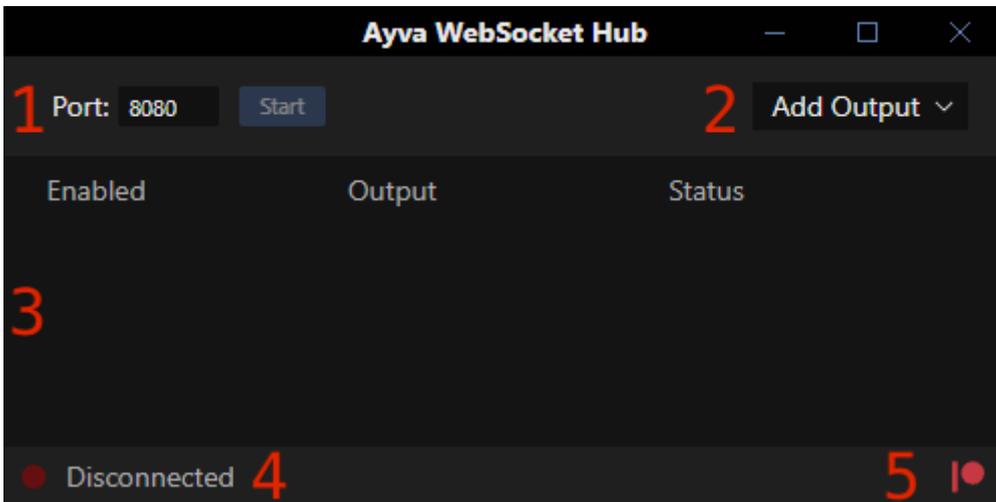


# Guide

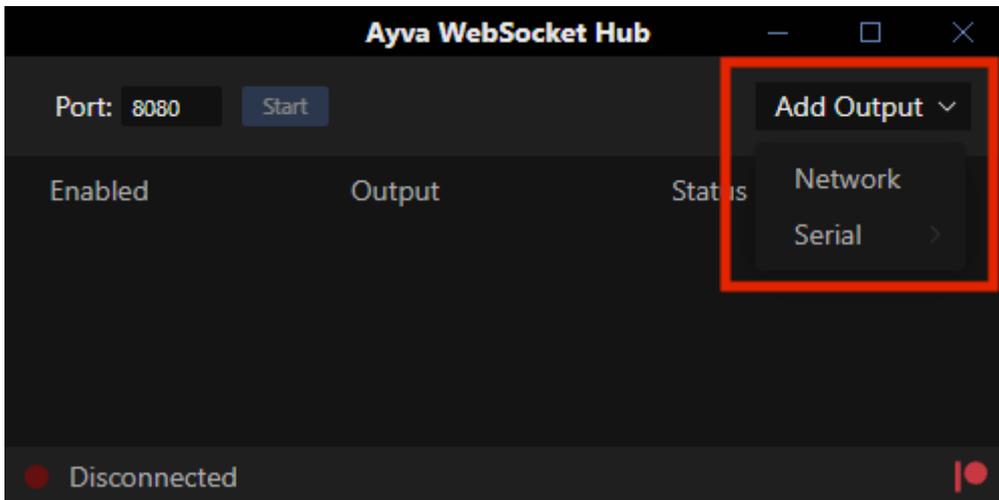
- [Interface Overview](#)
- [Output Types](#)
- [Appendix](#)

