



User Guide

VERSION 1.1

ROSS

Thank You for Choosing Ross

You've made a great choice. We expect you will be very happy with your purchase of Ross Technology.

Our mission is to:

1. Provide a Superior Customer Experience
 - offer the best product quality and support
2. Make Cool Practical Technology
 - develop great products that customers love

Ross has become well known for the Ross Video Code of Ethics. It guides our interactions and empowers our employees. I hope you enjoy reading it below.

If anything at all with your Ross experience does not live up to your expectations be sure to reach out to us at solutions@rossvideo.com.



David Ross

CEO, Ross Video

dross@rossvideo.com

Ross Video Code of Ethics

Any company is the sum total of the people that make things happen. At Ross, our employees are a special group. Our employees truly care about doing a great job and delivering a high quality customer experience every day. This code of ethics hangs on the wall of all Ross Video locations to guide our behavior:

1. We will always act in our customers' best interest.
2. We will do our best to understand our customers' requirements.
3. We will not ship crap.
4. We will be great to work with.
5. We will do something extra for our customers, as an apology, when something big goes wrong and it's our fault.
6. We will keep our promises.
7. We will treat the competition with respect.
8. We will cooperate with and help other friendly companies.
9. We will go above and beyond in times of crisis. *If there's no one to authorize the required action in times of company or customer crisis - do what you know in your heart is right. (You may rent helicopters if necessary.)*

Voyager Trackless Studio User Guide

- Ross Part Number: 3850DR-001-1.1
- Version: 1.1

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Patents

Patent numbers US 7,034,886; US 7,508,455; US 7,602,446; US 7,802,802 B2; US 7,834,886; US 7,914,332; US 8,307,284; US 8,407,374 B2; US 8,499,019 B2; US 8,519,949 B2; US 8,743,292 B2; GB 2,419,119 B; GB 2,447,380 B; and other patents pending.

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2. **DEFINITIONS.** In this Agreement, in addition to the terms defined elsewhere in this Agreement, the following terms have the meanings set out below:

"**Affiliate**" means, with respect to any Person, any other Person who directly or indirectly controls, is controlled by, or is under direct or indirect common control with, such Person. A Person shall be deemed to control a Person if such Person possesses, directly or indirectly, the power to direct or cause the direction of the management and policies of such Person, whether through the ownership of voting securities, by contract or otherwise; and the term "controlled" and "controlling" shall have a similar meaning.

"**Agreement**" means this End User Software License Agreement including the recitals hereto, as the same may be amended from time to time in accordance with the provisions hereof.

"**Backup System**" means the secondary piece of Designated Equipment upon which the Software is installed and mirrored for the sole purpose of replacing a Primary System in the event such Primary System is not available or functioning properly for any reason.

"**Change of Control**" means (a) the direct or indirect sale, transfer or exchange by the shareholders of a Party of more than fifty percent (50%) of the voting securities of such Party, (b) a merger or amalgamation or reorganization or other transaction to which a Party is party after which the shareholders of such Party immediately prior to such transaction hold less than fifty percent (50%) of the voting securities of the surviving entity, (c) the sale, exchange, or transfer of all or substantially all of the assets of a Party.

"Confidential Information" means all data and information relating to the business and management of either Party, including the Software, trade secrets and other technology to which access is obtained or granted hereunder by the other Party, and any materials provided by Ross Video to Licensee; provided, however, that Confidential Information shall not include any data or information which:

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- (iii) is already known to the receiving Party at the time of its disclosure to the receiving Party by the disclosing Party and is not the subject of an obligation of confidence of any kind;
- (iv) is independently developed by the other Party;
- (v) is rightfully obtained by the other Party from a third party; or
- (vi) is disclosed with the written consent of the Party whose information it is.

"Designated Equipment" shall mean (a) the hardware products sold by Ross Video to Licensee on which the Software is installed and licensed for use, as the same may be replaced from time to time by Ross Video; or (b) in the case of Software licensed on a stand-alone basis, the equipment of Licensee on which the Software is to be installed and meets the minimum specifications set out in the Documentation.

"Documentation" shall mean manuals, instruction guides, user documentation and other related materials of any kind pertaining to the Software (whether in electronic, hard-copy or other media format) that are furnished to Licensee by or on behalf of Ross Video in relation to the Software.

"Freeware" means Software that is available free of charge from Ross Video, and includes, without limitation the master control system software known as "DashBoard".

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"Improvements" means all inventions, works, discoveries, improvements and innovations of or in connection with the Software, including error corrections, bug fixes, patches and other updates in Object Code form to the extent made available to Licensee in accordance with Ross Video's release schedule.

"License Fee" means the fee(s), if any, payable in respect of the Software in accordance with the relevant invoice(s) or other purchase documents delivered in connection with this Agreement.

"License Period" means the period of time that Licensee will have the rights granted under this Agreement, as may be specified in an Order.

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"Open Source Components" means third party Open Source software, libraries or other components.

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"Order" means the documents provided by Ross Video to Licensee detailing the Ross Video products contemplated for purchase, the corresponding fees and License Period that may apply to the Software, including any and all quotations, purchase orders, acknowledgments, pro formas, invoices and other purchase documentation.

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"Primary System" means the Designated Equipment upon which the Software is installed and executed to deliver its intended functionality.

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"Released Parties" has the meaning ascribed to it in Section 9(b).

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Either party may disclose certain Confidential Information if it is expressly required to do so pursuant to legal, judicial, or administrative proceedings, or otherwise required by law, provided that (i) such Party provides the other Party with reasonable written notice prior to such disclosure; (ii) such Party seeks confidential treatment for such Confidential Information; (iii) the extent of such disclosure is only to the extent expressly required by law or under the applicable court order; and (iv) such Party complies with any applicable protective or equivalent order.

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The Parties acknowledge and agree that any breach of the confidentiality provisions of this Agreement by one Party may cause significant and irreparable injury to the other Party that is not compensable monetarily, as well as damages that may be difficult to ascertain, and agrees that, in addition to such other remedies that may be available at law or in equity, the other Party shall be entitled to seek injunctive relief (including temporary restraining orders, interim injunctions and permanent injunctions) in a court of competent jurisdiction in the event of the breach or threatened breach by such party of any of the confidentiality provisions of this Agreement. The relief contemplated in this Section shall be available to each Party without the necessity of having to prove actual damages and without the necessity of having to post any bond or other security. Each Party further agrees to notify the other Party in the event that it learns of or has reason to believe that any Person has breached the confidentiality provisions of this Agreement.

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 - (a) the other Party fails to pay any fees or other amounts when due hereunder or under any other agreement between the Parties (or any Affiliates of the Parties, as applicable) in connection with the Software and/or Designated Equipment and such breach is not cured within thirty (30) days after written notice of such failure to pay is given to the defaulting Party by the non-defaulting Party;
 - (b) the other Party shall file a voluntary petition in bankruptcy or insolvency or shall petition for reorganization under any bankruptcy law, consent to an involuntary petition in bankruptcy, or if a receiving order is given against it under the Bankruptcy and Insolvency Act (Canada) or the comparable law of any other jurisdiction (and such is not dismissed within ten (10) days);

- (c) there shall be entered an order, judgment or decree by a court of competent jurisdiction, upon the application of a creditor, approving a petition seeking reorganization or appointing a receiver, trustee or liquidator of all or a substantial part of the other Party's assets and such order, judgment or decree continues in effect for a period of thirty (30) consecutive days; or
 - (d) the other Party shall fail to perform any of the other material obligations set forth in this Agreement and such default, in the case of a default which is remediable, continues for a period of thirty (30) days after written notice of such failure has been given by the non-defaulting Party or, in the case of a non-remediable default, immediately upon notice.
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 - (b) Licensee shall immediately deliver to Ross Video any of Ross Video's Confidential Information provided hereunder (including the Software and Documentation) then in its possession or control, if any, and shall deliver a certificate of an officer of Licensee certifying the completeness of same;
 - (c) Licensee shall refrain from further use of such Confidential Information; and
 - (d) Licensee shall forthwith pay all amounts owing to Ross Video or any of its Affiliates hereunder.
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19. **LANGUAGE.** The Parties have expressly required that this Agreement and all documents relating thereto be prepared in English. Les parties ont expressément exigé que cette convention ainsi que tous les documents qui s'y rattachent soient rédigés en anglais.
20. **GOVERNMENT CONTRACTS.** If the Software and/or Documentation to be furnished to Licensee hereunder are to be used in the performance of a government contract or subcontract, the Software and/or Documentation shall be provided on a "restricted rights" basis only and Licensee shall place a legend, in addition to applicable copyright notices, in the form provided under the applicable governmental regulations. For greater certainty, Ross Video shall not be subject to any flow-down provisions required by any customer of Licensee that is a Governmental Authority unless Ross Video expressly agrees to be bound by such flow-down provisions in writing.
21. **EXPORT AND IMPORT LAWS.** Licensee acknowledges and agrees that the Software (including any technical data and related technology) may be subject to the export control laws, rules, regulations, restrictions and national security controls of the United States and other applicable countries (the "**Export Controls**") and agrees not to export, re-export, import or allow the export, re-export or import of such export-controlled Software (including any technical data and related technology) or any copy, portion or direct product of the foregoing in violation of the Export Controls. Licensee hereby represents that it is not an entity or person to whom provision of the Software (including any technical data and related technology) is restricted or prohibited by the Export Controls. Licensee agrees that it has the sole responsibility to obtain any authorization to export, re-export, or import the Software (including any technical data and related technology), as may be required. Licensee will defend, indemnify and hold Ross Video harmless from any and all claims, losses, liabilities, damages, fines, penalties, costs and expenses (including attorney's fees) arising from or relating to any breach by Licensee of its obligations under this Section.
22. **AMENDMENT AND WAIVER.** No amendment, discharge, modification, restatement, supplement, termination or waiver of this Agreement or any Section of this Agreement is binding unless it is in writing and executed by the Party to be bound. No waiver of, failure to exercise or delay in exercising, any Section of this Agreement constitutes a waiver of any other Section (whether or not similar) nor does any waiver constitute a continuing waiver unless otherwise expressly provided.
23. **SEVERABILITY.** Each Section of this Agreement is distinct and severable. If any Section of this Agreement, in whole or in part, is or becomes illegal, invalid, void, voidable or unenforceable in any jurisdiction by any court of competent jurisdiction, the illegality, invalidity or unenforceability of that Section, in whole or in part, will not affect (a) the legality, validity or enforceability of the remaining Sections of this Agreement, in whole or in part; or (b) the legality, validity or enforceability of that Section, in whole or in part, in any other jurisdiction.
24. **ENTIRE AGREEMENT.** This Agreement, and any other documents referred to herein, constitutes the entire agreement between the Parties relating to the subject matter of this Agreement and supersedes all prior written or oral agreements, representations and other communications between the Parties.

Updated: November 1, 2023

Warranty and Repair Policy

Ross Video Limited (Ross) warrants its Voyager Trackless Studio systems to be free from defects under normal use and service for the following time periods from the date of shipment:

- Voyager Trackless Studio Server — 12 months
- Voyager Trackless Studio Software Upgrades — 12 months free of charge
- System and Media hard drives — 12 months

If an item becomes defective within the warranty period Ross will repair or replace the defective item, as determined solely by Ross.

Warranty repairs will be conducted at Ross, with all shipping FOB Ross dock. If repairs are conducted at the customer site, reasonable out-of-pocket charges will apply. At the discretion of Ross, and on a temporary loan basis, plug in circuit boards or other replacement parts may be supplied free of charge while defective items undergo repair. Return packing, shipping, and special handling costs are the responsibility of the customer.

This warranty is void if products are subjected to misuse, neglect, accident, improper installation or application, or unauthorized modification.

In no event shall Ross Video Limited be liable for direct, indirect, special, incidental, or consequential damages (including loss of profit). Implied warranties, including that of merchantability and fitness for a particular purpose, are expressly limited to the duration of this warranty.

This warranty is TRANSFERABLE to subsequent owners, subject to Ross' notification of change of ownership.

Extended Warranty

For customers that require a longer warranty period, Ross offers an extended warranty plan to extend the standard warranty period by one year increments. For more information about an extended warranty for your Voyager Trackless Studio system, contact your regional sales manager.

Environmental Information

The equipment that you purchased required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment.

To avoid the potential release of those substances into the environment and to diminish the need for the extraction of natural resources, Ross Video encourages you to use the appropriate take-back systems. These systems will reuse or recycle most of the materials from your end-of-life equipment in an environmentally friendly and health conscious manner.

The crossed-out wheeled bin symbol invites you to use these systems.



If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You can also contact Ross Video for more information on the environmental performances of our products.

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Information:** solutions@rossvideo.com

Website: <http://www.rossvideo.com>

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Introduction

Voyager Trackless Studio provides a cost-effective virtual studio solution, using a small studio space and fixed cameras. Encoded camera heads and pedestals are not required. Complex camera movements and simulation of dramatic moving “jib” shots are possible, the virtual cameras are in a Voyager virtual set. The intuitive interface provides controls for multiple camera presets, transitions, and the ability to trigger events to manage media within the set and add insert graphics on layers above the virtual set shots.

Voyager Trackless Studio can support multiple cameras, based on the input capacity. The application can be operated remotely by a touch screen, Ross Video Dashboard, Carbonite (using Ross Talk) or a Web browser.

About This Guide

This user guide describes Voyager Trackless Studio, its configuration, and operation.

If, at any time, you have a question pertaining to the installation or operation of Voyager Trackless Studio, please contact us at the numbers listed in the [Getting Help](#) ³ section. Our technical staff are always available for consultation, training, or service.

Document Conventions

Special text formats are used in this guide to identify parts of the user interface, text that a user must enter, or a sequence of menus and sub-menus that must be followed to reach a particular command.

Bold text Bold text identifies a user interface element such as a dialog box, menu item, or button.

For example:

In the **Slug** column, type a slug name for the story.

Bold Italic text Italic text is used to identify the titles of referenced guides, manuals, or documents.

For example:

For more information, refer to the ***DashBoard User Guide***.

`Courier text` Courier text identifies text that a user must type.

For example:

In the **Username** box, type `postgres`.

[Hypertext](#) Identifies a hyperlink to a related topic.

Getting Help

Voyager Trackless Studio documentation is available online at [Product Documentation](#) and is also accessible on the product USB key and by clicking on the **Help** icon in the user interface.

Contacting Technical Support

At Ross Video, we take pride in the quality of our products, but if problems occur, help is as close as the nearest telephone.

Our 24-hour Hot Line service ensures you have access to technical expertise around the clock. After-sales service and technical support is provided directly by Ross Video personnel. During business hours (Eastern Time), technical support personnel are available by telephone. After hours and on weekends, a direct emergency technical support phone line is available. If the technical support person who is on call does not answer this line immediately, a voice message can be left and the call will be returned shortly. This team of highly trained staff is available to react to any problem and to do whatever is necessary to ensure customer satisfaction.

Technical Support:

- 1-844-652-0645 (North America)
- +800 1005 0100 (International)
- After Hours Emergency: (+1) 613-349-0006
- E-mail: techsupport@rossvideo.com
- Website: <http://www.rossvideo.com>

Voyager Trackless Studio Requirements

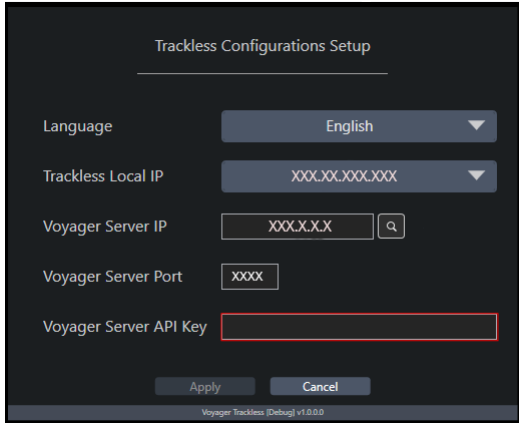
Install and launch the Voyager engine.

Voyager Trackless Studio Requirements:

- Voyager 5.1 build 516 or higher installed in the same local network and/or reachable by the client applications and devices you are using with Voyager Trackless Studio.
- Voyager Trackless Studio Plugin License must be included in the Voyager License dongle.
- Voyager Trackless Studio GUI requires a 1920 x 1080 Windows® display resolution, 100% scale is recommended.
- 4K 3840 x 2160 Windows® display resolution at 200% scale is supported.
- Firewall must be disabled or properly configured to enable required network communication.
- To view more information on licensed features, third party licenses and changes in this version, see **Help > About** in the Voyager Trackless Studio interface.

Launching Voyager Trackless Studio

The **Trackless Configurations Setup** dialog box opens the first time you launch the program after installation. You will use this dialog to establish a connection between Voyager Trackless Studio and the Voyager engine.



Trackless Configuration Setup

To configure Voyager Trackless Studio and connect with the Voyager engine:

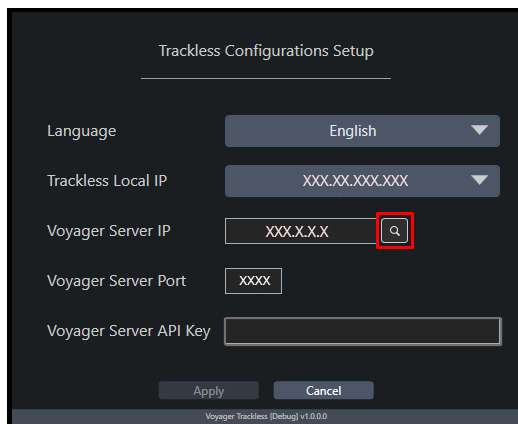
1. From the **Language** drop-down menu select an option to set the preferred language.
2. From the **Trackless Local IP** drop-down list select an IP address.
3. In the **Voyager Server IP** field, enter the **IP** address.

The **Voyager Server IP** needs to match the target Voyager engine IP address.

4. In the **Voyager Server Port** field, enter the port number.

The **Voyager Server Port** number needs to match the target Voyager engine **Web API** port. The port number can be found in the **Voyager** main menu **Window > Voyager > Web API Settings**.

If the IP address and port number are unknown, select the search icon. Voyager Trackless Studio will detect and display the IP address and port number of any available **Voyager** engine with a **Trackless Plugin** enabled.

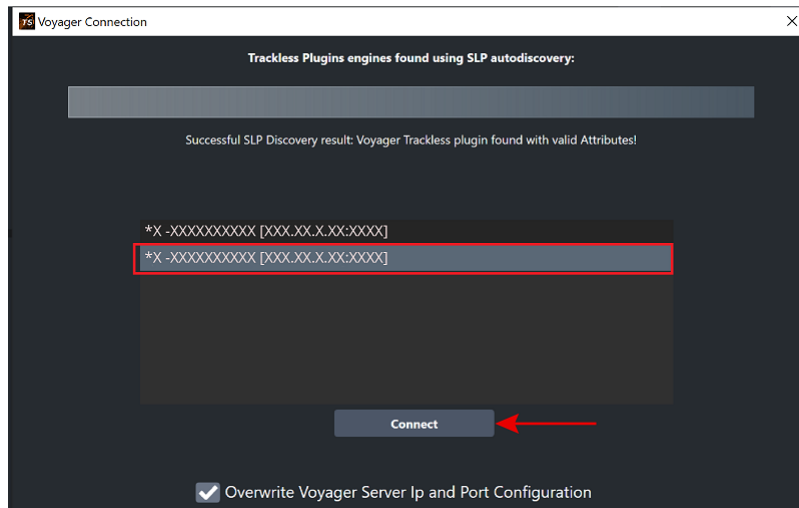


Select a Voyager Server IP and Port Number

5. Select **Apply**.

If the connection does not work, either the **IP Address** or **Port** are incorrect. An **Autodiscovery** window opens and Voyager Trackless Studio will automatically detect and display the IP address and port number of any available **Voyager** engine with a **Trackless Plugin** enabled.

6. Double-click an **IP Address** or enter an IP address to match the one running the **Voyager** engine.
7. Select **Connect** to establish the connection.



IP Address Confirm

Voyager Trackless Studio will launch.

