Temporal ON-OFF Optogenetic Stimulation Script

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Description

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This script is for temporal optogenetic stimulation using Arduino based LED control.

Features

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- Provides time based ON-OFF LED stimulation while recording behavior.

- Set for alternate 5 minutes of no stimulation and 5 minutes LED stimulation.

- Time can be changed according to minutes to milliseconds calculation.

Usage

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1. Connect input pin on 8 or 13 and ground of Arduino board from the LED strips.

2. Connect Arduino to PC system and preload the code, crosscheck the LED blink by pressing reset button on Arduino.

3. Disconnect the Arduino cable which acts as power supply from the PC setup, until you start the experiment.

4. Once ready to start recording, reconnect the Arduino cable and press record video simultaneously.