Quick start guide

1. Click ***save background image***button in flyPairRig for each of the two experiments. The jpeg file will be saved to a folder specified by backgroundImageDir in flyPairRig\_user\_setting.m. The image name looks like *backgroundImg\_datetime.jpg*
2. Load flies to the bowl and click the ***flyload*** button to record the loading time
3. Make sure the partition on the ***camera*** tab of PFV\_Matlab is set as partition 1 for experiment 1.
4. Choose LED protocol and then click ***start Experiment*** button in flyPairRig. The display of the camera stop update during the experiment.
5. Please close the metadata input GUI to save experimental data after the current experiment is finished.
6. The partition number in ***camera*** tab of PFV\_Matlab should be changed to 2 automatically. The second movie will be recorded on partition 2.
7. Repeat step 2 to 5 for the second experiment
8. After two experiments are finished, you can check and play the movies in the ***datasave*** tab of PFV\_Matlab
9. If both movies looks fine, you can click ***transfer two movies*** button in flyPairRig to transfer both movies from camera’s memory to the workstation’s drive. It takes a while to finish the data transfer.