Trackless Ready Checklist

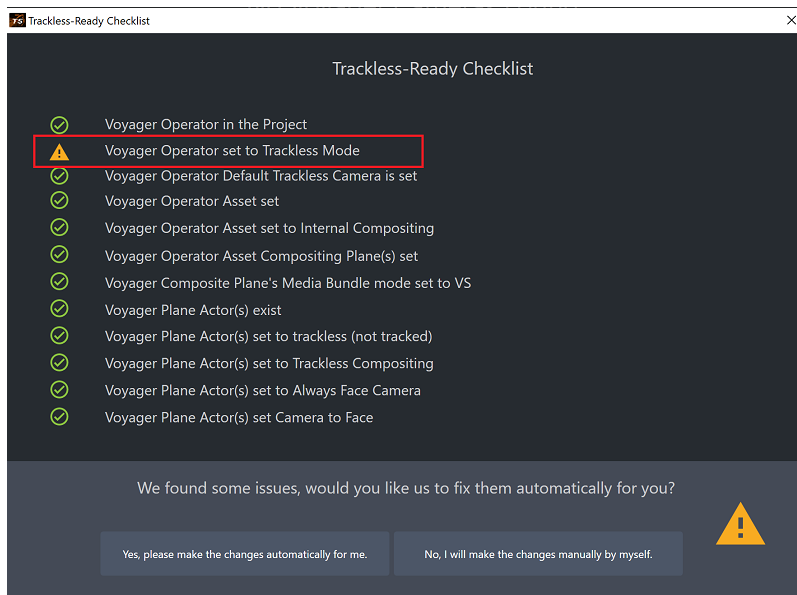
When opening your project in Voyager Trackless Studio you may encounter a **Trackless-Ready Checklist** pop-up that lists any deficiencies the project requires to be **Trackless-Ready**.

- Select **Yes, please make the changes automatically for me**.

The updates will automatically be applied in **Voyager** and the project is now **Trackless-Ready**.

OR

Select **No, I will make the changes manually by myself**.



Trackless Ready Checklist

Setup

Voyager Trackless Studio can be controlled using a number of Ross and third party products, as described in the following topics.

This chapter covers the following topics:

[Controlling Voyager Trackless Studio with RossTalk Commands](#) 9

[Controlling Voyager Trackless Studio from Dashboard](#) 12

[Controlling Voyager Trackless Studio with Stream Deck](#) 15

[Controlling Voyager Trackless Studio with Sony VISCA Controller](#) 24

[Controlling Voyager Trackless Studio from an XKeys Device](#) 25

[Controlling Voyager Trackless Studio From a Web Interface](#) 26

[Triggering Events from a Game Controller](#) 29

Controlling Voyager Trackless Studio with RossTalk Commands

The **RossTalk** port is configured in the **Voyager Trackless Studio Servers** ⁴². The **Port** must not be in use by any other application while **Voyager Trackless Studio** is running and it must be allowed within the computer firewall settings.

Refer to [Appendix A: Enabling a Port Number in the Firewall](#) ⁷⁷.

Camera Commands

The following table provides the RossTalk Commands for **Cameras 1** and **2**.

Camera 1			Camera 2		
Command	Extra Parameters	Description	Command	Extra Parameters	Description
GPI	01	Recall Camera 1	GPI	02	Recall Camera 2
GPI	10	Recall Camera 1 Preset 1	GPI	20	Recall Camera 2 Preset 1
GPI	11	Recall Camera 1 Preset 2	GPI	21	Recall Camera 2 Preset 2
GPI	12	Recall Camera 1 Preset 3	GPI	22	Recall Camera 2 Preset 3
GPI	13	Recall Camera 1 Preset 4	GPI	23	Recall Camera 2 Preset 4
GPI	14	Recall Camera 1 Preset 5	GPI	24	Recall Camera 2 Preset 5
GPI	15	Recall Camera 1 Preset 6	GPI	25	Recall Camera 2 Preset 6
GPI	16	Recall Camera 1 Preset 7	GPI	26	Recall Camera 2 Preset 7
GPI	17	Recall Camera 1 Preset 8	GPI	27	Recall Camera 2 Preset 8
GPI	18	Recall Camera 1 Preset 9	GPI	28	Recall Camera 2 Preset 9
GPI	19	Recall Camera 1 Preset 10	GPI	29	Recall Camera 2 Preset 10

The following table provides the RossTalk Commands for **Cameras 3** and **4**.

Camera 3			Camera 4		
Command	Extra Parameters	Description	Command	Extra Parameters	Description
GPI	03	Recall Camera 3	GPI	04	Recall Camera 4
GPI	30	Recall Camera 3 Preset 1	GPI	40	Recall Camera 4 Preset 1
GPI	31	Recall Camera 3 Preset 2	GPI	41	Recall Camera 4 Preset 2
GPI	32	Recall Camera 3 Preset 3	GPI	42	Recall Camera 4 Preset 3
GPI	33	Recall Camera 3 Preset 4	GPI	43	Recall Camera 4 Preset 4
GPI	34	Recall Camera 3 Preset 5	GPI	44	Recall Camera 4 Preset 5
GPI	35	Recall Camera 3 Preset 6	GPI	45	Recall Camera 4 Preset 6
GPI	36	Recall Camera 3 Preset 7	GPI	46	Recall Camera 4 Preset 7
GPI	37	Recall Camera 3 Preset 8	GPI	47	Recall Camera 4 Preset 8
GPI	38	Recall Camera 3 Preset 9	GPI	48	Recall Camera 4 Preset 9
GPI	39	Recall Camera 3 Preset 10	GPI	49	Recall Camera 4 Preset 10

Event Commands

Events added to Voyager Trackless Studio will generate their own **GPI** values ranging from **501** to **599**.

Use these GPI values located in the **Events** table under the **Events** tab to recall events.

#	GPI	Name	Type	Target	Description	Button	Show In Web UI	Execute
01	501	Hello	Blueprint Node	MediaControllerBundle	Event 0	Unassigned	<input checked="" type="checkbox"/>	Execute
02	502	Good Morning	Blueprint Node	MediaControllerBundle	Event 0	Unassigned	<input checked="" type="checkbox"/>	Execute
03	503	Weather	Blueprint Node	MediaControllerBundle	Event 0	Unassigned	<input checked="" type="checkbox"/>	Execute
04	504	Traffic	Blueprint Node	MediaControllerBundle	Event 0	Unassigned	<input checked="" type="checkbox"/>	Execute

Edit Event Validate Events Delete Selected Event Delete All Events

Events Table - GPI Commands

The following table provides additional RossTalk commands for **Events**.

Command	Extra Parameters	Description
FOCUS	Select Event number (X)	Focus on selected Event number (X)
NEXT		Execute the current focused Event and move to the next one

Controlling Voyager Trackless Studio from DashBoard

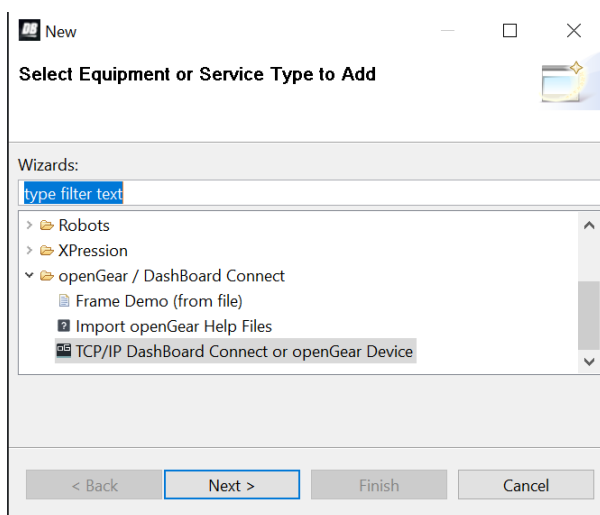
DashBoard is an open platform tool for creating custom workflows to control IP-based devices that can be used with most Ross Video products. It is available for download (free) from the [Ross Video Website](#).

When DashBoard has been enabled in Voyager Trackless Studio and a connection has been established, you can trigger events and recall existing camera presets from the DashBoard panel. You can also create a custom DashBoard panel containing only those events and camera presets you will be using.

To enable DashBoard in Voyager Trackless Studio, refer to [Servers](#) ⁸.

To connect Voyager Trackless Studio to DashBoard:

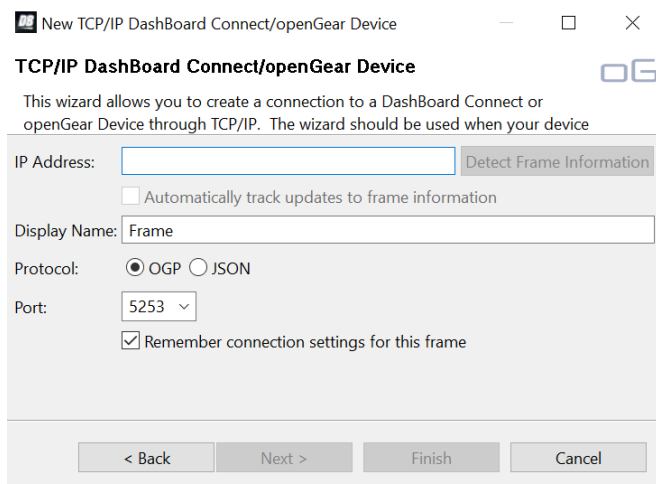
1. Launch **DashBoard** from the desktop icon.
2. Select the **Add New Connection (+)** button in the **Basic Tree View** toolbar to open the **Select Equipment or Service Type to Add** dialog.



Select Equipment or Service Type to Add Dialog

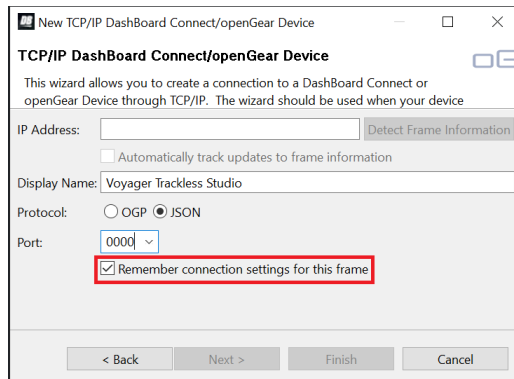
3. Expand the **openGear / DashBoard Connect** folder.
4. Select **TCP/IP DashBoard Connect** or **openGear Device** and select **Next**.

The **New TCP openGear Frame Connection** dialog opens.



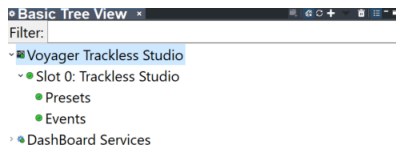
New TCP openGear Frame Connection Dialog

5. In the **IP Address** field, enter the IP address of the computer running Voyager Trackless Studio.
 - ★ Do not click **Detect Frame Information**.
6. In the **Display Name** field, enter `Voyager Trackless Studio`.
7. Select the **JSON Protocol** option.
8. Set the **Port** as the **DashBoard Server Port** from the **Trackless Settings** menu in Voyager Trackless Studio.
9. Select the **Remember connection settings for this frame** check box and select **Finish**.



New TCP openGear Frame Dialog

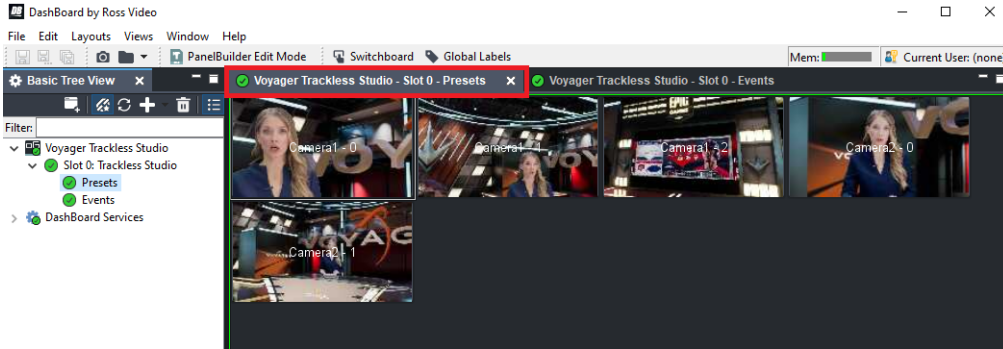
In the **Basic Tree View**, you'll see that Voyager Trackless Studio has been added to the list.



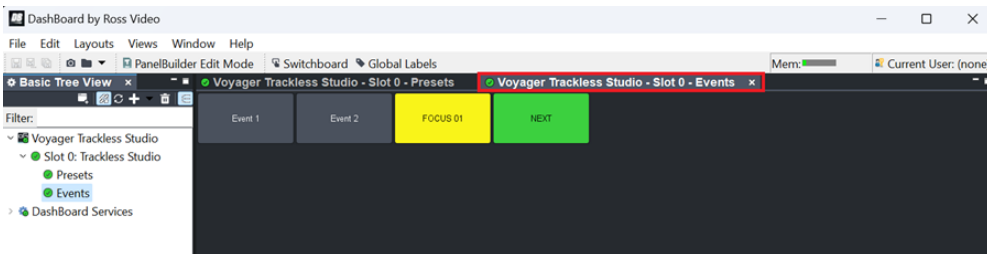
Voyager Trackless Studio in DashBoard Basic Tree View

To operate the latest Presets and Events:

1. In the **Basic Tree View**, expand Voyager Trackless Studio and double-click on **Presets** and then on **Events** to open the panels.

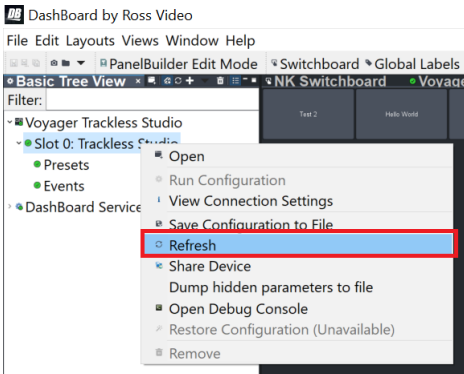


Dashboard Presets Panel



Dashboard Events Panel

2. Right-click **Slot 0: Trackless Studio** and select **Refresh** to update camera presets and events from Voyager Trackless Studio.



Dashboard Refresh

Controlling Voyager Trackless Studio with Stream Deck

Use **Stream Deck** and **Stream Deck+** with Voyager Trackless Studio and enable keys and knobs with actions to launch camera presets and events.

You can create and display titles for **Events**, **Camera Presets** and **Commands** to be read on **Stream Deck**.

To use Voyager Trackless Studio with **Stream Deck** and **Stream Deck+** you must install the **Voyager Trackless Stream Deck Plugin**. This component is selected during the installation of Voyager Trackless. If it wasn't selected, run the installation again and in the **Select Components** screen, select the **Voyager Trackless Plugin for Stream Deck** checkbox.

[To configure Stream Deck in Voyager Trackless Studio](#)¹⁵

[To configure a Stream Deck dial with Stream Deck+ in Voyager Trackless Studio](#)¹⁹

To configure Stream Deck in Voyager Trackless Studio:

1. From the Voyager Trackless Studio main menu, select **Options > Settings > Servers**.
2. Check to enable the **Web Server** and note the **Web Server Port** to input into **Stream Deck**.

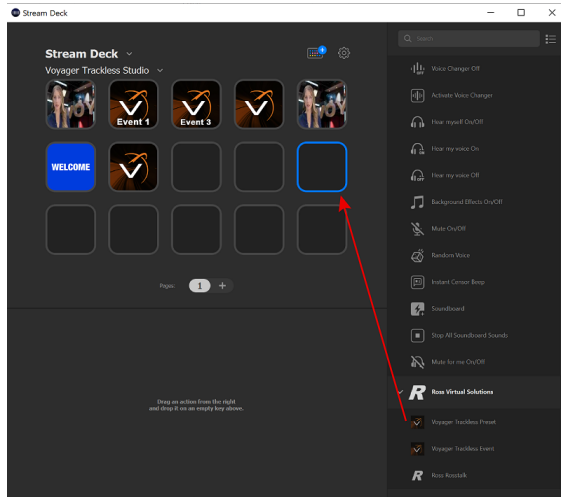
For more information on the Web Server refer to [Controlling Voyager Trackless Studio From a Web Interface](#)²⁶.



Voyager Trackless Studio Web Server Settings

To add Presets, Events or RossTalk Commands to Stream Deck:

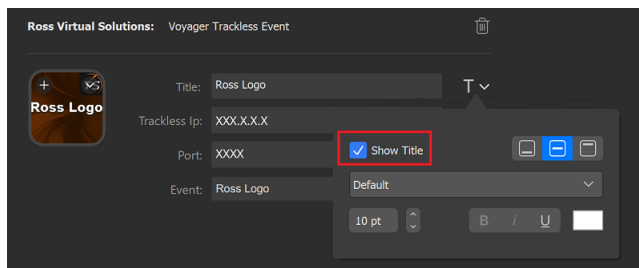
1. From the Stream Deck application, under the **Ross Virtual Solutions** tab, select a Voyager Trackless **Preset**, **Event** or **RossTalk Command** into a selected key.



Adding Presets, Events and RossTalk Commands to Stream Deck

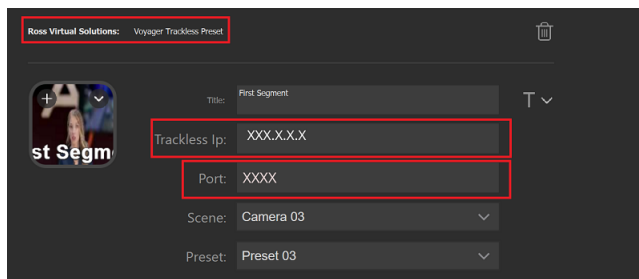
To configure a Stream Deck key with a camera preset:

1. In the **Preset** details, enter a **Title** for the preset that will be displayed on the Stream Deck key.
2. Select the arrow to open the **Title** menu where you can change the font, size, and placement.
3. Press **Enter** after a word in the title to move it to another line.



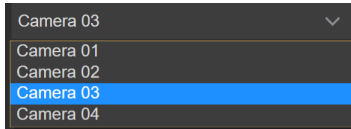
Stream Deck Title Menu

4. Set the **Trackless IP** address of the machine running Voyager Trackless Studio.
5. Set the **Port** number to match the **Web Server Port** from Voyager Trackless Studio.
6. For more information on Web Servers refer to [Controlling Voyager Trackless Studio From a Web Interface](#).



Adding Camera Presets

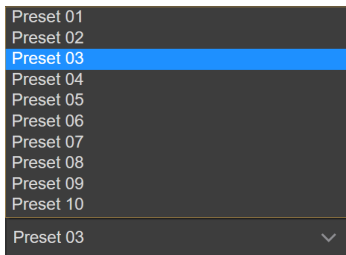
- From the **Scene** drop-down, select the camera with the preset you want to assign to the key.



Stream Deck - Camera Selections

The camera has been assigned to the **Scene**.

- From the **Preset** drop-down, select the preset you want to assign to the key.

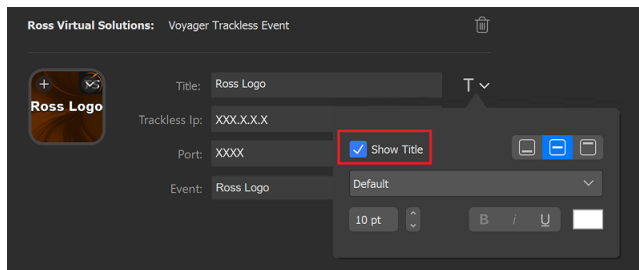


Stream Deck - Presets

The preset has been assigned.

To configure a Stream Deck key with an Event:

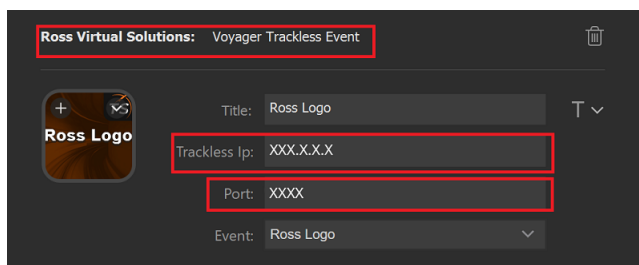
- In the **Event** details, enter a **Title** for the event that will be displayed on the Stream Deck key.
- Select the drop-down arrow to open the **Title** menu where you can change the font, size, and placement.



Stream Deck Title Menu

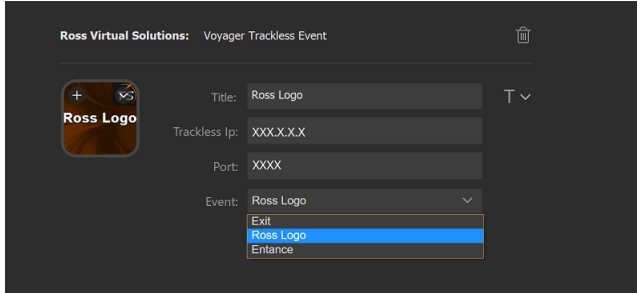
- Set the **Trackless IP** to the IP address of the machine running Voyager Trackless Studio.
- Set the **Port** number to match the **Web Server Port** from Voyager Trackless Studio.

