livestream

Livestream Studio™

Release Notes & New Features

For use with Livestream Studio™ version 4.1.0

Published on July 7, 2016

Table of Contents

livestream

Release notes

4.0.0 Beta Release Notes

New features

NEW → Studio Web Control - Brand new approach to live video production. Multi user, live video production from a Chrome browser. Learn more

NEW → RTMP Input - Livestream Studio now has an integrated RTMP server. Ingest up to 10 simultaneous RTMP streams from any encoder into your live video production

NEW → Multiangle single camera live production workflow - Use advanced cropping mechanism in Input Settings module to produce multiple shots with motion from a single 4K live input

NEW → Magewell Pro Capture Device Support. More Info: http://www.magewell.com

Improvements

→ Persistent network device settings in streaming module

→ Option to record all qualities to local .mp4 while streaming

→ New "Low CPU Performance" project formats, which are optimized for 720p live streaming use cases on low performance equipment (laptops, mid-range performance desktop computers, etc.)
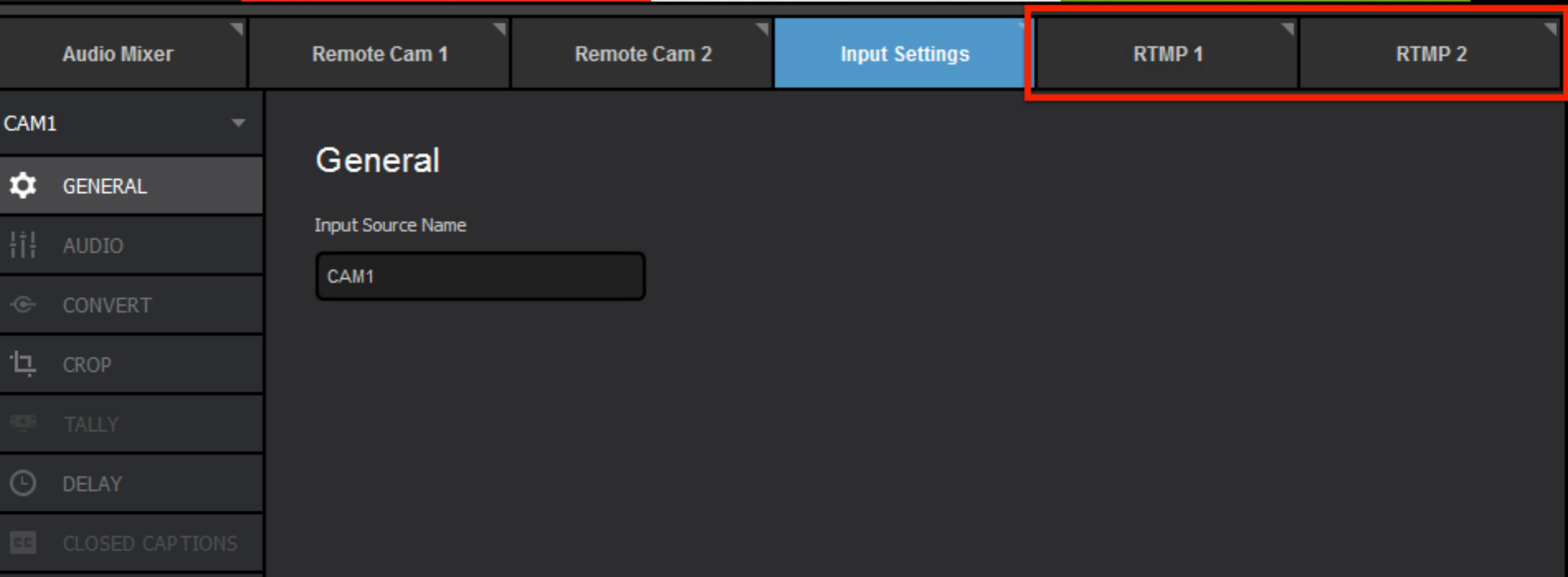
→ Added fallback scenario to RTMPT streaming

→ Added support of DeckLink Quad 2 and DeckLink Duo 2 devices

RTMP Server
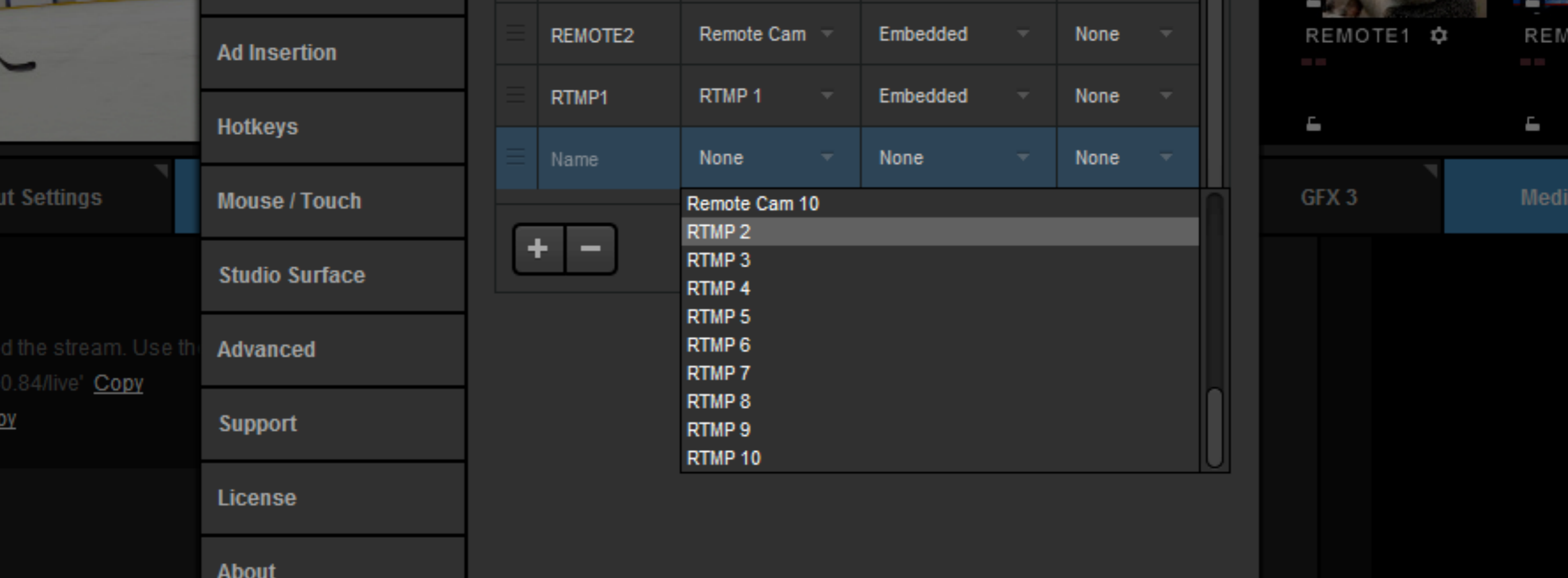
Livestream Studio users can now send a stream from a third-party encoder via RTMP directly to Studio. Go to 'Settings,' then 'Inputs.' You can add up to 10 RTMP input sources; save your settings.

Audio Mixer | Remote Cam 1 | Remote Cam 2 | **Input Settings** | RTMP 1 | RTMP 2

CAM1 ▼

⚙ GENERAL

▮▮▮ AUDIO

⟲ CONVERT

⌐ CROP

📺 TALLY

🕐 DELAY

CC CLOSED CAPTIONS

General

Input Source Name

CAM1

Your RTMP inputs tab(s) will appear in the lower left corner of the interface; select one to continue.

Your RTMP URL and Stream
Name are displayed on the right
side as well as further down in
the left-hand side menu.

Status	No Incoming Stream
Server Name	live
Authentication	OFF

Change Settings

☑ Enable RTMP Server

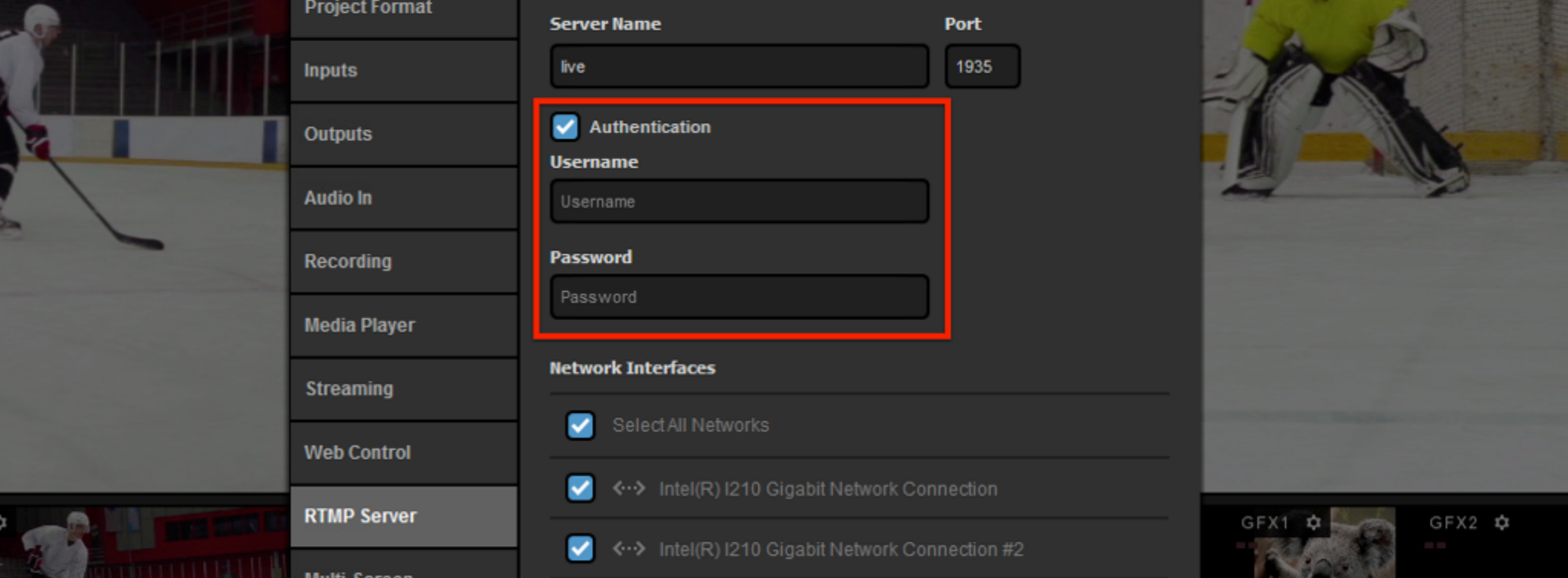**RTMP Server URL**

rtmp://24.103.40.84/live   COPY

Stream Name

server1

DOWNLOAD FMLE SETTINGS

⚠ No Incoming Stream

Configure your RTMP to send the stream. Use the following settings:
Server URL: 'rtmp://24.103.40.84/live' Copy
Stream Name: 'server1' Copy

By default, authentication is turned off. If you would prefer to have a username and password affiliated with your RTMP Server, click 'Change Settings.'

livestream

This will open the '**RTMP Server**'
tab in Studio's settings. Check
'Authentication' and enter the
desired username and password;
then click 'Save.'
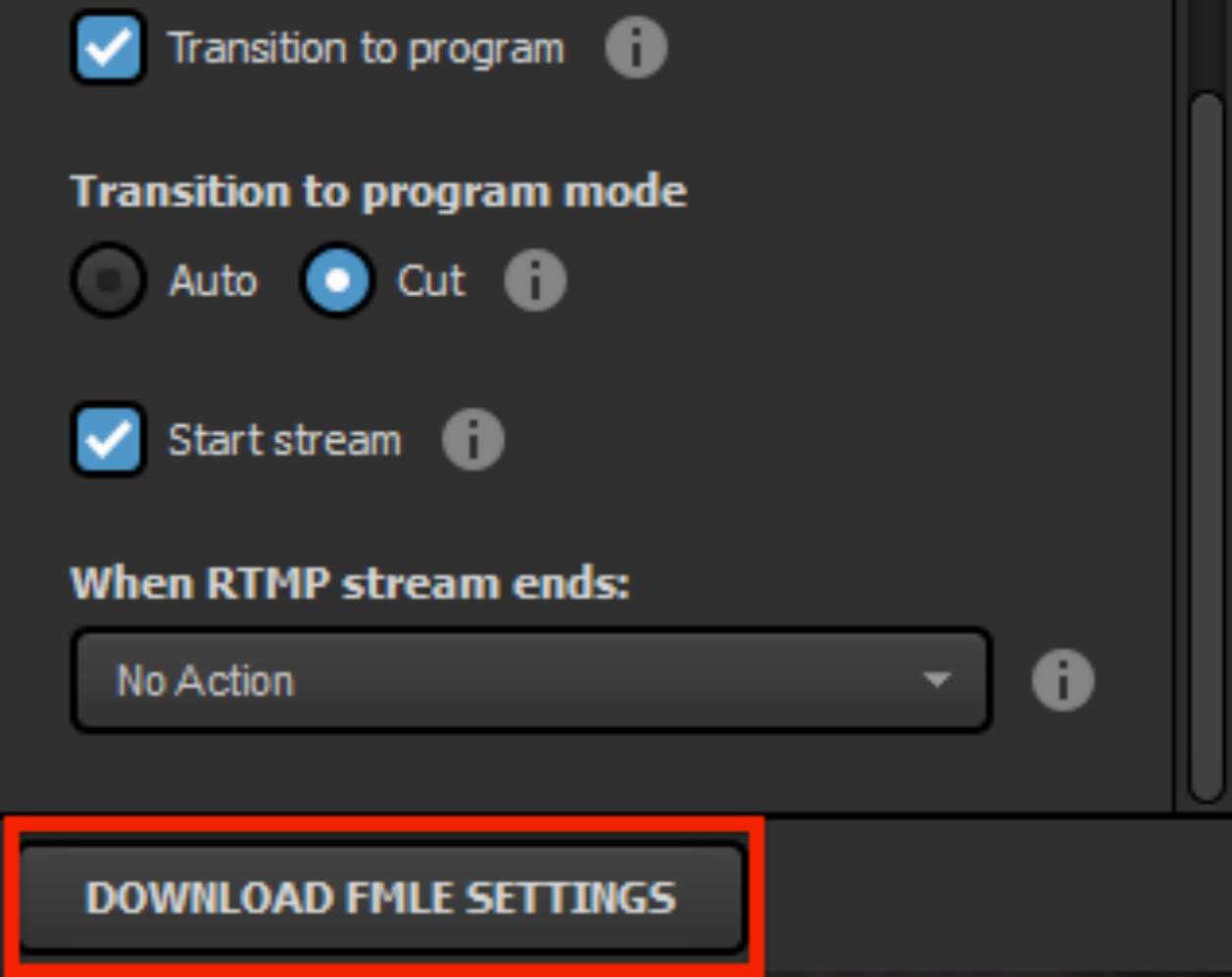
To save time copying and pasting, Studio gives you the option to 'Download FMLE Settings,' which you can then import into your encoder.
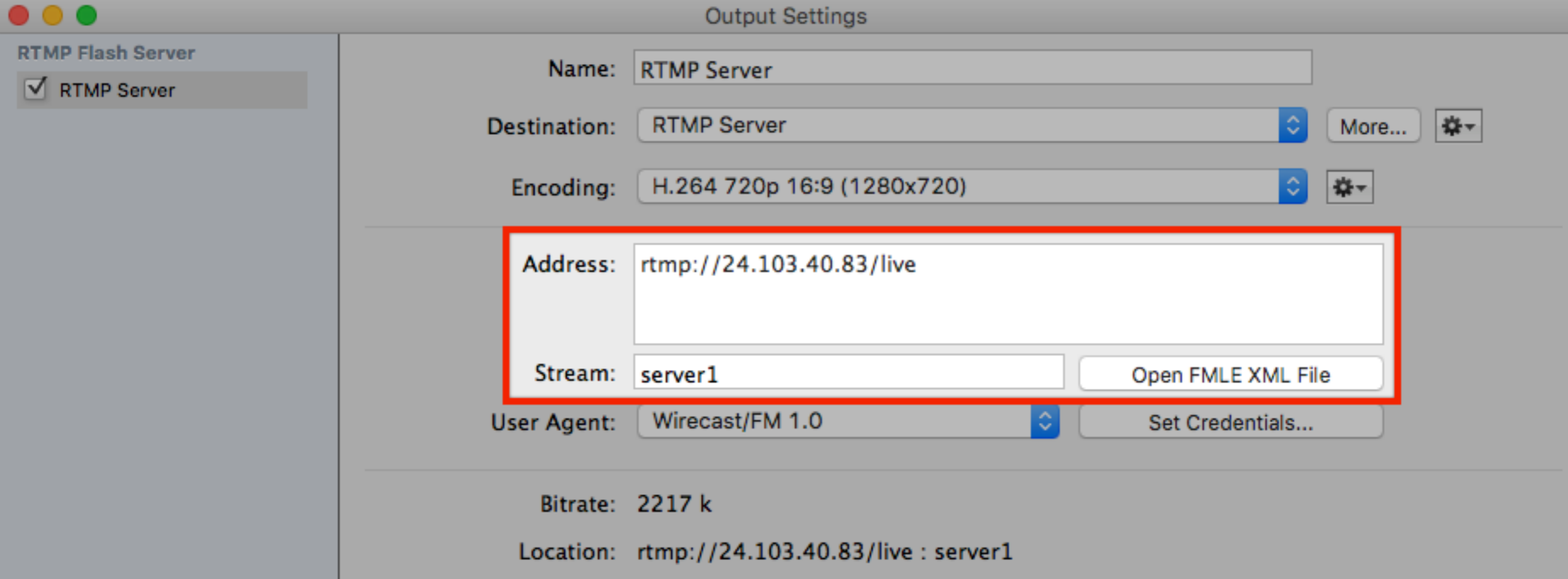
In your third-party encoder (e.g., Wirecast), open your RTMP settings and enter the RTMP URL and Stream Name from Studio into the corresponding fields.
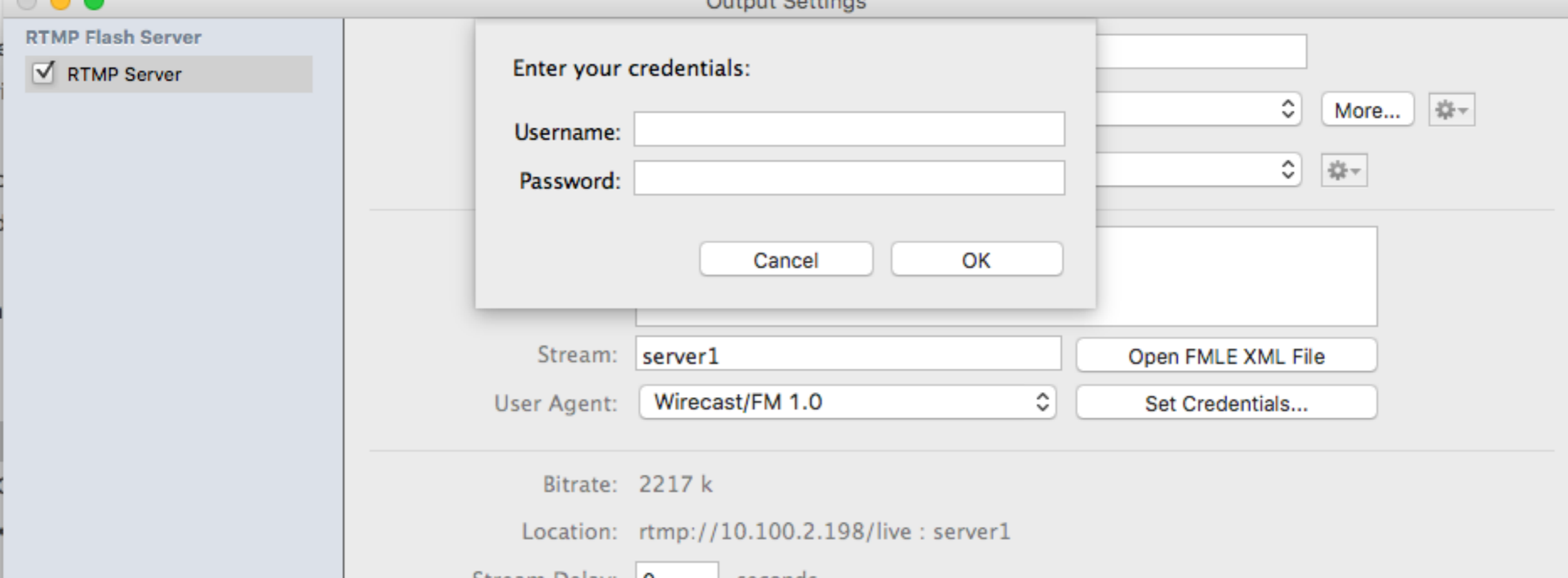
Enter your RTMP Input's
username and password,
if applicable; save these
settings.

livestream

Start streaming from your third-party encoder to your RTMP Input.

