

LUCID STUDIO RELEASE NOTES

Welcome to the Lucid Studio v6.4 Release Notes. Please read this document to find important information on areas of Lucid Studio that may not be covered in the Lucid Studio User Guide.

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VERSION HISTORY

VERSION 6.4 – JULY 2022

WHAT'S NEW

- **COMPATIBILITY**

Lucid Studio 6.4 is compatible with XPression 10.5 and Voyager 4.26 and 4.27.

The following new features will require Voyager 4.27R2:

Animation Event Type options – Play From Start, Play From Start Loop, Play From End, and Play From End Loop

Miscellaneous Event Type option – Send Command to Renderer

- **AUTO-DISCOVERY**

Multiple Renderers and Lucid Tracks can now be found automatically, making it faster and easier to add them to the **Server** panel.

Auto-Discovery uses the standard SLP protocol.

- **VOYAGER OUTPUT THUMBNAIL**

An image of the Voyager output can be captured and used as a thumbnail in the **Events** panel.

- **LOCK SCALE CONTROL BEHAVIOR ADDITION**

In the **Position** panel, the **Lock Scale** control can now be used to maintain the original aspect ratio when changing any of the axis values.

- **SPORTVISION PROTOCOL RENAMED**

The **Sportvision** protocol has been renamed to **SMT**.

- **SUPPORT FOR EXTERNAL CUSTOM LENSES**

In the **Track Setup** panel, custom camera lenses can now be added to the **Lens** list and used in place of the default lenses. A path to the custom lens must be added in both Lucid Studio and Lucid Track.

- **LOGIC FEATURES**

Added **Utility Logic** nodes which generate an output of the same type (boolean, decimal, integer or string) after a delay of the specified decimal input.

Made the **Logic** nodes context-aware. Dragging off a **Logic** node pin displays only those inputs or outputs that are compatible with the node.

- **EVENTS FEATURES**

Added the **Renderer** event action type providing the ability to set and run **Logic Renderer** node equivalents for string, float, vector, rotator, and color from an event.

Added the **Miscellaneous** event action, **Send Command to Renderer** providing the ability to display send Voyager/Unreal console commands and display selected stats on the screen in **PIE** mode in Voyager and in the **Virtual Output** window in XPression.

The **Event Page** drop-down now indicates in bold, white font the pages that have content.

In the **Animation** event type, added new options (**Play From Start**, **Play From Start Loop**, **Play From End**, and **Play From End Loop**). These options are available only with Voyager version 4.7R2.

- **WEB API**

Changed the options in the **Web API Setup** tab to allow the user to enable/disable both API and Web access or to enable only API access (no Web access).

The **Documentation** button is now only enabled when the **API & Web Access** option is chosen.

The Lucid API is now **OpenAPI** compliant and generates automatic Swagger documentation.

- **INSTALLATION**

The installer now checks for a dongle with a valid license for the new version before starting the installation.

Added the XPression license tool to the installer, allowing you to check and update your Lucid license.

Python 3.10 is now included in the installer.

VERSION 6.3 – OCTOBER 2021

WHAT'S NEW

- **COMPATIBILITY**

Lucid Studio 6.3 is compatible with XPression 10.0 and Voyager 4.26 and 4.27.

- **LOGIC FEATURES**

Made the logic nodes color-coded to help visualize which blocks are needed as inputs or outputs.

In the **Renderer Logic** node, added a dropdown list to select a specific renderer to which to apply the logic.

Logic tooltips for outputs now show actual values.

You can now copy and paste logic nodes.

Added an indicator in new logic graphs displaying the number of nodes, number of connections and the average computing time for the logic.

A much larger number of nodes are now supported in logic.

- **WEB API**

Added a Web API tab in Lucid Studio Settings to integrate Lucid with third party applications.

Enables the execution of events from a web browser.

Includes a QR code for mobile operation using the Web UI and Web API.

With the Web API enabled, API documentation can be accessed using any Web browser.

- **POSITION PANEL**

Added a **Search** option in the **Position** panel to make it easy to find any item in a set.

Empty actors can be added to a set and controlled in the **Position** panel (Voyager 4.27 and newer).

The item name matches the Voyager **Display** name rather than the internal **ID** name (Voyager 4.27 and newer).