# Interface Overview



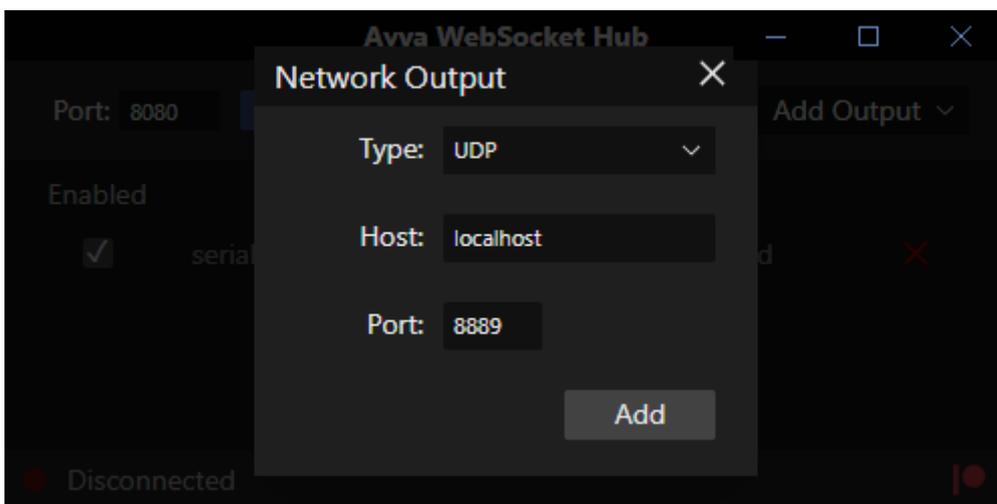
1. **Listening Port** - Specify the port for Ayva WebSocket Hub to monitor incoming connections. Any [TCode](#) received on this port will be routed to the connected outputs. Click the *Start* button to begin monitoring for incoming connections. Data forwarding will commence immediately upon establishing a connection.
2. **Add Output** - Use this dropdown menu to select and add output streams.
3. **Outputs** - This table lists all configured outputs—which are saved across sessions—along with their connection status. You can enable or disable streaming to any listed output by using the checkbox in the *Enabled* column.
4. **Incoming Connection State** - This indicates the status of the incoming connection, which can be *Disconnected*, *Listening* or *Connected*.
5. **Patreon Link** - Ayva Software is supported by the community. This is a link to the [Patreon](#).

# Output Types



There are two main types of outputs: **Network** and **Serial**.

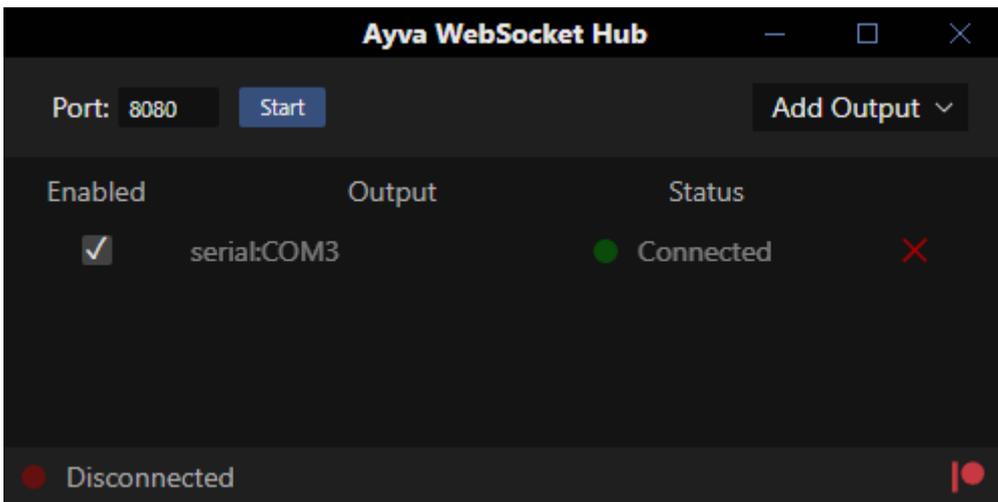
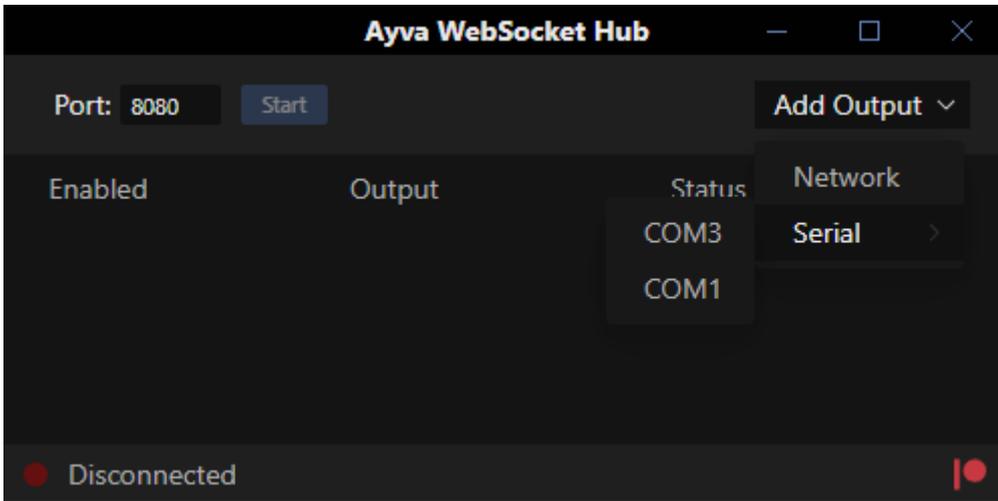
## Network