REMOTE2 ⚙

RTMP1 ⚙

RTMP2 ⚙

No Incoming stream

More Details

COLOR1 ⚙

GFX 1

GFX 2

GFX 3

Media 1

Media

In the Studio multi-view, you should see the video output from your third-party encoder appear in your RTMP Input.

livestream

You can transition your RTMP Input into Program, just as you would with any other source.

livestream

Stop the stream from your local encoder. This will allow you to access more advanced settings in the RTMP Input module.

On the left side of the module, scroll down to find more options.

rtmp://24.103.40.83/live   COPY

Stream Name

server1

☑ Transition to program ⓘ

Transition to program mode

○ Auto ⦿ Cut ⓘ

☑ Start stream ⓘ

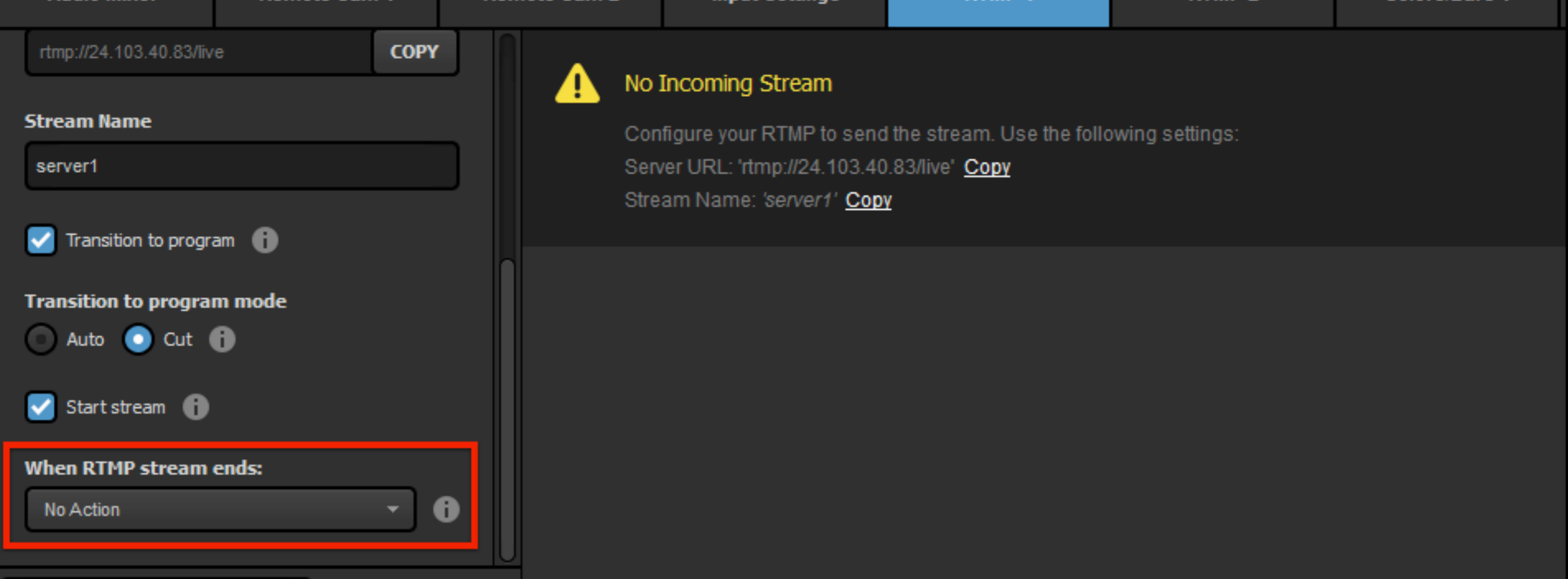**When RTMP stream ends:**

Stop streaming and delete ▾ ⓘ

⚠ No Incoming Stream

Configure your RTMP to send the stream. Use the following settings:
Server URL: 'rtmp://24.103.40.83/live' Copy
Stream Name: 'server1' Copy
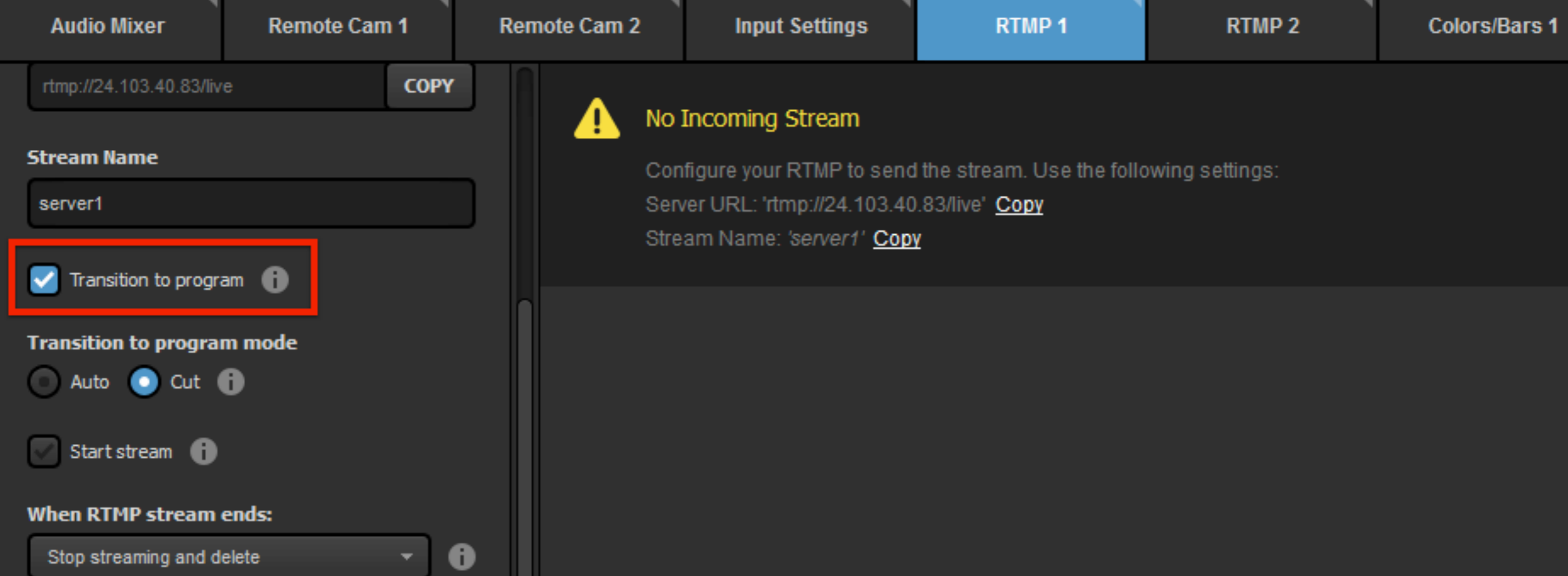
Checking 'Transition to Program'
will automatically switch the
RTMP input into Program as soon
as Studio receives the stream.

livestream

rtmp://24.103.40.83/live   **COPY**

Stream Name

server1

☑ Transition to program ⓘ

Transition to program mode

○ Auto   ◉ Cut ⓘ

☑ Start stream ⓘ

When RTMP stream ends:

Stop streaming and delete ▼ ⓘ

⚠ **No Incoming Stream**

Configure your RTMP to send the stream. Use the following settings:
Server URL: 'rtmp://24.103.40.83/live' Copy
Stream Name: 'server1' Copy
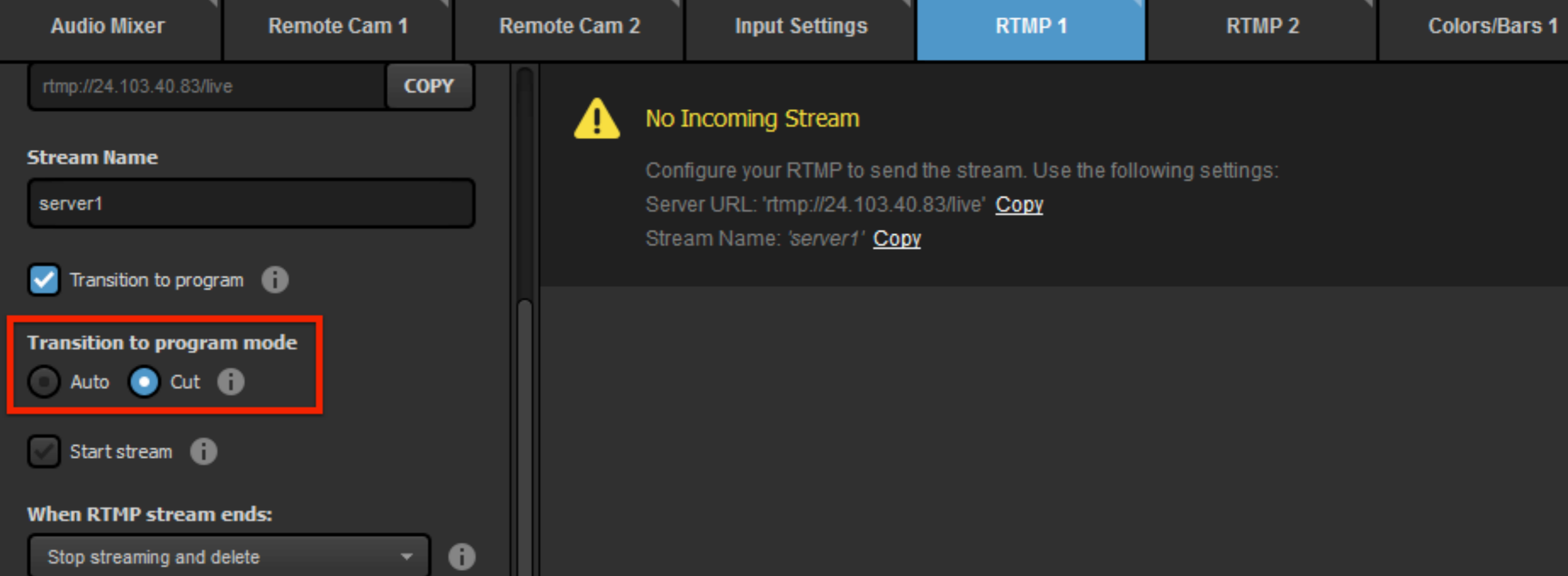
'Transition to program mode,'
which allows you to choose
whether your input will Cut or
Auto-Transition into Program
once the stream is received.

livestream

rtmp://24.103.40.83/live   COPY

⚠ No Incoming Stream

Configure your RTMP to send the stream. Use the following settings:
Server URL: 'rtmp://24.103.40.83/live' Copy
Stream Name: 'server1' Copy

Stream Name

server1

☑ Transition to program ⓘ

Transition to program mode

◉ Auto   ◉ Cut ⓘ

☑ Start stream ⓘ

When RTMP stream ends:

Stop streaming and delete   ⓘ

Next is 'Start Stream,' which can prompt Studio to automatically start streaming to your selected provider in Studio (e.g. Livestream) as soon as it receives the RTMP input.

❚livestream

'When RTMP stream ends'
allows you to select what
Studio should do when you
stop streaming from your
third-party encoder.
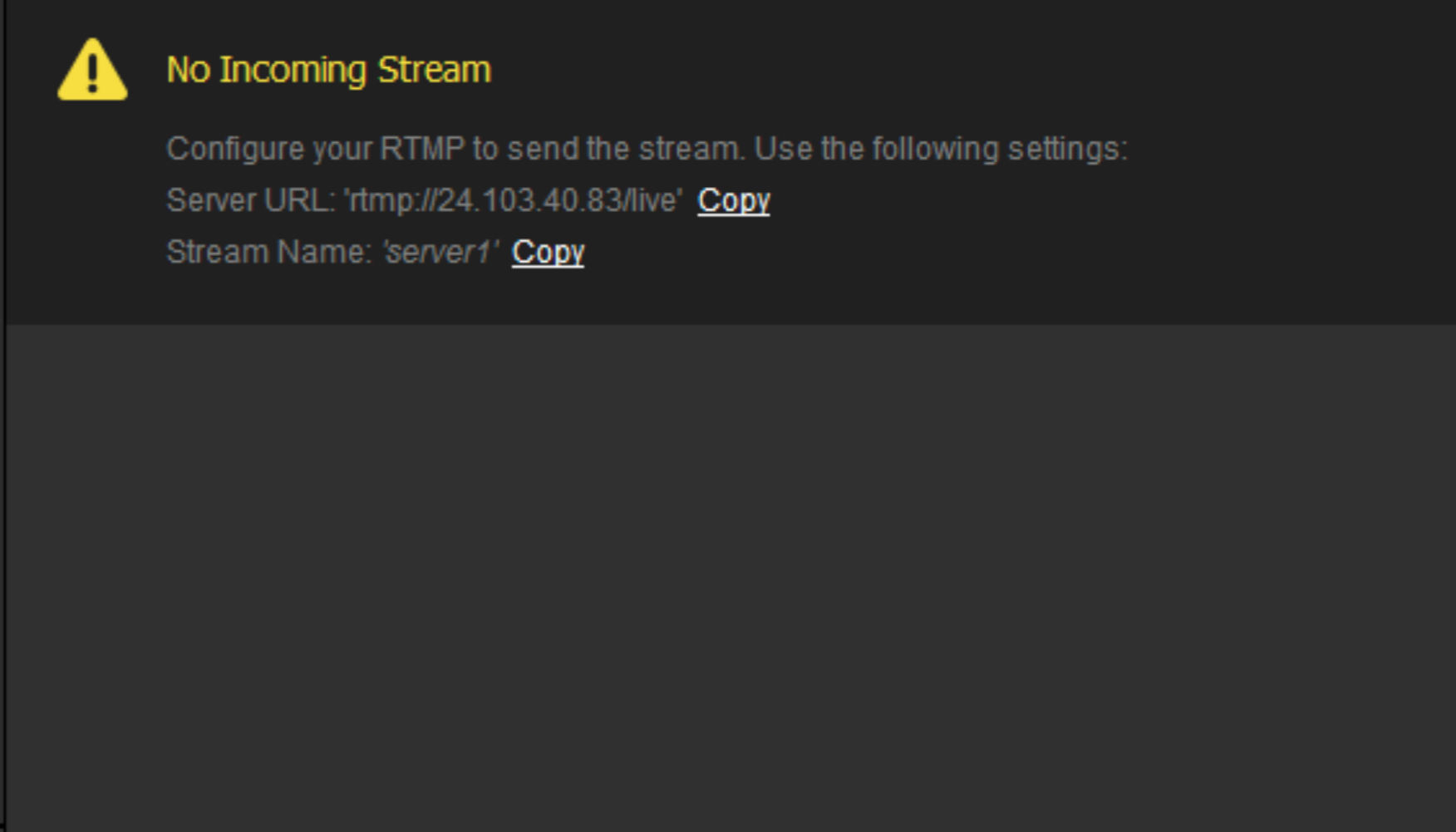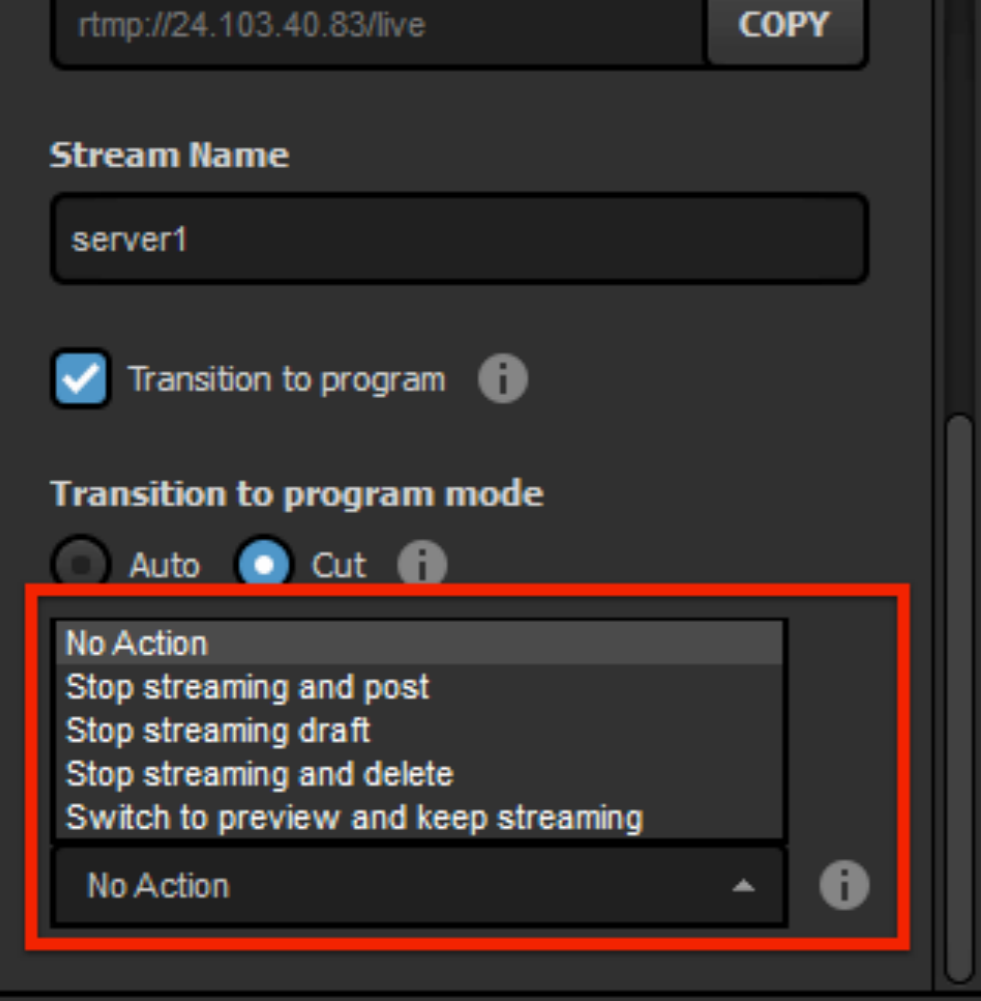
The options are:

No Action: Studio will not react to the RTMP stream stopping

Stop Streaming and Post: Studio will end its stream and post the video on demand.

