

E-prime Triggering Oximeter or LED

When you wish to trigger the oximeter from E-prime in an experiment you must do 4 things. They are simple yet *critical*.

1. Activate the Parallel Port
2. Turn the Trigger (Pins) Off
3. Trigger Oximeter when stimulus is presented
4. Turn Pins Off

1. Activate the Parallel Port

- Once in E-Studio find the Structure Window
- Click on the Blue 'E' It says experiment object
- Go to Devices
- Click Add
- Click on Port
- Click OK
- Now Double Click on the Port Icon to View Its Properties
It should read
 - Collection Mode: Presses Only
 - Address: 888
 - Size: 8
 - Invert: No
 - Mask: -1
 - Emulate Device: None

2. Turn the Trigger Pins Off

- This is in general good practice just in case the pins were left on.
- Place an 'InLine' object from the Toolbox into the begging of your experiment GUI
- Write the following 'WritePort 888, 0'

3. Trigger Oximeter When Stimulus is Presented

- In the same InLine or in a new InLine type the following
YourStimulusObjectName.OnsetSignalEnabled = True
YourStimulusObjectName.OnsetSignalPort = &H378
YourStimulusObjectName.OnsetSignalData = &H01

YourStimulusObjectName.OffsetSignalEnabled = True

YourStimulusObjectName.OffsetSignalPort = &H378

YourStimulusObjectName.OffsetSignalData = &H00

- Where *YourStimulusObjectName* is the name you have given to the stimulus object (e.g. TextDisplay, ImageDisplay, a Sound, a Checkerboard)
- This will turn the trigger on at the beginning of the stimulus and turn it off at the end
- The only requirement is that this *InLine must be placed somewhere before the Stimulus*

4. Turn Pins Off

- Insert another InLine object at the end of the program
- Type the following 'WritePort 888, 0'
- This is to ensure that all the pins are off. Good Practice.

Signaling the LED Trigger

- To Trigger the LED do the same as above yet in place of step 3 (if just testing the LED timing) or in addition to step 3 (if you would like to trigger both the oximeter and the LED) type the following

YourStimulusObjectName.OnsetSignalEnabled = True

YourStimulusObjectName.OnsetSignalPort = &H378

YourStimulusObjectName.OnsetSignalData = &H02

YourStimulusObjectName.OffsetSignalEnabled = True

YourStimulusObjectName.OffsetSignalPort = &H378

YourStimulusObjectName.OffsetSignalData = &H00

Good Luck!