audio on Blackmagic and RED R3D samples has been corrected.
- Audio noise at the very start of MTS file playback has been corrected.
- Incorrect track ordering for clips imported from discrete MXF files has been corrected.
- Playback stopping when switching between tiles view and list view bins has been corrected.
- Inability to move certain audio nodes has been corrected.
- Two record viewers being visible at the same time (Fixed layout) has been corrected.
- Naming conflicts with the new BigBlur effect included with the previous beta has been corrected.
- Inability to trim an effect on it's own FX track has been corrected.
- Tile being left behind when dragging a tile to the bin '+' icon (Flexible layout) has been corrected.
- Playback not starting when pressing 'space' if jog mode is active has been corrected.
- Decode of MJPEG Pond5 samples has been corrected.
- Crash analyzing waveforms for clips with 16 or more audio channels has been corrected.
- Missing Undo/Redo viewer buttons on the Audio/VFX tabs (Fixed layout) has been corrected.
- Inactive voice-over button on sequence viewers has been corrected.
- Missing keyboard shortcut keys on the key assignment panel on fresh installs has been corrected.

- Disabled H.264 10-Bit export.
- The inability to perform live-cutting with the Multicam feature has been corrected.
- 4K H.264 exports being set to 10bit (despite 10bit option being disabled) has been corrected.
- Dissolves not working when applied next to 3D DVEs has been corrected.
- Blurs created in 14.5 not working in 14.6 has been corrected.
- Incorrect display of RAW images (ARRI, CinemaDNG etc) has been corrected.
- Inability to add a transition using the standalone transitions panel, if there are empty tracks above the intended target track has been corrected.
- Angle parameters not being represented correctly on the keyframe graphs panel has been corrected.
- Color on 'Rejoin' button when trimming (Flexible layout) has been corrected.
- Multiple popup cue panels appearing at once has been corrected.
- Segments not being reselected after selecting Undo has been corrected.
- Inability to create a ranged marker Fixed inability to create a ranged marker has been corrected.
- Issues with black frames at the end of H.265/HEVC footage has been corrected.
- Inability to jump to the end of a VFX parameter if it has no keyframes has been corrected.
- Potential crash signing into the "Activate license(s)" panel has been corrected.
- Inability to add VFX keyframes at the start of an effect (if there are no other keyframes) has been corrected.
- Incorrect exports on sections of a sequence containing dissolves next to 3D DVE effects has been corrected.
- Incorrect audio sync on playback has been corrected.
- Potential crash attempting to load .MOV/.MP4 sample files has been corrected.
- Audio noise on playing back .MOV/.MP4 sample files has been corrected.
- Missing audio on some .MP4 sample files has been corrected.
- Missing audio waveforms for .MOV sample has been corrected.
- Missing track buttons on the record tool (Flexible layout) has been corrected.
- Missing varispeed on imported XML sequences has been corrected.
- Inability to create a shared project has been corrected.
- Potential crash folding an Effect on FX2 into V1 has been corrected.
- Clips containing varispeed, showing the wrong duration, has been corrected.
- Potential crash playing a sequence with incorrect routing on dissolves has been corrected.
- Potential crash after deleting a video effect keyframe has been corrected.
- Potential crash after swapping video tracks containing effects has been corrected.
- Potential crash adjusting an audio EQ effect during playback has been corrected.
- Potential crash playing back 96KHz audio files has been corrected.
- Varispeed being lost on a video segment if it contained an inline effect when exporting to AAF has been corrected.
- Drag/drop import failing without warnings if there are no media locations has been corrected.