Network outputs enable connections to devices or software via [TCP](#) or [UDP](#) protocols. In TCP mode, Ayva WebSocket Hub attempts to establish a connection to a WebSocket at the `/ws` endpoint on the specified host and port. In UDP mode, packets are sent directly to the designated host and port. Note that because UDP is *connectionless*, a UDP output will always be displayed as *Connected*, even if no application or device is actively listening at the specified host and port.

TCP is typically used to connect to WiFi-enabled devices, while UDP is typically used to stream to a [Virt-a-mate](#) plugin such as [BusDriver](#) (though it can also be used for WiFi-enabled devices that support UDP).

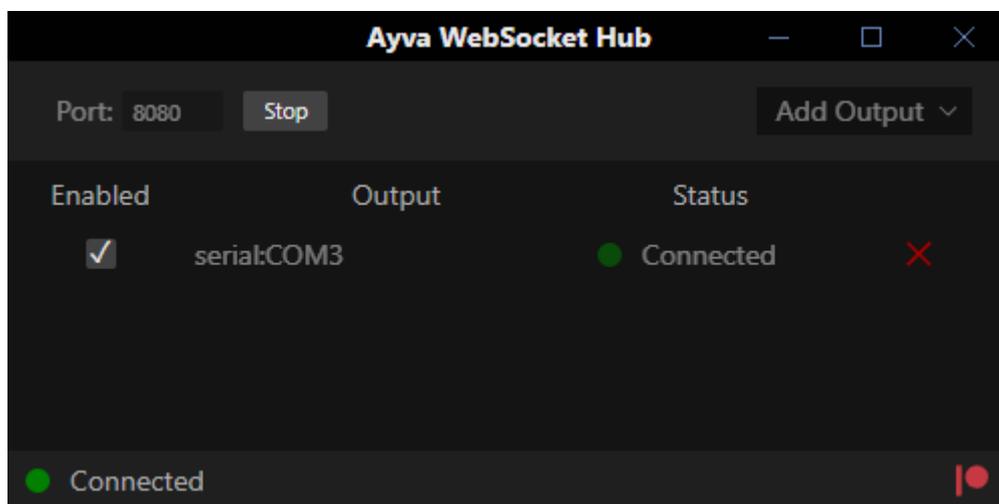
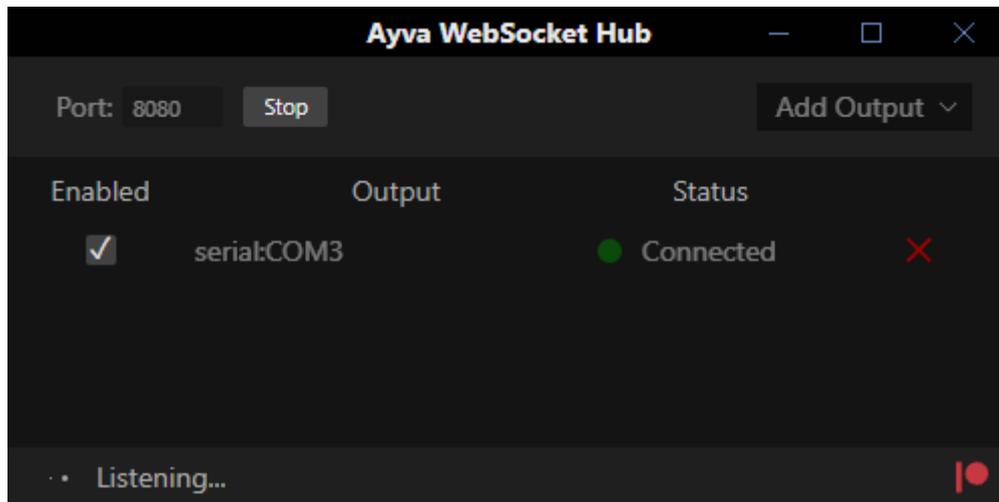
## Serial