Stop Streaming Draft: Studio will end its stream and save the video as a draft post (Livestream only).

Stop Streaming and Delete: Studio will end its stream and delete the video on demand (Livestream only).

Switch to Preview and Keep Streaming: Studio will continue streaming, but transition the Preview source into Program.
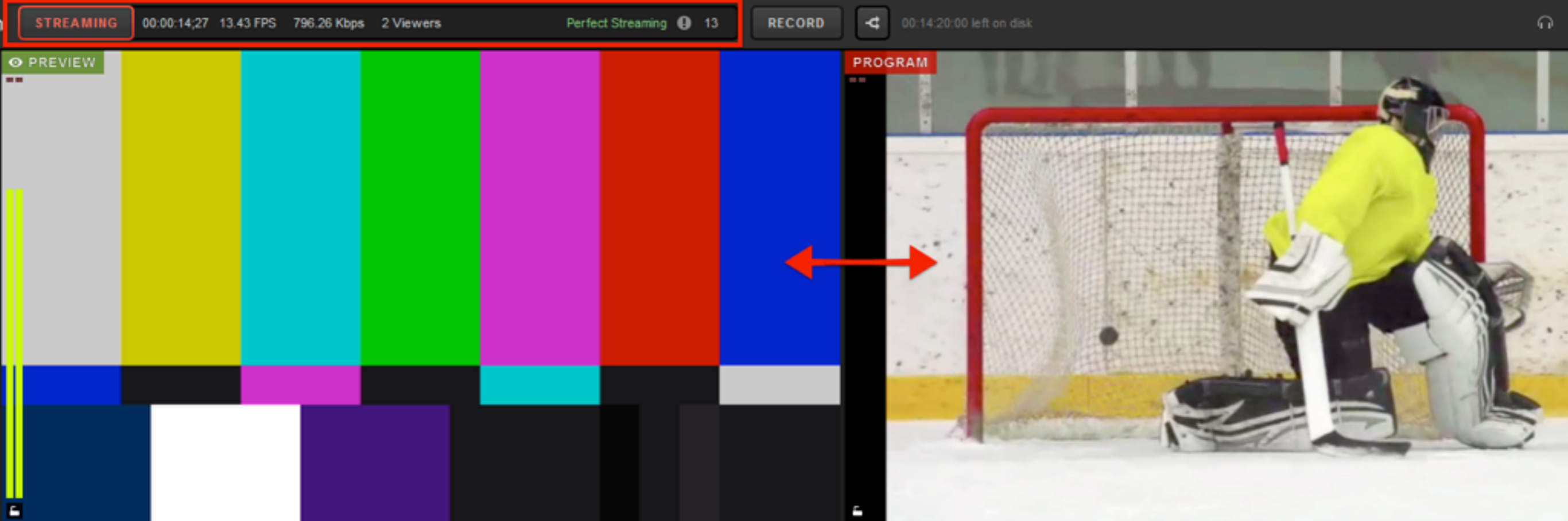
Now when you start your third-party encoder, your source will appear in Program and automatically stream to your chosen provider.
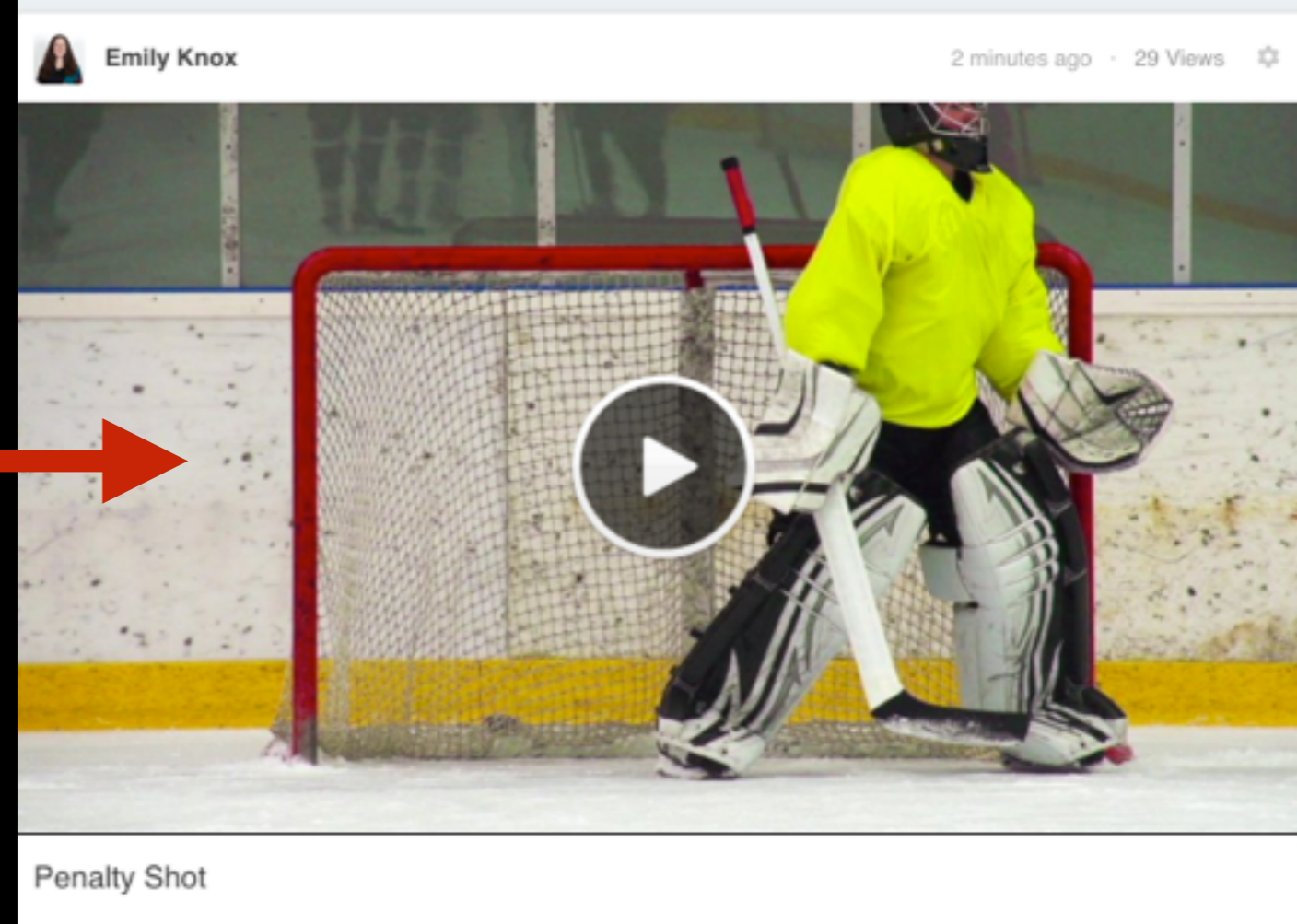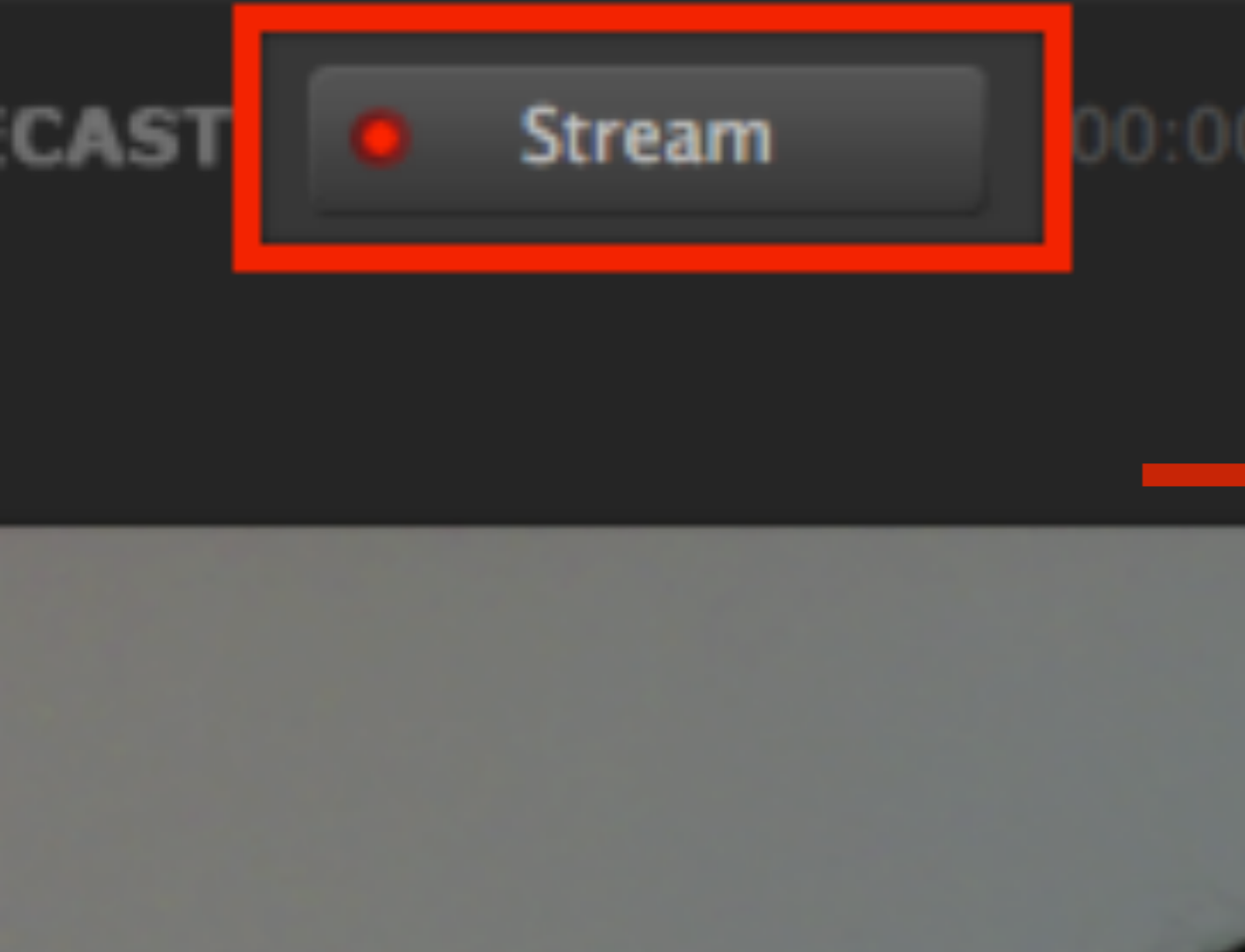
When you stop your third-party encoder, Studio will take whatever action you chose automatically.

Web Control
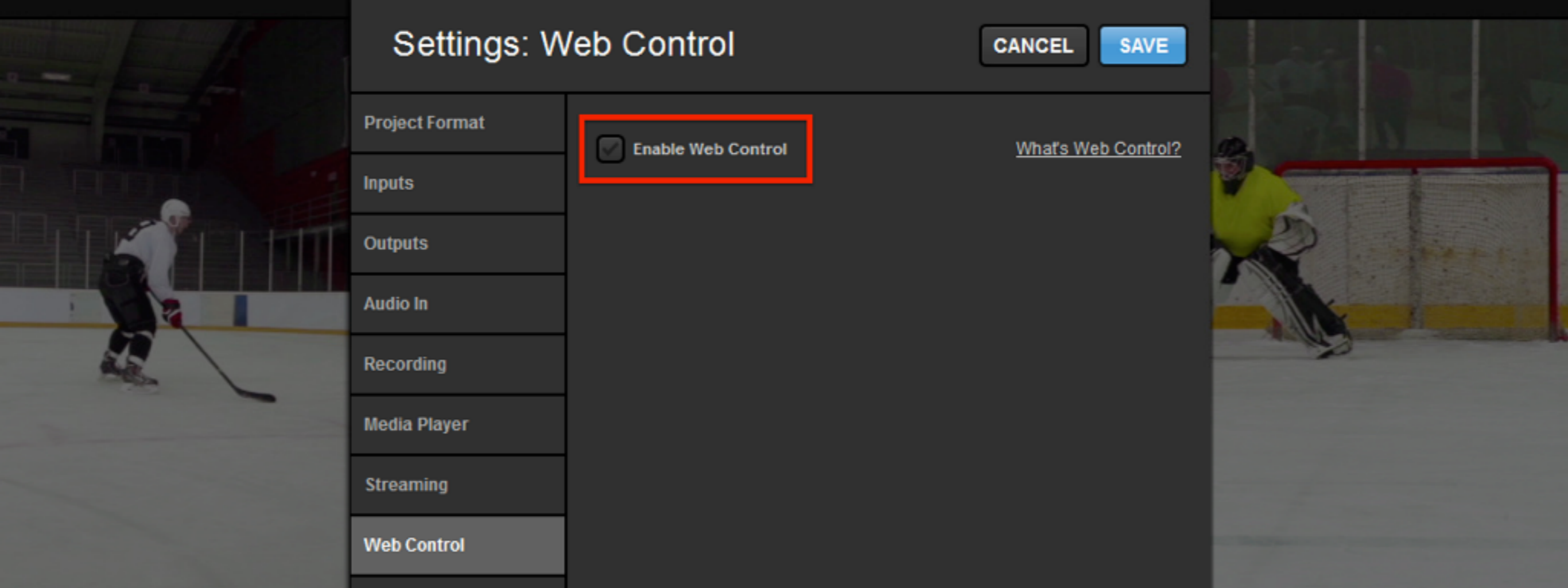
You can allow control of your
Livestream Studio from anywhere
in the world via Google Chrome.
First, go to 'Settings.'