- Average bit rate option on the H.264/MP4 export panel not being remembered has been corrected.
- Potential crash trimming the last clip within a sequence has been corrected.
- Redraw errors on the edge of the content manager when changing bin view has been corrected.
- AAF export failing if a clip within the sequence included reverse varispeed has been corrected.
- Black slug being ignored at the start of a sequence when exporting to AAF has been corrected.
- AAF imports containing reverse varispeed clips not actually showing a reversed image has been corrected.
- Potential failure exporting to AAF, if the sequence contains black filler segments, has been corrected.
- Freeze frames in sequences exported to XML being ignored in Adobe Premiere has been corrected.
- AVCHD exports failing immediately has been corrected.
- Ability to sort Markers by color has been corrected.
- Behavior of the 'Inspect' button on the Changelist panel has been corrected.
- Potential crash comparing two cutlists within the changelist feature has been corrected.
- 'Make > subclip' option not honoring Markers if there is only a single ranged marker present has been corrected.
- Reverse varispeed clips exported to XML and imported to Adobe Premiere not showing the correct start frame.
- Asset 'modification date' not being updated in response to some modifications has been corrected.
- Incorrect 'modification date' for newly created subclips has been corrected.
- Missing 'Tracks' menu item for subclips has been corrected.
- The current filter/bin is not being correctly retained when switching between Log/Edit tabs has been corrected.
- Min/Max/Avg bit rate setting not being remembered on AVI MPEG exports has been corrected.
- Proxy files contained in a Lightworks.archive not being restored has been corrected.
- Incorrect default bins within complex filters has been corrected.
- Custom metadata time/date attributes not being fully searchable has been corrected.
- Incorrectly generated embedded OMF exports has been corrected.
- Option to make a 'Bin of Sources' not working has been corrected.
- New sequence copies not being highlighted has been corrected.
- Incorrect playback of proxy audio playing at the wrong speed has been corrected.
- Potential crash after dragging a bin group out of the content manager to the desktop (Flexible layout) has been corrected.
- Export panel failing to open when dragging/dropping the export tool onto a timeline (Flexible layout) has been corrected.
- Waveform not following in sync with audio in mp4 container (25fps video in 24 fps project) has been corrected.
- Potential crash after adding empty custom-metadata choice parameter has been corrected.
- Potential crash entering a project in 14.6 that was created in 14.5 has been corrected.

- Incorrect viewer ribbon color after swapping the contents has been corrected.
- The clip with focus in a multicam bin not being audible has been corrected.
- Frame rate options not appearing correctly on the filecard has been corrected.
- Audio timecode not being read correctly from WAV sample files has been corrected.
- Previously imported audio files showing as 'not analyzed' on the import panel after deleting has been corrected.
- Clip names containing non-ascii characters in their names not being restored correctly from OMF files has been corrected.
- Inconsistency of Group ordering between a torn off Group and the content manager (Flexible layout) has been corrected.
- Potential crash creating a sequence from an MXF file has been corrected.
- Incorrect image when playing a sequence as 1080i that has a DVE effect applied has been corrected.
- Incorrect frames appearing in the sequence viewer when jumping through and playing a sequence has been corrected.
- Prevented Syncs from inheriting the timeline zoom of their constituent audio clip has been corrected.
- Missing audio on MP4 file imports has been corrected.
- Proxy creation using clip audio levels has been corrected.
- Potential hang during proxy creation on projects created prior to 14.6/2020.1 has been corrected.
- Incorrect metadata displaying for some audio files has been corrected.
- Potential crash editing, then switching between tabs with sample sequence, has been corrected.
- Sony A7 III/Panasonic media not being recognized has been corrected.
- Application potentially hanging with offline streaming files (Audio Network) has been corrected.
- Exported hyperlink failing to open if the path includes a comma in the name has been corrected.
- Angle parameters not being represented correctly on the keyframe graphs panel has been corrected.
- Issues surrounding multiple V-tracks in AAF exports to Premiere and Resolve has been corrected.
- Inability to choose an image from the project browser Appearance menu has been corrected.
- Potential crash after clicking in the Notes field has been corrected.
- Incorrect decoding on some H.265 samples has been corrected.
- Failures transcoding using Matrox MPEG codec has been corrected.
- Copying Groups/Racks from one project to another not working correctly has been corrected.
- The search & replace panel is too tall to fit on the screen has been corrected.
- The current tab on the BITC panel is incorrect has been corrected.
- Drag/drop from a viewer to the timeline failing if there is BITC on the source has been corrected.
- Application failing to respond after adding a dissolve has been corrected.