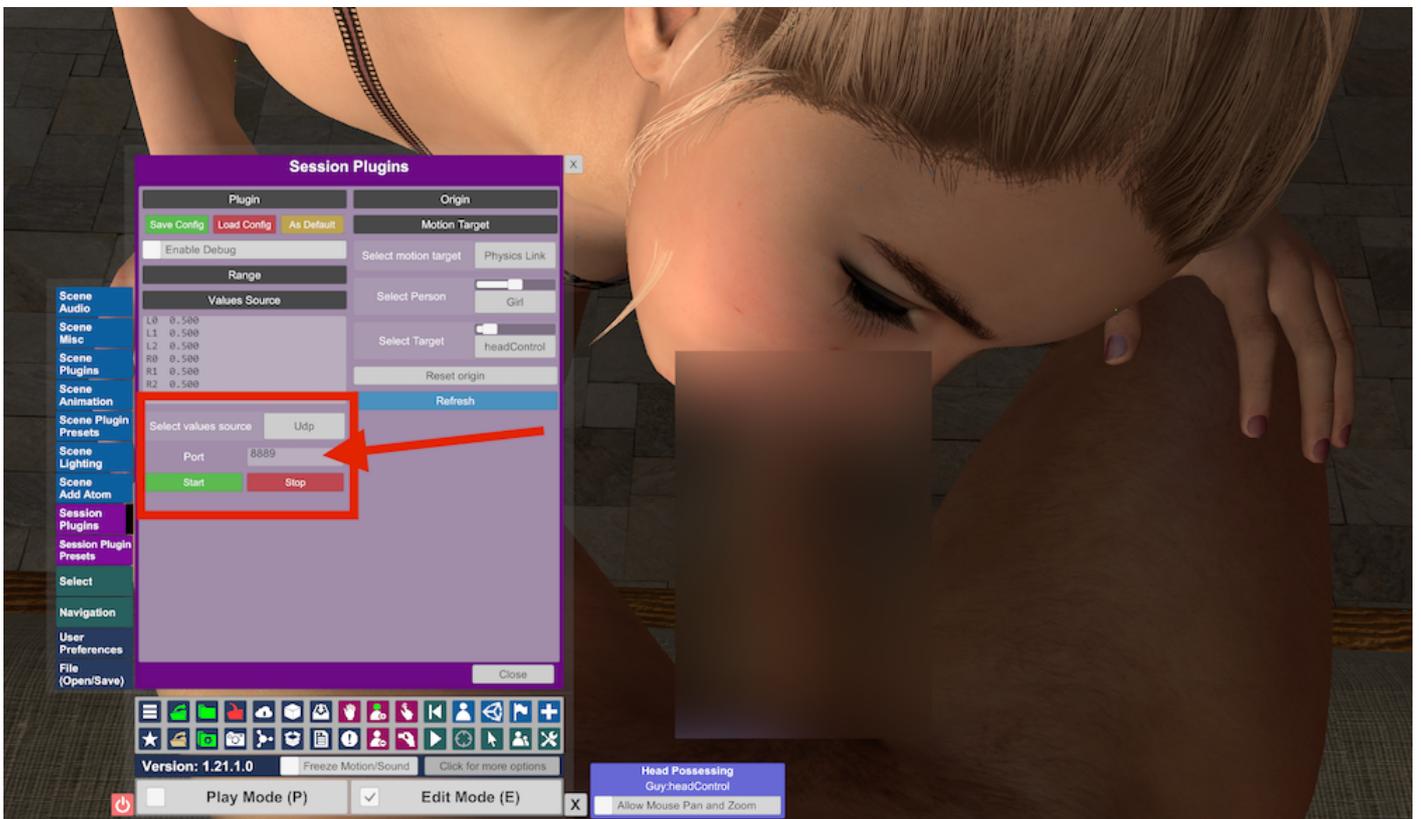
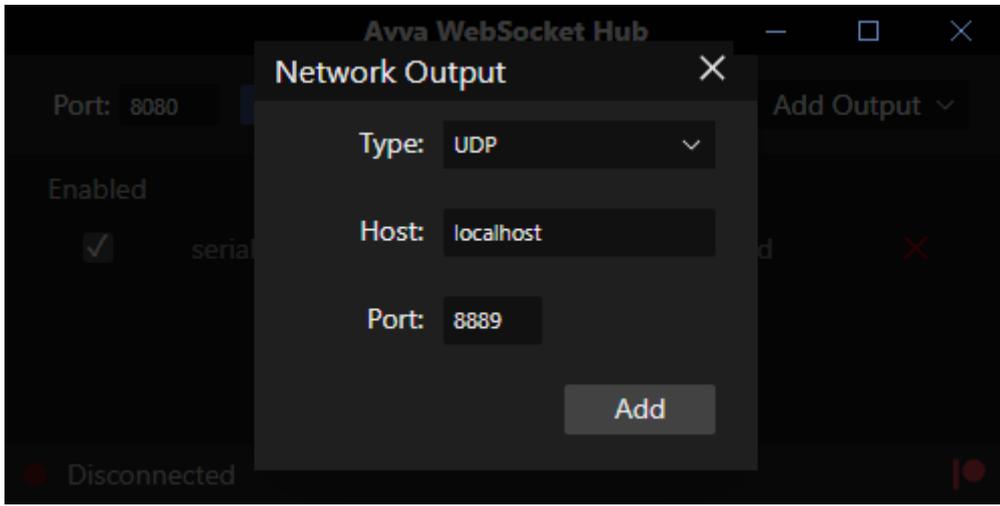