- **NEW MISCELLANEOUS EVENT COMMAND**

In the **Events** panel, added the **Start/Stop PIE** command in the **Miscellaneous** event action to start and stop playing Voyager in the editor.

- **LOG IN**

In Lucid Studio and Lucid Track settings, in the **User** tab, double-clicking on a user name behaves the same as clicking the **Log in** button.

- **INSTALLATION**

Lucid Track can now be installed independently from Lucid Studio.

A changelog is now included as part of the installation and can be found in **C:\ROSS\Lucid**.

The Lucid Studio User Guide and Release Notes are included in the installation and can be found in the Windows Start Menu and also in **C:\ROSS\Lucid**.

Added the Lucid Plugin for Stream Deck in the Lucid Studio installer.

- **STREAMLINE INTEGRATION**

Streamline assets can now be accessed from MOS.

VERSION 6.2 – AUGUST 2021

WHAT'S NEW

- **COMPATIBILITY**

Lucid Studio 6.2 is compatible with XPression 10.0 and Voyager 4.26.

- **TRACKING PROTOCOL**

Added the Radamec tracking protocol option.

Added support for **Distortion** in the Trackmen protocol.

- **NEW PANELS**

Added the **Color Correction** panel for customizing color settings and saving them as presets.

Added the **Video Walls** panel for calling presets created in a Brompton Controller.

- **NEW EVENT ACTIONS**

Added an event action to set a color correction preset.

Added an event action to set a video wall preset.

- **RECT LIGHTS**

Rect Lights from Voyager (version 4.26) are now visible in the **Position** panel.

- **STREAMLINE INTEGRATION**

You can now drag and drop assets from Streamline loaded in a **Web** panel to **Router** panel sources, **Sequencer** panel sources (over the text editor with the path) and onto **Event** buttons to be used as thumbnails.

- **ROSS TAB**

The **DashBoard** tab in the **Setup** configuration tool is now called **Ross** and contains settings for Streamline.

VERSION 6.1 – JUNE 2021

WHAT'S NEW

- **COMPATIBILITY**

Lucid Studio 6.1 is compatible with XPression 10.0 and Voyager 4.1.

- **CHROMA PANEL**

A **Chroma Keyer** panel has been added to enable adjustment of the chroma key settings of a video or live feed in a Voyager project and to create and save presets.

- **CHROMA EVENT ACTION TYPE**

Added the **Chroma** event action type allowing users to apply a chroma key preset to a composite plane.

- **START MAXIMIZED OPTION**

Added the **Start Maximized** option in the **Lucid** tab of the **Setup Tool** to enable Lucid Studio to be started in fullscreen mode.

- **LAYOUT**

When restoring a layout with the window maximized, the window remains maximized unless the new layout doesn't fit the screen.

- **NOTIFICATION**

If the user tries to change the text in an event item and the text is being used by Logic, a notification is displayed.

VERSION 6.0 – FEBRUARY 2021

WHAT'S NEW

- **COMPATIBILITY**

Lucid Studio 6.0 is compatible with XPression 10.0 and Voyager 4.0.

- **REBRANDING**

UX has been rebranded to Lucid Studio.

UX VCC has been rebranded to Lucid Track.

UX Driver for XPression has been rebranded to Lucid Driver for XPression.

UX MOS Service has been rebranded to Lucid MOS Service.

UX Renderer Service has been rebranded to Lucid Renderer Service.

In the **Logic** panel, the UX Logic function blocks have been rebranded to Lucid Logic and the VCC tracking parser has been rebranded to Lucid Track.

In the **Sequencer** panel, the UX tab has been rebranded to Lucid.

The UX Plugin for Voyager has been rebranded to Lucid Plugin.

- **USER INTERFACE REDESIGN**

Panels (rather than Quadrants) are used for the various functions.

Multiple panels of the same type can be displayed simultaneously.

Layouts can accommodate more panels and panels can be rearranged and resized.

Multiple layouts can be saved.

Drag and drop functionality.

A single-line log field has been added to call attention to errors or issues.

- **ADDED VISUAL STUDIO 2010 SP1 REDISTRIBUTABLES TO THE INSTALLER**

For compatibility with Motion Analysis SDK DLL Cortex_SDK.dll.

