## Twitch Broadcast: Artist Guide

### Part 1

<table>
<thead>
<tr>
<th>pg</th>
<th>General Tech Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Audio/Video Set-up</td>
</tr>
<tr>
<td>3</td>
<td>OBS (Laptop setup)</td>
</tr>
<tr>
<td>5</td>
<td>OBS Interface &amp; Stream</td>
</tr>
<tr>
<td>6</td>
<td>Video Optimization</td>
</tr>
<tr>
<td>7</td>
<td>Streamlabs (iPhone setup)</td>
</tr>
<tr>
<td></td>
<td>CameraFi Live (Android)</td>
</tr>
</tbody>
</table>

### Part 2

<table>
<thead>
<tr>
<th>pg</th>
<th>Setting up your own Twitch Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Real-time Remote Collaboration</td>
</tr>
<tr>
<td></td>
<td>— Discord</td>
</tr>
<tr>
<td></td>
<td>— Audiomovers</td>
</tr>
<tr>
<td></td>
<td>— Zoom</td>
</tr>
</tbody>
</table>

Compiled by [Lumpen Radio](twitch.tv/lumpenradio) & [Experimental Sound Studio](twitch.tv/experimental_sound_studio)

Updated: 4.18.20
General Tech Notes

- The quality and stability of the stream greatly depends on your internet connection. Make sure the physical location you are broadcasting from has a healthy wifi signal.

- Be cautious if you are using a live mic, you may get feedback if you monitor your broadcast while streaming.

- If you are using the built-in microphone on your phone or computer be considerate of the acoustics and external noise of your performance space.

- A quiet space with appropriate acoustics will greatly improve the quality of your sound despite the quality of your microphone.

- During the show, it’s helpful to communicate with the curator and other artists on a device that is different from the one you are streaming with.

- If using your phone to stream, remember to disable alerts and vibrations. These sounds will end up in your stream.

- TIP: you can use the microphone attached to your smartphone headphones as an audio source instead of the phone’s built in mic. This will allow you to place a mic closer to an acoustic instrument while keeping the phone further away for a good shot.
Audio/Video Set-up
Using Computer

1. Download OBS
   https://obsproject.com/
2. Install and open OBS

If your computer won’t allow the installation, go to System Preferences > Security & Privacy > ‘Allow apps downloaded from’ and uncheck accordingly.
Audio/Video Set-up

Connecting OBS to Twitch

3 Open the OBS menu and select Preferences or press Settings
4 Select ‘Stream’
5 In ‘Service’ menu select ‘Twitch’
6 Enter Stream Key
   (We will send you a unique stream key before the show. If streaming from your own twitch page, go to (Twitch.tv > Settings > Channel & Videos > Copy stream key) to get your channel’s stream key.
7 Click OK

Now your OBS is set-up to stream directly to twitch!
Audio/Video Set-up

OBS Interface

8 Scenes are like projects. Press the +/− to add or delete scenes (i.e. “Live Show”)

9 Sources are ways to add images, cameras, videos, audio sources etc... to your stream. Press + to see the list of possible input sources.

Select Video Capture Device (as this is your webcam), a new window will pop-up to name your source (i.e. “webcam”). Press OK.

A new window will pop up, select your camera from the Device menu and press OK—You should now see your live video feed in the main window.

You may need to resize the video to fill the screen, or you can add more images/layers/text etc.. to deck your screen out.

Tip: Holding option and dragging one of the red corners of your video image allows you to crop in.

By default, your Audio Mixer will section will have your built-in mic added. You can add additional audio inputs by + Sources > Audio Input Capture.

OR you can press widget next to the Audio Mixer channel > Properties > Interface. You should now see your audio level on the corresponding meter. Make sure it’s as loud as possible without clipping.

13 Press ‘Start Streaming’ to start streaming! Press ‘Stop Streaming’ to stop streaming.

15 Press ‘Start Recording’ to record your performance locally to your hard drive.

Note that what appears on the screen will appear on your stream. This is how you monitor your performance. You can also make changes in realtime.

To Mute/unmute, click the same button. All of these buttons also require clicking the same button for on/off.
Audio/Video Set-up

Optimizing your video (for adv. users)

If you decide to import a lot of sources (i.e. multiple videos/images) please be aware that this may take up streaming bandwidth, slowing down your stream.

