

## Remote Controlled Devices

If you have not done it yet I would recommend using a remote controlled device linked to Jennifer! We hope to make it easy for anyone to easily link a device in. This will take time. The easiest way at the moment is an [Audio controlled e-stim](#) but that costs a lot. We hope to have a simple solution that anyone can put together or buy off the shelf for under £20 soon.

If you are too scared to join Jennifer the device API is also available by getting an ID from <https://play-link.com/devices.html> In time you may also be able to test your devices at <https://play-link.com/jen/devices.php?id=XXXX>

### API

#### Reading Values

The remote devices are triggered by reading JSON data from the following address: [\[https://play-link.com/jen/remote.php?id=XXX\]](https://play-link.com/jen/remote.php?id=XXX) The format is in the following format:

```
{
  "servertime": 1466500571,
  "triggers": [
    {
      "start": 1466500601,
      "level": 100,
      "device": "estim",
      "duration": 2
    }
    ,
    {
      "start": 1466500606,
      "level": 100,
      "device": "lock",
      "duration": 2
    }
  ]
}
```

You can also get the data in text or an alternative json format by adding “&format=text” or “&format=json2” to the link above if thats is easier for you to read. In the example above there are 2 upcoming triggers one for the estim and 5 seconds later to release the lock.

A lot of devices currently being developed make use of relays so the level value is ignored.

#### Creating Triggers

This will only really be needed for testing...

You can add triggers as follows:

<https://play-link.com/jen/remote.php?id=XXX&device=estim&delay=60&duration=1&level=100> in this example it will trigger the estim for 1 second in 60 seconds time. If you don't specify delay, duration or level, default values will be used.

Devices currently in the system are: estim, shock, lock, vibe

Alternatively you can use the control program below to create test triggers.

## Control

Instead of having to workout how to use the API you can download a controller program.

The controller program is available at [<https://play-link.com/jen/controller.zip>] you can download this and after updating the ini file will allow you to run commands to trigger devices.

The controller package also contains the source-code in Lazarus and some examples in other languages such as C++ so worth a look if you need some pointers.

## Devices

- [Audio Controlled device](#) - How to link an audio controlled estim into Jennifer
- [External estim devices](#) - E-Stim devices linked to a controller
- [RaspberryPi](#) - Project page on how to link a raspberrypi to Jennifer with example pyphon script and hardware description and pictures.
- [Arduino devices](#) - arduino based devices ( Smichael27 ? )
- [WiFi Relay controller](#) - Project page on building / using a wifi relay device ( edinburghJay )

## Design & Experimentation

- [Dick As A Circuit](#) - Measuring how a certain body part behaves in an estim circuit.
- [How EStim Works](#) - Measuring how a TENS7000 unit works
- [How Audio Output Works](#) - What are typical properties of phone/laptop/amplifier audio out?
- [High Voltage Switches](#) - Which switches can we control the high-voltage estim from low-voltage computer / phone / arduino outputs?

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