Protocol eyeblink conditioning with neuroblinks

1. Make sure everything is connected. Checklist:
   1. Arduino: USB
   2. Camera 1: USB + trigger to Arduino
   3. Camera 2: Power + USB
   4. Air puff module: Air tank + Arduino +air outlet
   5. LED: Arduino
   6. Ephys: trigger to Arduino + power
2. Open Matlab. Add the folder ‘neuroblinks-master’ and underlying subfolders to your path.
3. Create a directory for your mouse, if it doesn’t already exist. The directory should be called ‘MXXX’ where XXX is a numerical identifier.
4. Launch neuroblinks().
5. Click new session. Fill in a numerical value for the session number of that day. Select the correct mouse in the popup menu. A new session is created. Matlab will connect to both camera’s and the Arduino, see the command center for updates.
6. In the ‘Trial sequence table’ section, check your parameters and click ‘generate trial table’. You can close the trial table that pops up.
7. In the ‘Trial control’ section, set the ITI and range for the randomness in ITI and the number of trials (‘stop after trial’).
8. In the ‘Camera control’ section, click on ‘start preview’ and check the camera position and focus.
9. Click ‘Place ROI’ and scale and position the elipse to surround the mouse’s eye then double click on the ellipse so that it turns green.
10. Click ‘Calibration’
11. Click ‘Start streaming’