Note: This feature does not work in any other
browser.
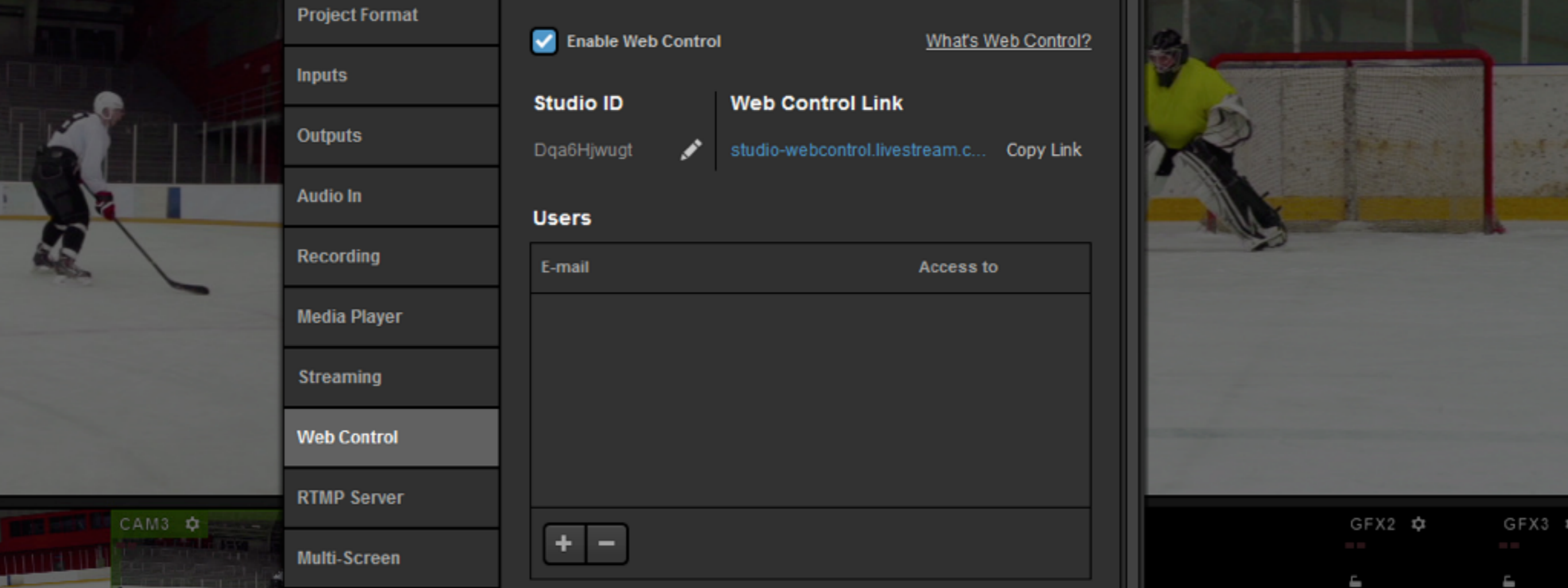
Click the 'Web Control' tab and check 'Enable Web Control.' This menu allows you to choose to whom you will grant Web Control access, and what the Web Control interface will look like.
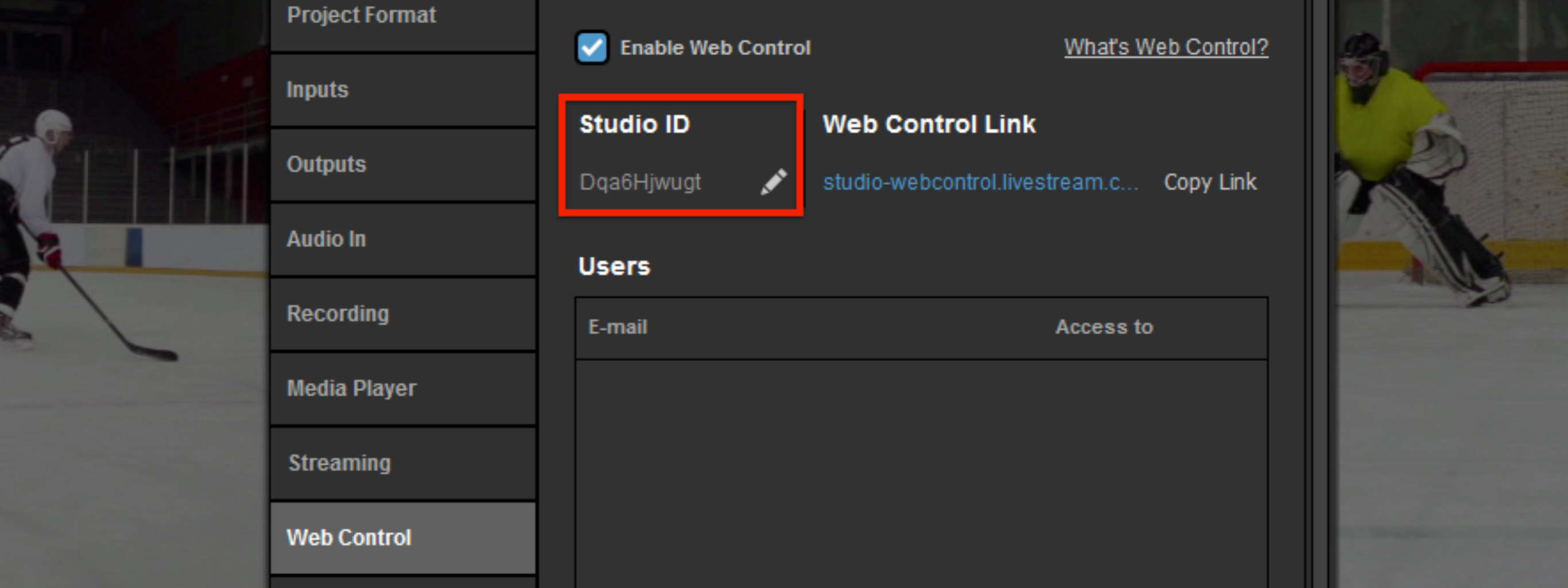
Your Studio will have a random
ID assigned to it automatically.
Click the pencil icon to change
the Studio ID.
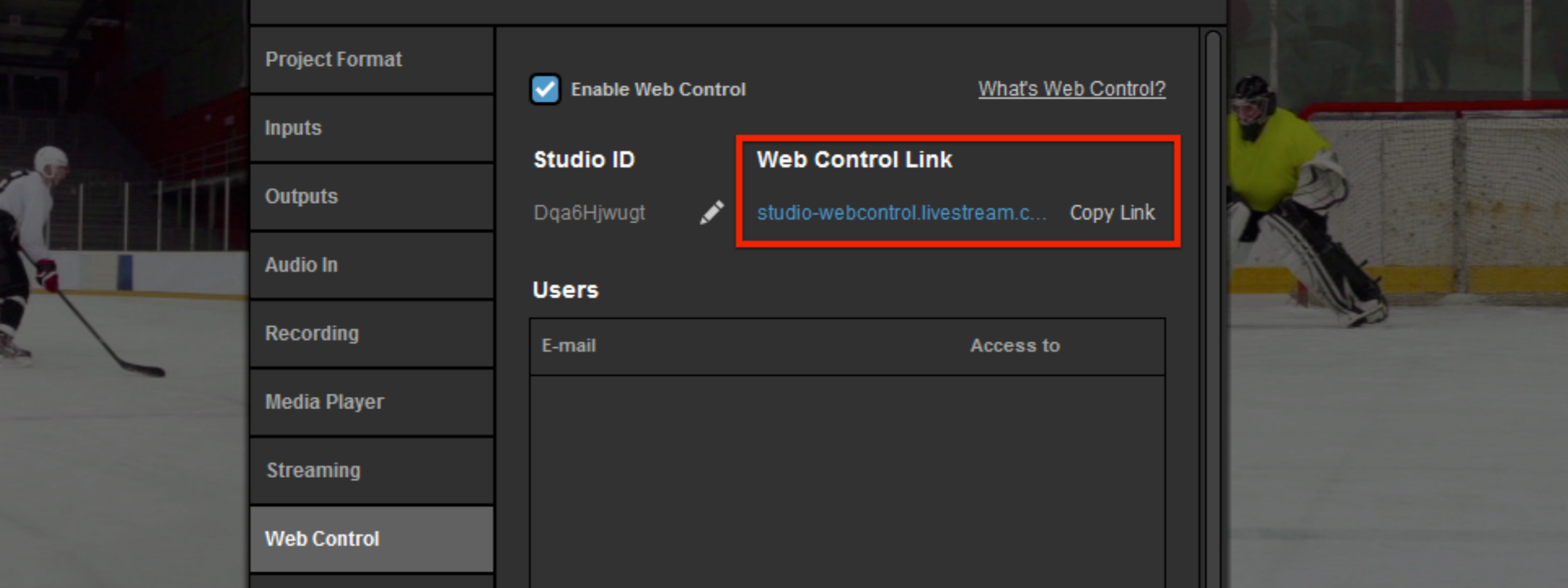
To the right of the Studio ID is the Web Control URL, which you can copy to your clipboard and access from a Google Chrome browser.
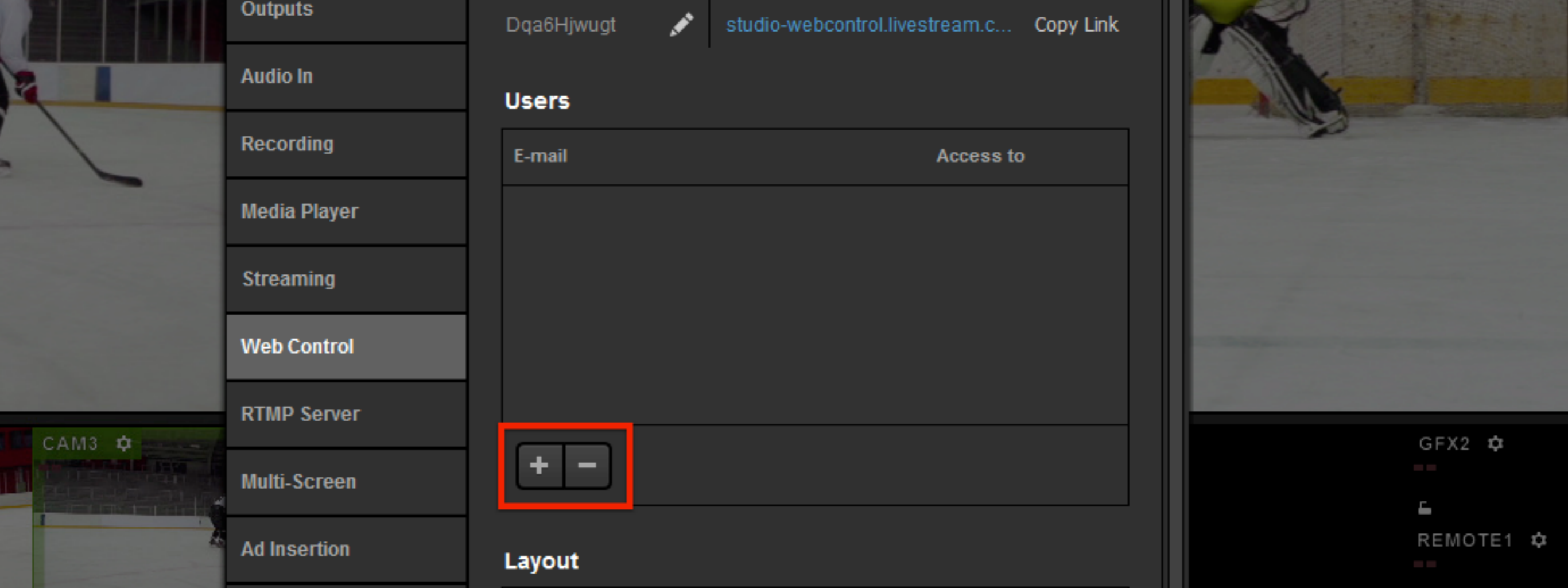
Below is a list of users who have access to Web Control; this should be empty when you first open this menu. To add a user (such as yourself), click the '+' button.
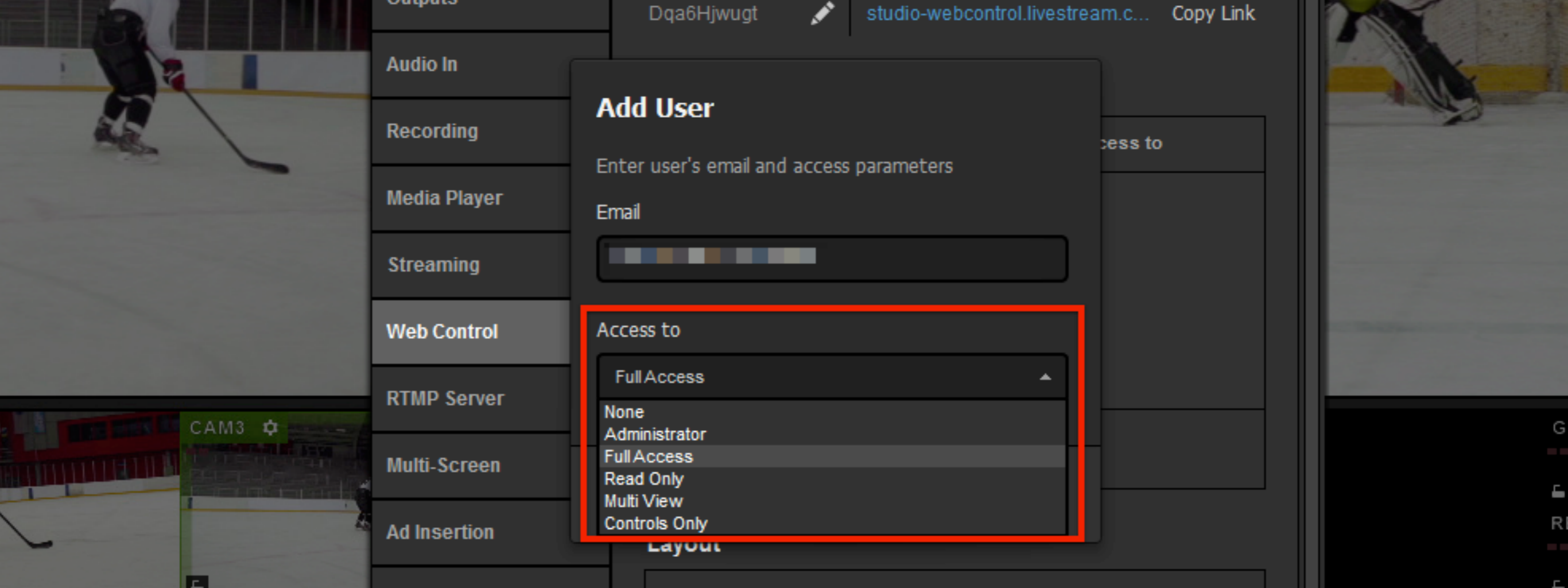
Enter the user's email address and choose how much access you wish to grant them. The options are:

- Administrator
- Full access
- Read only
- Multiview
- Controls only
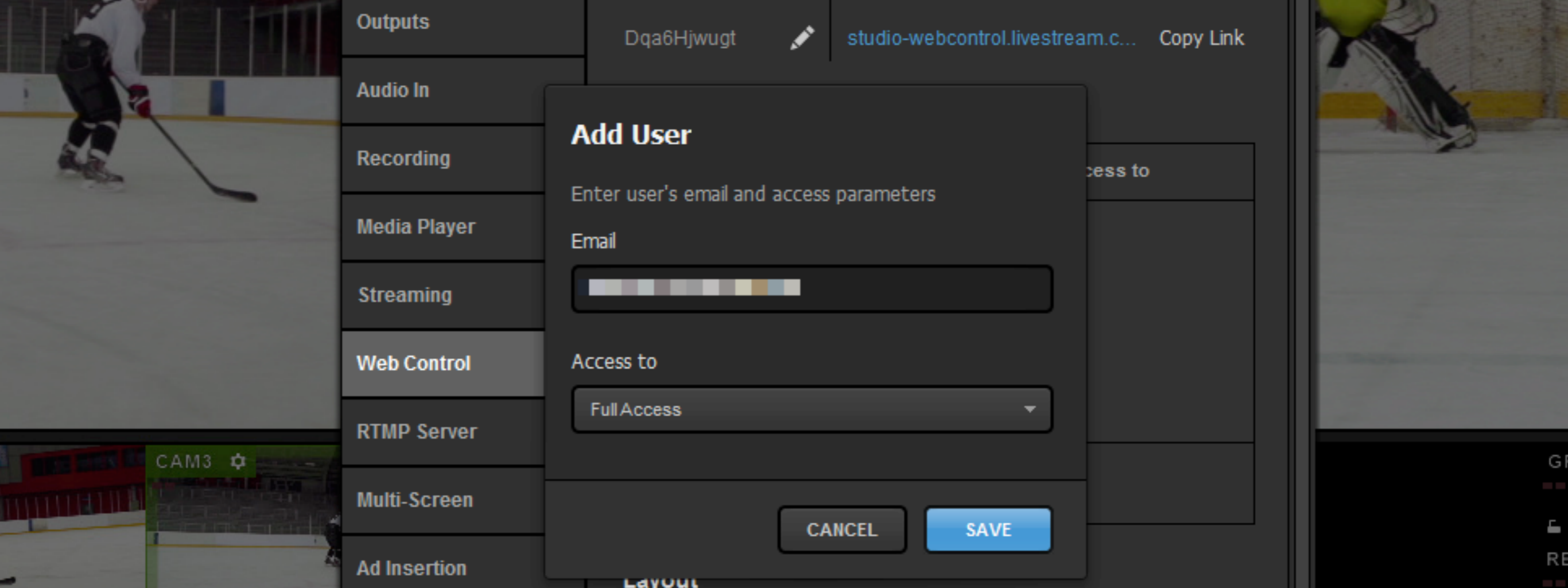
Click 'Save' and then save your Studio settings. The user you have invited to access your Studio via Web Control will not be able to join it until you save your settings.
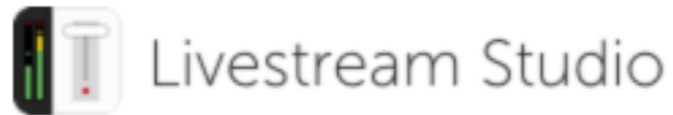
Livestream Studio

You have been invited to Livestream Studio Web Control!

Now you can control Livestream Studio **ID Dqa6Hjwugt** remotely from your browser.
Use your Livestream account email and password to log in to Livestream Studio Web Control at
studio-webcontrol.livestream.com.

OPEN WEB CONTROL

The email address that you invited
will receive an email similar to the
one shown above. Click 'Open
Web Control.'

You will be prompted to log in with a Livestream account. If you do not have one, you can create one by clicking 'Join Livestream'; you must use the email address that received the invite.
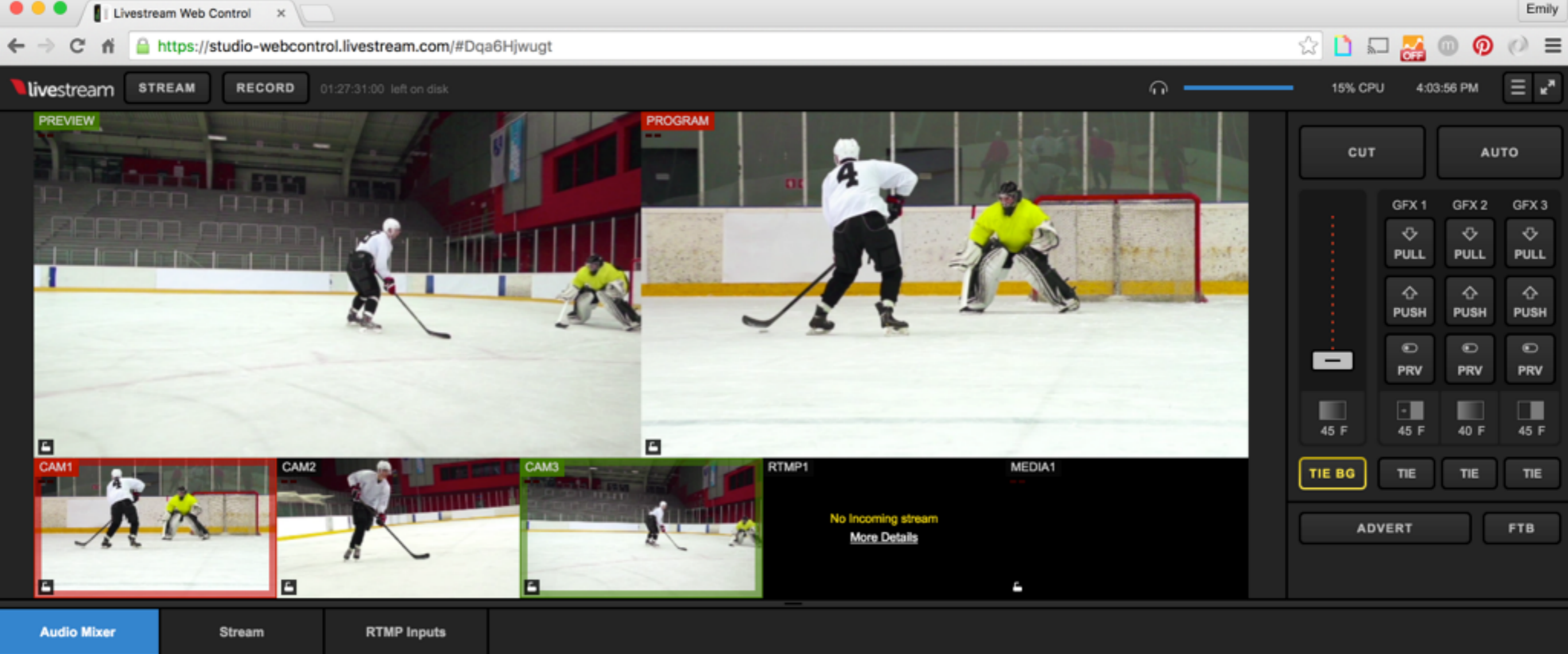
After logging in, you will automatically be directed to your Web Control interface. The interface includes Program, Preview, multi-view, transition & overlay controls, audio mixer, the stream module, plus the new RTMP Inputs module.
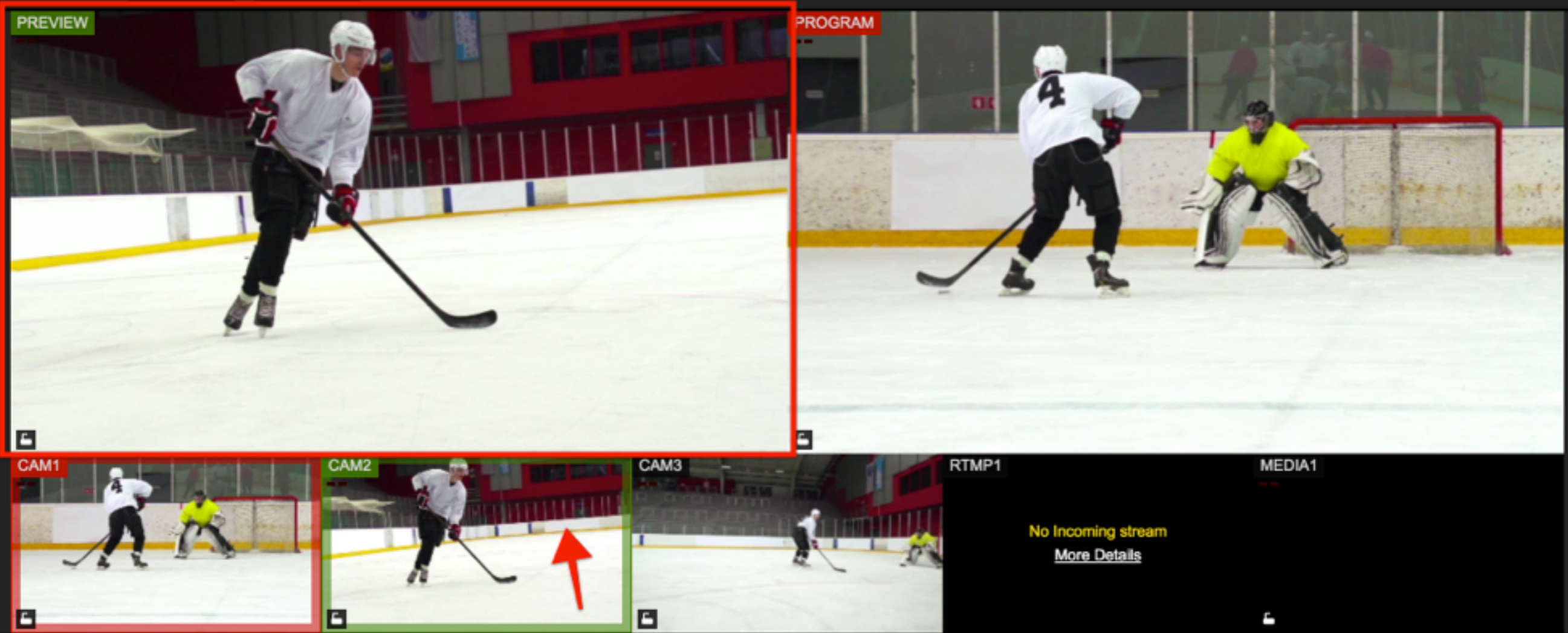
The mouse controls function as they do in Studio (i.e. left-clicking a source will put it in Preview, right-clicking a source will put it in Program, etc.)
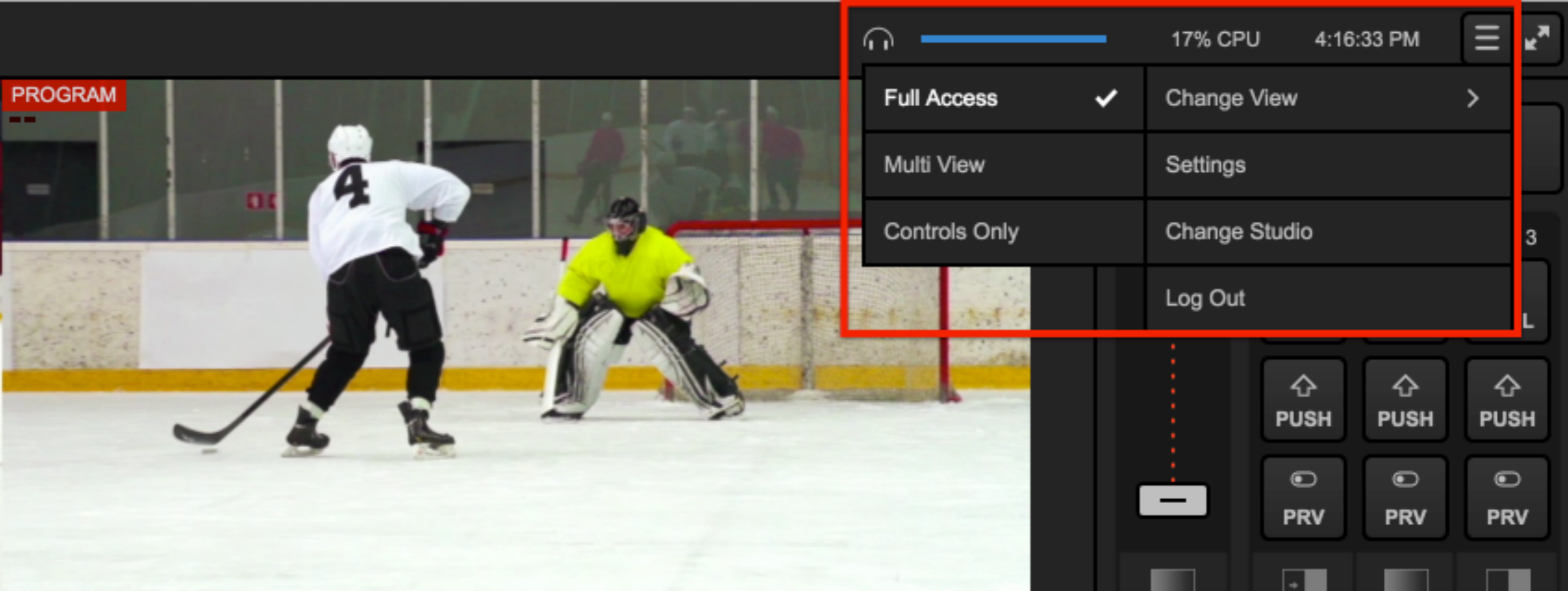
You can click the menu icon in the upper right corner if you wish to adjust what you can see. You can also log out here when you are done.