For more information on Web Servers refer to [Controlling Voyager Trackless Studio From a Web Interface](#) ²⁶.



Stream Deck - Adding RVS Events

- From the **Event** drop-down, select the **Event** you want to assign to the key.

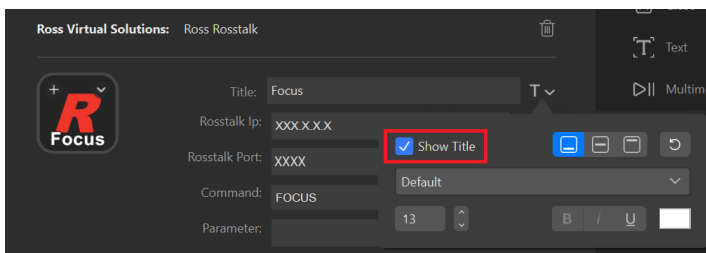


Stream Deck Event Selection

The event has been assigned.

To configure a Stream Deck key with a Rosstalk Command:

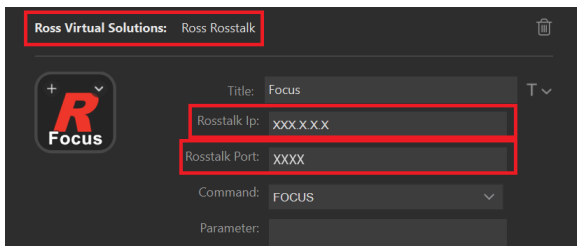
- In the **Rosstalk** details, enter a **Title** for the event that will be displayed on the Stream Deck key.
- Select the drop-down arrow to open the **Title** menu where you can change the font, size and placement.



Stream Deck Title Menu

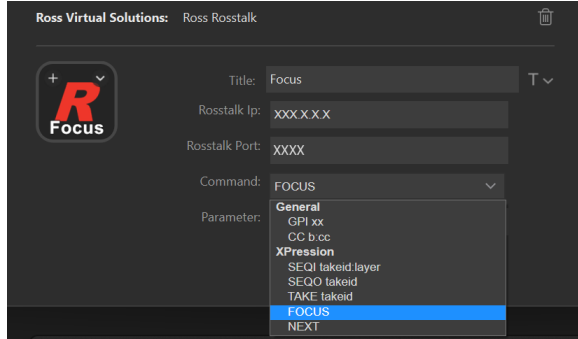
- Set the **Rosstalk IP** to the IP address of the machine running Voyager Trackless Studio.
- Set the **Port** number to match the **Rosstalk Port** from Voyager Trackless Studio.

For information on **Voyager Trackless Studio Port** numbers refer to [Servers](#)⁴².



Stream Deck Rosstalk IP and Port Numbers

- From the **Command** drop-down, select the **Command** you want to assign to the key.



Stream Deck Command Selection

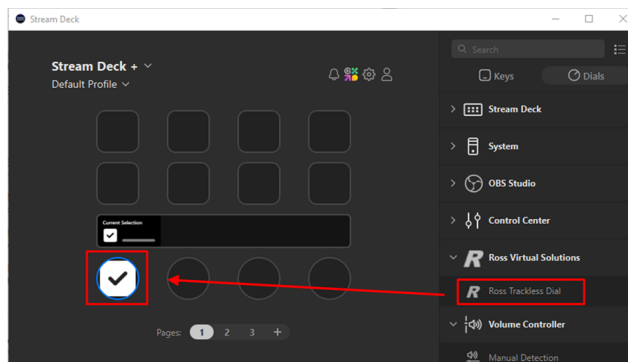
The RossTalk Command has been assigned.

To configure a Stream Deck Dial with Stream Deck+:

- From the **Ross Virtual Solutions** tab, select and drag the **Ross Trackless Dial** to one of the four Stream Deck+ dials.

An icon will appear displaying that the default **Action [Current Selection]** has been added to the dial.

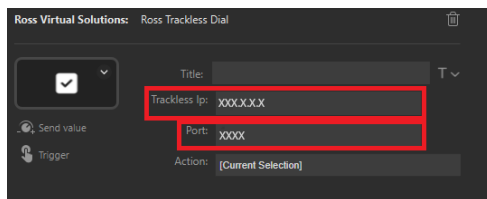
Each **Action** will have its own icon. For information on each of the actions and their functions see the [table](#) below.



Stream Deck+ Ross Trackless Dial

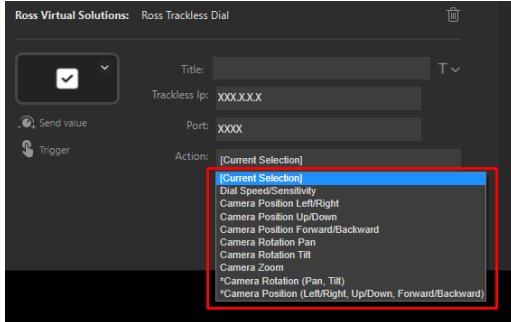
- Set the **Trackless IP** to the IP address of the machine running Voyager Trackless Studio.
- Set the **Port** number to match the **RossTalk Port** from Voyager Trackless Studio.

For information on **Voyager Trackless Studio Port** numbers refer to [Servers](#).



Stream Deck+ Ross Trackless Dial IP and Port Numbers.

4. From the **Action** drop-down, select the **Action** you want to assign to the Ross Trackless Dial.



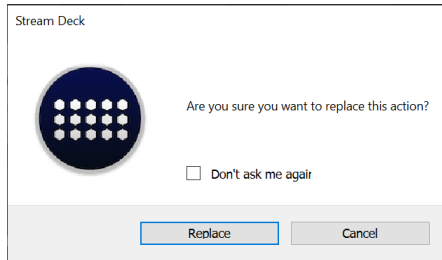
Stream Deck+ Ross Trackless Dial - Action

The following table describes the **Action** functions.

Action	Function
[Current Selection]	The dial will change the value of the current selected number field in Voyager Trackless Studio.
Dial Speed/Sensitivity	The dial will change the Speed/Sensitivity of all the other dials. This is a general setting.
Camera Position Left/Right	The dial will manually move the camera to the Left or Right .
Camera Position Up/Down	The dial will manually move the camera Up or Down .
Camera Position Forward/Backward	The dial will manually move the camera Forward or Backward .
Camera Rotation Pan	The dial will manually rotate the camera to the left or right.
Camera Rotation Tilt	The dial will manually rotate the camera up or down.
Camera Zoom	The dial will manually zoom the camera in or out.
*Camera Rotation (Pan, Tilt)	The dial supports both Rotation Pan and Rotation Tilt , push the dial to toggle between the modes. Rotating the dial will execute the selected toggle option: Rotation Pan or Rotation Tilt .
*Camera Position (Left/Right, Up/Down, Forward/Backward)	The dial supports all three positions, Left/Right , Up/Down and Forward/Backward . Push the dial to toggle between them. Rotate the dial to execute the selected toggle option: Move Left/Right, Up/Down and Forward/Backward .

To replace Camera Presets or Events:

1. Drag and drop an additional **Camera Preset** or **Event** over top of an existing one to replace that camera preset or event.
2. In the confirmation dialog, select **Replace**.



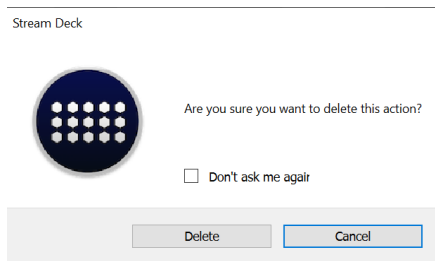
Stream Deck - Replace Action

To delete Camera Presets or Events:

1. Select the **Camera Preset** or **Event** you want to remove.
2. Right-click and select **Delete**.

Alternatively, in the **Details** section, select the trash bin icon.

In the **Confirmation** dialog, select **Delete**.

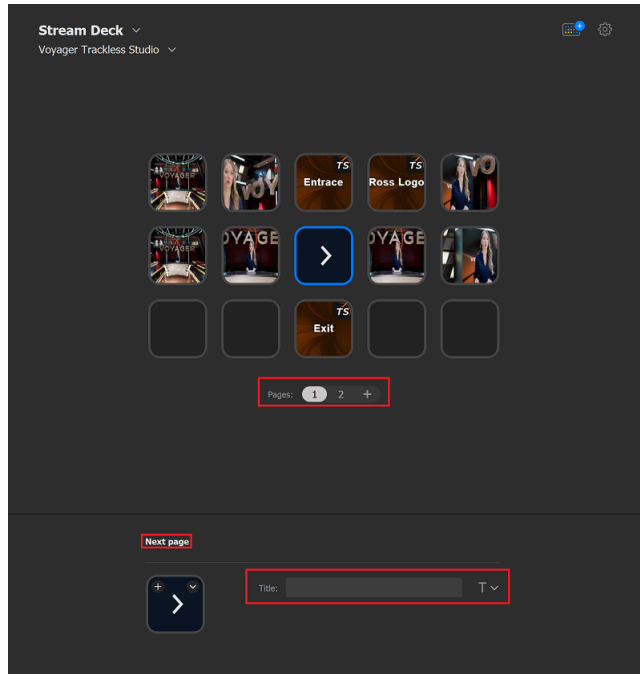


Stream Deck - Delete Action

To add additional pages in Stream Deck:

1. Select the **+** icon beside the **Page** indicator to add another page.
2. Return to the previous page and select the **Next** icon.
3. In the **Title** field below the grid, enter a name for the page.

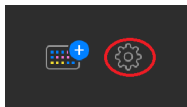
This is optional, but useful if you want to group events or presets by show, action, time, etc.



Stream Deck Next Page Title

To make Voyager Trackless Studio a Default Profile in Stream Deck (optional):

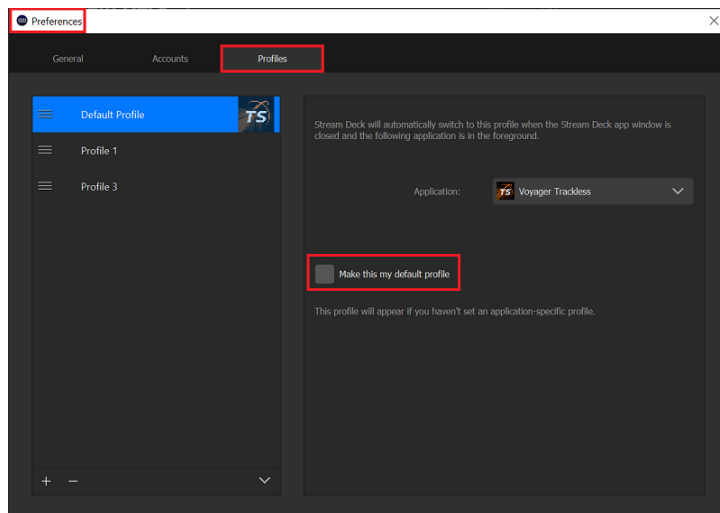
1. From the **Start** menu, open Stream Deck.
2. Select the **Gear** icon.



Stream Deck Gear Icon

1. In the **Preferences** window select **Profiles**.
2. On the left side of the **Profiles** tab, select **Default Profile**.
3. On the right side of the **Profiles** tab, from the **Application** drop-down, select **Voyager Trackless**.
4. If there is another application currently selected as the default profile, select that application on the left side and deselect the **Make this my default profile** checkbox.

5. Select **Voyager Trackless** again and select the **Make this my default profile** checkbox.



Stream Deck Preferences

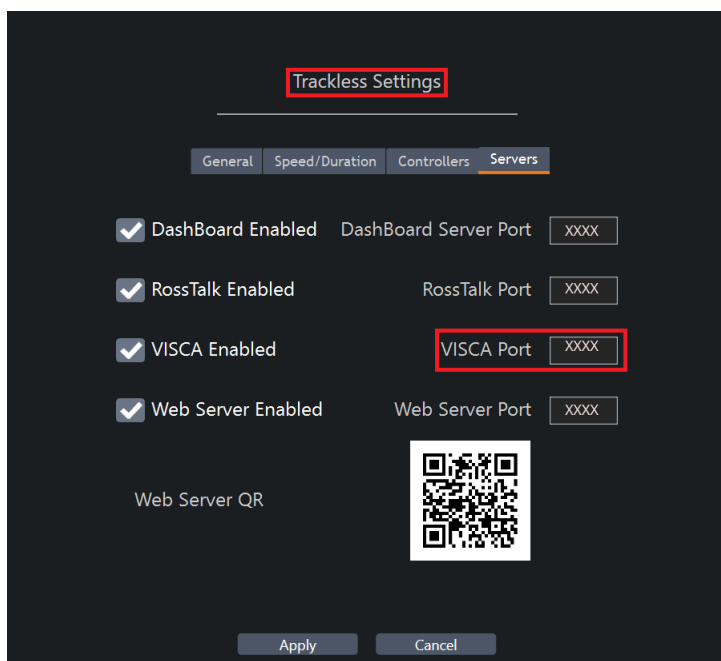
Controlling Voyager Trackless Studio with Sony VISCA Controller

Voyager Trackless Studio supports **Sony VISCA** protocol when using a **Ross Carbonite Switcher Joystick** or any other **Sony VISCA** compatible device to manually operate the virtual camera.

The implementation of the **Sony VISCA** protocol with Voyager Trackless Studio supports pan, tilt, focus, zoom, and recalling presets.

To configure Sony VISCA Controller:

1. From the Voyager Trackless Studio main menu, select **Options > Settings > Servers**.
2. Check to enable the **Sony VISCA Controller** and set the **Sony VISCA Port** for incoming **Sony VISCA** connections.



Voyager Trackless Studio Sony VISCA Settings

Supported Sony VISCA Commands

The following table provides a list of **Sony VISCA** protocol commands currently supported by Voyager Trackless Studio.

Command	Command Packet
RELATIVE POSITION (PAN TILT)	8x 01 06 01 VV WW XX YY FF
ZOOM	8x 01 04 07 XX FF
FOCUS	8x 01 04 08 XX FF
RECALL PRESET	8x 01 04 3F 01 XX FF

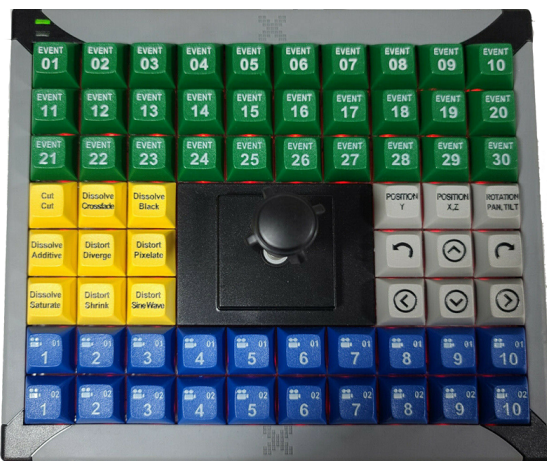
Controlling Voyager Trackless Studio from an XKeys Device

The XKeys controller is an external device you can use to trigger **Camera Presets** and **Events** that have been set up in Voyager Trackless Studio.

To use an XKeys device with Voyager Trackless Studio:

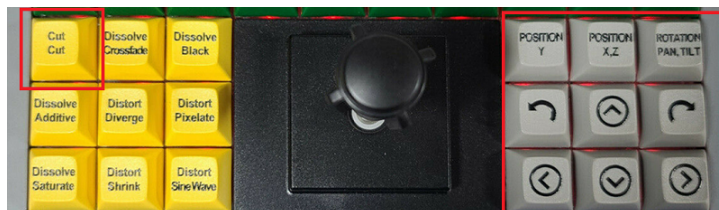
1. Connect the XKeys device to the same computer operating Voyager Trackless Studio.
 - Use the green keys at the top of the keypad to trigger events that have been added to the Voyager Trackless Studio **Event** panel.
 - Use the blue keys at the bottom of the keypad to trigger the camera presets created in Voyager Trackless Studio in the **Production Control** panel.

Presets 1-10 can be called on for Cameras 1 and 2.



XKeys Keypad and Joystick

- Use the gray keys as follows:
 - The top 3 keys specify the joystick movements.
 - The 4 arrows move the camera forward, backward, left, and right accordingly.
 - The 2 center outer keys rotate the camera left and right.
- Use the yellow keys to select the **Camera Transition** effect.
 - Cut is the only key currently supported in Voyager Trackless.



Cut Key and Camera Controls

Controlling Voyager Trackless Studio From a Web Interface

Voyager Trackless Studio can be controlled from a web interface.

Voyager Trackless Studio includes an internal web server for calling camera presets and events from web browser-enabled devices such as Android WiFi tablets and iPad WiFi, among others.

This chapter covers the following topics:

[Accessing the Web Server Controls](#) ²⁶

[Accessing Web Server Mobile Controls with a QR Code](#) ²⁸

Accessing the Web Server Controls

You will need to configure the **Web Server** port number in Trackless Studio Settings and in your web browser, as described below:

To access the Web interface:

1. From the Voyager Trackless Studio main menu, go to **Options > Settings > Servers** tab and enable the **Web Server**.
2. Use the default **Web Server Port** number or change it to suit your network.
3. Ensure the port you enter here matches the port in the **Browser URL** field.

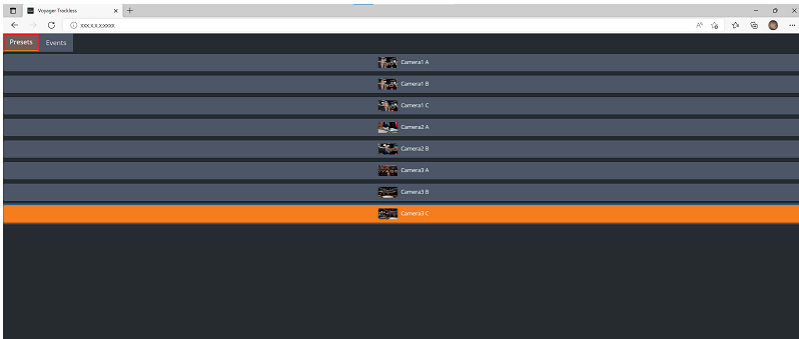


Web Server Enabled

4. Select **Apply**.
The application will restart with the new settings.
5. With Voyager Trackless Studio running, open a web browser and in the **URL** field, enter the **IP** address of the computer running Voyager Trackless Studio, followed by the **Web Server Port** number, separated by a colon, e.g., 100.123.4.567:8083.

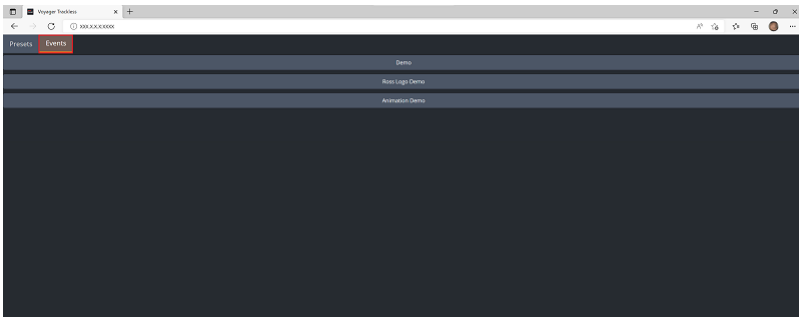
A **Web GUI** is launched.

6. Use the **Camera Presets** interface to control the selection of camera movements created in Voyager Trackless Studio.



Web GUI – Camera Presets

7. Use the **Events** interface to trigger the events added in Voyager Trackless Studio.



Web GUI - Events

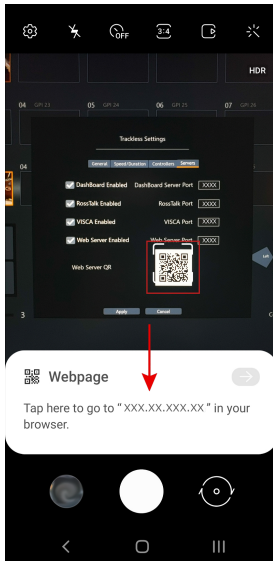
8. After making changes in Voyager Trackless Studio reload the page to view the updated list of **Camera Presets** or **Events**.
9. Select the **Refresh** symbol in the browser window to update the **Web GUI**.

Accessing Web Server Mobile Controls with a QR Code

You can control Voyager Trackless Studio with your mobile device by scanning the **Web Server QR**.