- Slip/Slide trimming function on grouped tracks not working correctly has been corrected.
- Ctrl+A not working as expected for timecode entry boxes has been corrected.
- Rendering of an entire track failing if an empty V-track is present has been corrected.
- Earlier audio nodes being overwritten when moving an audio node to the left has been corrected.
- Potential crash after clicking in Notes field of a Filecard has been corrected.
- Proxy creation hanging when generated from older projects has been corrected.
- Proxy creation using the audio level set on the clip timeline has been corrected.
- Audio levels not being present in XML (FCP7) exports has been corrected.
- Image files not being restored from Lightworks.archives has been corrected.
- Groups not being restored from Lightworks.archives has been corrected.
- Potential crash dragging multiple files into the application has been corrected.
- Incorrect color correction effect saturation in floating point modes has been corrected.
- Crash browsing to folders containing .TGA files.
- Potential crash modifying sequences with BITC enabled.
- Potential crash copying sequences with BITC enabled has been corrected.
- Restoration of keyboard shortcuts has been corrected.
- Memory leak decoding Blackmagic RAW files has been corrected.
- Occasional incorrect start timecode with WAV imports has been corrected.
- MPEG I-frame encoding when bit rate setting has not been changed from default has been corrected.
- The "Find -> Clip References -> [field name] 'Contains/Does not contain" results being flipped has been corrected.
- Default keyboard shortcuts reappear after having been overwritten has been corrected.
- Renamed macros are not displayed using their new name until the app is restarted has been corrected.
- Inability to copy audio levels from one clip to another (holding down ALT and dragging) in Flexible layout has been corrected.
- Potential crash searching using the timecode area of the Searchcard (Flexible layout) has been corrected.
- Inability to change the 'Format' option when browsing for files on the import panel has been corrected.
- BITC timecode staying on the viewer after un-ticking it from the tab has been corrected.
- Audio waveforms displaying incorrectly has been corrected.
- Decoding of Sony A7 III /Panasonic media has been corrected.
- Waveform generation not pausing and was interfering with playback has been corrected.
- Incorrect waveform displayed when zooming into clipped audio has been corrected.
- Crash occurs when clicking on the action button of the batch import panel for audio only items has been corrected.
- Partial waveform data being written when exiting the application part way through waveform generation has been corrected.

- 'memory leak' with multiple H.265 clips in a sequence (use a percentage of the physical available memory, which is on a config, "physicalMemPortion, 0.24 to 0.95") has been corrected.
- Timeline not being resized/drawn correctly after swapping sequences has been corrected.
- 'memory leak' and files not being deleted because they are still open has been corrected.
- Clip length for MP3/AAC clips are wrong for some project frame rates has been corrected.
- Audio waveform displays being incorrect has been corrected.
- Project thumbnail images not always representative of the record sequence image has been corrected.
- Appearance of the video routing panel has been corrected.
- 'Unfold' option on folded FX is now working.
- Black Balance on the Color correction effect now working correctly.
- Potential hang when running low on memory has been corrected.
- Odd behavior when disconnecting an effect on the video routing panel has been corrected.
- Distorted audio on NDI 32 bit floating point Quicktime files has been corrected.
- Audio waveforms displaying incorrectly for clips with one file per track has been corrected.
- Index file creation for Pond5 media (green flashes during playback etc) has been corrected.
- Proxies being created using clip audio levels functions correctly.
- Green frames appearing at end of files (if we overestimate the length of the last GOP) has been corrected.
- Multicam segment replacement (when there are disabled tracks) has been corrected.
- Some issues creating proxies from H.265/HEVC media has been corrected.
- Potential hang creating proxies from H.265/HEVC media, when parked on the first frame has been corrected.
- Incorrect frames being displayed when jumping/scrubbing H.265/HEVC media has been corrected.
- Audio waveform generation not completing has been corrected.
- CineForm 480P option (unsupported by CineForm encoder) has been removed.
- The ability to use the mouse wheel to select successive fonts for titling has been restored.
- The decoding of XAVC MXF media files now operates correctly.
- The progress bar now shows proxy tasks automatically.

Windows New Features and Fixes

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

New Features

- Visual Studio redistributable files are installed alongside the Lightworks executable (instead of using Microsoft vc_redist.exe packages).
- A message on startup if the sound device fails to initialize has been added.
- Additional key mappings for Polish keyboard layouts has been added.

Fixes

- Memory usage increasing to very high levels during exports has been corrected.
- Blackmagic RAW files not being recognized on Windows unless Resolve was also installed.
- Apple ProRes encoded files no longer playing back correctly has been corrected.
- RED R3D samples failing to decode and show a thumbnail has been corrected.
- Missing 'Lightworks' Start menu shortcut has been corrected.
- Pressing ALT+e on a Polish keyboard resulting in '€' instead of 'ę' has been corrected.
- Failed plugins on startup are now reported to the user as well as the error.log.
- AVC-intra with no embedded SPPS headers always decoding green has been corrected.
- Potential crash on leaving the project after reading WAV files.

