

# Connecting the Smartsuit Pro™ to Isadora

## Install the Plugins

If you haven't installed the Rokoko Studio Live Watcher and its associated plugins, please follow these instructions.

1. Unzip the rokoko-studio-live-watcher.zip archive.
2. Inside the unzipped folder, you will see:

SmartSuit Pro Watcher.izzyplug  
Skeleton Decoder.izzyplug  
Skeleton Visualizer.izzyplug  
Skeleton from JSON.izzyplug  
rokoko-studio-live-demo.izz

(Note: on Windows, these are folders; on macOS each of these are a "package" that looks like a normal file.)

3. Open Isadora
4. From Isadora's menu, choose **Help > Open Plugin Folder > TroikaTronix Actor Plugins**. Isadora's Actor Plugins folder will open in the Finder (macOS) or Explorer (Windows).
5. If you see a plugin inside this folder called "Smartsuit Pro Watcher.izzyplug", you must delete it before continuing. ("Smartsuit Pro Watcher" was the name of the plugin in a previous version.)
6. Drag all four .izzyplug files/folders to the Actor Plugins folder that opened in Step 3.
7. Quit and Restart Isadora

## **STUDIO LIVE - CURRENT VERSION INSTRUCTIONS**

These instructions are for the current version of Rokoko Studio (i.e., version 2 or later). If you are using the older, legacy version (version 1) then skip to the section below labeled "STUDIO LIVE - LEGACY VERSION INSTRUCTIONS".

## Connect Rokoko Studio Live and Isadora

For Rokoko Studio Live to send data to another application or plugin, you must be subscribed to the "Plus" subscription plan or greater. Please ensure you are at this subscription level or greater before continuing!

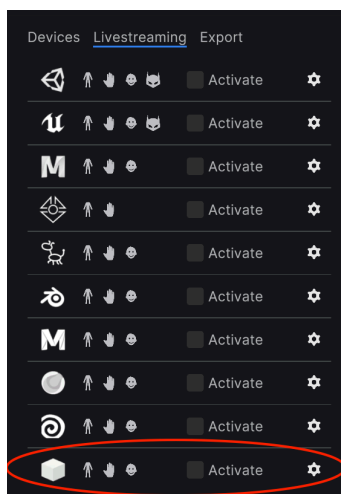
To send motion capture data from Rokoko Studio Live to Isadora requires only a few simple steps. The procedure below assumes that both Isadora and Rokoko Studio Live are running on the same computer.

First, in Isadora:

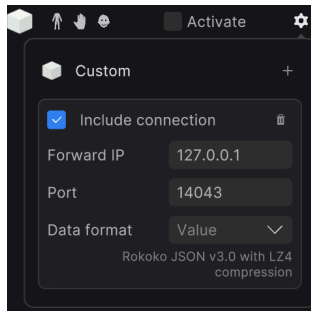
1. Open Isadora
2. Add a Rokoko Studio Live Watcher to the empty scene. We will use this actor to verify that we are receiving data from Rokoko Studio Live.
3. Note that the 'recv ip port' input property is set to 14043 by default. This is the default IP port for data forwarding from Rokoko Studio Live. Unless you are attempting to connect more than one Smartsuit Pro to Isadora, you should not change this setting.

Now, in Rokoko Studio Live

1. Open Rokoko Studio Live
2. If you wish to work with a live source, then follow the normal procedures to connect your Smartsuit Pro to Studio Live.
3. If you want to work with pre-recorded data, double-click on one of the Scenes to open it. Then, under **Clips**, double-click the clip you want to play. You should see the timeline appear below the area where you see the avatar. Finally, press the space bar to start playing the clip.
4. On the right side of the Rokoko Studio window, you will see "Devices/ Livestreaming/Export". If necessary click **Livestreaming** to to see the live streaming options. You will work with the "Custom" option which has a Cube as its icon.



5. Click the gear on the right open the settings panel to set up the live-streaming options.



6. First make sure to set the data format to **JsonLz4** using the popup menu to the right of the label Data Format.
7. Then you will need the full IP address to which the Smartsuit Pro data will be sent using the "Forward IP" and "Port" inputs.

If Rokoko Studio Live and Isadora are running on the same computer, then you would set the "Forward IP" to 127.0.0.1 (also known as "localhost"). If they are running on different computers, then you would set the "Forward IP" to the IP address of the computer running Isadora.

In both cases, you should leave the "Port" input set to 14043, which is the default port for data forwarding. The value in the "Port" field needs to match the 'recv ip port' in the Rokoko Studio Live actor in Isadora; if it doesn't, Isadora will not receive data from Studio Live.