To access the Mobile Web interface:

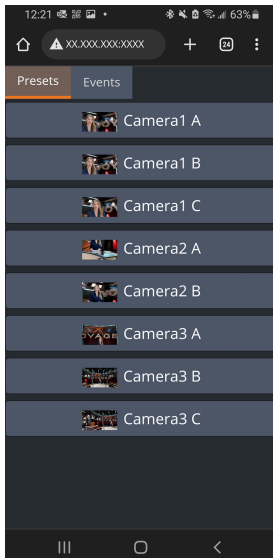
1. From the Voyager Trackless Studio main menu, go to **Options > Settings > Servers**.
2. Scan the **QR Code** with a mobile device camera.



IP Address from QR Scan

3. Select the **IP address** that pops up.

A browser window will open and the **Mobile Web GUI** is launched.



Mobile Web GUI

★ If the **Mobile Web GUI** fails to launch, refer to [Appendix A: Enabling a Port Number in the Firewall settings](#)⁷⁷.

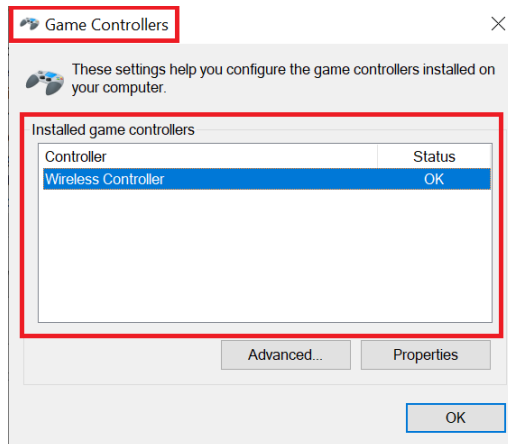
Triggering Events from a Game Controller

Connect game controllers to trigger events in Voyager Trackless Studio.

Validating a Game Controller in Windows:

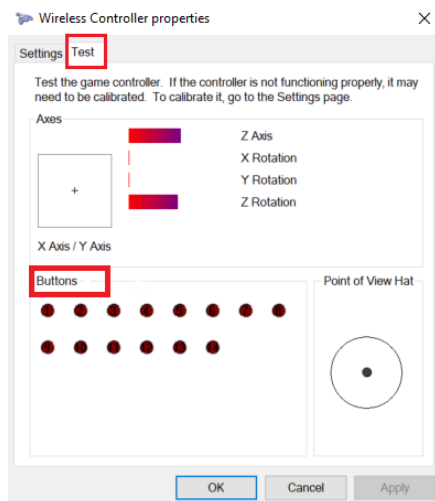
1. Connect a game controller to the computer either by cable or wireless connection.
2. In the **Startup Menu** search **Setup USB Game Controller**.
3. Confirm the added device has been registered in the list of **Installed Game Controllers**.

Status is **OK** when properly connected.



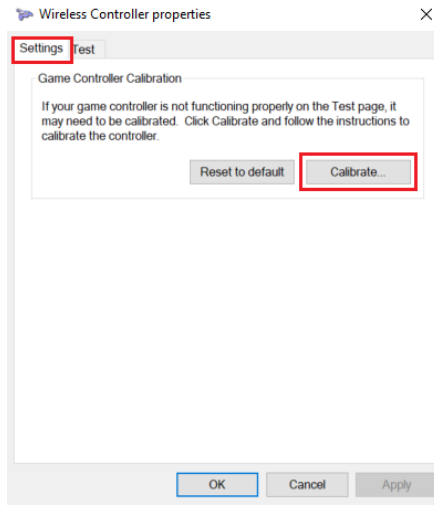
Game Controllers Window

4. Select **Properties**.
5. Test the game controller and view the active buttons.



Wireless Controller Properties - Test

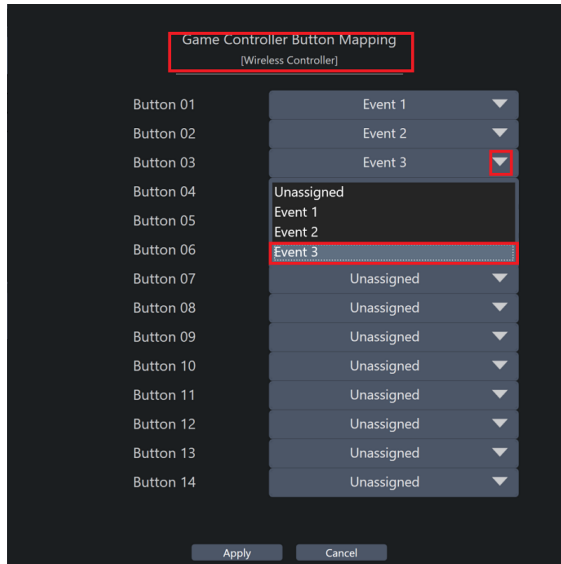
6. If the game controller is not functioning on the **Test** page, select **Settings > Calibrate** and follow the instructions to calibrate the controller.



Wireless Controller Properties - Calibrate

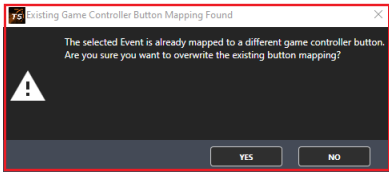
Configuring a Game Controller in Trackless:

1. From the Voyager Trackless Studio main menu, go to **Options > Settings > Controllers** and confirm that a game controller is enabled.
2. Select **Game Controller Button Mapping** and use the drop-down to assign each event to a button.



Voyager Trackless Studio - Game Controller Button Mapping

- To overwrite a button that has already been mapped with an **Event**, select the **Event** you now want to trigger and select **YES** in the confirmation dialog.



Overwrite Button Mapping

In the **Events** tab, you can see which **Game Controller** button is assigned to each event.

#	GPI	Name	Type	Target	Description	Button	Execute
01	501	Event 1	Blueprint Node	Event 1	Event 0	Button 01	Execute
02	502	Event 2	Blueprint Node	Video.Layer_2	Event 0	Button 02	Execute
03	503	Event 3	Blueprint Node	Event with Delay	DelayedEvent 0	Button 03	Execute

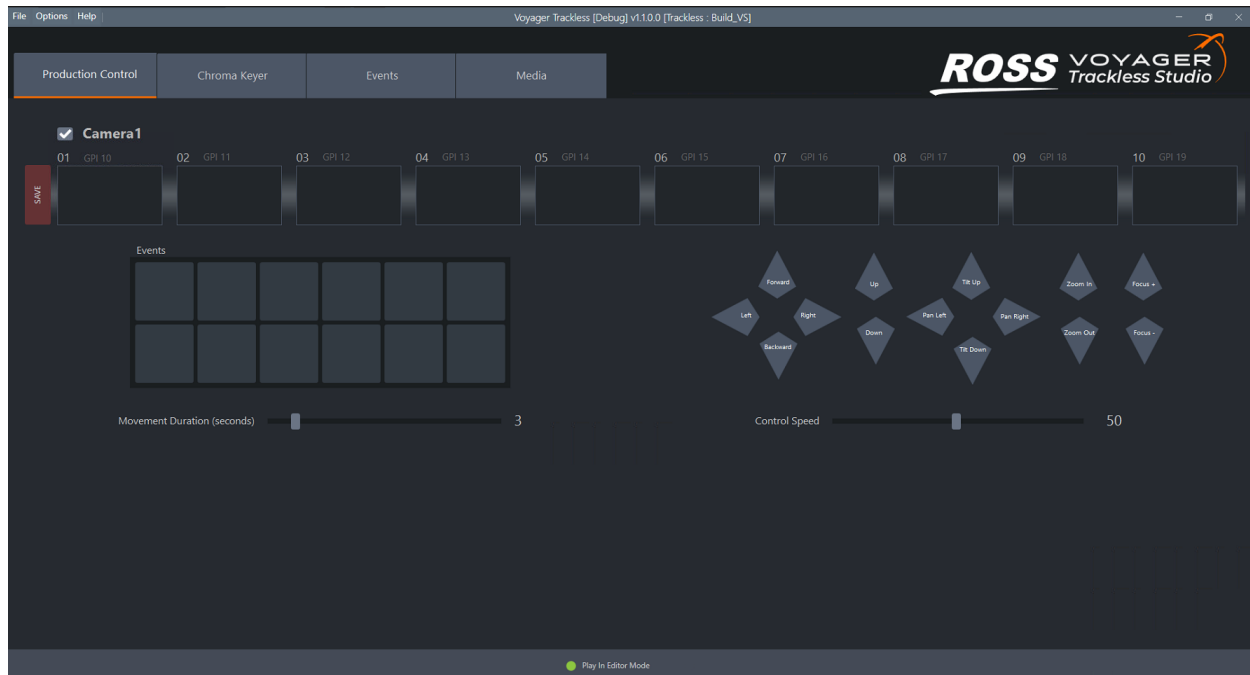
Buttons at the bottom: Validate Events, Delete Selected Event, Delete All Events

Events Tab - Game Controller Buttons

- ★ Users can rearrange events by dragging and dropping. This will not change the game controller buttons assigned to the rearranged events.

Operation

This section describes the Voyager Trackless Studio interface and its functions.



Voyager Trackless UI

This chapter covers the following topics:

[Menus](#) [33]

[Production Control](#) [45]

[Chroma Keyer](#) [51]

[Global Actions](#) [57]

[Events](#) [58]

[Media](#) [67]

[Shutting Down Voyager Trackless Studio](#) [76]

Menus

There are three menus in the top-left corner of the Voyager Trackless Studio Interface:

[File](#) 

[Options](#) 

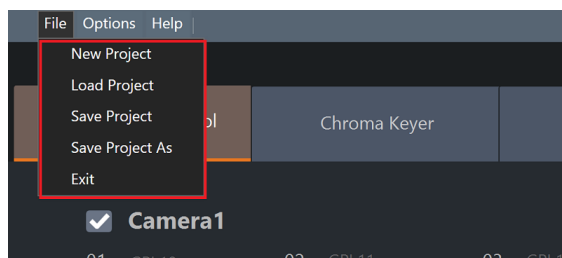
[Help](#) 

File

The **File** menu contains options for loading and saving the Voyager Trackless Studio settings for your Voyager project and for exiting the application.

To load and save the Voyager Trackless Studio settings:

- From the Voyager Trackless Studio main menu, select **File** to view the drop-down menu and select one of the following options:



File Menu Options

- Select **New Project** to start a new project.
 - Select **Load Project** to load project settings from a ***.voy** file.
 - Select **Save Project** to save project settings to a ***.voy** file
 - Select **Save Project As** to save project settings to a new file without overwriting the existing file.
- ★ Selecting **Save Project** and **Save Project As** will store the entire configuration, including the thumbnail images in the selected folder.

To exit the Voyager Trackless Studio application:

- From the Voyager Trackless Studio main menu, select **File > Exit**.

For more information on...

- Exiting and closing Voyager Trackless Studio, refer to [Shutting Down Voyager Trackless Studio](#) 

Options

The **Options** menu contains multiple Trackless settings including: **General/Speed/Duration/Controllers/Servers**.

When launching Voyager Trackless Studio after the initial install, a dialogue box will open to allow configuration of the **General Settings**, these settings will be saved and available for use on any project. Any settings that require updating after the initial setup are configured in **Trackless Settings**.

[General Settings](#) 

[Speed/Duration](#) 

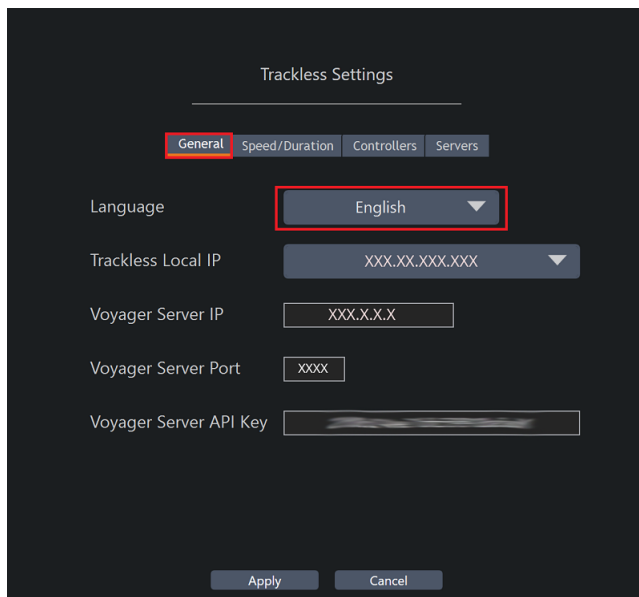
[Controllers](#) 

[Servers](#) 

General Settings

To configure the General Settings:

1. From the Voyager Trackless Studio main menu, click **Options > Settings > General**.
2. Set the preferred language by choosing from the options in the drop-down.



Language Settings

3. From the **Trackless Local IP** drop-down select an IP address, if there are multiple options.
Ensure it is in the same local network and/or reachable by the client applications and devices you are using with Voyager Trackless Studio.
4. In the **Voyager Server IP** field, set the IP address.
Ensure the **Voyager Server IP** matches the target Voyager engine IP address.

5. In the **Voyager Server Port** field, set the **Port** number.

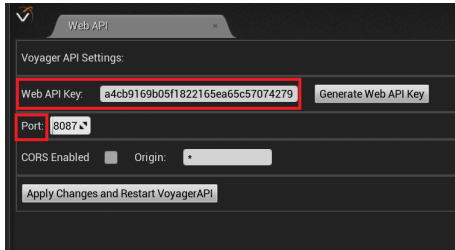
Ensure the **Port** number matches the target Voyager engine Web API port.

The **Port** number is located in the Voyager main menu **Window > Voyager > Web API Settings**.

You will need to ensure the **Server Port** is not blocked by **Windows Defender Firewall**. For information about enabling ports in Windows, refer to [Appendix A: Enabling a Port Number in the Firewall](#)^[77].

6. In the **Voyager Server API Key** field enter the **API Key** copied from Voyager.

The **API Key** can be found in the Voyager main menu **Window > Voyager > Web API Settings**.

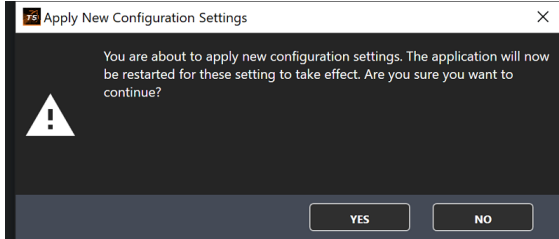


Server Port and Web API Key in Voyager

To save new configuration settings:

1. Select **Apply** once configuration of all settings is complete.

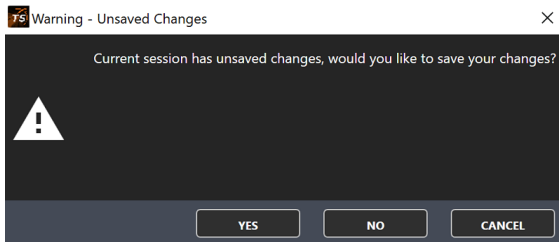
A dialog will appear warning that the program will restart.



Apply Configuration Settings

2. Select **Yes**.

A dialog will prompt you to save any unsaved changes.



Saving Unsaved Changes

3. Name the project, if it is a new project and navigate to the preferred directory.

4. Select **Save**.

The application will restart with the new settings.

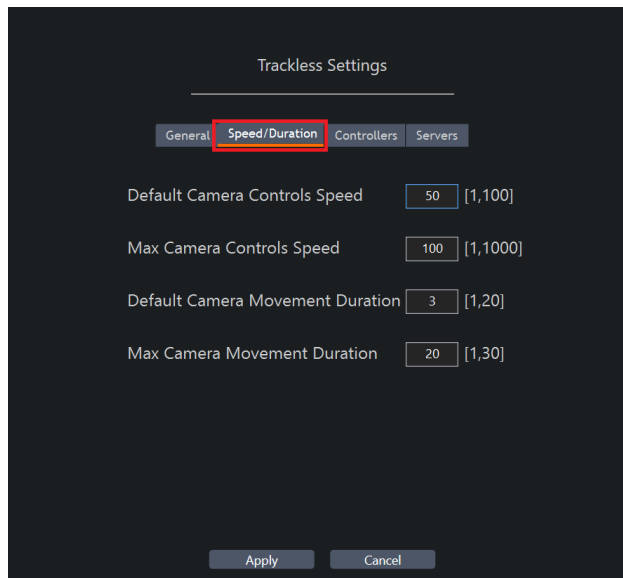
Speed/Duration

The speed and duration settings are configurable in the **Trackless Settings** tab. Once applied, the values will remain until reconfigured.

To adjust the Speed/Duration Settings:

1. From the Voyager Trackless Studio main menu, select **Options > Settings > Speed/Duration**.

The settings shown are the default settings with the minimum and maximum settings displayed to the right of the input field.



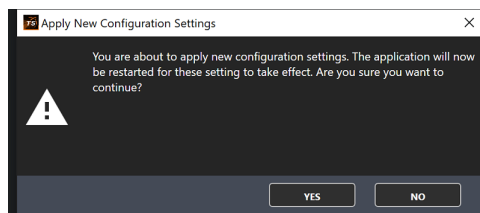
Speed/Duration Settings

2. Enter the preferred **Camera Controls Speed** in the corresponding fields to adjust the speed at which the controls update the camera view.

To save new configuration settings:

1. Select **Apply** once configuration of all settings is complete.

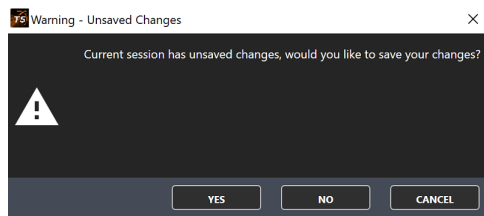
A dialog will appear warning that the program will restart.



Apply Configuration Settings

2. Select **Yes**.

A dialog will prompt you to save any unsaved changes.



Saving Unsaved Changes

4. Name the project, if it is a new project and navigate to the preferred directory.

5. Select **Save**.

The application will restart with the new settings.

Controllers

You can connect an XKeys device or game controller to control Voyager Trackless Studio. By default, XKeys devices and game controllers are enabled.

Game controllers and XKeys Devices must first be connected to the Voyager Trackless Studio machine prior to launching Voyager Trackless Studio.

For information on connecting **Xkeys Devices** see [Controlling Trackless Studio from an XKeys Device](#)^[25]

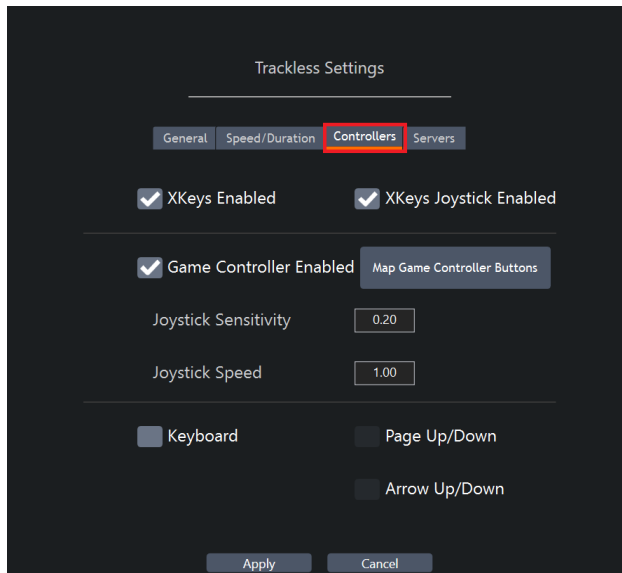
For information on connecting **Game Controllers** see [Triggering Events from a Game Controller](#)^[29]

To adjust the Controller Settings:

1. Physically connect the device to the machine running Voyager Trackless Studio.

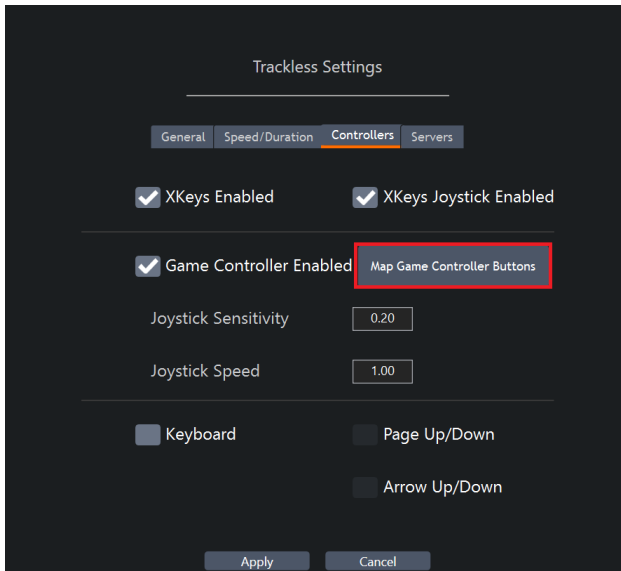
If you are using an XKeys device, no further action is needed. By default, the **XKeys Enabled** checkbox will be enabled when starting Voyager Trackless Studio. If the **XKeys Enabled** check box is unchecked, the **XKeys Joystick Enabled** checkbox will not be accessible.