- **SETTINGS**

Lucid tab:

- The **Window Size** dropdown has been replaced with a **UI Scale Factor** dropdown that allows scaling of the application window to 1.25 percent of its current size.
- Added the **Trigger Servers** section to select the ports for RossTalk and MOS servers.
- Added the **Notifications** section to enable notifications and select on which side you want the notifications to appear.

Users tab:

- Added the ability to insert a users photo when adding a new user.

- **EVENT PANEL CHANGES**

In the **Event** action type, when an event as been set to run as a playlist, added a checkbox that enables looping of the playlist.

In the **Router** action type, added an option to select lit or unlit shading.

- **ROUTER PANEL CHANGE**

Added an **Updates/No Updates** button to indicate when **Router** resources need to be refreshed.

- **WEB PANEL CHANGE**

Added a **Zoom** control to allow the user to zoom in or out on the selected web page.

- **LOG PANEL CHANGE**

Added a button to clear the visible log entries.

- **ADDED A NOTIFICATION WHEN DETECTING OPENGL V1.X DRIVERS**

The notification was added before starting lucid so that the user can choose to quit, continue or restart with software OpenGL and also after starting Lucid Studio (as a reminder).

- **CAMERA LENS SUPPORT**

Added support for the following camera lenses:

- Canon HJ11ex4.7B IASE-TWC
- Canon HJ11ex4.7B IASE – URSA
- Canon HJ14ex4.3B IASE
- Canon HJ22ex7.6B IASE Football
- Fuji HA23x7.6BERD-S6
- Fuji HA23x7.6BERD-S6 – URSA Broadcast
- Fuji HAS18x7.6BZD-T5DD

- Fuji UA 13x4.5BERD-S9
- Fuji UA 22x8BERD-S8
- Mobile Tracked Camera
- **STYPE CAMERA MOUNT**
Added support for the Stype camera mount.

VERSION 5.1 – APRIL 2020 (UX)

WHAT'S NEW

- **XPRESSION COMPATIBILITY**
UX 5.1 is compatible with XPression 9.5.
- **MICROPHONE AND CAMERA PERMISSIONS**
The Web module now automatically grants permission for the microphone and camera.
- **CAMERA LENS SUPPORT**
Added support for the following camera lenses:
 - Canon HJ14ex4.3B IASE (HH14.010 / 01619973)
 - Canon HJ22ex7.6B IASE (Finepoint 00045247 / 01219060)
 - Canon HJ22ex7.6B IASE (v2-Finepoint 00045247 / 01219060)
 - Canon HJ14ex4.3B IASE United#01619972
 - Canon CJ14ex4.3B IASE S
 - Canon CJ14ex4.3B IASE S - voyager spherical
 - Panasonic AW-UE150KEJ
- **PUBLIC IP**
Disabled checking the public IP on startup in UX and UX VCC. Command line parameter “-getPublicIP” can be used to try to get the Public IP.
- **APPLY TO ALL VCCS**
The state of the Apply to All VCCs checkbox in UX Garbage Mattes is now saved in the config file.

VERSION 5.0 – DECEMBER 2019 (UX)

WHAT'S NEW

- **LICENSE DONGLE**
UX and UX VCC now utilizes a license dongle to operate, rather than a generated license file.

- **64-BIT**

UX is now 64-bit.

- **UX MOS SERVICE**

A new utility has been added.

- **SEQUENCER QUADRANT**

A **SEQUENCER** quadrant has been added for playing a series of UX events or MOS stories.

- **VCCS STATUS**

In the right toolbar, added a new section called **VCCs** that indicates whether or not a VCC is connected and getting tracking data.

- **MOS SUPPORT**

Added MOS support for Events.

- **CAMERA LENS SUPPORT**

Added support for the following camera lenses:

- Canon CJ12ex4.3B IASE S URSA Mini
- Canon CJ12ex4.3B IASE S 2/3"
- Fuji XK6x20-SAF - SonyF-55
- Fuji HA14x4.5BERD-S6B - URSA Broadcast
- Fuji HA23x7.6BERD-S6 - URSA Broadcast
- Fuji UA18x5.5BERD-S6

- **MOSYS STARTRACKER/F4 PROTOCOL**

Added the MoSys Startracker/F4 protocol v1.3 with lens distortion information. e-Crane and MoSys have been merged, so e-Crane is no longer listed and MoSys is valid for both.