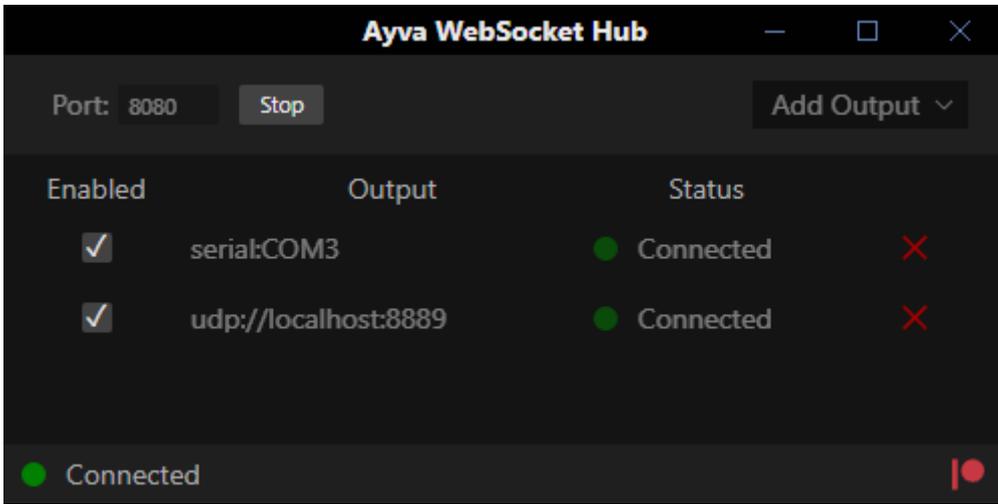
Serial outputs facilitate device connections via the Serial protocol, typically through USB. However, they can also operate over [virtual serial ports](#) that emulate physical connections for other protocols, including Bluetooth Classic.