2. If you are using a game controller, go to the Voyager Trackless Studio main menu and select **Options > Settings > Controllers**.



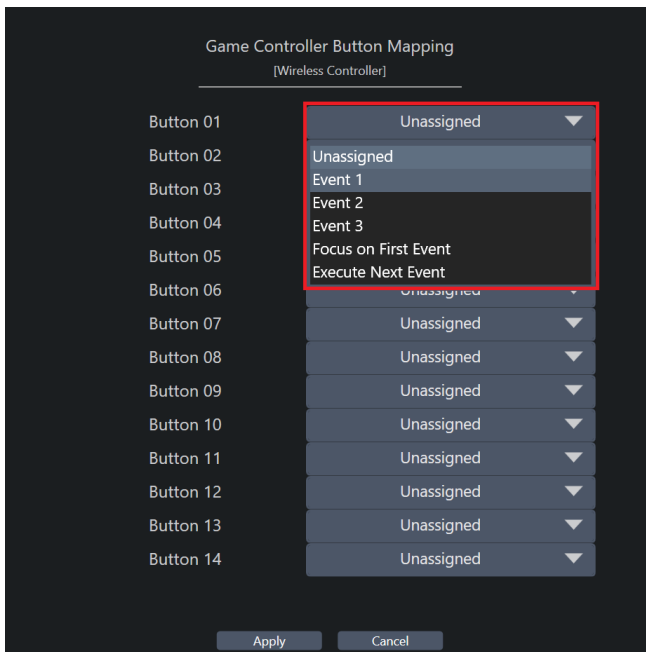
Trackless Settings - Controllers

3. Select the **Map Game Controller Buttons** button to open the **Game Controller Button Mappings** window.



Trackless Settings - Map Game Controller Buttons

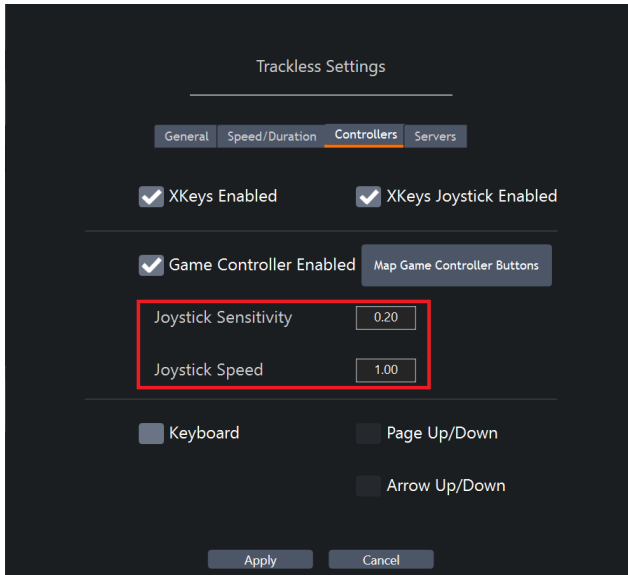
4. Use the drop-downs to assign available events to each of the game controller buttons.



Game Controller Button Mapping Buttons

5. When you've finished mapping the game controller buttons, select **Apply** to return to the **Trackless Settings** window.

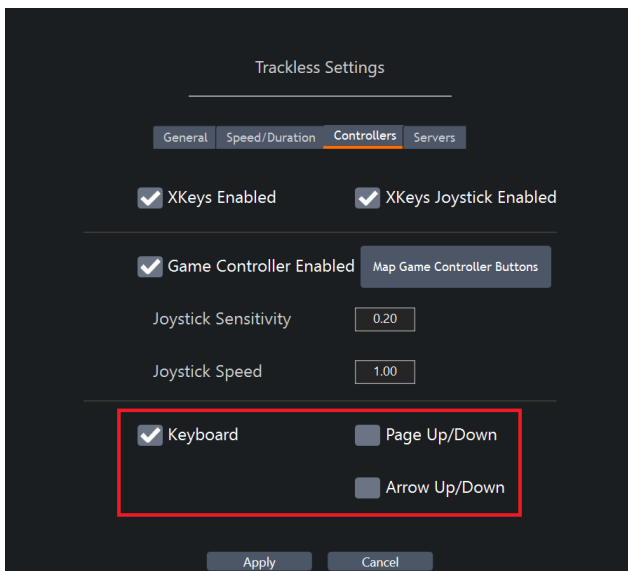
- From the **Trackless Settings** window, adjust the **Joystick Sensitivity** and **Joystick Speed** if necessary.



Trackless Settings - Joystick Sensitivity and Joystick Speed

- If you plan to use the **Keyboard Shortcut Keys**, select the **Keyboard** checkbox. For information on Voyager Trackless Studio **Keyboard Shortcuts** see [Appendix C: Keyboard Shortcuts](#).

★ You must select the **Keyboard** checkbox to enable the **Page Up/Down** and **Arrow Up/Down** shortcuts. By default, the **Keyboard** checkbox and the use of **Keyboard Shortcuts** will not be enabled.

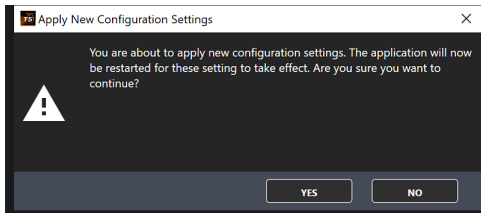


Trackless Settings - Keyboard Shortcuts

To save new configuration settings:

1. Select **Apply** once the configuration of all settings is complete.

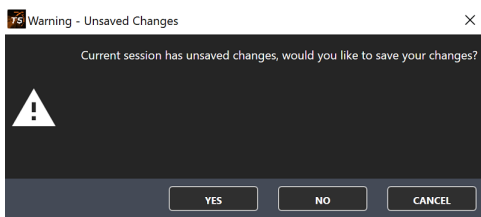
A dialog will appear warning that the program will restart.



Apply Configuration Settings

2. Select **Yes**.

A dialog will prompt you to save any unsaved changes.



Saving Unsaved Changes

3. Name the project, if it is a new project and navigate to the preferred directory.

4. Select **Save**.

The application will restart with the new settings.

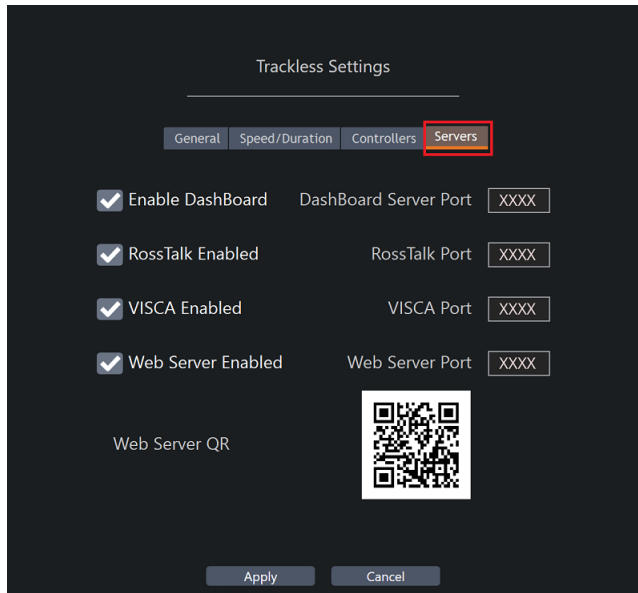
Servers

Voyager Trackless Studio compatible servers and a **Web Server QR** are found under the **Servers** tab. By default, all servers are enabled with dedicated port numbers. The ports shown are the default ports.

For information about using the Web Server QR code refer to [Controlling Voyager Trackless Studio From a Web Interface](#)^[26].

To change a server port:

1. From the Voyager Trackless Studio main menu, select **Options > Settings > Servers**.



Server Settings

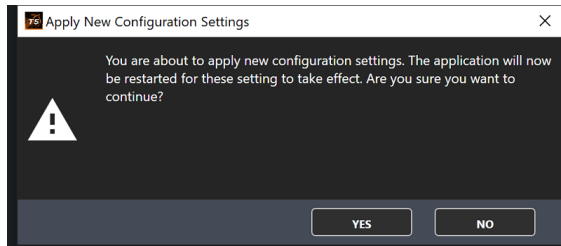
2. Update the application field if a different dedicated port is required and ensure it matches the port in the connected application.

You will need to ensure the Server Port is not blocked by Windows Defender Firewall. For information about enabling ports in Windows, refer to [Appendix A: Enabling a Port Number in the Firewall](#)^[77].

To save new configuration settings:

1. Select **Apply** once configuration of all settings is complete.

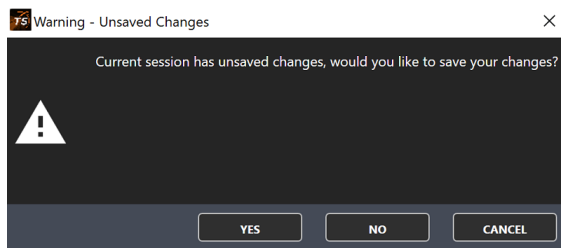
A dialog appears warning that the program will restart.



Apply Configuration Settings

2. Select **Yes**.

A dialog prompts you to save any unsaved changes.



Saving Unsaved Changes

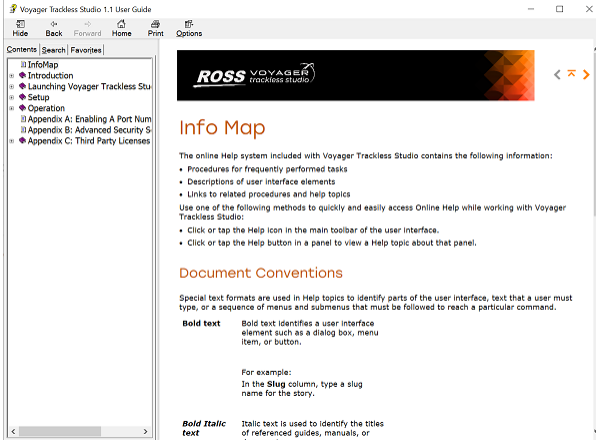
3. Name the project, if it is a new project and navigate to the preferred directory.
4. Select **Save**.

The application will restart with the new settings.

Help

The **Help** menu contains two options, the **Voyager Trackless User Guide** and the **About Voyager Trackless** screen.

- Select the **Voyager Trackless User Guide** button to open a new window and view the documentation for Voyager Trackless.



Voyager Trackless User Guide Online Help

- Select the **About Voyager Trackless** button to view the **About** screen and the three following tabs:

- **Voyager Trackless**

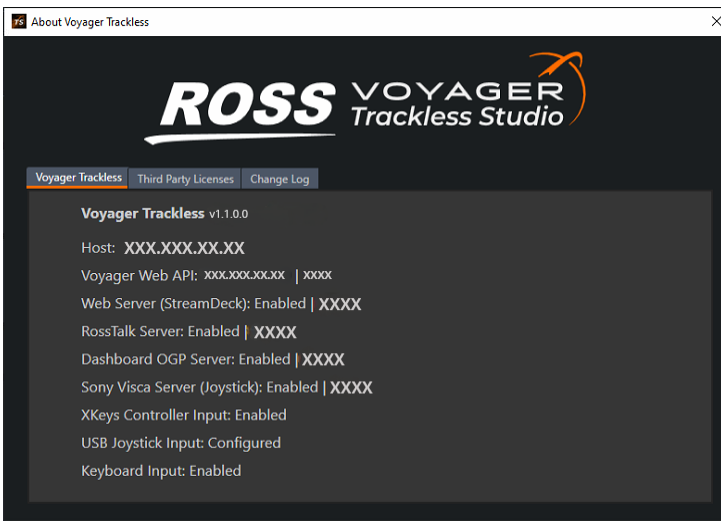
This section provides information about Voyager Trackless Studio, such as the version, host IP address and enabled controllers and servers.

- **Third Party Licenses**

This section provides a list of the third-party licenses and details for each.

- **Change Log**

This section provides details on the changes for each version of Voyager Trackless Studio.



Voyager Trackless Studio Help Menu

Production Control

Create camera presets and display added events from the **Production Control** panel. **Events** are added and deleted through the **Events** tab. See [Events](#)^[50] for more information.

[Camera Presets](#)^[46]

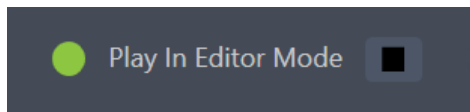
[Events](#)^[50]

To access **Production Control**, Voyager needs to be in **Play in Editor (PIE)** mode.

To put Voyager in PIE mode:

- Select **Play** in Voyager — or select the **Play** button in the bottom bar of Voyager Trackless Studio.

A green indicator will display in the bottom task bar of Voyager Trackless Studio when Voyager is in **PIE** mode.



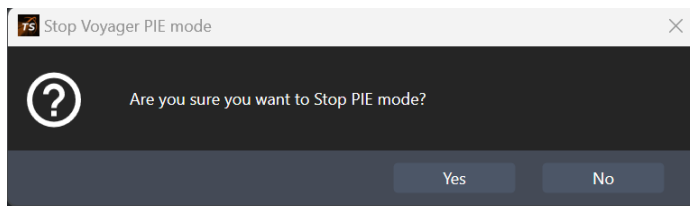
Play In Editor Mode

To stop PIE mode:

- Select **Stop** in Voyager — or select the **Stop** button in the bottom bar of Voyager Trackless Studio.

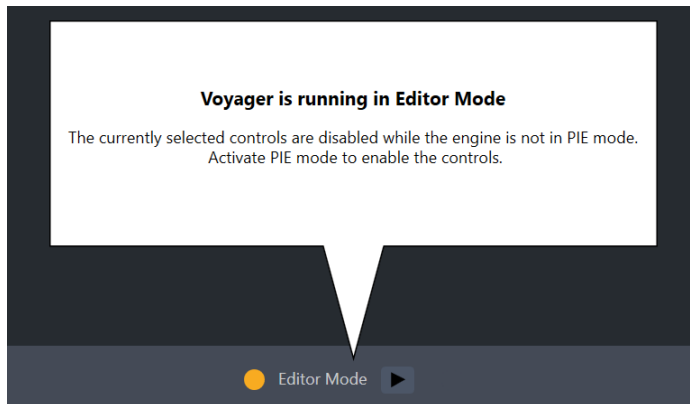
If you select the **Stop** button in Voyager Trackless Studio, a dialog will appear to confirm that you want to stop **PIE** mode.

- Select **Yes** to continue to stop **PIE** mode.



Stop Voyager PIE mode dialog

An orange indicator will display at the bottom task bar of Voyager Trackless Studio indicating the Voyager engine is in **Editor** mode and the controls are currently disabled.



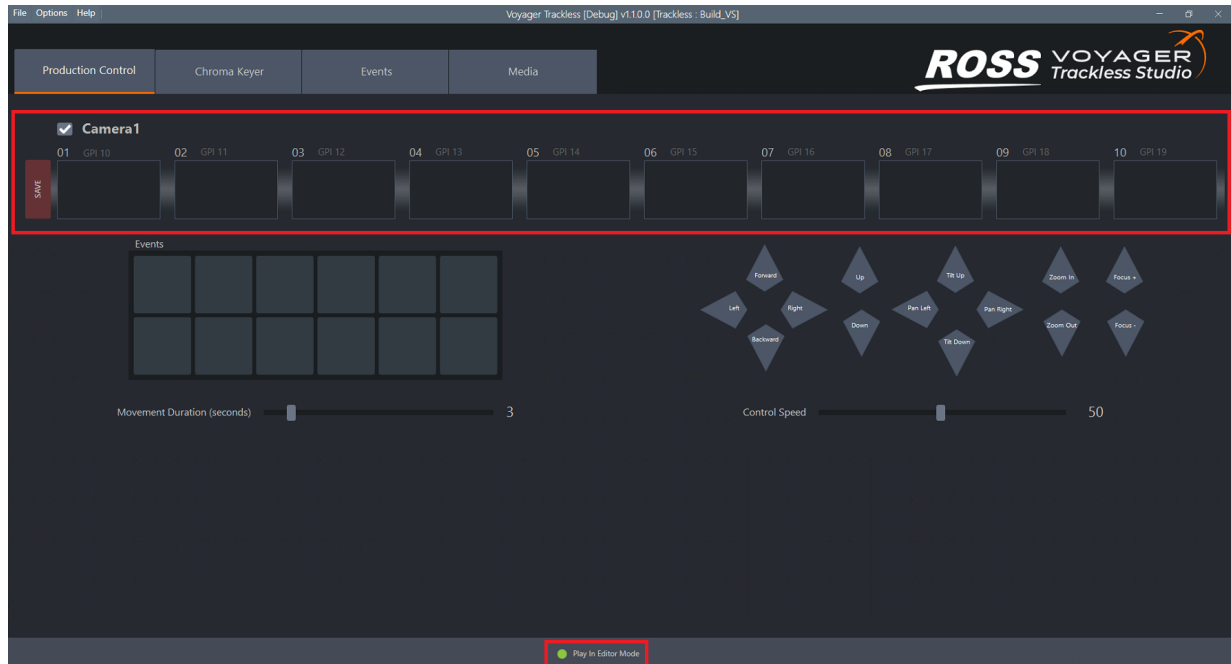
Editor Mode

Camera Presets

To add a camera preset:

1. Select **Production Control**.
2. Select a camera.

The selected camera row will display with a highlighted background.



Production Control UI

3. Adjust the camera view using the controls found at the bottom-right of the **Production Control** panel.

- **Forward** — use this control to move the camera forward along the X-axis.
- **Backward** — use this control to move the camera backward along the X-axis.
- **Left** — use this control to move the camera left along the Y-axis.
- **Right** — use this control to move the camera right along the Y-axis.
- **Up** — use this control to move the camera up along the Z-axis.
- **Down** — use this control to move the camera down along the Z-axis.
- **Tilt Up** — use this control to rotate the camera upward.
- **Tilt Down** — use this control to rotate the camera down.
- **Pan Right** — use this control to rotate the camera to the right.
- **Pan Left** — use this control to rotate the camera to the left.
- **Zoom In** — use this control to magnify the field of view.
- **Zoom Out** — use this control to decrease the field of view.
- **Focus +** — use this control to increase the focal distance of the camera.
- **Focus -** — use this control to decrease the focal distance of the camera.

4. Use the **Control Speed** slider, located beneath the **Camera Controls**, to adjust the speed of the controls.



Control Speed Slider

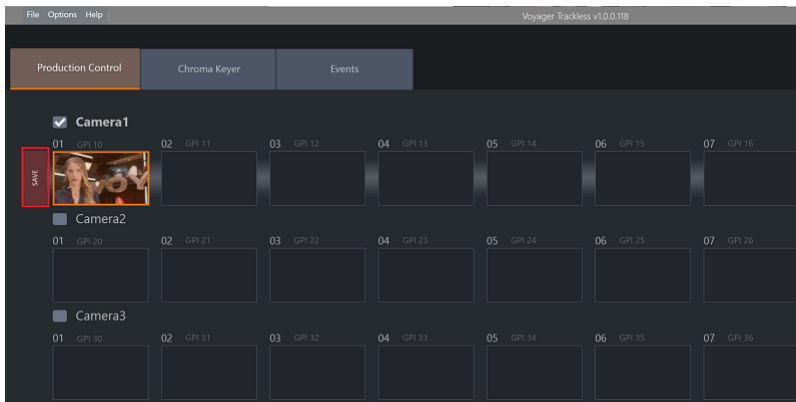
5. View the **Voyager** engine output to review the camera position.



Camera View Preview

6. Select the **Save** button to the left of the camera row thumbnails.
7. Select a thumbnail, **01 – 10**.

The current camera view will be saved as a preset.



Camera Preset

To refresh the list of cameras:

1. Right-click in the **Camera Presets** section.
2. From the context menu, select **Refresh Available Cameras**.

If a new camera is added or removed from the Voyager scene, refreshing the cameras in Voyager Trackless Studio will detect these changes.

To delete a preset:

1. Right-click a preset.
2. From the context menu, select **Delete Preset**.

The preset has been deleted.