The only time you should change this port number in Studio Live and in the Rokoko Studio Live Watcher is if you are attempting to send data from *two* Smartsuit Pros into Isadora. In this case, you would need to use 14044, 140045, etc., for the additional streams, both in Studio Live and in the Rokoko Studio Live Watcher actors in Isadora.

Finally, the port number discussed here should not be confused with the port number you set in **Isadora Preferences > Midi/Net > IP Port Number**. You do not need to change that setting to work with the Smartsuit Pro.

Click outside the settings panel to close it.

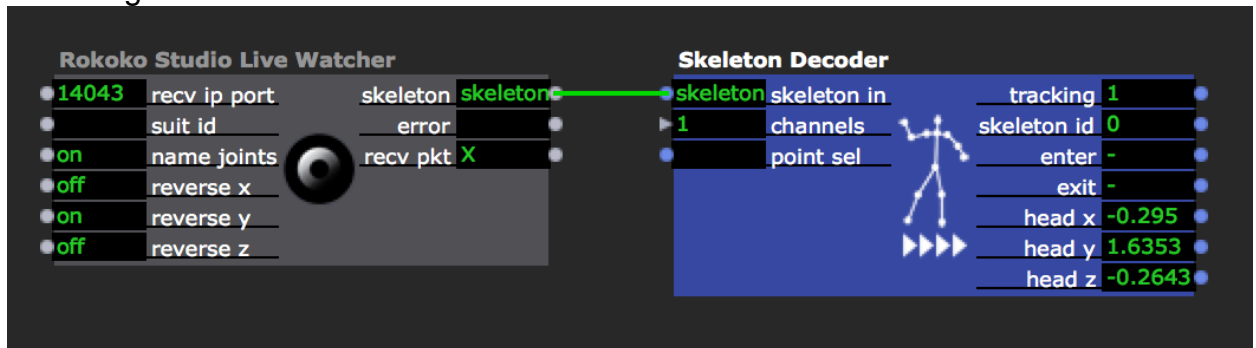
8. Finally, you need to click the Activate checkbox to start sending data.



Once you do this, the frame around the avatar view will turn green to indicate you are sending live-streaming data.

Back in Isadora:

1. Switch back to Isadora now.
2. Add a Skeleton Decoder actor to the scene.
3. Connect the 'skeleton' output of the Rokoko Studio Live Watcher to the 'skeleton' input of the Skeleton Decoder actor.
4. If Isadora is receiving packets from Studio Live the 'recv pkt' output of the Rokoko Studio Live Watcher will be an "X"; If it's not receiving packets, it will be a minus sign.



In addition, the 'head x', 'head y', and 'head z' outputs of the Skeleton Decoder will be changing as the actor in the Smartsuit Pro, or the avatar in the recording that is currently playing, is moving.

## Try The Demo File

If you close the current file in Isadora and open "rokoko-studio-live-demo.izz", you can see the Rokoko Studio Live Watcher in action. When you open the file, Isadora's stage will fill the full screen of your computer, and you can follow the instructions there.

We've added several yellow Comment actors to this patch to explain how it works. To see those, you'll want to exit full screen mode pressing Command-Shift-F (MacOS) or Control-Shift-F (Windows).

You can return to full-screen mode by pressing Command/Control-Shift-F again.

## STUDIO LIVE - LEGACY VERSION INSTRUCTIONS

### Connect Rokoko Studio Live and Isadora

For Rokoko Studio Live to send data to another application or plugin, you must be subscribed to the "Plus" subscription plan or greater. Please ensure you are at this subscription level or greater before continuing!

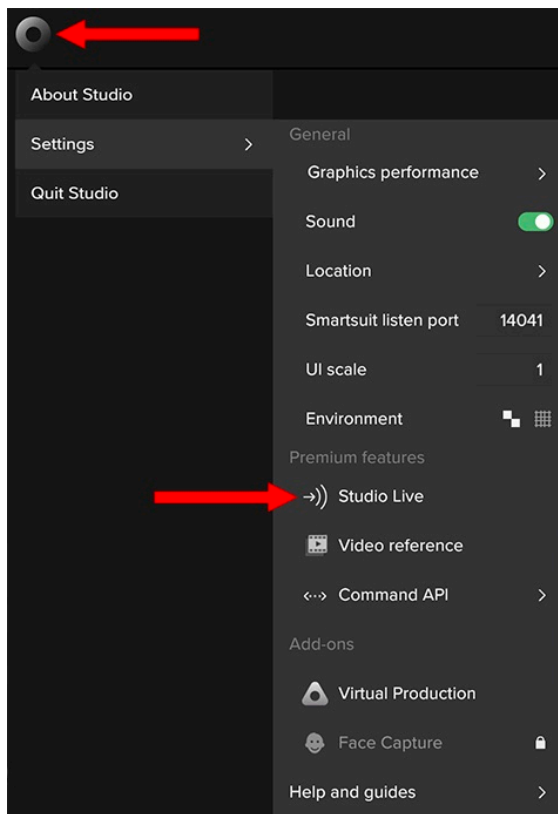
To send motion capture data from Rokoko Studio Live to Isadora requires only a few simple steps. The procedure below assumes that both Isadora and Rokoko Studio Live are running on the same computer.