- **FRAME-B PROTOCOL**

Added the Frame-B protocol format for Spidercam.

- **LOG VERBOSITY LEVEL**

Added a **Log Verbosity Level** (Low, Normal, All) drop-down in each of the following utilities:

- UX
- UX VCC
- UX MOS Service
- UX Renderer Service
- UX Driver for XPression

- UX Plugin for Unreal
- **SAVE TO FILE**
When clicking Save to File in any of the above utilities, all of the current content of the log window (usually more) is saved to the file.
- **DRAG AND DROP LISTS**
Lists that can be re-ordered now use “drag and drop” instead of up and down arrows.
- **LOGIC QUADRANT IMPROVEMENTS**
Added two new Tracking parsers: Stype and VCC.
Added the following new Utilities logic blocks: Case Integer, Case String, Switch Boolean, Switch Decimal, Switch Integer, Switch String and Units Converter.
Divided the Math logic blocks into three groups: Math, Math – Vector and Math – Trig.
Added Trig logic blocks for cos, arccos, sin, arcsin, tan, and arctan.
Added a warning message “No data available” in all Tracking parsers which is displayed if no data has been received for more than 3 seconds.
In the Server block (in the Communications group), added “To Send” as an input. This sends the data to all the connected clients when the input changes. Its use is optional.
- **POSITION QUADRANT IMPROVEMENTS**
Added more slots for items, grouping them into 10 Sets of 25 pages. Each page contains 2 items, making the maximum number of items 500.
- **VOYAGER'S INTERNAL COMPOSITE PLANE CAN BE DISCOVERED UNDER OBJECTS.**
- **THE FOREGROUND/BACKGROUND BUTTON TURNS ON/OFF THE VISUALIZE OPTION OF VOYAGER COMPOSITE PLANES.**
- **VOYAGERCAMERAFACTORS CAN BE DISCOVERED UNDER CAMERAS.**
- **EVENTS QUADRANT IMPROVEMENTS**
Events can now have a thumbnail image.
- **ADDED SEQUENCER EVENT ACTIONS TO BE ABLE TO SELECT, TAKE, SKIP OR RESET A SEQUENCE.**
- **ADDED THE FOLLOWING MISC EVENT ACTIONS**
Assign VCCs and renderers preset table
Change Renderer Scene
- **UX RENDERER SERVICE (PREVIOUSLY UX SERVICE FOR XPRESSION)**
Now supports XPression or Voyager.
UX Renderer Service automatically detects the renderer executable on first launch.

It is possible to switch back and forth between XPression and Voyager without having to reconfigure the service.

In the **Settings** panel:

- An **Auto Relaunch** checkbox has been added. When checked, if the renderer quits working, it will be automatically relaunched with the last-used configuration.
- Added a **Launch PIE on startup** checkbox, when the Voyager renderer is selected.
- Added a **Run** button in the View All pop-up, so that a project can be selected and run directly from UX Renderer Service.
- Added an extra input field **Extra Command Line Parameters** to define command line parameters for the renderer being loaded. This is more likely to be used with the Voyager renderer.

- **UNREAL PLUGIN**

Added a UX Exec node for Unreal Blueprints.

Added an option to log all the messages to a file (in the project's Saved/Logs folder).

The level can be changed when running in PIE mode.

Added support for Lit/Unlit materials from UX, as well as an Emission Factor to adjust the level of emission.

GETTING HELP

- Product's Online Help system opens in your default web browser.
- Our 24-hour hotline service provides access to technical expertise around the clock. After-sales service and technical support is provided directly by Ross Video personnel.
- During business hours (Eastern Standard Time), technical support personnel are available by telephone.
- After hours and on weekends, emergency technical support is available. A telephone-answering device will provide the names and phone numbers of technical support and field service personnel who are on call. These people are available to react to any problem and to do whatever is necessary to ensure customer satisfaction. For serious issues which need urgent attention and tracking, please ensure you are given a ticket number and refer to this in future communications.
- **TECHNICAL SUPPORT: (+1) 613-652-4886**
- **AFTER HOURS EMERGENCY: (+1) 613-349-0006**
- **TOLL FREE TECHNICAL SUPPORT: 1-844-652-0645 (NORTH AMERICA)**
+800 1005 0100 (International)