Stream to Facebook Live

Livestream   ⏎ Change Provider   ▯ Log

Log In to Livestream

Use your Livestream account to log in

✉ Email address

🔑 Password

LOG IN & CONTINUE

Don't have an account? **Sign up**
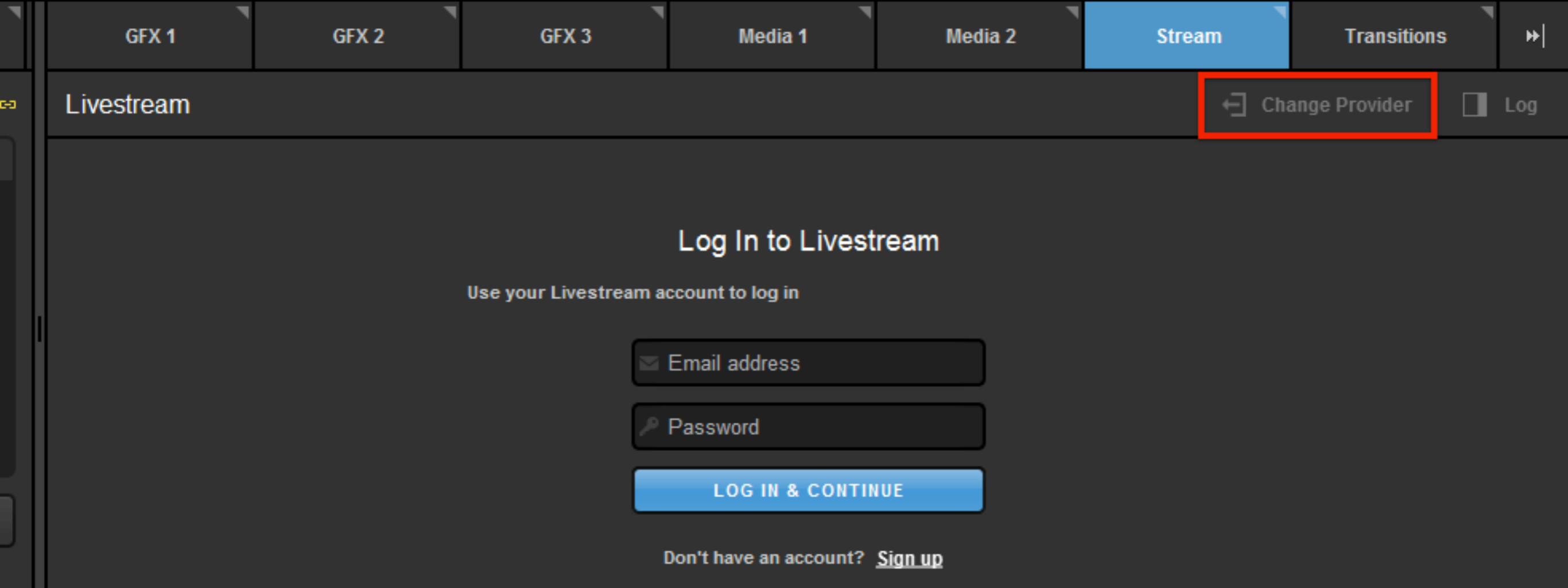
Under the '**Stream**' tab, click
'Change Provider.'
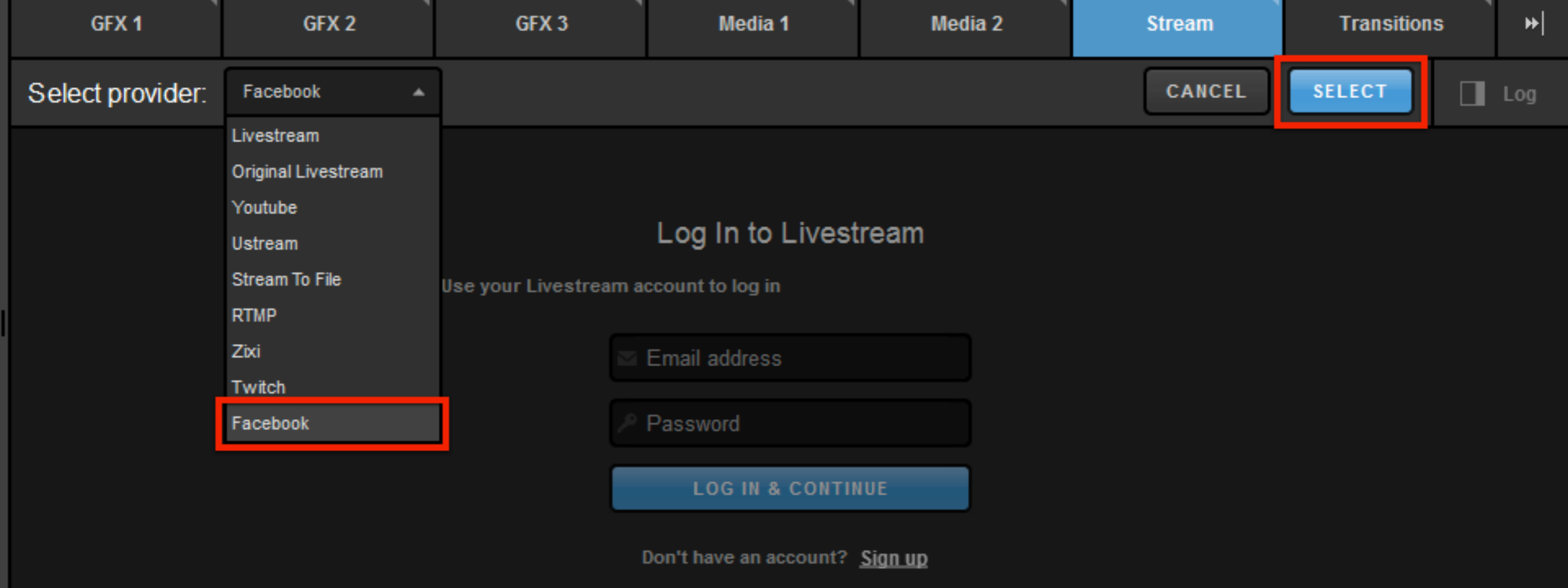
livestream

Click the dropdown menu on the left side. Select 'Facebook' from the menu, then click 'Choose.'

Enter your Facebook account credentials and click 'Log In.'

Studio will request permissions to see certain information from your Facebook profile, the ability to post to your timeline, and manage your pages and groups. Click 'Okay' to continue.

You will be directed to the Facebook streaming module, where you can configure the settings for your stream.
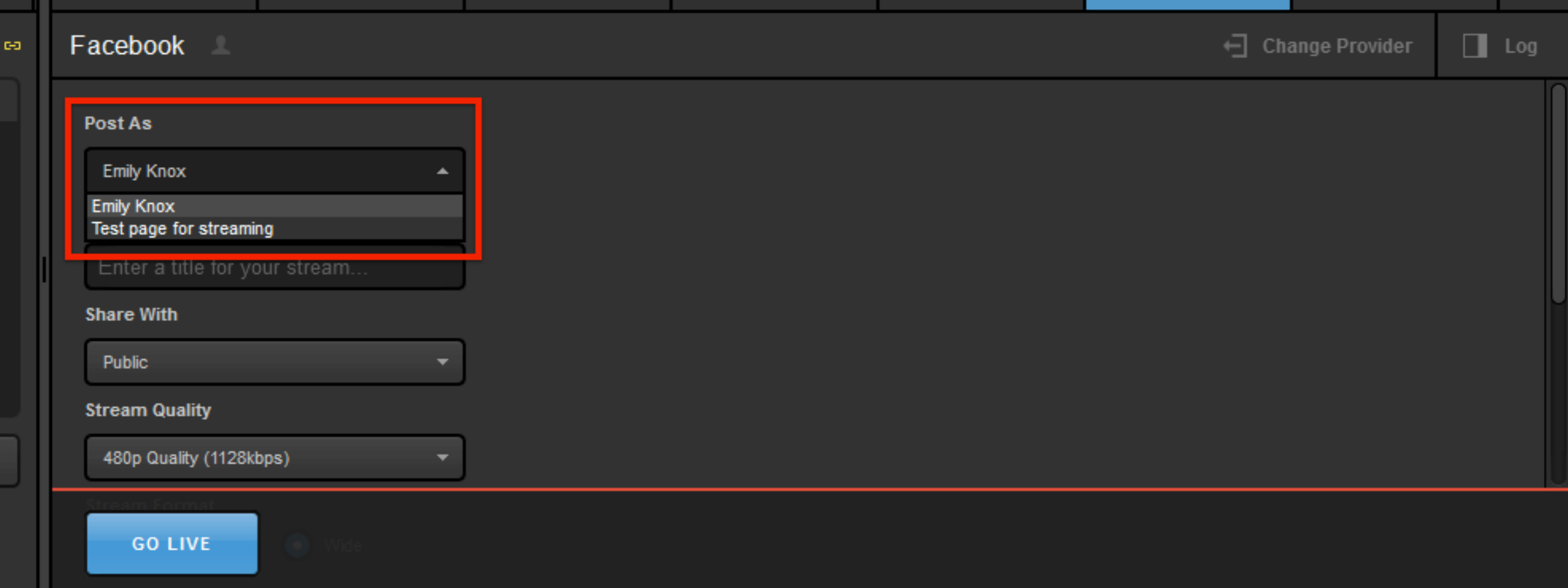
Choose whether to stream as
yourself or as another page or group
of which you are the administrator.
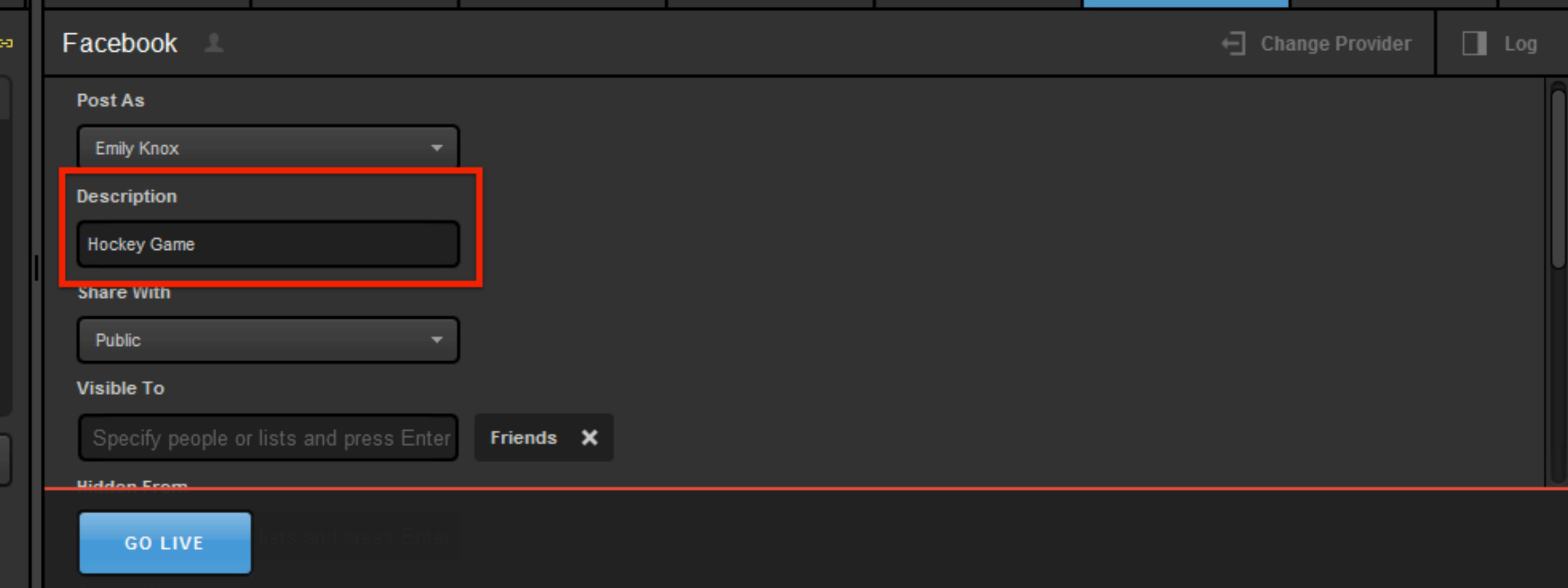
Enter a name for your stream. This name will appear above the player in the Facebook timeline post.
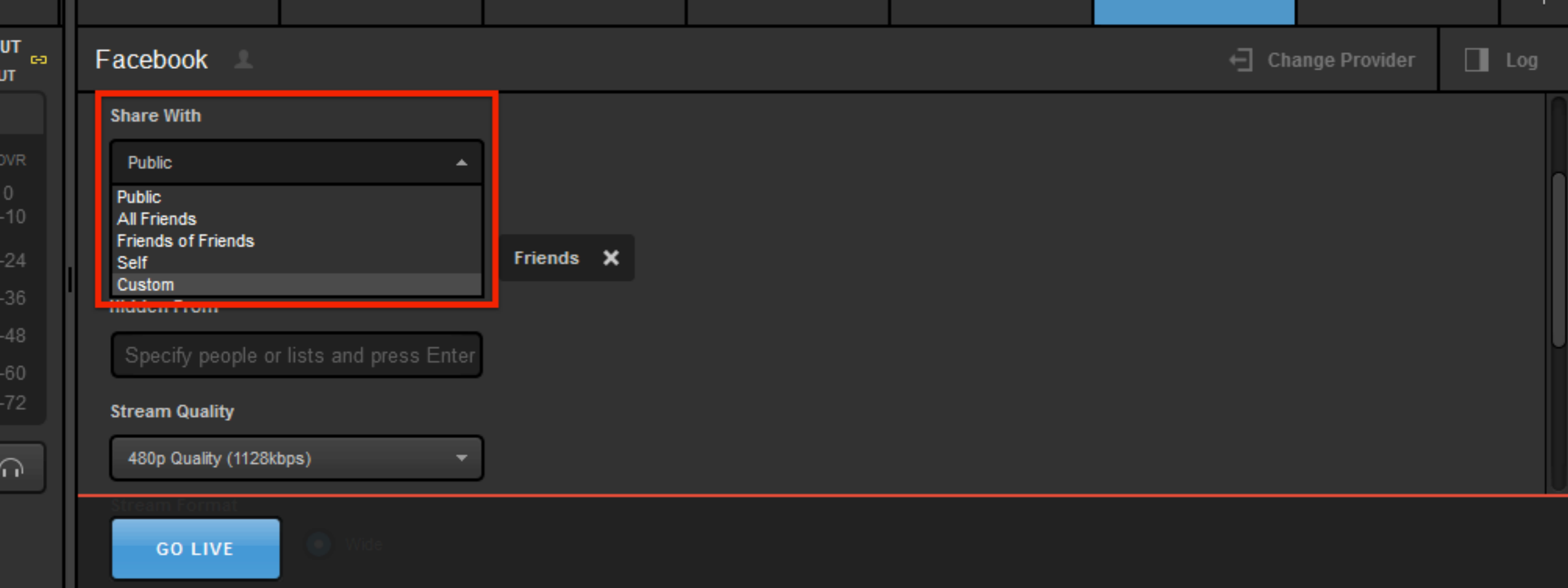
Choose the audience with which you want to share your stream.
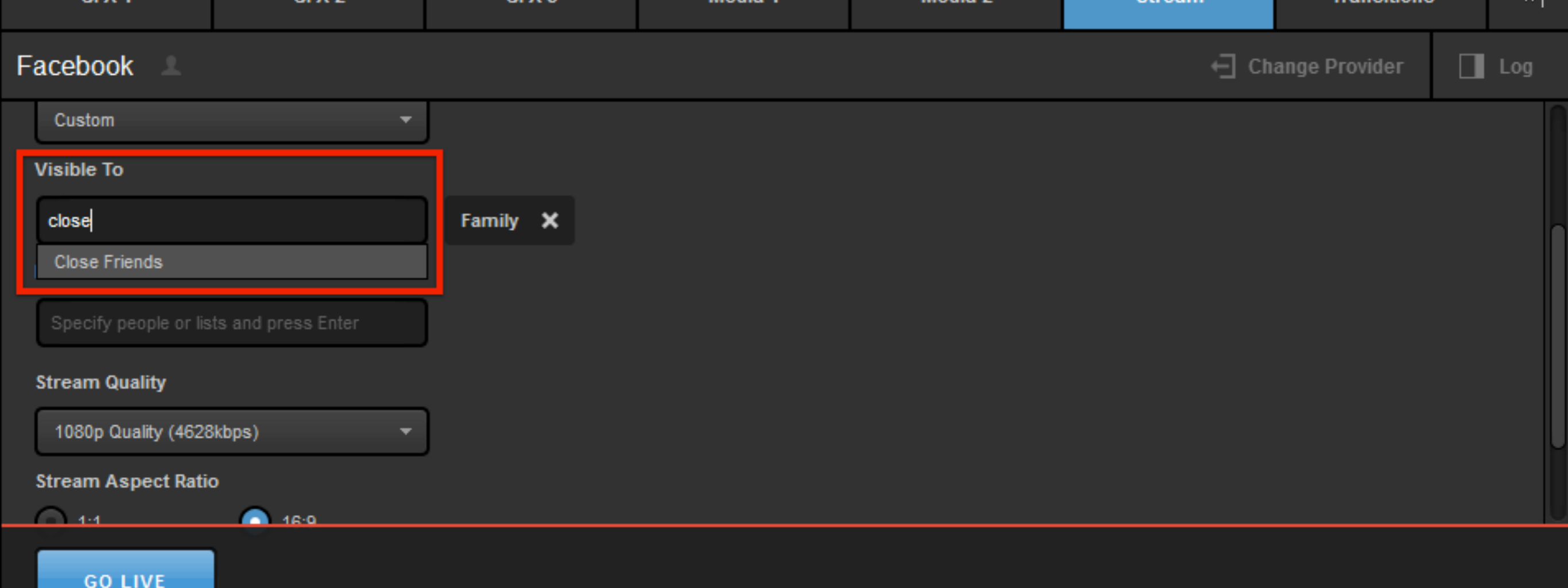
If you select 'Custom,' you can select specific friend lists or groups who can view your content by typing their names and pressing Enter on your keyboard.