First, in Isadora:

1. Open Isadora
2. Add a Rokoko Studio Live Watcher to the empty scene. We will use this actor to verify that we are receiving data from Rokoko Studio Live.

Now, in Rokoko Studio Live

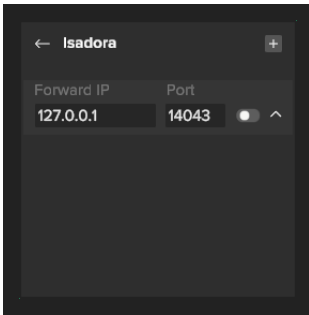
1. Open Rokoko Studio Live
2. If you wish to work with a live source, then follow the normal procedures to connect your Smartsuit Pro to Studio Live.
3. If you want to work with pre-recorded data, click on a project in the dashboard and then play the recording you want to work with.
4. In either case, you should see the animated figure moving in the central area of the Rokoko Studio Live Interface.
5. Click the Studio icon at the top left of the Studio Live window to open the settings menu as shown below, and then choose the "Studio Live" item.



6. You will be taken to the “Studio Live” view. Scroll down a bit and you’ll find the Isadora “tile.”

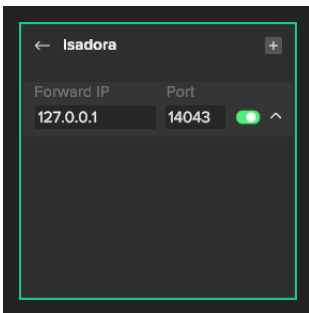


7. Click the little switch at the bottom of this view to start communications with Isadora.
8. When you click the switch, the tile will flip to reveal its settings.



A “Forward IP” address of 127.0.0.1 (also known as “localhost”) indicates that Rokoko Studio Live will forward data to the same computer on which it is running. “Port” number 14043 is the default used for data forwarding. As long as Isadora is running on the same computer as Rokoko Studio Live, and you have not changed the ‘port’ input of the Rokoko Studio Live Watcher actor in Isadora, you should not need to change these settings.

9. Finally, you need to turn on the switch next to the “Forward IP” and “Port” settings to start transmitting. After you do this, the Isadora “tile” gets a green border to show that Studio Live is sending data.



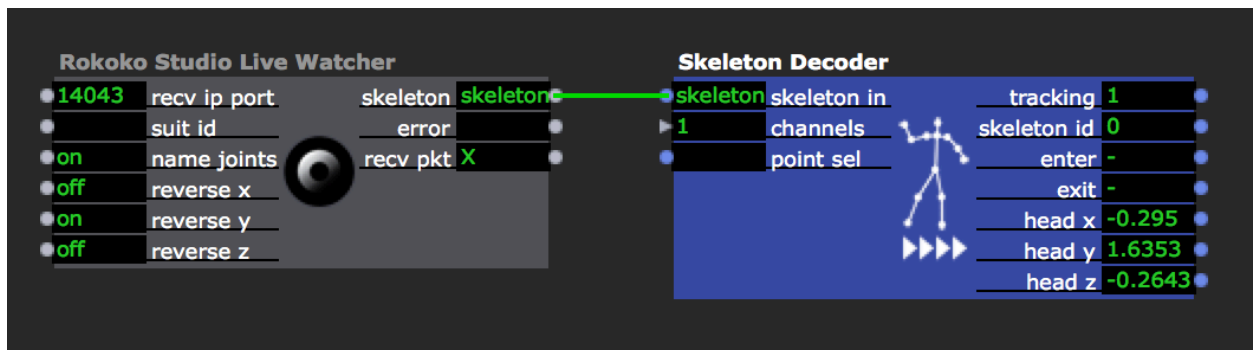
10. You can now click the small arrow at the top left to return to the Isadora tile. Again, the green border indicates Studio Live is sending data.



Back in Isadora:

1. Switch back to Isadora now.

2. Add a Rokoko Studio Live Watcher to the empty scene. We will use this actor to verify that we are receiving data from Rokoko Studio Live.
3. Add a Skeleton Decoder actor to the scene.
4. Connect the 'skeleton' output of the Rokoko Studio Live Watcher to the 'skeleton' input of the Skeleton Decoder actor.
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