To switch between virtual cameras:

1. Select a preset in a different camera row.

Selecting a different camera name/check box will also switch the camera view.

2. Use the **Movement Duration** slider to set the speed of the interpolation to a target preset.
3. Select a target preset.

The camera will perform a **CUT** transition between the current camera and the target camera.

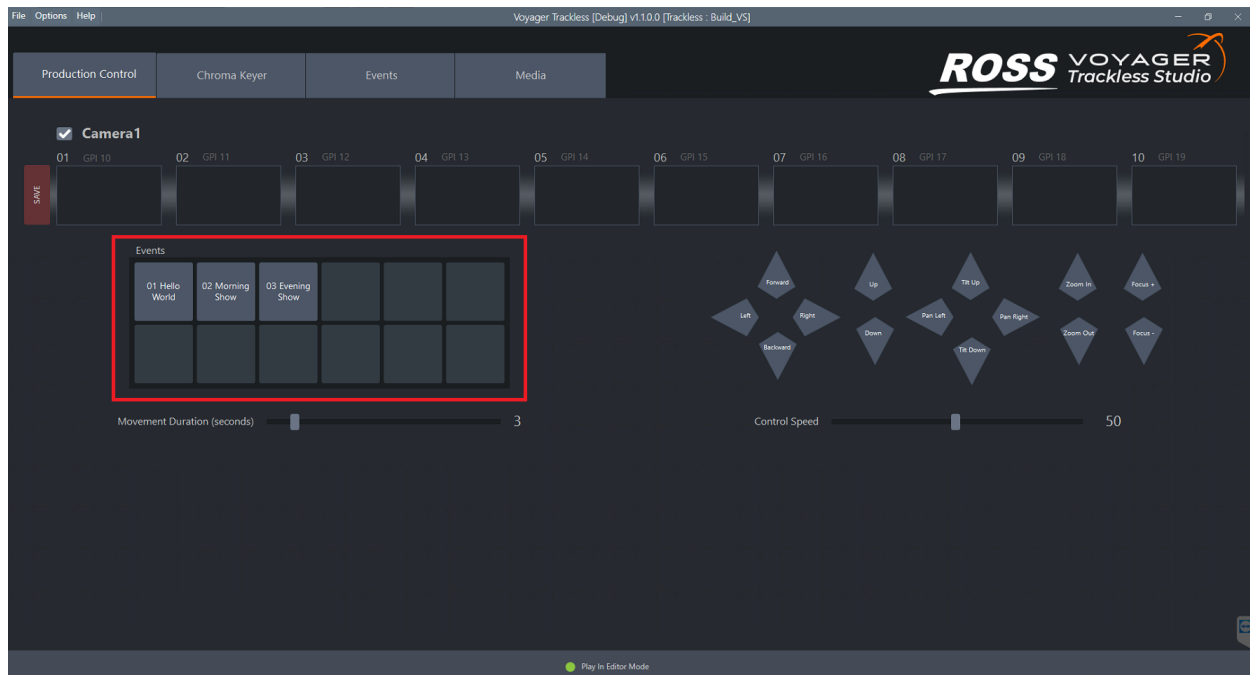
To perform smooth camera interpolated animations:

- Select a different preset in the same camera row.

The camera will perform a smooth interpolated animation from its current position, rotation, zoom and focus, to the selected target preset settings.

Events

The **Events** panel is at the bottom-left on the **Production Control** panel. This panel displays any events added in the **Events** [58](#) tab. The added events will appear in the same order in the **Events** panel and in any external device used to operate Voyager Trackless Studio.



Events - Production Control

To trigger an event:

- Select a thumbnail in the **Events** panel to trigger the event.

Chroma Keyer

This panel is intended to make adjustments to the **Internal Chroma Keyer**.

Cropping and Feathering effects are supported when using an **External Chroma Keyer**.

The **Chroma Keyer** tab includes the following:

[General Settings](#) 

[Alpha Settings](#) 

[Color Grading Settings](#) 

[Advanced Settings](#) 

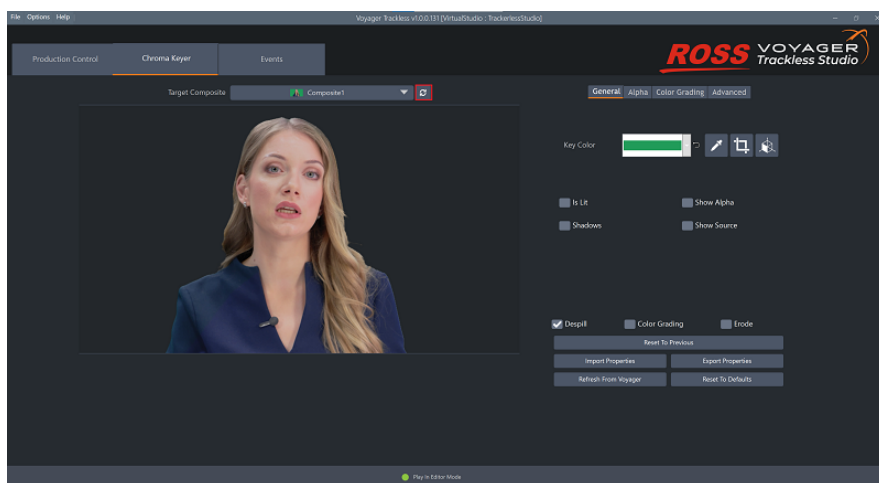
[Global Actions](#) 

General Settings

Use the **General** section to make adjustments to the **Key Color**, **Plane Crop**, and **Feather Sizing** of the selected composite plane.

To configure the General settings:

1. Select the **Chroma Keyer** tab.
2. Select the refresh button beside the **Target Composite** drop-down to make sure the drop-down list is up-to-date.



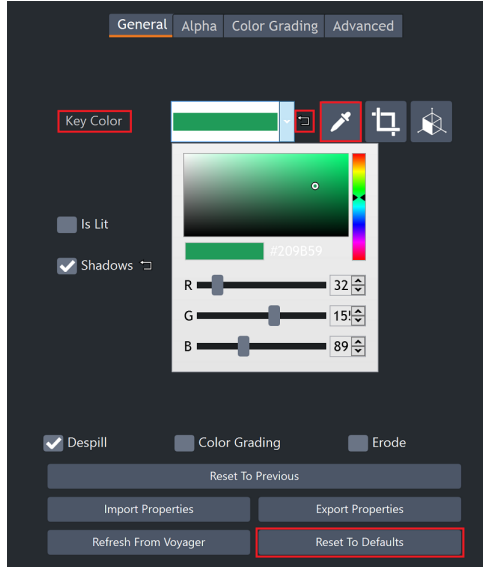
Refresh Chroma Keyer General Settings

3. Select the intended **Target Composite** from the drop-down list.
4. Select the **Key Color** field to open the color picker.
5. Select the eyedropper tool and click in the preview image to select the color you want to use.
Alternatively, use the slider bars to adjust the **Key Color**.

- To reset individual settings to their default value select the curved arrow icon next to the property you want to reset.

The icon is displayed next to settings that have been modified from their default state.

Alternatively select the **Reset to Defaults** button to reset all settings to their default states.



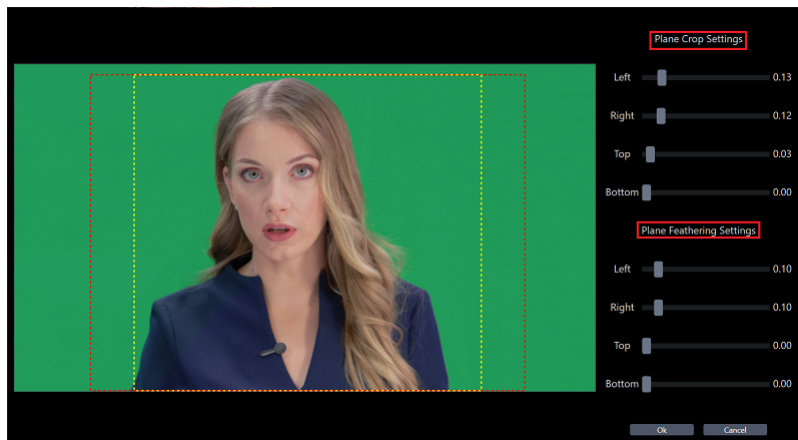
Chroma Keyer - Key Color Adjustments

- Use the sliders to adjust the cropping and feathering of the plane.

Cropping discards areas of the composite, making them fully transparent. The **Red** box is a visual representation of the cropped area.

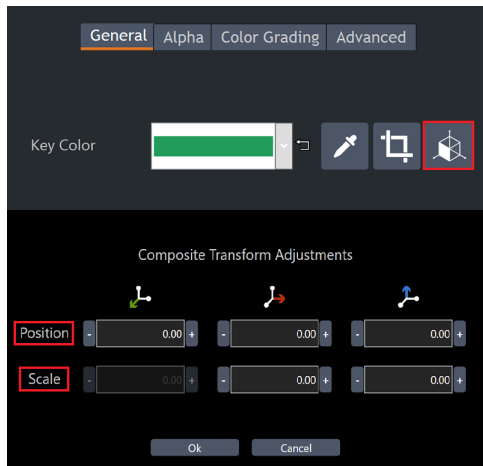
Feathering smooths the transparency of the borders of the image with an opacity gradient, from fully opaque (100% opacity) to fully transparent (0% opacity).

The space between the yellow rectangle and the red rectangle is the area that will be feathered.



Chroma Keyer - Plane Crop and Plane Feathering

8. Select the **Scale** icon to open the **Composite Transform Adjustments** window to fine-tune the position and scale of the composite plane.



Position + Scale Composite Plane

Use the **Position +** and **-** buttons to move the composite plane forward, backward, left, right, up and down.

Use the **Scale +** and **-** buttons to adjust the height and width of the composite plane.

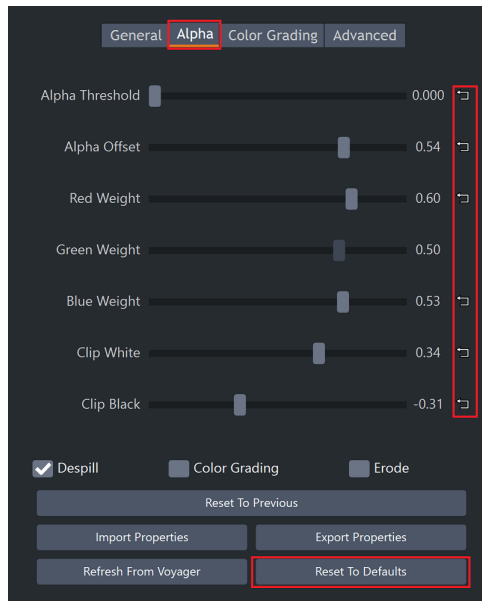
9. Select **Ok** to save your settings or **Cancel** to revert to the previous settings.

Alpha Settings

Use the sliders in the **Alpha** tab to fine tune the **Chroma Keyer** parameters and adjust the translucency of the different color levels.

- To reset individual settings to their default value select the curved arrow icon next to the property you want to reset. The icon is displayed next to settings that have been modified from their default state.

Alternatively select the **Reset to Defaults** button to reset all settings to their default states.



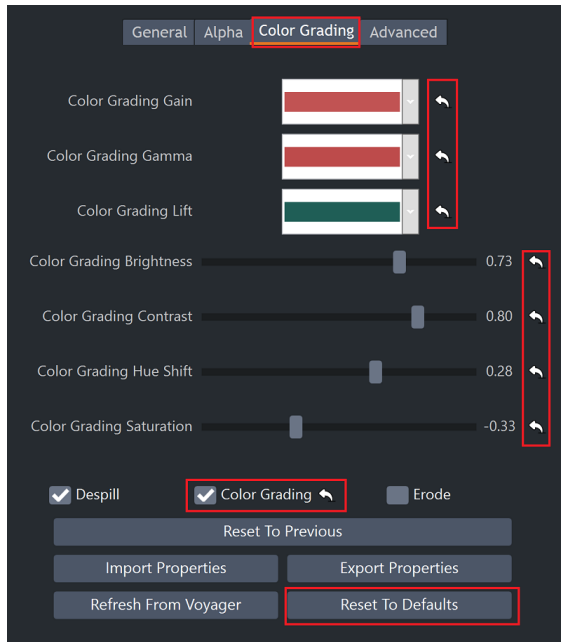
Chroma Keyer - Alpha Settings

Color Grading Settings

Use the **Color Grading** tab as a post process effect to fine tune the color and contrast levels of the resulting composite image once the **Chroma Keyer** is applied.

1. Select the **Color Grading** checkbox to view the adjustments made in the **Target Composite** window.
2. To reset individual settings to their default value select the curved arrow icon next to the property you want to reset. The icon is displayed next to settings that have been modified from their default state.

Alternatively select the **Reset to Defaults** button to reset all settings to their default states.



Chroma Keyer - Color Grading Settings

Advanced Settings

Use the **Advanced** tab to make adjustments to the **Despill** and **Erode** settings.

The **Despill** settings allow you to reduce any color spill from the background color that affects the resulting image. Despill reduces the saturation of the spill to a gray scale. The **Erode** settings allow you to fine tune the boundaries of the keyed areas and shrink the resulting output, removing any artifacts around the borders of the talent.

- Select the **Despill** and **Erode** checkboxes to view the adjustments made in the **Target Composite** window.
- To reset individual settings to their default value select the curved arrow icon next to the property you want to reset. The icon is displayed next to settings that have been modified from their default state.

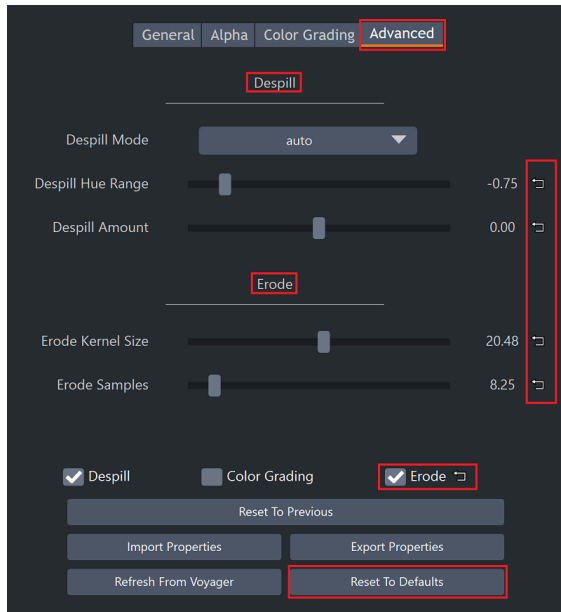
Alternatively select the **Reset to Defaults** button to reset all settings to their default states.

To configure Despill settings:

1. From the **Despill Mode** drop-down select either **Auto** or **Hue**.
2. Use the sliders to adjust the **Despill Hue Range** and **Despill Amount**.

To configure Erode settings:

1. Use the **Erode Kernel Size** slider to adjust the kernel size.
2. Use the **Erode Sample** slider to adjust the sample size.



Chroma Keyer - Advanced Settings

Global Actions

The global action buttons, located beneath the **Chroma Keyer** settings, impact all the settings. Use these buttons after you have configured the **Chroma Keyer** settings.

To configure global actions:

- Select **Reset to Previous** to reset the current composition's **Chroma Keyer** settings to the last saved configuration.

In the confirmation dialog select **YES** to revert **Chroma Keyer** settings.

- Select **Import Properties** to open a file dialog and load a **Chroma Keyer** settings file (*.ckp) to the current project.
- Select **Export Properties** to open a file dialog and save the **Chroma Keyer** settings to a local file (*.ckp).
- Select **Refresh Properties** from Voyager to reflect the **Chroma Keyer** properties inputted from the Voyager engine.

Events

In the **Events** tab, users set **Blueprint Nodes** and **Level Sequence Events** that trigger actions to be played during a live show.

Event names are used as a reference when Events are listed in the **Production Control** tab, as well as when used with XKeys, RossTalk, DashBoard, VISCA, and Web Servers.

Once Events have been added, they can be rearranged by dragging and dropping.

[Configuring Blueprint Node Events](#) ⁵⁸

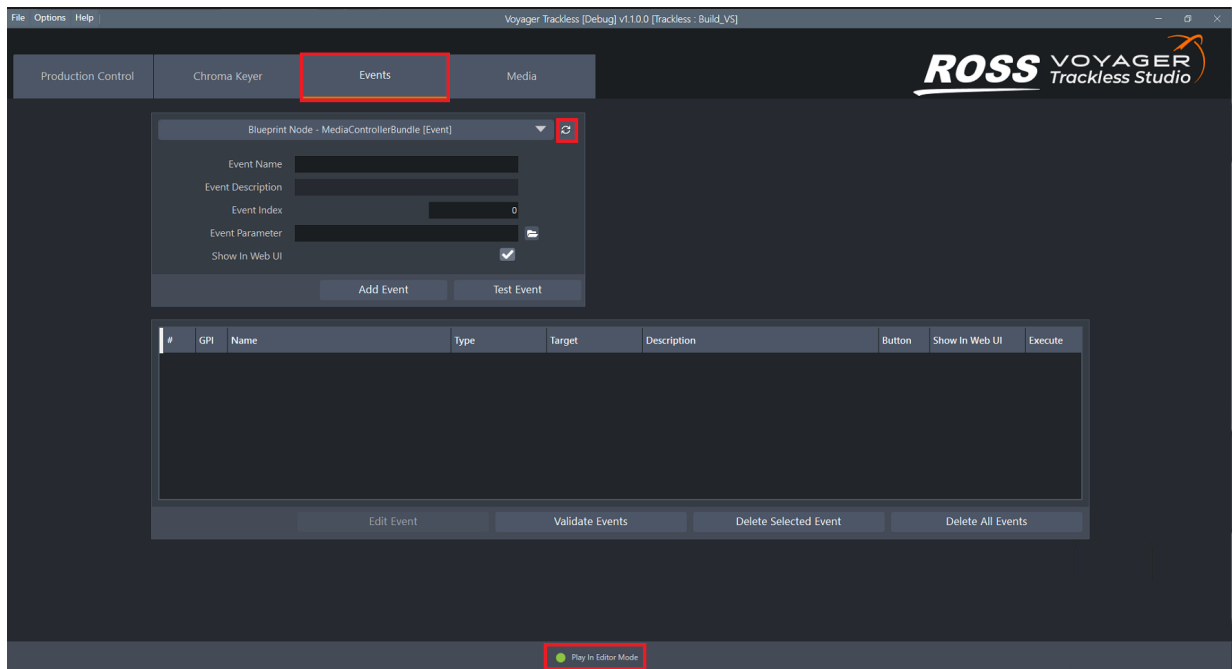
[Configuring Level Sequence Events](#) ⁶¹

Configuring Blueprint Node Events

Use **Blueprint Node** events to launch visually scripted additions to your project (graphics, animations, etc.) that were created within the **Level Blueprint** in **Voyager**.

Configuring Blueprint Node Events:

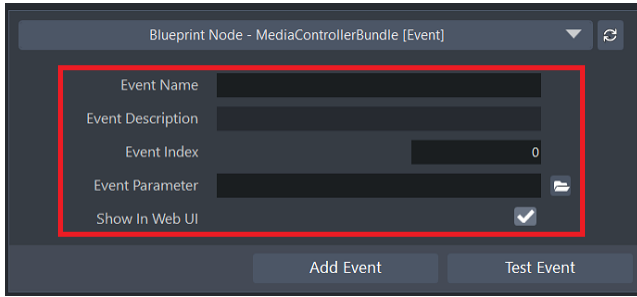
1. Select the **Events** tab.
2. In the **Event** editor, select the **Refresh** button to make sure all current events are retrieved from Voyager.