Custom

Visible To

Specify people or lists and press Enter

Family ✕   Close Friends ✕

Hidden From

Specify people or lists and press Enter

Stream Quality

1080p Quality (4628kbps)

Stream Aspect Ratio

GO LIVE

Selected groups will appear to the right. Click the corresponding 'X' icons to remove them.
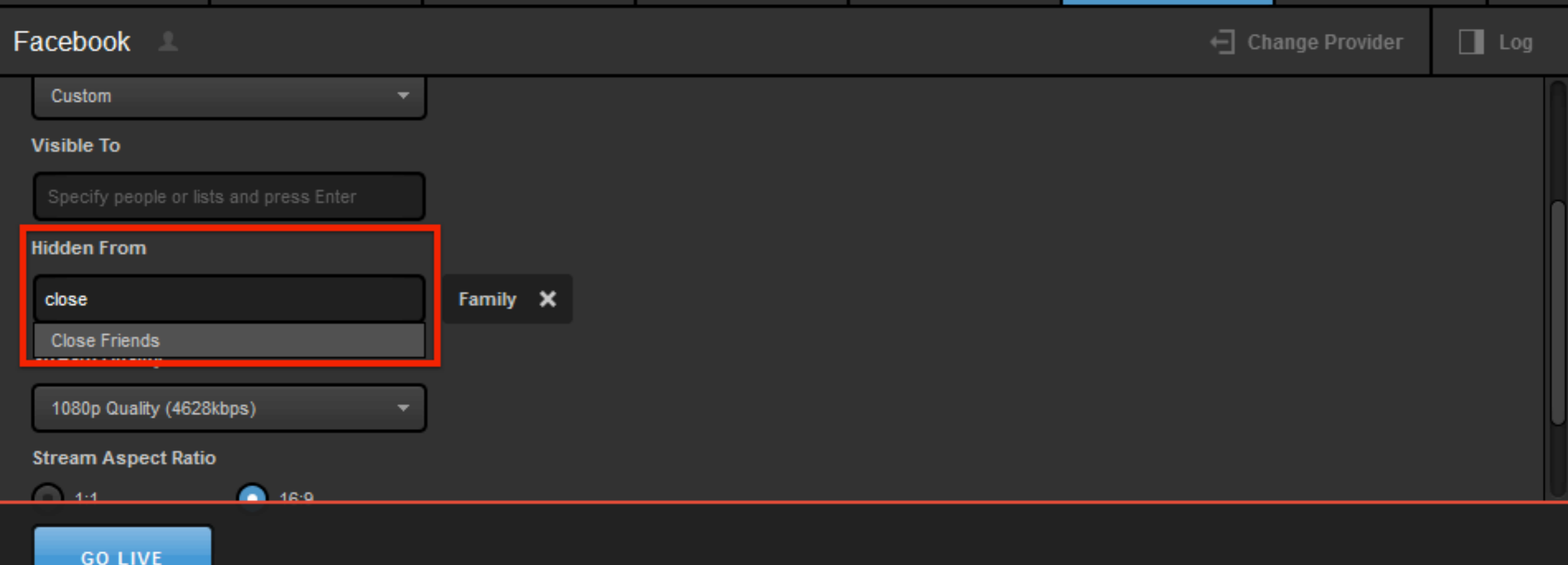
You can also hide your content from specific groups. Type in the names of any users or lists that you do not want to see your stream, and then press 'Enter' on your keyboard.
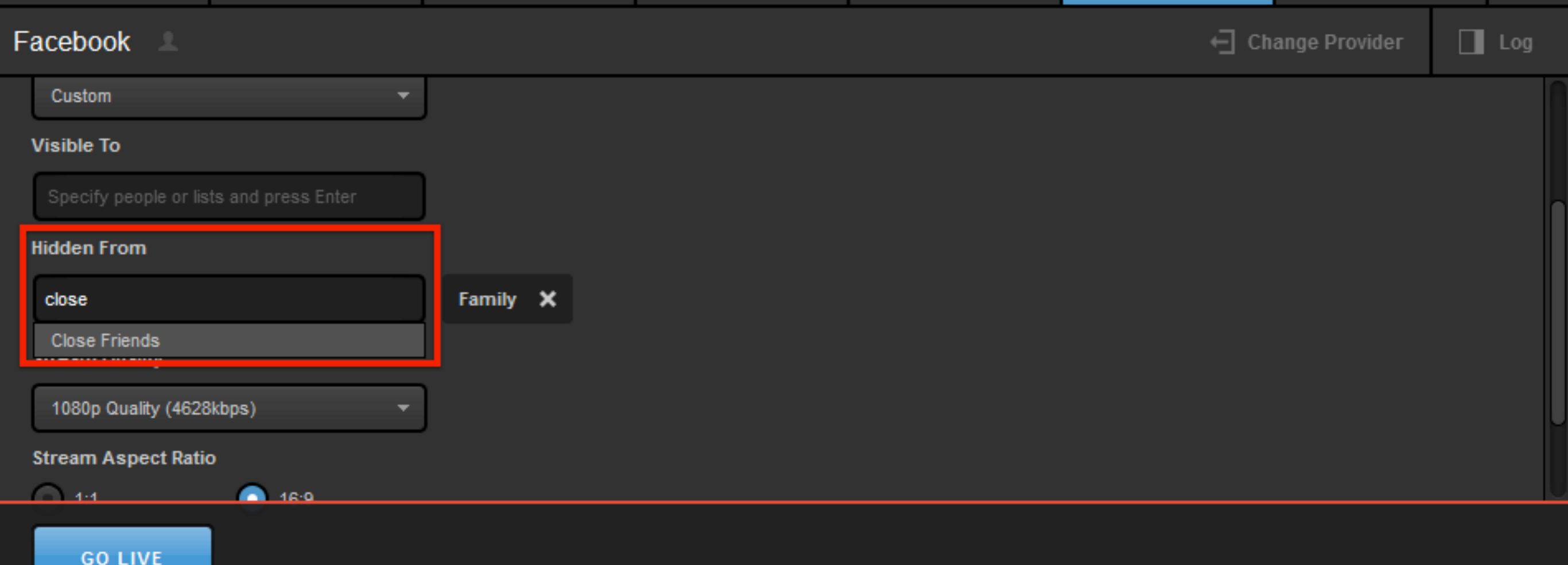
Groups can be removed from
this section also by clicking
their corresponding 'X' icons.
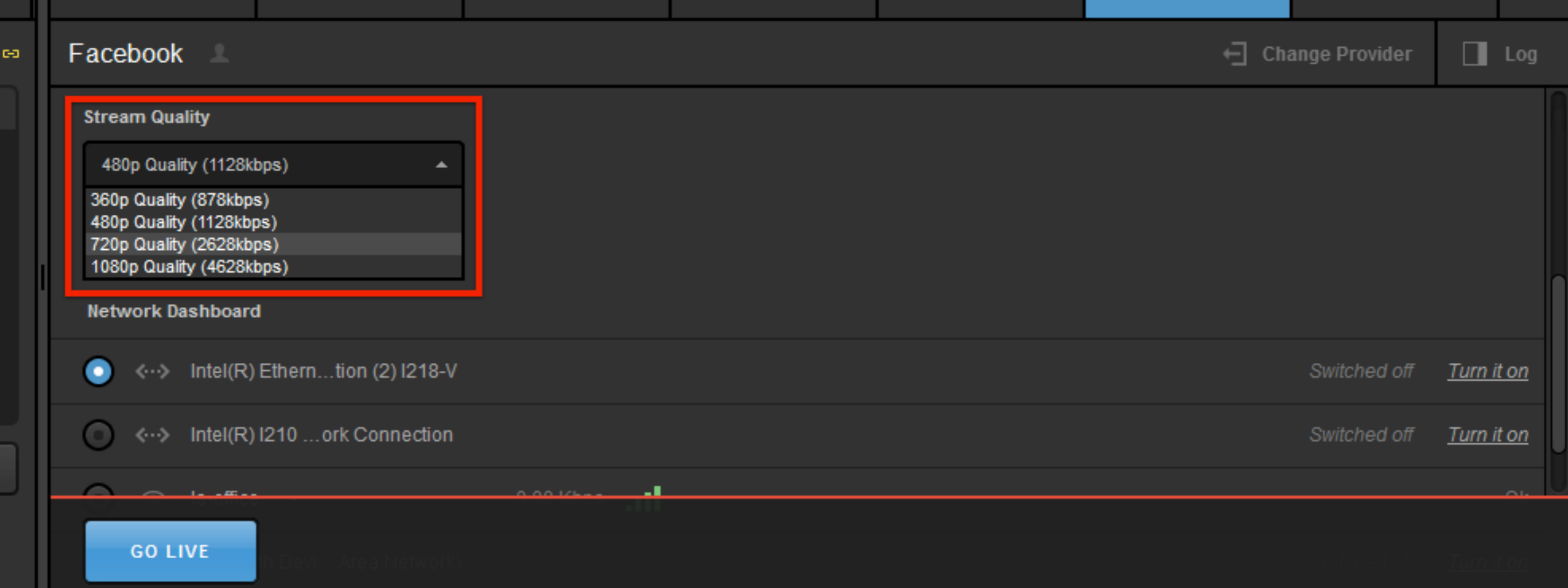
Next, choose the quality
for your stream.
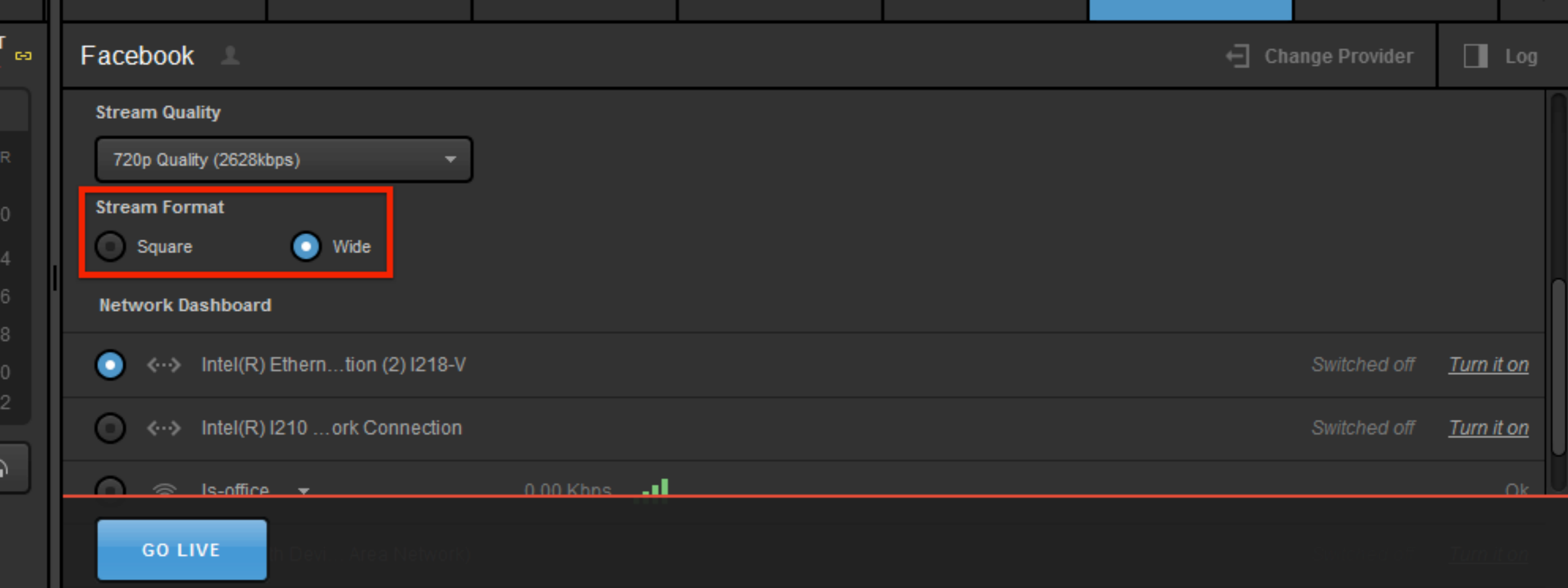
Choose whether you want the stream to appear in a wide (16:9) or square (1:1) player.

Make sure your network is connected.

To start streaming to your Facebook timeline, click 'Go Live' at the bottom right.

Once you are live, you can click the link in the bottom right corner to view your video on Facebook.

The stream will appear in your Facebook timeline after a few seconds.
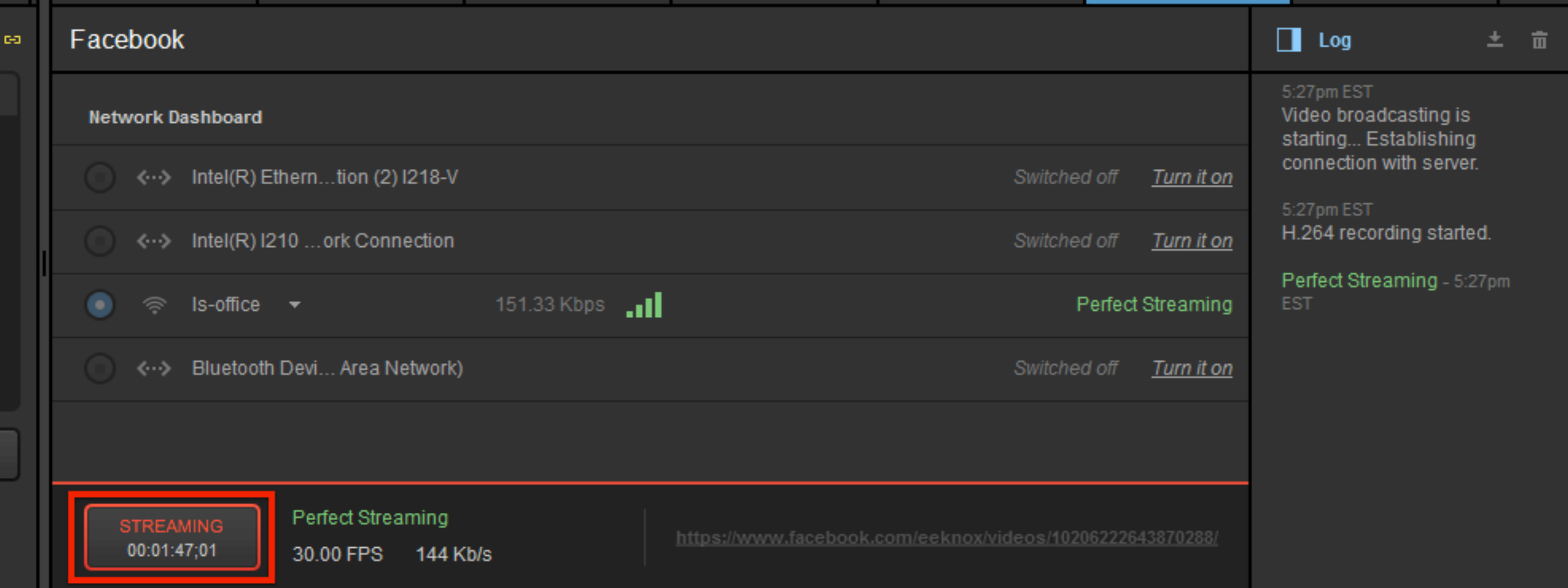
To end the stream, click the red 'Streaming' button. Your video will be available for on-demand playback on your timeline.

Facebook   ⌐ Change Provider   ▯ Log

Post As

Emily Knox ▾

Description

Enter a title for your stream...

Share With

Public ▾

Stream Quality

480p Quality (1128kbps) ▾

Stream Format

GO LIVE   ◉ Wide

You will be directed to the Facebook streaming module, where you can configure settings for your stream.

Advanced Input Cropping

livestream

CAM1 ▼

⚙ GENERAL

▮▮▮ AUDIO

⟲ CONVERT

◰ CROP

📷 TALLY

🕐 DELAY

💬 CLOSED CAPTIONS

General

Input Source Name

CAM1
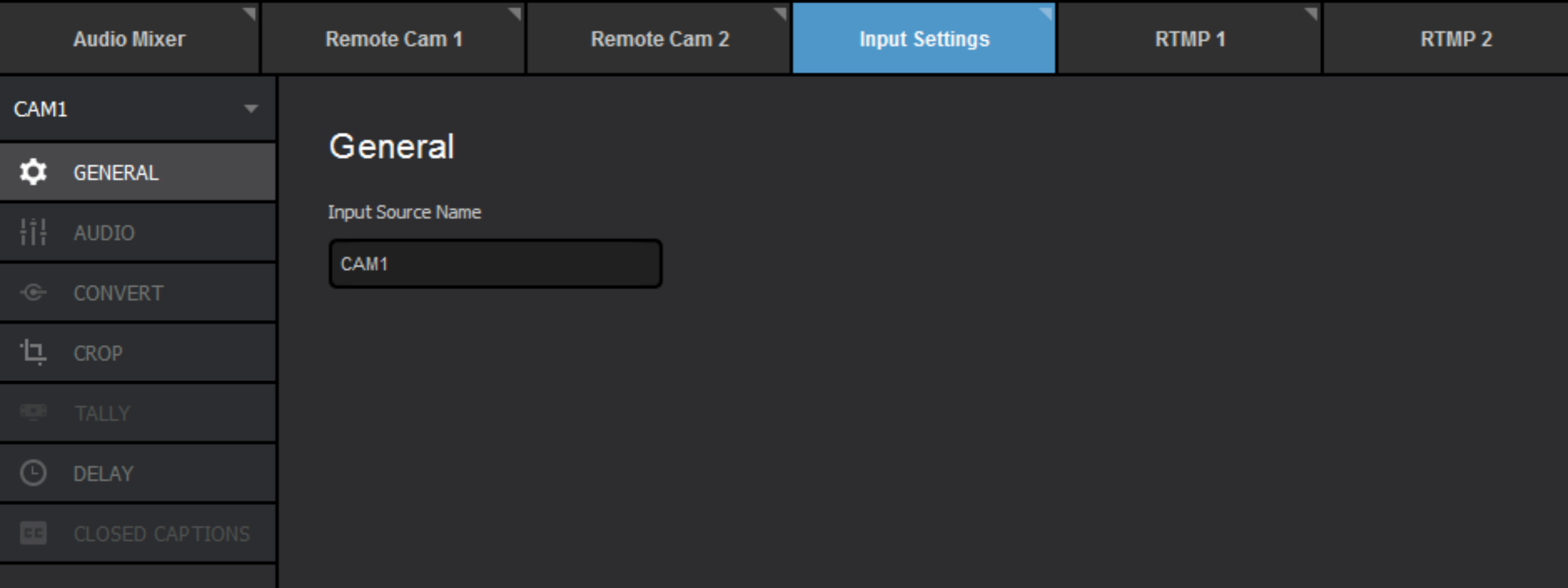
You can create multiple virtual camera shots for each input source. To do so, navigate to the '**Input Settings**' tab.