# Appendix

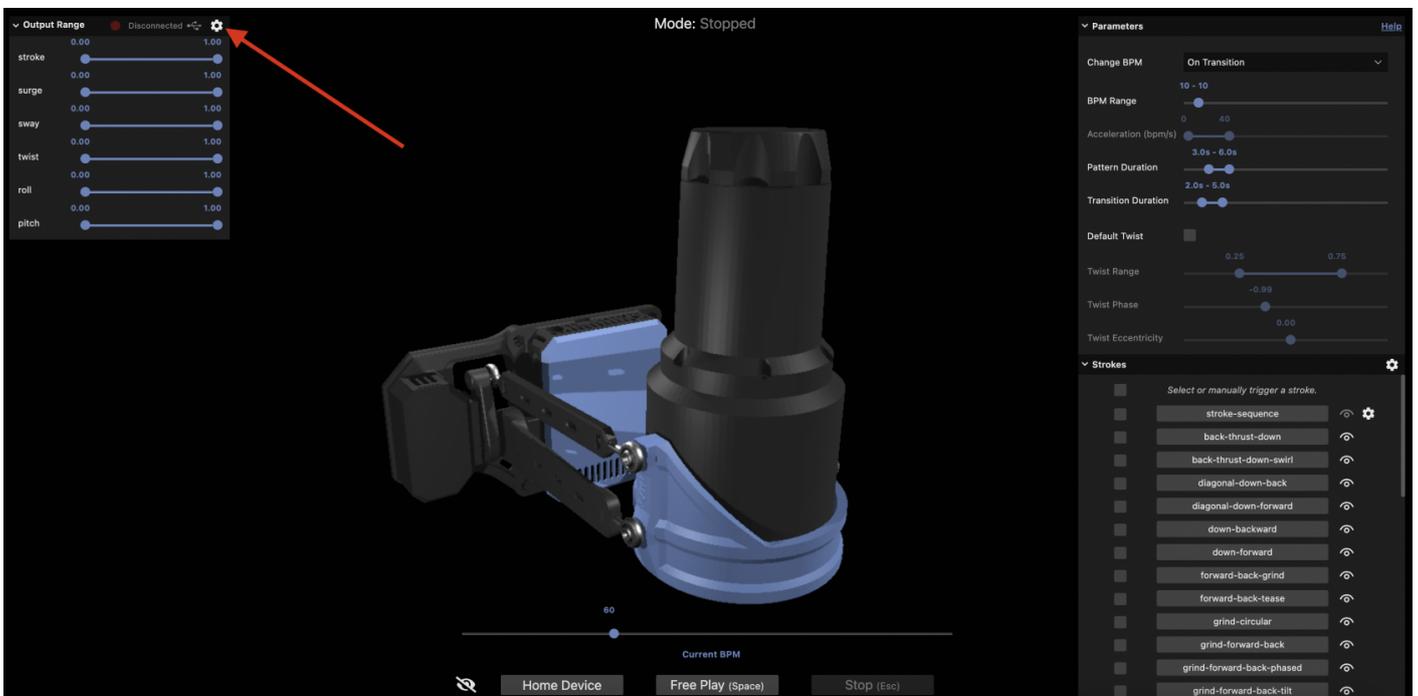
To be incorporated into the Guide







## Example: Streaming from Ayva Stroker Lite



Mode: Stopped

Output Range Disconnected

stroke 0.00 1.00

surge 0.00 1.00

away 0.00 1.00

twist 0.00 1.00

roll 0.00 1.00

pitch 0.00 1.00

Output Settings

Type: WebSocket

Host: localhost

Port: 8080

Note: There currently is no firmware available that supports a secure WebSocket. You must connect to another application running on localhost, such as Ayya WebSocket Hub (coming soon)

Parameters

Change BPM: On Transition

BPM Range: 10 - 10

Acceleration (bpm/s): 0 - 40

Pattern Duration: 3.0s - 8.0s

Transition Duration: 2.0s - 5.0s

Default Twist:

Twist Range: 0.0s - 0.0s

Twist Phase: 0.0s

Twist Eccentricity: 0.0s

Strokes

Select or manually trigger a stroke

- stroke-sequence
- back-thrust-down
- back-thrust-down-swirl
- diagonal-down-back
- diagonal-down-forward
- down-backward
- down-forward
- forward-back-grind
- forward-back-tease
- grind-circle
- grind-forward-back
- grind-forward-back-phased

Current BPM: 60

Home Device Free Play (Repeat) Stop (Repeat)