Events Tab

3. From the drop-down, select the **Blueprint Node** event you want to trigger.

4. Enter the **Event** information fields as follows:



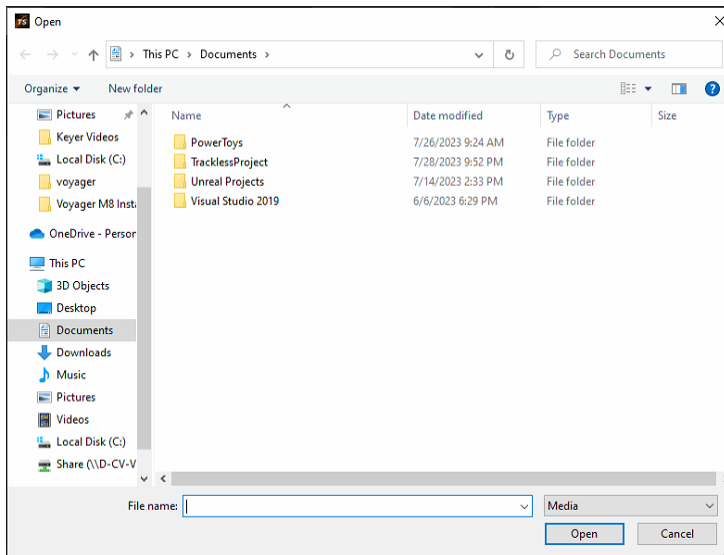
Event Descriptions

- In the **Event Name** field, enter a name for the event.
- In the **Event Description** field, enter a description for the event from the **Blueprints** screen in **Voyager** (optional).
- In the **Event Index** field, enter a number to indicate which of the event options will be triggered (if there are multiple options).
- In the **Event Parameter** field, enter the text that will be displayed when the event is triggered.

If the event contains a media file, select the **File Folder** icon to the right of the **Event Parameter** field to open a file explorer window.

Select the media content you wish to use as the **Event Parameter**.

Alternatively you can create **Media Events** in the **Media** tab, for information see [Media](#)⁶⁷.



Event Parameter File Explorer Window

- Select the **Show in Web UI** checkbox to make the event visible on the **Web User Interface**.
7. Select **Test Event** to make sure the event is working properly in the **Trackless Preview** window.

8. Select **Add Event**.

The **Event** and it's parameters are displayed in the list below.

#	GPI	Name	Type	Target	Description	Button	Show In Web UI	Execute
01	501	Hello	Blueprint Node	MediaEvent	Event 1	Unassigned	<input checked="" type="checkbox"/>	Execute
02	502	Morning Show	Blueprint Node	MediaEvent	Event 0	Unassigned	<input checked="" type="checkbox"/>	Execute
03	503	Evening Show	Blueprint Node	MediaEvent	Event 0	Unassigned	<input checked="" type="checkbox"/>	Execute

Below the table are four buttons: Edit Event, Validate Events, Delete Selected Event, and Delete All Events.

Executing Events

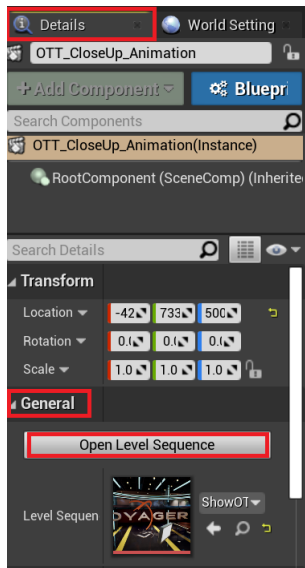
Configuring Level Sequence Node Events

Use **Level Sequence** node events to add animations, key frames or graphics to your project.

Level Sequence node events allow you to play, pause, and stop tracks created within the **Level Blueprint** in Voyager.

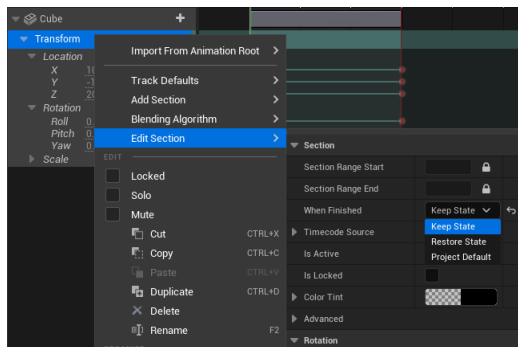
To configure a Level Sequence Node event in Voyager:

1. In Voyager, in the **World Outliner**, select the **Level Sequence Actor** for the event you want to trigger in Voyager Trackless Studio.



Open Level Sequence

2. In **Details**, select **All**.
3. In the **General** section, select **Open Level Sequence**.
4. In the **Sequence** editor, expand the **Level Sequence Actor**.
5. Right-click **Transform** and select **Edit Section**.

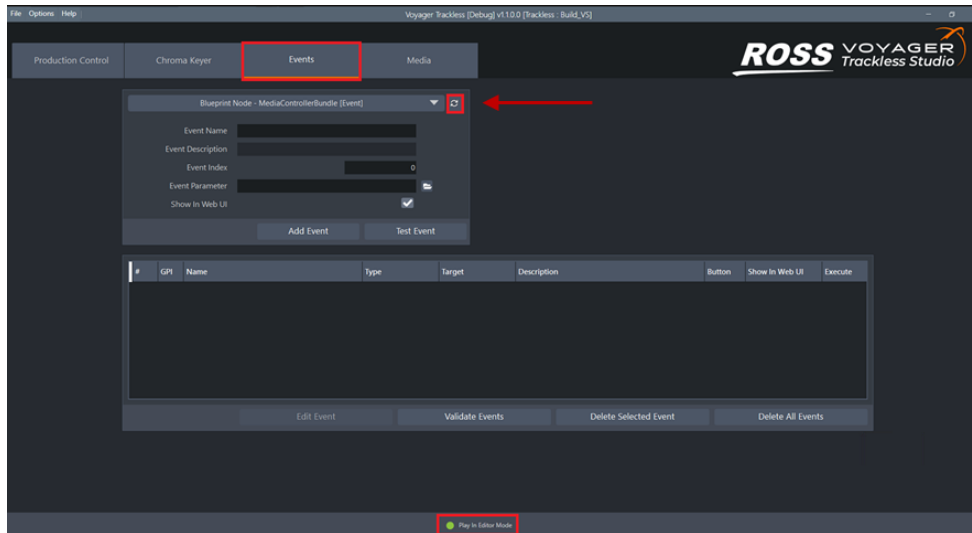


Sequence Settings in Voyager

6. In **Section > When Finished**, select **Keep State** from the drop-down.
7. Select **Save**.

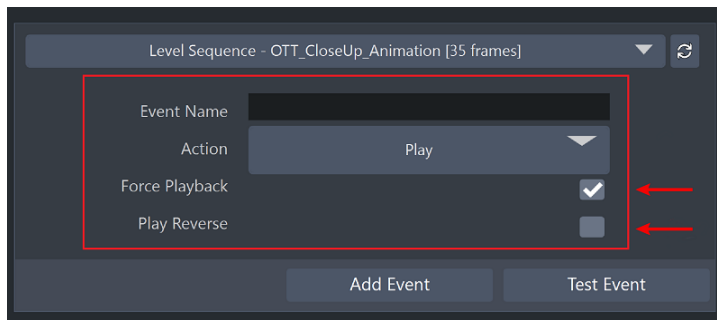
To configure a Level Sequence Event in Voyager Trackless Studio:

1. Select the **Events** tab.
2. Select the **Refresh** button to make sure all current events are retrieved from Voyager.



Events Tab

3. From the drop-down, select the **Level Sequence** event.
The **Action** drop-down is added.
4. In the **Event Name** field, enter a name for the event.
5. From the **Action** drop-down, select one of the following options: **Play, Pause, Stop**.



Level Sequence Playback Options

4. If **Play** is selected, choose whether or not to select **Force Playback** and **Play Reverse**.
 - If **Force Playback** is deselected:
 - The event plays forward only if the current animation frame is the first frame.
 - The event plays in reverse only if the current animation frame is the last frame.
 - If **Play Reverse** is selected:
 - The animation plays in reverse.
 - If **Play Reverse** is deselected:
 - The animation plays forward.

5. Select the **Show in Web UI** checkbox to have the event displayed in the **Web User Interface**.
6. Select **Test Event** to make sure it is working correctly.
7. Select **Add Event**.

The event and its parameters are displayed in the list below.

Event Options

You can execute selected events from either the **Events** tab or the **Events** panel in the **Production Control** tab.

Events can be edited, validated, deleted and duplicated from the **Events** tab.

To Execute an Event:

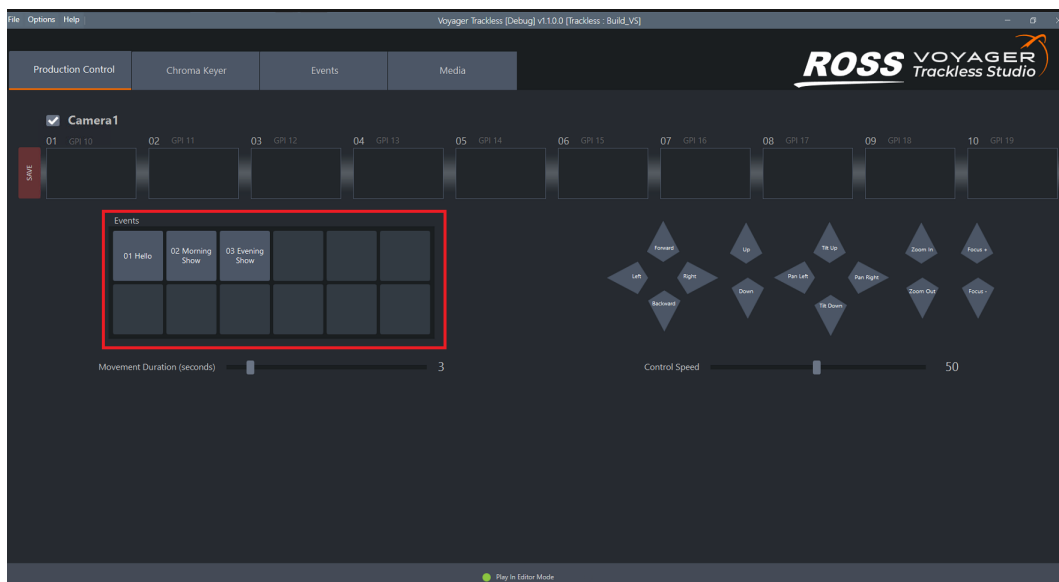
- In the **Events** tab, select the event you want to trigger and click **Execute**.

#	GPI	Name	Type	Target	Description	Button	Show In Web UI	Execute
01	501	Hello	Blueprint Node	MediaEvent	Event 1	Unassigned	<input type="checkbox"/>	Execute
02	502	Morning Show	Blueprint Node	MediaEvent	Event 0	Unassigned	<input checked="" type="checkbox"/>	Execute
03	503	Evening Show	Blueprint Node	MediaEvent	Event 0	Unassigned	<input checked="" type="checkbox"/>	Execute

Executing Events from Event Tab

OR

- In the **Events** panel, select an event button.

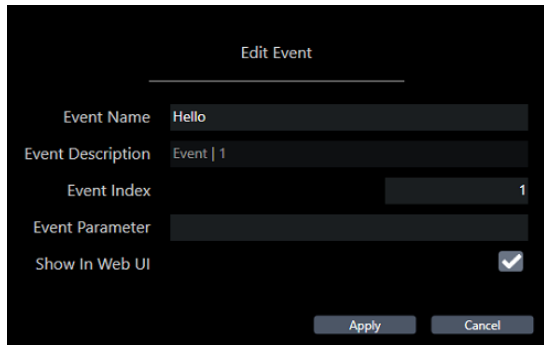


Executing Events from Production Control Tab Panel

To Edit Events:

1. In the **Events** tab, from the list of events, select the event you want to edit and select **Edit Event**.

The **Edit Event** window opens.



Edit Event Window

2. Make the adjustments and select **Apply**.

The **Event** has been edited.

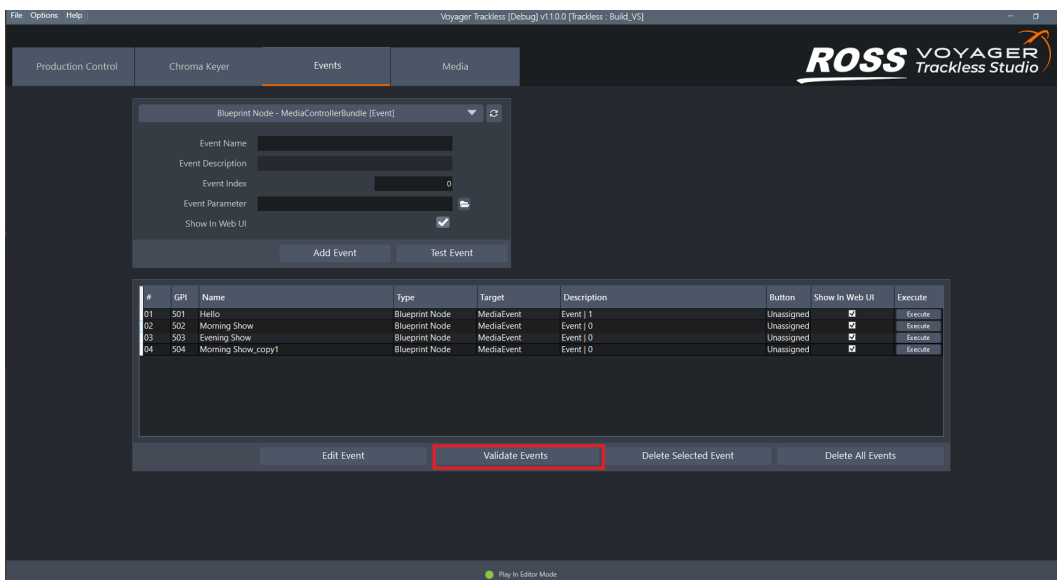
★ Alternatively you can select the event from the list, right-click and select **Edit Event** to access the **Edit Event** window.

To Validate Events:

- In the **Events** tab, select the **Validate Events** button to refresh the events in the events panel.

You may need to do this if you've deleted events in the **Events** tab, but they are still appearing in the **Events** panel in the **Production Control** tab.

If an event no longer exists you have the option to delete the event from the table. If you do not delete the event, the event text will change to red to signal that the event is no longer valid.



#	GPI	Name	Type	Target	Description	Button	Show In Web UI	Execute
01	501	Hello	Blueprint Node	MediaEvent	Event 1	Unassigned	<input checked="" type="checkbox"/>	Execute
02	502	Morning Show	Blueprint Node	MediaEvent	Event 0	Unassigned	<input checked="" type="checkbox"/>	Execute
03	503	Evening Show	Blueprint Node	MediaEvent	Event 0	Unassigned	<input checked="" type="checkbox"/>	Execute
04	504	Morning Show_copy1	Blueprint Node	MediaEvent	Event 0	Unassigned	<input checked="" type="checkbox"/>	Execute

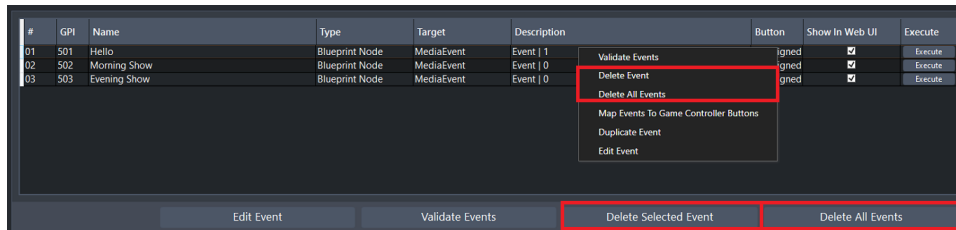
Validate Events

To Delete Events:

1. In the **Events** tab, from the list of events, select the event you want to delete and select **Delete Selected Event**.

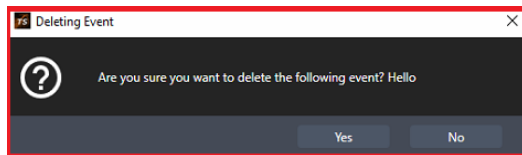
Alternatively you can select the event you want to delete from the list, right-click and select **Delete Event**.

2. Delete all events by selecting the **Delete All Events** button or right-click and select **Delete All Events**.



Deleting Events

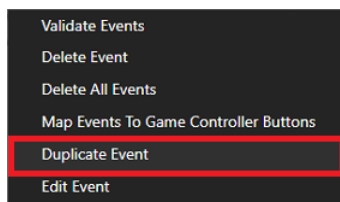
3. In the confirmation dialog, select **YES** to delete.



Delete Events Confirmation

To duplicate Events:

1. In the **Events** tab, from the list of events, select the event you want to duplicate.
2. Right-click on the event and select **Duplicate Event**.



The event has been duplicated and the event name will be displayed with the suffix '**_copy**'

Media

Use the **Media** tab to create thumbnails of available images and videos that can be applied to the **Media Targets** in Voyager.

Media Targets can be **Media Controller Bundle Blueprint Actors** or **Voyager Event Execution Blueprint Nodes** with the **Flag** set to **Media**.

Use the **Media Content** pages to organize imported media files.

The following topics are discussed in this section

[Media Targets](#) ⁶⁷

[Media Controller](#) ⁶⁸

[Voyager File Explorer](#) ⁷¹

[Media Content](#) ⁷²

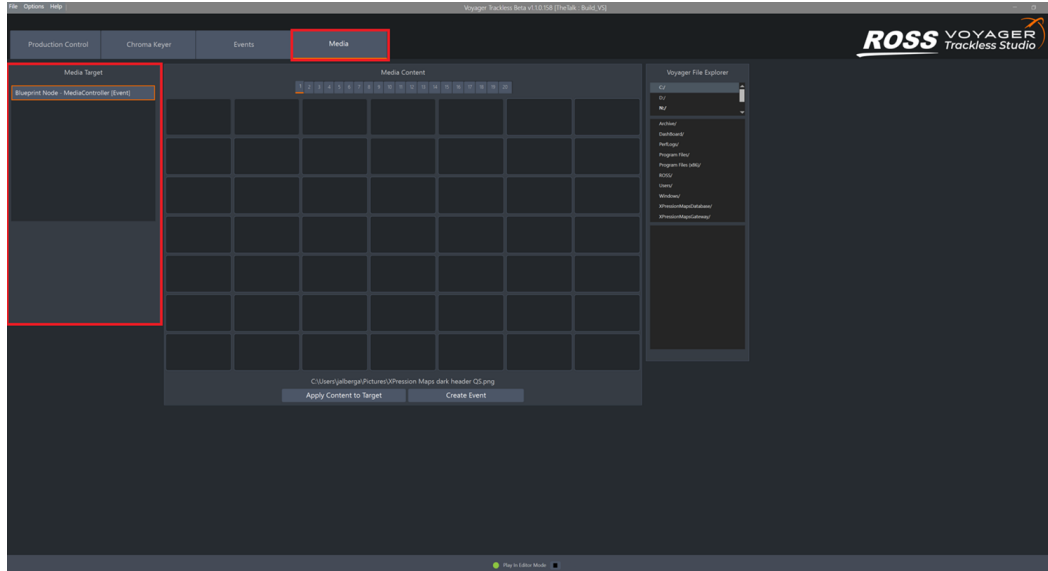
[Applying Content to Media Target](#) ⁷⁵

[Creating Events](#) ⁷⁵

Media Targets

In the **Media** tab, the **Media Targets** section displays the list of elements that you can apply media files to.

★ If you have multiple media targets listed you can click and assign different media files to each.



Voyager Trackless Studio Media Tab - Media Targets

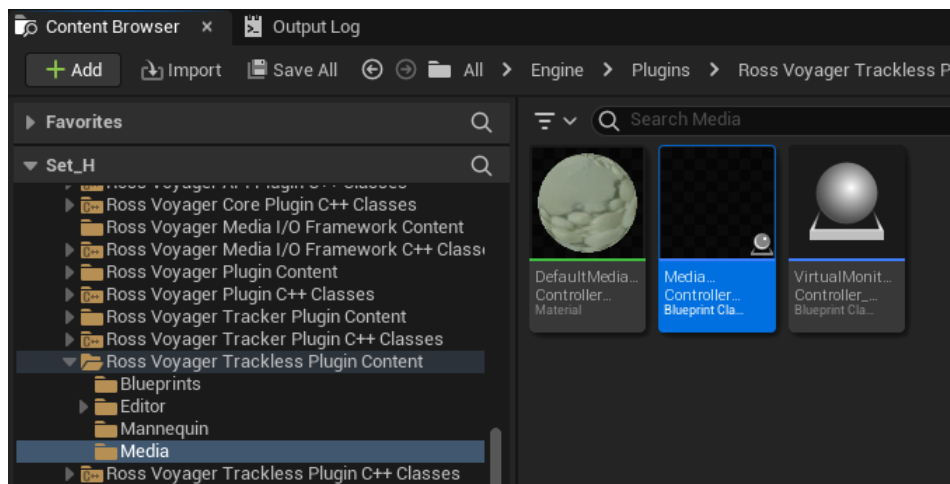
Media Controller

You can add a **Media Controller** in Voyager and then use it as a **Media Target** in the **Media** tab in Voyager Trackless Studio to apply image and video files.