CAM1

CAM1

CAM2

CAM3

CAM4

CAM5

🕐 DELAY

CC CLOSED CAPTIONS

General

Input Source Name

CAM1
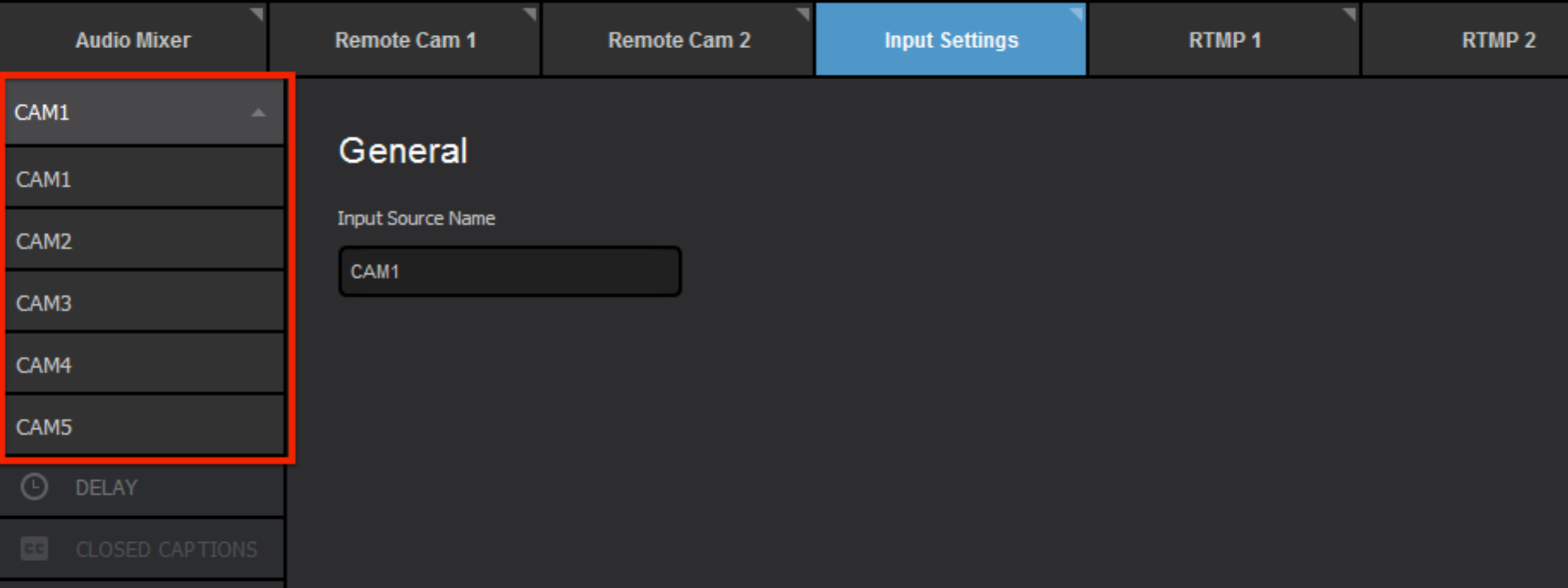
Select which camera you would like to adjust by clicking the dropdown in the upper left corner of the module.

livestream

CAM1 ▼

⚙ GENERAL

▏▎▏ AUDIO

↻ CONVERT

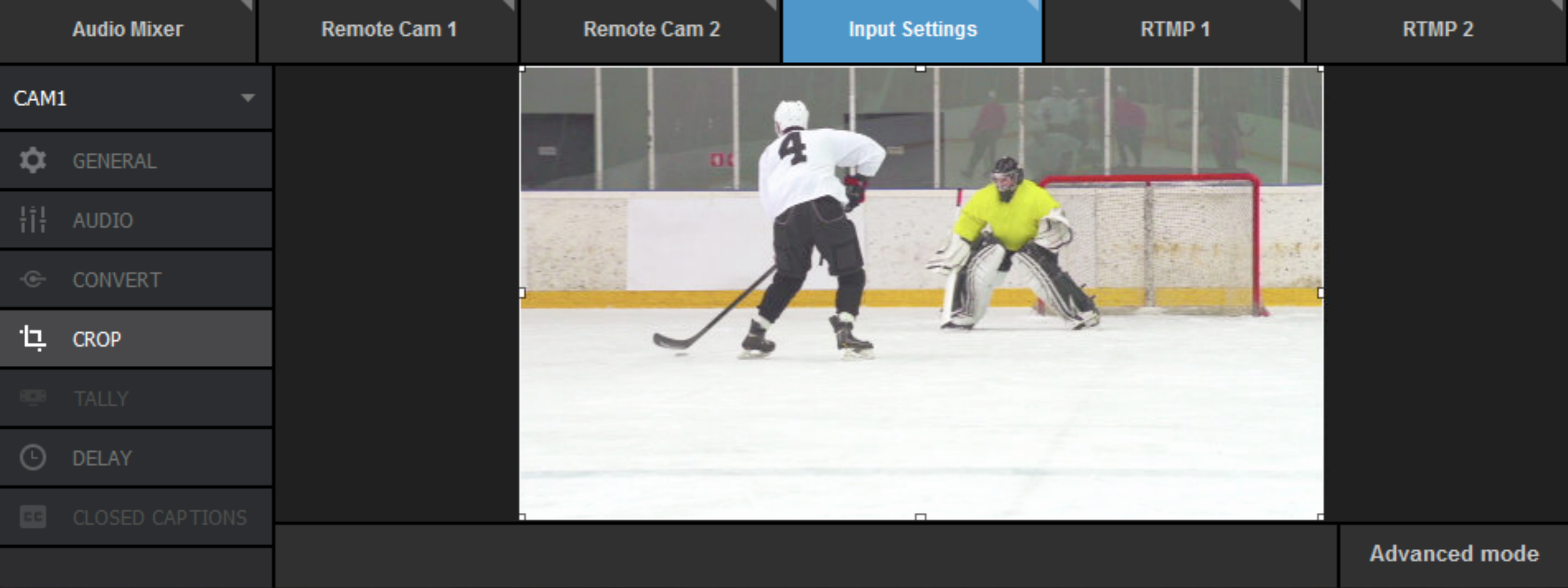⛶ CROP

📷 TALLY

🕐 DELAY

cc CLOSED CAPTIONS

Advanced mode

Click the '**Crop**' tab. Your
input source will appear in
the space to the right.

livestream
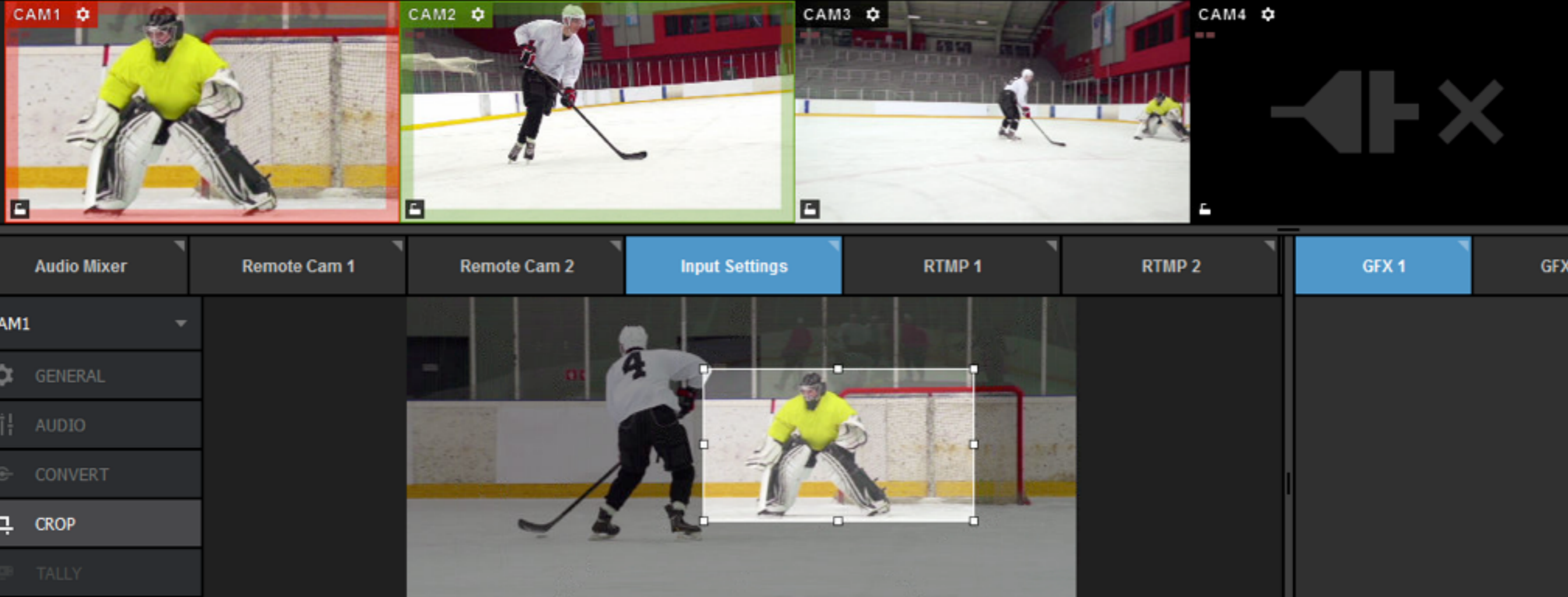
You can do a basic crop by clicking and dragging the corner of the image, then dragging and dropping the cropped frame.
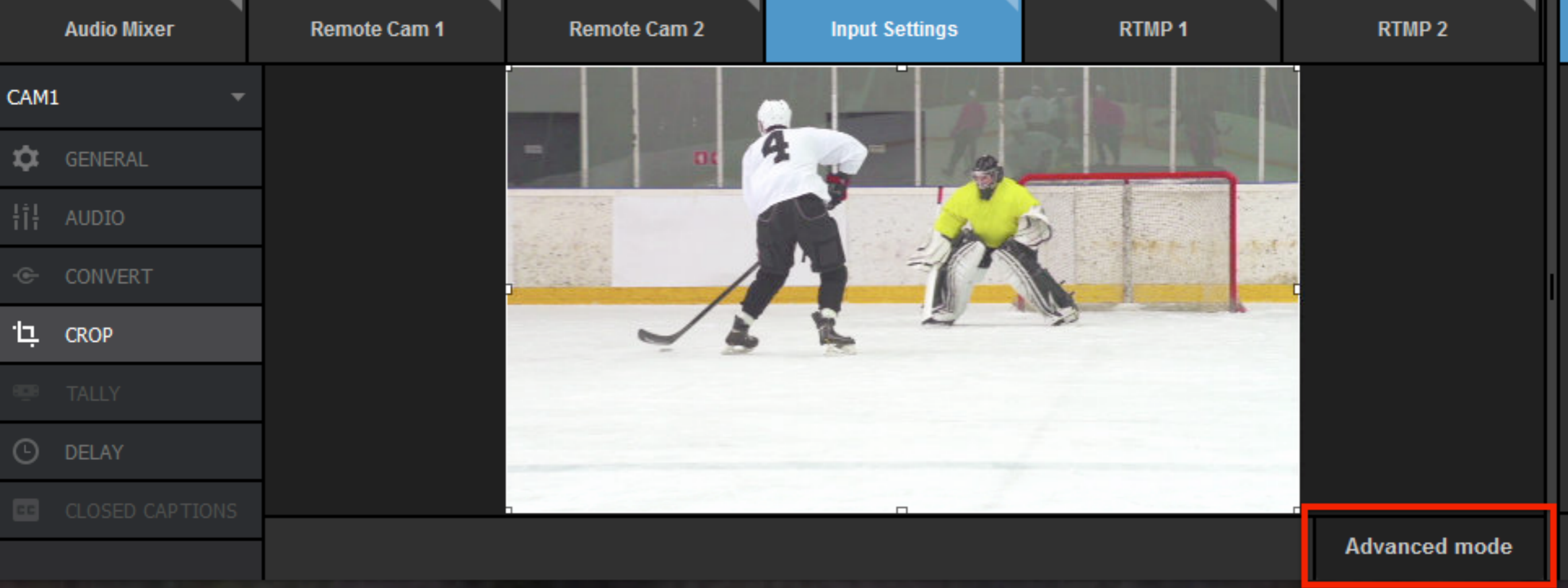
Click 'Advanced Mode' to
reveal more cropping options.

CAM1

- ⚙ GENERAL
- 🎚 AUDIO
- ⟳ CONVERT
- ⌗ CROP
- 🎥 TALLY
- 🕐 DELAY
- CC CLOSED CAPTIONS
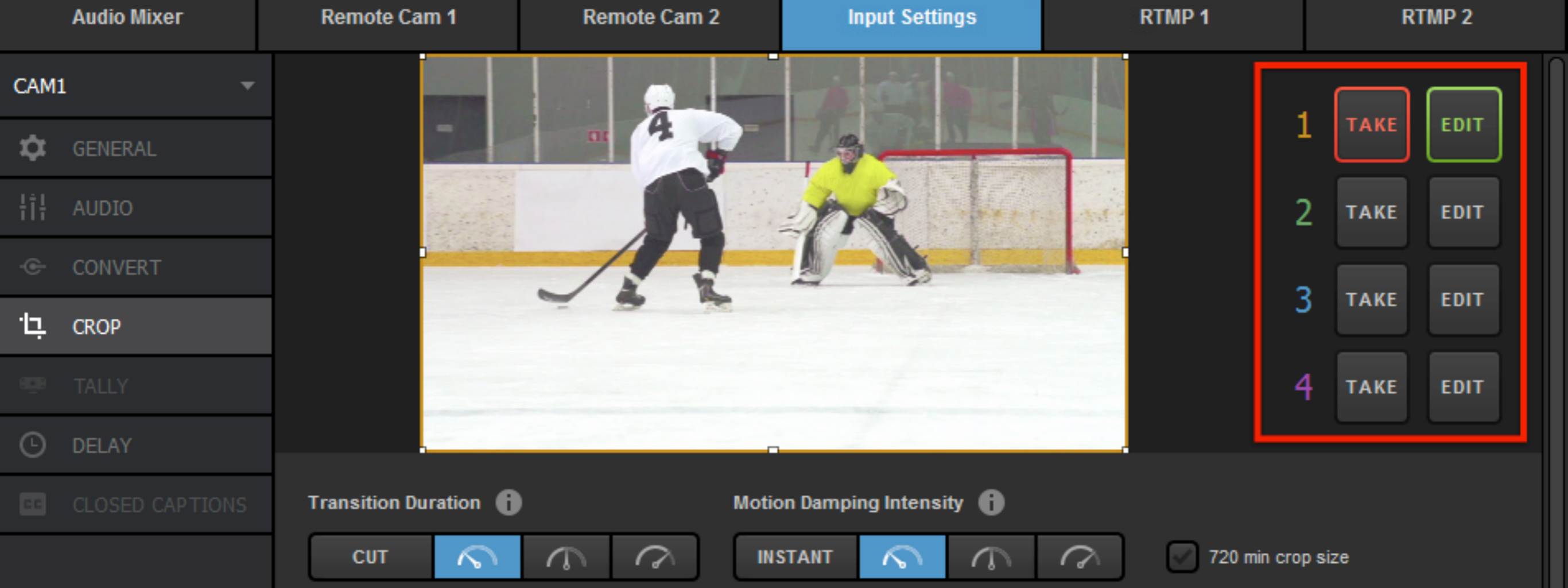
1 TAKE EDIT
2 TAKE EDIT
3 TAKE EDIT
4 TAKE EDIT

Transition Duration ⓘ

CUT

Motion Damping Intensity ⓘ

INSTANT

☑ 720 min crop size

To the right of your source are numbers 1-4 in different colors, each with a corresponding 'Take' and 'Edit' button.