Linux New Features and Fixes

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

New Features

- Ubuntu 19.04 has been added.
- Added additional improvement for slow editing of MTS files.

Fixes

- Memory usage increasing to very high levels during exports has been corrected.
- Any color-correction HSL parameter adjustment causing the Hue to be incorrect has been corrected.
- Performance issues related to memory usage being too high have been corrected.
- Improved the editing experience and performance of AVCHD media.
- Removed requirement for JPEG8 to be present to improve installation.
- Playback failing to initialize when pressing Play has been corrected.
- Crash when generating proxy files has been corrected.
- Crash when exporting to a JPEG image sequence has been corrected.

Mac OS New Features and Fixes

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

New Features

- WAV files that are inadvertently being deleted when browsing to the location on the import panel are no longer being deleted.
- Application notarization to support macOS Catalina (10.15) has been added.
- CMD Z and CMD SHIFT Z back to the 'Default' keyboard shortcuts has been added.

Fixes

- Boris Graffiti text appearing upside down in the sequence viewer has been corrected.
- Support for exporting to Apple ProRes UHD formats (Lightworks Pro only) has been added.
- Drop-down menus no longer appear off the bottom of the screen.
- Any color-correction HSL parameter adjustment causing the Hue to be incorrect has been corrected.
- Lightworks Console not being recognized on startup on macOS Catalina (10.15) has been corrected.
- Histogram tool showing a white background instead of black has been corrected.
- Embedded AAF exports failing immediately has been corrected.
- AJA hardware output losing sync with the sequence timeline has been corrected.

Limitations and Known Problems in Version 2020.1

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

Cross Platform

- Avoid archiving entire image-sequences when the source clip represents a single still image.
- Avoided long delays in opening projects (in shared project spaces).
- There may be digital audio noise when playing from the very start of an MTS file.
- There will be no thumbnail images on the Room list in Flexible layout.
- Playing/Rendering progressive automatically rotated media as interlaced results in the loss of the rotation.
- 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.
- Audio may play incorrectly when copying logs from a 25fps project to a 24fps project.
- 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.
- There is currently no method to search for Groups.
- Duplicate log entries, on the export panel, occur when an edit viewer and timeline are open.
- The screen capture function is currently inoperable.
- CDDA ripping is no longer available.
- A Potential crash may occur when importing QTRef files.
- 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 Firewire support.
- There is no support for importing .WMV files.
- Make sure all applications are closed before attempting to install Lightworks.
- .VOB files appear as "Sound" only on the import panel, but yet import with picture. As a result, performance may be slow.
- Image quality on playback may be poor when project card is set to NTSC Fields.
- 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.
- The Record panel format must match the output format for successful recording to take place.

Windows 64-bit

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

Windows 32-bit

- If the Matrox VFW codecs are installed on a Windows 8/8.1 system then you will not be able to open the export panel. These codecs may also prevent Lightworks from starting. You should uninstall the VFW codecs for the time being.
- Image on viewers and SDI output may look very poor on old ATI graphics card when set to 10-bit precision.

Linux 64-bit

- Debian Distros:
 - Ubuntu/Lubuntu/Xbuntu 18.04 and higher
 - Mint 17 and higher

- RPM Distros:
 - Fedora 30 and higher
- Fedora 25 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. EditShare recommends Nvidia for the best performance.
- Fraps AVIs do not import.
- There is no FX plug-in support.
- No audio imported from OMFs (that do have embedded audio).
- Relaunch button does not work after the application crashes.
- Audio may not be present on some Uncompressed AVIs.
- 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

- Any users running Macbook Pro systems MUST disable 'Automatic graphics switching' under 'Energy Saver' in 'System Preferences'.
- There is no ability to Import or Export .BMP image sequences.
- Lightworks will only run on 10.9 (Mavericks) and above.
- There is no H.264 MOV export.
- There is no QuickTime/MPEG4 export option.
- There is no .WMV import.
- 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 1 output must be used with Windows 32bit, and 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/faq> 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>.

Technical Support Contracts

For assistance beyond this document, and that provided in your Lightworks documentation, you can purchase a Technical Support Contract for Lightworks from our online shop at <http://www.lwks.com/shop>. Technical Support is by Telephone and Email.