**Click Settings**

As a starting point, here are some baseline settings to follow. Adjustments from here will require your own testing.
Audio/Video Set-up
Streamlabs for iPhone

1. Download/Install Streamlabs app
   (Live Now app is a good alternative if Streamlabs is not working)
2. Open App
3. Click “Other Platforms” at the bottom of the first screen
4. Enter RTMP URL
   a. rtmp://live-ord02.twitch.tv/app/
5. Enter Stream Key
   We will send you a unique stream key before the show.
6. Press CONTINUE
7. Follow on-screen directions to enable your camera & mic permissions
8. Use the on-screen controls to select the front or rear camera and frame your shot
9. Press the red button to start streaming!

Audio/Video Set-up
CameraFi Live for Android

1. Download/Install CameraFi Live app
2. Open App
3. Select ‘Custom RTMP’
4. Enter the RTMP URL
   a. rtmp://live-ord02.twitch.tv/app/
5. Enter Stream Key
   We will send you a unique stream key before the show.
6. Select START
7. Allow all permissions
8. Now use the on-screen controls to select your camera and frame your shot
9. Push GO to start your stream
10. Push STOP to end your stream
Setting up Your Twitch Channel

If you decide to set-up your own twitch channel to do your own broadcasts or tests. Go to twitch.tv and Sign-up to create your own username and login.

The homepage will look like this.

Twitch is not the most sophisticated website ever—so bear with the idiosyncrasies of its user interface and you'll quickly learn how to navigate the page.

Click on your icon to access Settings. In Settings click Channel and Videos.

This is where you'll locate your personal Stream Key to plug into OBS for your own broadcasts.

If you want your live streams to automatically save to the Videos portion of your channel, Click ON Store Past Broadcasts.

Once you paste your Stream Key into your OBS Settings > Stream you should be all set up and ready to stream.

Use the search tab to find friends—I've noticed that this search tab is not that great, so it's better to know the exact twitch url.

Click on Channel to go to your channel and watch your stream.
Real-time Remote Collaboration

Using Discord (Free)

Real-time remote collaboration is latency-prone, and always subject to your internet speed. We’ve been experimenting with a few methods—there are many out there—and this is documentation of what we’ve found to work best thus far.

**Sign-up & download Discord**

https://discordapp.com/

Discord is basically a private chat-forum that has a audio channel section. Once you create a discord channel, invite your collaborators.

1. Channels are represented by # and are just different sections of conversation.
2. Click Settings to choose your audio interface and set your audio settings. Following the settings shown on the right.
3. To join the audio channel click the Audio Channel name—your username should show up underneath.

**Important:** IF your username in does not have a green circle outlining your icon, you should adjust your input sensitivity until this stays permanently green. If it’s grey, your signal won’t come through.

**Important:** Make sure all of your collaborators are at the same audio sample rate—44.1 is probably best for streaming.

**Important:** Discord prefers USB interfaces, I’ve had varying success with Firewire. You should now be able to hear everyone in the channel.

**Tip:** To adjust individual levels, right click on the username in the audio channel.
Real-time Remote Collaboration Using Audiomovers ($10/month)

Audiomovers is another good option as it requires a less makeshift approach as it operates in your DAW as a plug-in.

Sign-up & download Audiomovers
https://audiomovers.com/

1. After installing the plug-in, you will put the **Transmission** plug-in on the track audio you want to send (i.e. your instrument) and Click **Start Transmission**.

2. Copy the Link and send it to your collaborators—they will do the same and send you their link.

3. The receiver acts as an **AUX track** as noted on their site. Make a new track and place **Receiver** on it.

4. Route the audio out of this track into a new track next to it (Instead of Master).

5. Make sure your new track’s **Audio From** is set to the **Receiver** track. You may have to toggle between pre/post FX to hear the incoming audio from your collaborator.

6. Paste your collaborators link into the **Session Link** part of the **Receiver** and click **Connect**.

You should be able to repeat this process for each collaborator.

Hopefully it works!
Streaming your Real-time Remote Collaboration
Using Discord > DAW > OBS > Twitch

Streaming your collaboration is a bit trickier. You can either use a combination of 2 interfaces, or a virtual mixer to route the audio out of discord, into OBS. For this diagram, I've also routed it through my DAW (Ableton) in order to record it.

Running the audio output to Soundflower, Blackhole, or Loopback makes it easier to input to OBS.