livestream
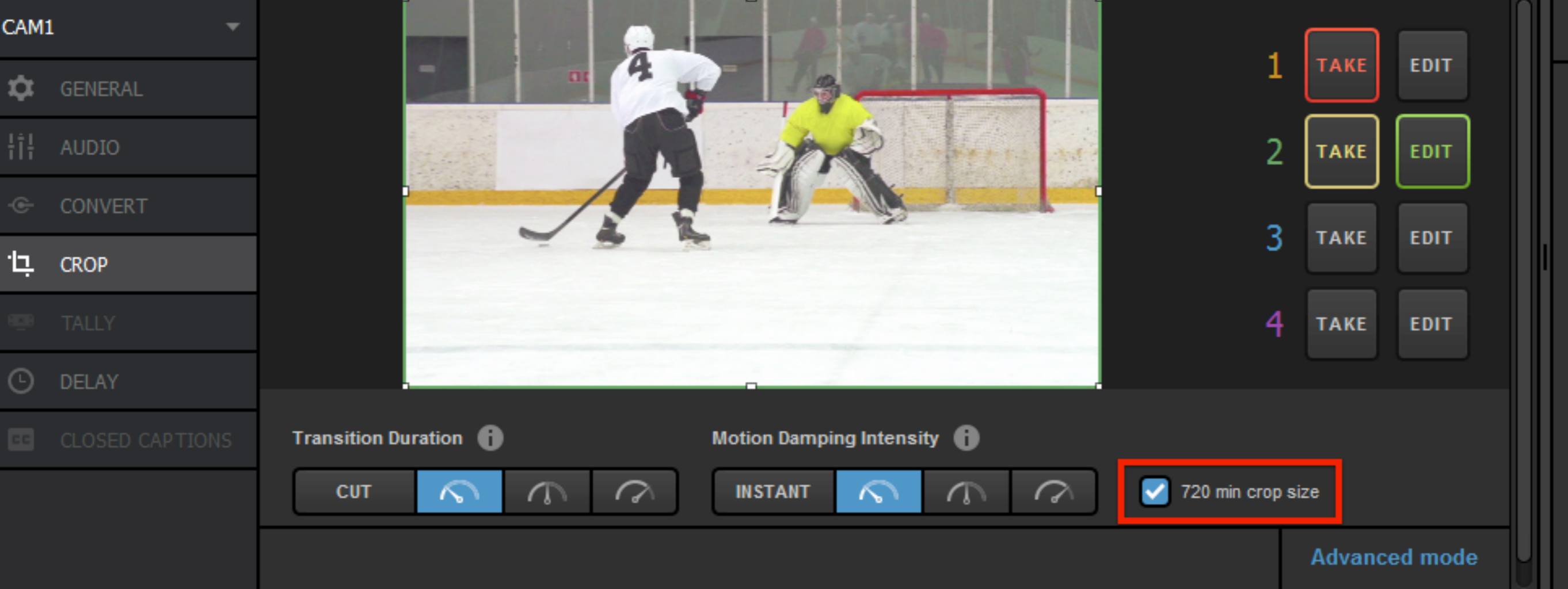
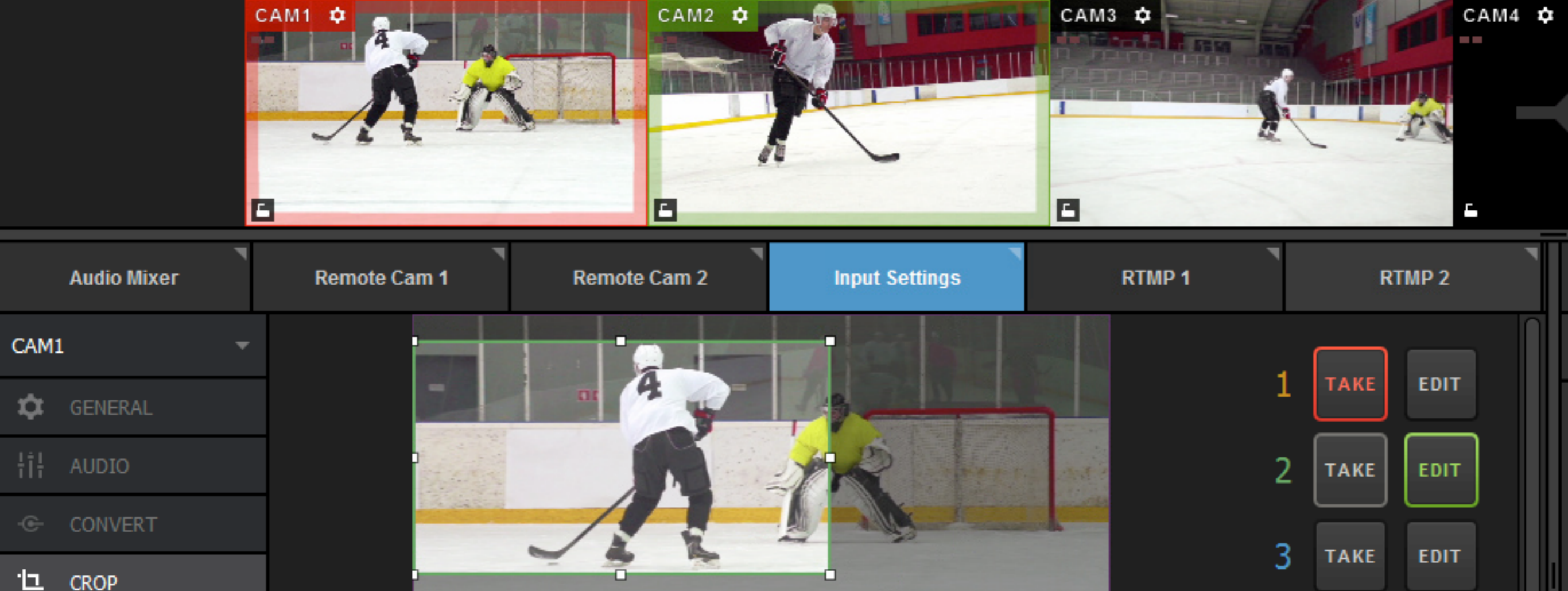Producers using 4K input sources should consider checking the '720 min crop size,' which will prevent any cropping from dropping below a 720p resolution and thus reduce quality loss.

Note: This option is only present when using 4K sources.

Clicking 'Edit' on any shot will allow you to adjust that particular shot without affecting the output. Click and drag the corners to crop the shot; notice that the border of your shot matches the color of the corresponding number.

Note: If your mouse has a scroll wheel, you can also use that to crop your shot.
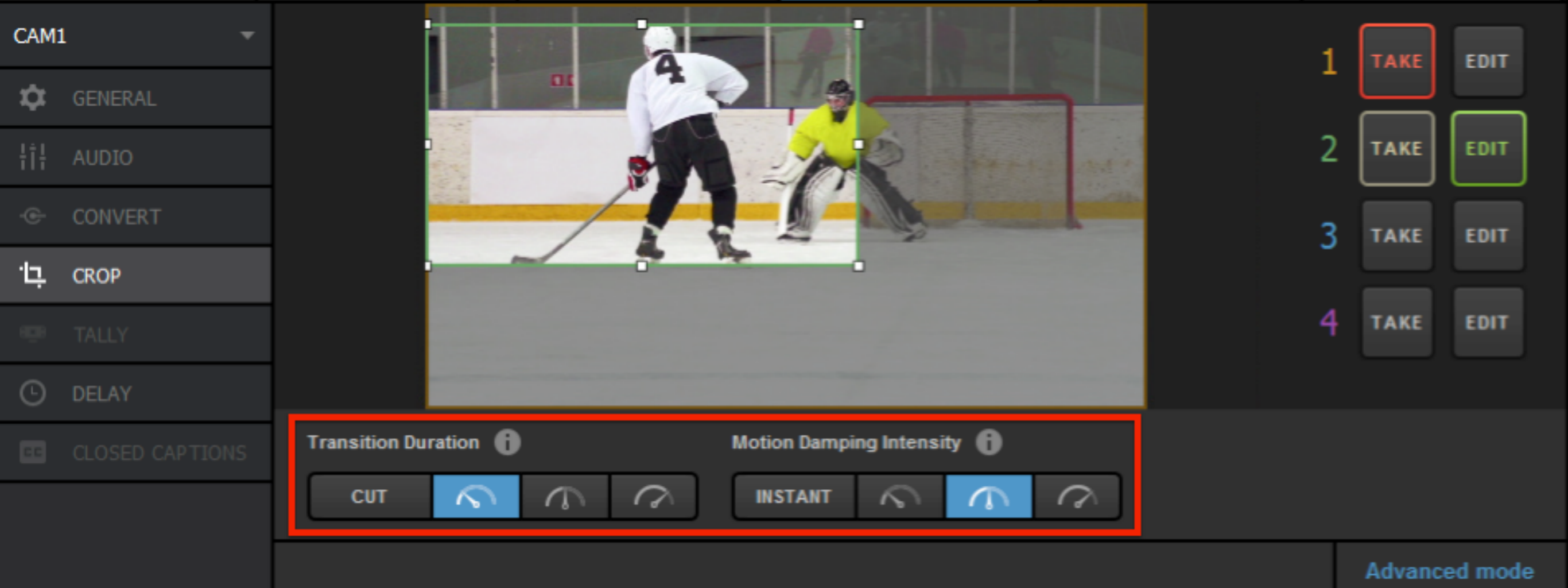
Before clicking the glowing 'Take' button, check the 'Transition Duration' and 'Motion Damping Intensity' settings below.

Under 'Transition Duration,' you can choose how you fast you want to move between shots. 'Cut' will be an immediate switch. The following timer buttons indicate a virtual camera movement in increasing order of time (fast, medium, slow).

'Motion Damping Intensity' will adjust the smoothness of each camera motion. Instant will be a fast, real-time, and more jagged movement. Each option afterwards is slightly slower and smoother. This option does not impact 'Cut' transitions.
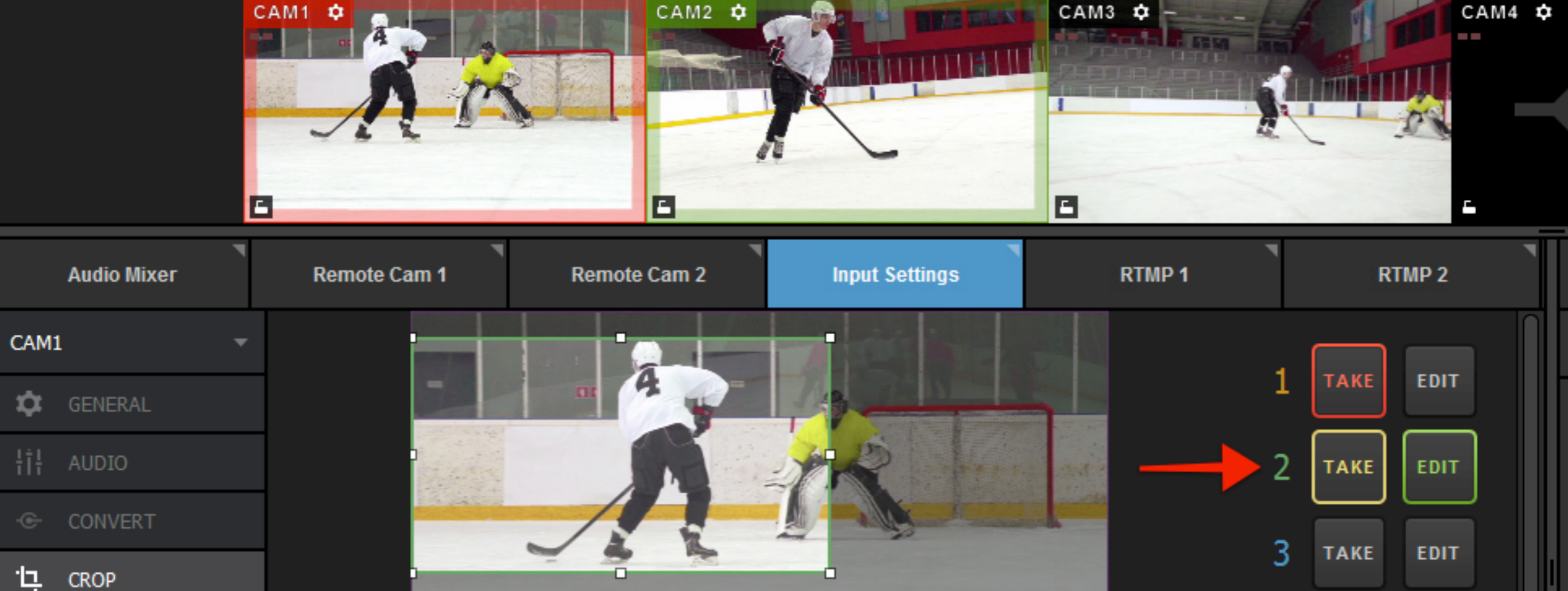
Once your Transition Duration and Motion Damping Intensity are set, click the glowing 'Take' button.
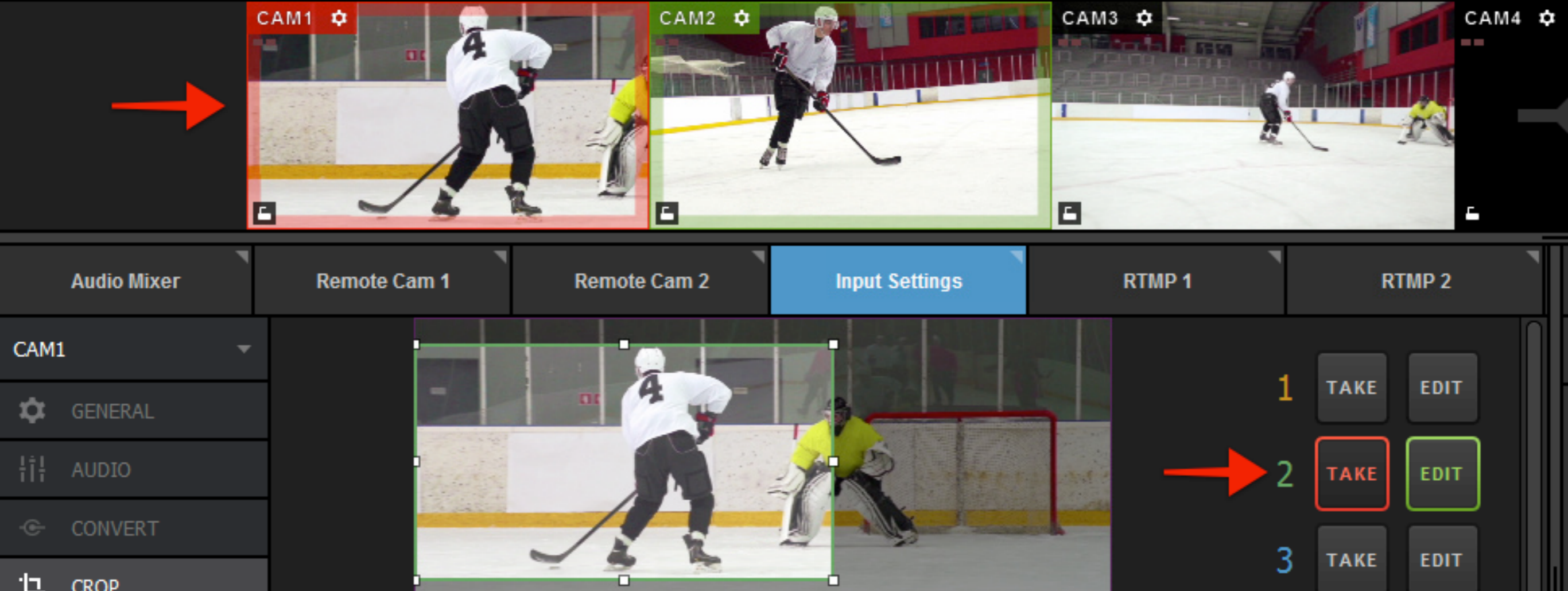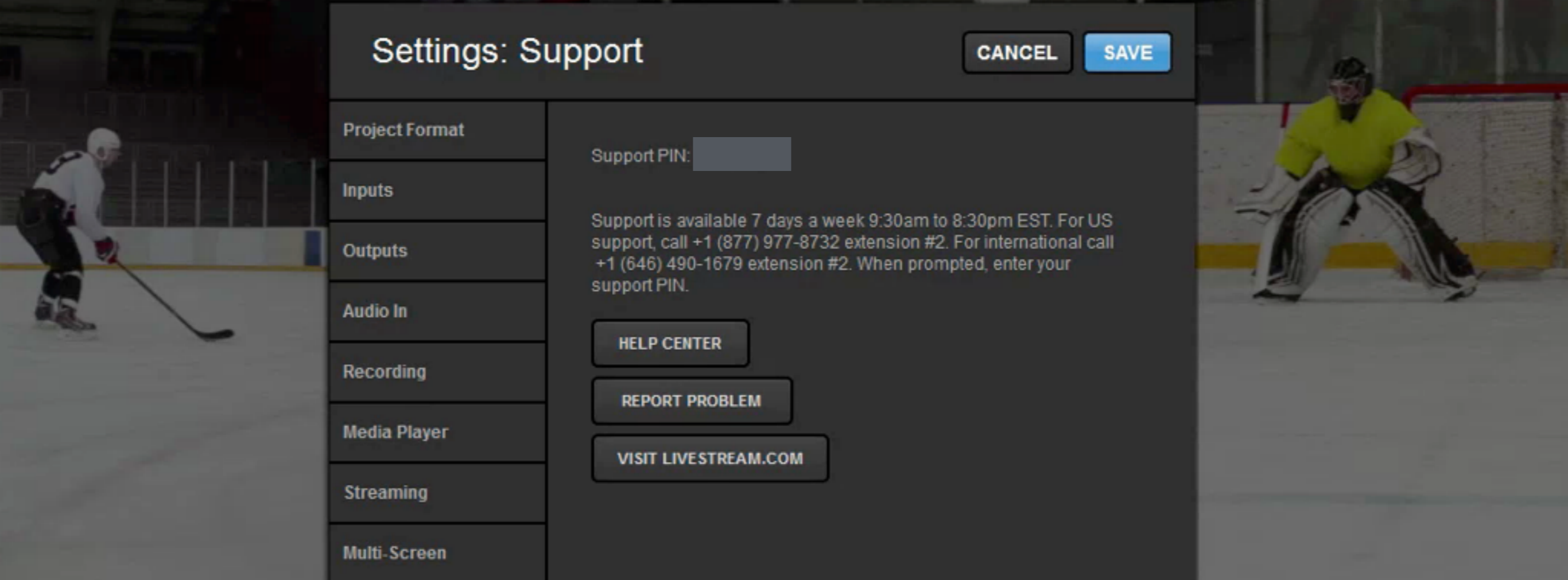
The 'Take' button will turn red and you will notice that your input will transition to the cropped area in your multi view.
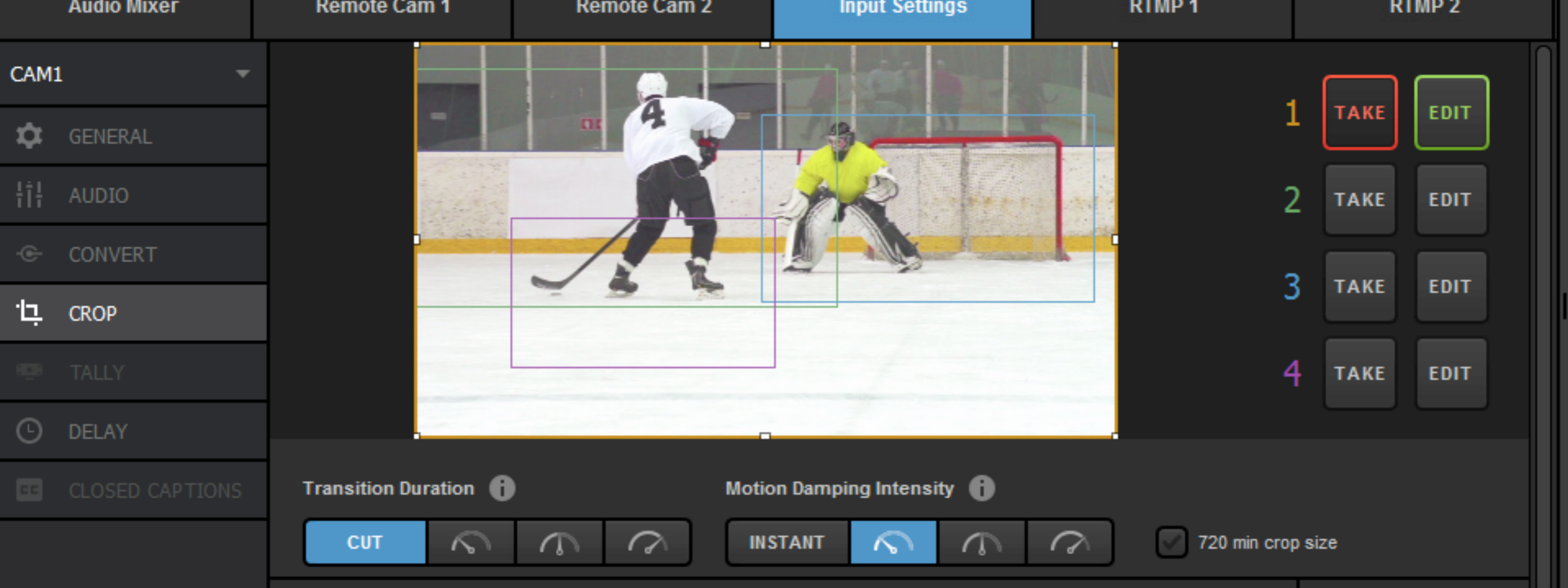
You can build up to four
different cropped areas per
input using the corresponding
'Edit' buttons.

Support information

livestream

If you have any questions or issues regarding Livestream Studio, navigate to the '**Support**' tab for a link to our help center at help.livestream.com and ways to contact our support team.