In order to play video files with the **Media Controller**, create a **Media Bundle Asset** in Voyager.

To add a Media Controller in Voyager:

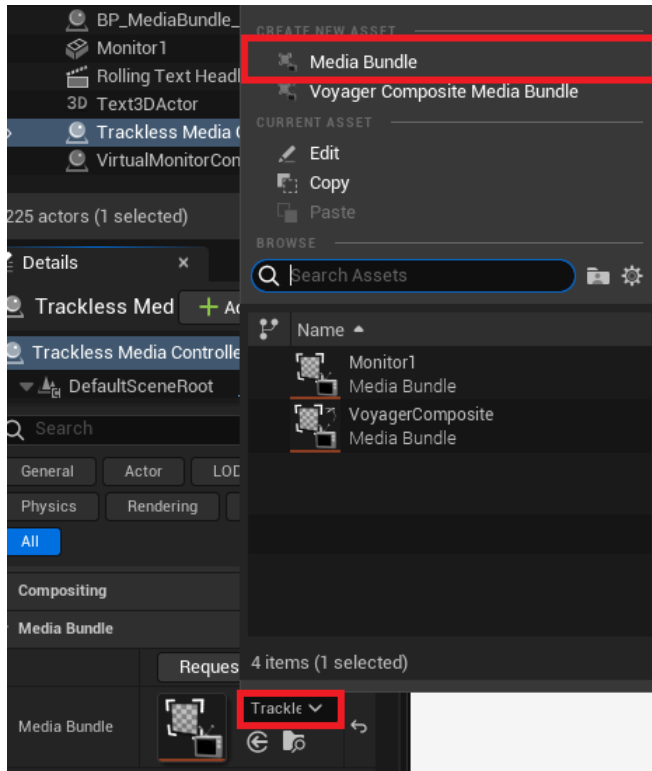
1. In Voyager, in the **Content Browser**, select the **Settings** icon in the top-right corner.
2. From the **Settings** menu, select **Show Plugin Content**.
3. In the **Content** tree on the left side of the **Content Browser**, go to **Engine > Plugins > Ross Voyager Trackless Plugin Content > Media**.
4. From the **Media** folder, drag the **MediaControllerBundle** into the scene and position it where you would like to play content.



Add MediaControllerBundle

5. In the **Outliner**, right-click the **MediaControllerBundle** and from the context menu, select **Edit > Rename** and give the **Controller** a name (e.g., Trackless Media Controller).
6. With the **MediaControllerBundle** selected in the **Outliner**, in the **Details** tab, select **All** and scroll down to the **Media Bundle** section.

7. From the **Media Bundle** drop-down, select **Create New Asset > Create New Media Bundle**.

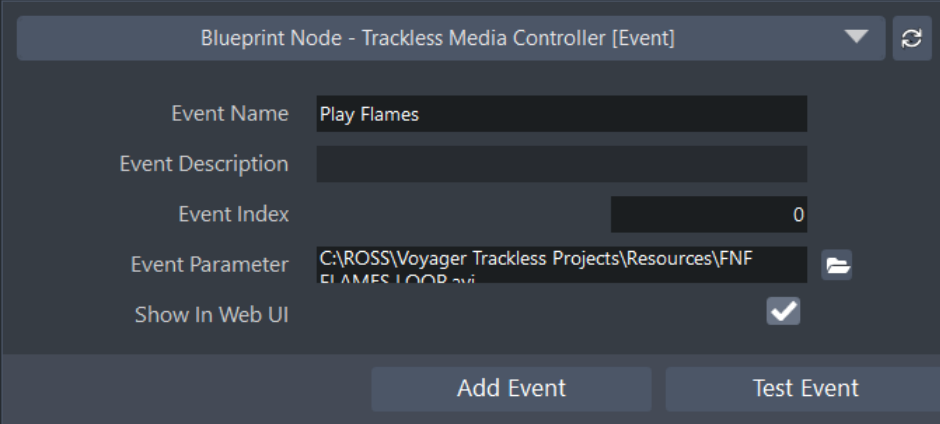


Create New Media Bundle

8. In the **Save Asset As** window, in the **Name** field, enter a name for the **Media Bundle** and select **Save**.
9. In the Voyager editor, select the **Save** icon.

To use the Media Bundle in Voyager Trackless events:

1. In the **Events** panel, from the drop-down, select the **Media Controller** you created in Voyager.



The screenshot shows a configuration window for a 'Blueprint Node - Trackless Media Controller [Event]'. The window has a dark theme and contains the following fields and controls:

- Event Name:** A text field containing 'Play Flames'.
- Event Description:** An empty text field.
- Event Index:** A text field containing '0'.
- Event Parameter:** A text field containing the file path 'C:\ROSS\Voyager Trackless Projects\Resources\FNF FLAMES LOOP.mp3'. To the right of this field is a folder icon.
- Show In Web UI:** A checkbox that is checked.
- Buttons:** At the bottom of the window are two buttons: 'Add Event' and 'Test Event'.

Media Controller Event

2. In the **Event Name** field, enter a name for the event.
3. Select the folder icon beside the **Event Parameter** field, navigate to the folder containing the media you want to play and select the media.
4. Select the **Show in Web UI** checkbox if you want the event to appear in the Web UI or clear the checkbox if you don't.
5. Select **Test Event** to check that the event is functioning correctly.
6. Then select **Add Event** to add the event to the **Event** list and the **Events** panel in the **Production Control** tab.

Voyager File Explorer

The **Voyager File Explorer** allows you to browse the remote **Voyager Engine File** system and select **Media** files to use within the Voyager Trackless Studio project.

Thumbnail images will be generated for file paths that are accessible from both systems, **Voyager** and **Voyager Trackless Studio**. The recommended workflow is to have them on a shared network drive that has the same drive letter assigned on both systems.

To add media from the Voyager File Explorer:

1. In the **Media** tab from the **Voyager File Explorer** section select the drive that is connected to both **Voyager** and **Voyager Trackless Studio** from the first box.
2. In the second box, select the folder that contains the media files you want to import.
3. In the third box, select and drag the media files from the **Voyager File Explorer** to the **Media Content** page.

The media file has been added to the **Media Content** page.

★ If the **Media File** is accessible for both **Voyager** and **Voyager Trackless Studio**, a thumbnail will be generated and a green prompt will be displayed indicating that both engines have access to the file and you can apply the media file in the **Voyager** project.

★ If the **Media File** is only accessible in **Voyager**, **Voyager Trackless Studio** will not be able to generate a thumbnail image locally. A warning prompt will be displayed however you can still apply the media file in the **Voyager** project.

★ If the **Media File** is only accessible in **Voyager Trackless Studio**, an error prompt will be displayed and you will not be able to apply the media file in the **Voyager** project.

Media Content

The **Media Content** section is made up of 20 pages each containing a 7x7 thumbnail grid allowing for media files to be dragged and dropped into place.

Voyager Trackless Studio supports **PNG** and **JPEG** image files, and **MP4** or **XPression Video Codec XPVC AVI** video files.

Media Content pages can get renamed and organized by the type of media files being imported. For example, you can have pages for image files and pages for video files.

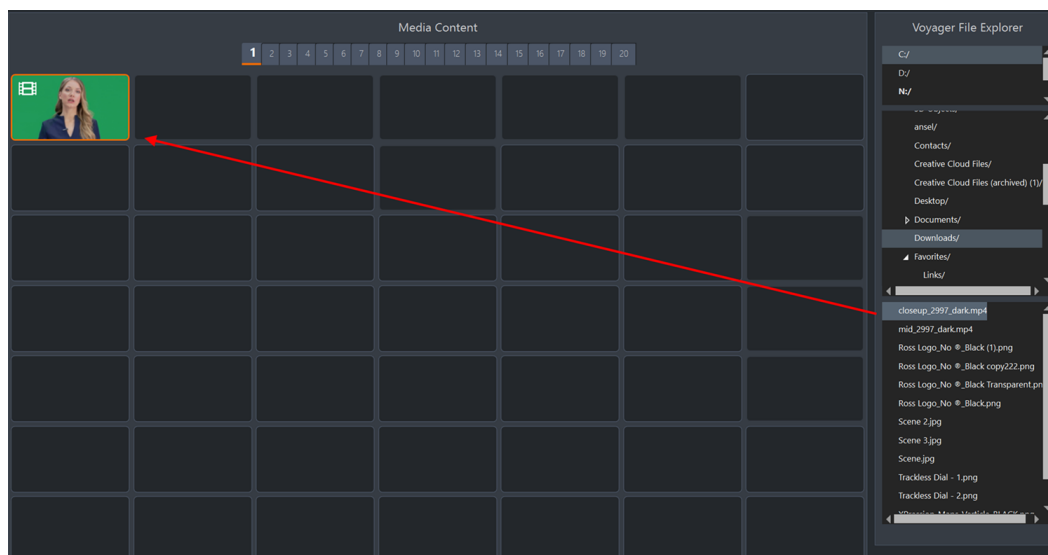
Thumbnails of media files can be moved from one place to another on the same page or moved between pages by dragging and dropping.

You can **Validate** media content to verify the accessibility of the media file in both **Voyager** and **Voyager Trackless Studio**, and you can **Reload** content to refresh the thumbnail images if the content has been overwritten.

For information on successfully importing **Media Files** see [Voyager File Explorer](#)⁷¹.

To add media files to Media Content pages:

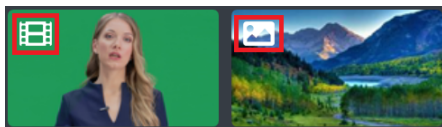
- From the **Voyager File Explorer** select the media file(s) you want to import and drag them into the thumbnails in the **Media Content** section.



Media Content - Adding Media

The media files have been added to the **Media Content** page.

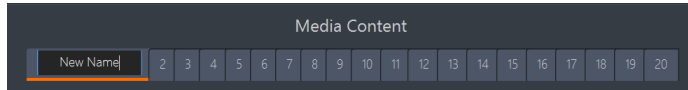
Video media files will display a video reel icon and image media files will display a photo icon.



Media Content - Media File Icons

To rename Media Content pages:

1. From the **Media Content** section, double-click on the page number that you want to rename.
2. Enter a new name or title for the page number and press **Enter**.



Media Content - Rename Page

Once media files have been added to the **Media Content** pages the page numbers/titles will appear bolded and larger in size, this signals that media content has been added to those specific pages.

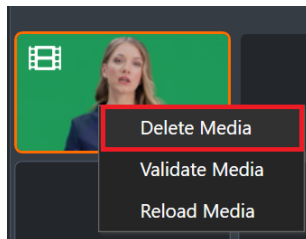
To remove media from Media Content pages:

There are two methods to remove media files from **Media Content** pages:

- **Method one: delete individual media files.**
- **Method two: delete all media files entirely from a page.**

To remove media from Media Content pages using method one:

1. In the **Media Content** section, select the media file you want to remove and right-click.
2. Select **Delete Media**.

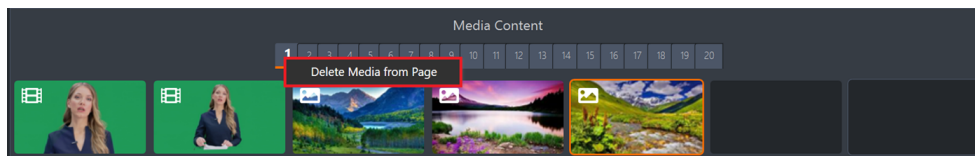


Media Content - Delete Media

The media file has been removed.

To remove media from Media Content pages using method two:

1. In the **Media Content** section, select the page you want to remove the media files from.
2. Right-click on the page number or page title and select **Delete Media from Page**.

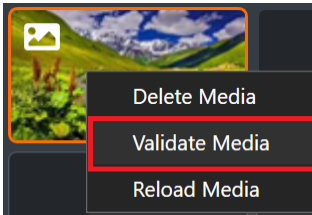


Media Content - Delete Media From Page

All media files have been removed from the page.

To validate Media Content:

1. In the **Media Content** section, select the media file you want to validate and right-click.
2. Select **Validate Media**.

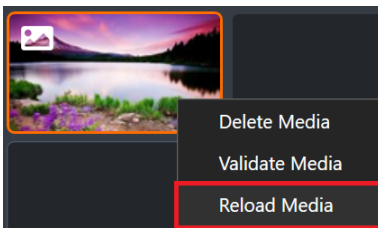


Media Content - Validate Media

The media file has been validated.

To reload Media Content:

1. In the **Media Content** section, select the media file you want to reload and right-click.
2. Select **Reload Media**.



Media Content - Reload Media

The media file has been reloaded.

Applying Content to Media Target

Once media files have been imported into the **Media Content** section, you can apply the content to the target automatically or create individual events.

For information on creating events see [Creating Events](#)⁷⁵.

To apply content to the Media Target:

- From the **Media Content** page, select the thumbnail of the media file you want to apply and select the corresponding **Media Target**, double-click to apply the content.

Alternatively you can also select the thumbnail image and select the **Apply Content to Target** button.

Creating Events

To create events from imported media files:

1. From the **Media Content** section, select the thumbnail image containing the media file you want to create the event with and select the corresponding **Media Target**.

2. Select the **Create Event** button.

A green prompt will appear on the bottom of the screen indicating that the selected media file has been added to the list of **Events**.

3. Navigate to the **Events** tab and the event that was just created will be displayed in the **Events** table.

4. Right-click on the event and select **Edit Event** to open the **Edit Event** window to rename the **Event**.

For information on editing events, see [To Edit an Event](#)⁵⁰.

The event can now be executed from the **Events** tab as well as the **Production Control** tab.

Shutting Down Voyager Trackless Studio

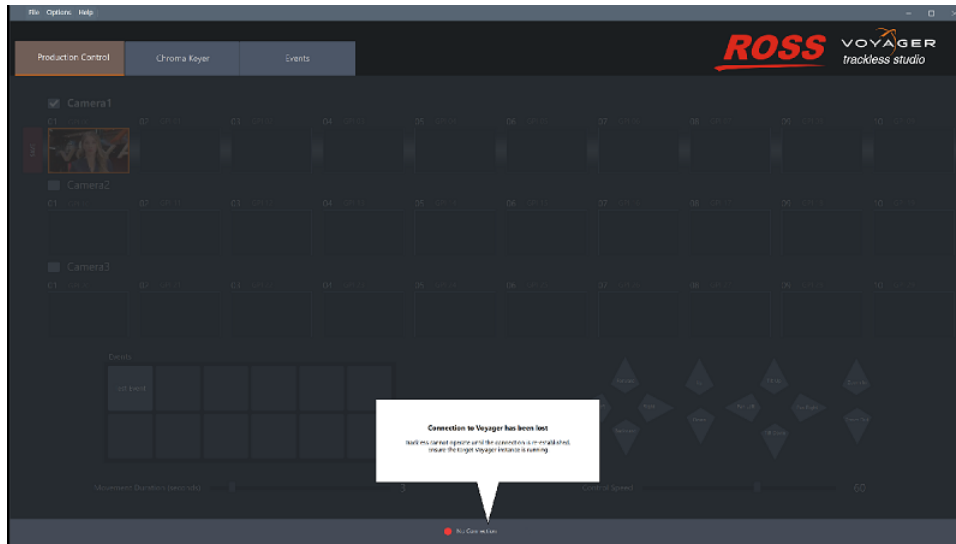
To close Voyager Trackless Studio:

1. From the Voyager Trackless Studio main menu, click **File > Exit**.

A prompt opens if any changes have not been saved.

2. Save your changes and exit Voyager Trackless Studio.

If Voyager is closed before Voyager Trackless Studio, **No Connection** will display in the bottom bar.



Voyager Trackless Studio – Connection Lost

Appendix A: Enabling A Port Number in the Firewall

When using Voyager Trackless Studio, you need to make sure that any port you are using to listen to connections has been enabled in the Windows Defender Firewall.

To enable a port number:

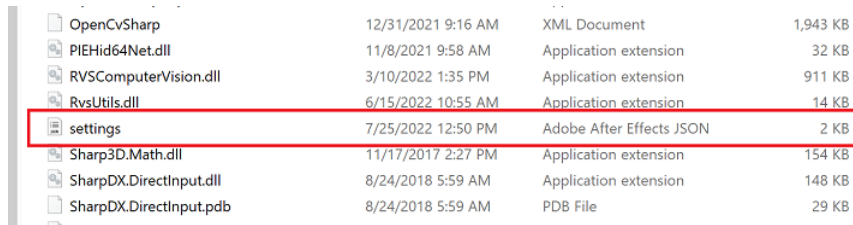
1. In the **Windows Control Panel**, select **Windows Defender Firewall**.
2. Select **Advanced settings > Inbound Rules**.
3. In the **Actions** pane, select **New Rule**.
4. In the **Rule Type** window, select **Port** and click **Next**.
5. In the **Protocol and Ports** window, select **TCP**.
6. Select **Specific local ports**, enter the port number you will be using and click **Next**.
7. In the **Action** window, select **Allow the connection** and click **Next** again.
8. In the **Name** window, enter a name for the new rule (e.g., Voyager Trackless Studio, Voyager Web API, Lucid Studio, RossTalk, etc.) and click **Finish**.
9. Close all the windows.

Appendix B: Advanced Security Settings

You can operate Voyager Trackless Studio remotely through external devices, so restricting access to remote functionalities may be important. Creating a **WhiteList** allows you to limit the IP addresses that have access.

Below are the steps to prevent unauthorized access when using RossTalk or the Web API server.

1. Locate the **Settings** file in the Voyager Trackless Studio installation folder, typically **C:\ROSS\Voyager Trackless\Voyager Trackless**.



Settings File

2. Open the settings.json file in a text editor and locate the RossTalk and Web API configurations.



Settings - JSON file

3. To configure a **WhiteList** for the RossTalk or WebApi servers — add the following to the settings.json file:

```
"RossTalk": {
  "Enabled": true,
  "Port": 7788 },
  "WhiteList": {
    "Enabled": true,
    "List": [ "000.0.0.1", XXX.XXX.XX.XX" ]
  }
```

```
"WebApi": {
  "Enabled": true,
  "Port": 8083,
  "WhiteList": {
    "Enabled": true,
    "List": [ "000.0.0.1", "XXX.XXX.XX.XX" ]
  }
```

4. Restart Voyager Trackless Studio to apply the **WhiteList** settings.

The system will only allow authorized IP addresses as listed.

All other IP addresses are rejected.

To disable the WhiteList

1. Change "**Enabled**": **true**, to "**Enabled**": **false**.
2. **Restart** Voyager Trackless Studio.

Appendix C: Keyboard Shortcuts

Shortcuts for the following sections are included in this section:

[Events Panel Shortcuts](#)  81

[Camera Presets Shortcuts](#)  82

Events Panel Shortcuts

Command	Shortcut
Focus on the first Event	Page Up
Execute the current focused Event and move to the next one	Page Down
Focus on the first Event	Up Arrow
Execute the current focused event and move to the next one	Down Arrow

Event Trigger Shortcuts

Command	Shortcut
Trigger Event 1	CTRL+1
Trigger Event 2	CTRL+2
Trigger Event 3	CTRL+3
Trigger Event 4	CTRL+4
Trigger Event 5	CTRL+5
Trigger Event 6	CTRL+6
Trigger Event 7	CTRL+7
Trigger Event 8	CTRL+8
Trigger Event 9	CTRL+9
Trigger Event 10	CTRL+10

Camera Presets Shortcuts

Command	Shortcut
Recall Camera 1 Preset 1	CTRL+Q
Recall Camera 1 Preset 2	CTRL+W
Recall Camera 1 Preset 3	CTRL+E
Recall Camera 1 Preset 4	CTRL+R
Recall Camera 1 Preset 5	CTRL+T
Recall Camera 1 Preset 6	CTRL+Y
Recall Camera 1 Preset 7	CTRL+U
Recall Camera 1 Preset 8	CTRL+I
Recall Camera 1 Preset 9	CTRL+O
Recall Camera 1 Preset 10	CTRL+P

Camera 2 Preset Shortcuts

Command	Shortcut
Recall Camera 2 Preset 1	CTRL+A
Recall Camera 2 Preset 2	CTRL+S
Recall Camera 2 Preset 3	CTRL+D
Recall Camera 2 Preset 4	CTRL+F
Recall Camera 2 Preset 5	CTRL+G
Recall Camera 2 Preset 6	CTRL+H
Recall Camera 2 Preset 7	CTRL+J
Recall Camera 2 Preset 8	CTRL+K
Recall Camera 2 Preset 9	CTRL+L
Recall Camera 2 Preset 10	CTRL+SEMICOLON (;)

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