



PDA Visual Inspection Trainings Course

Hands on basic instructions

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Goal of the Experiments

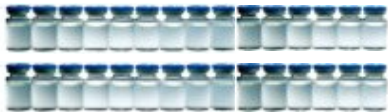
- Identify important parameters
- Recognize behavior of different particles
- It's hard to be an inspector even for half a day





Test Set

- Test set contains 28 vials
- Blanks and rejects
- Every Inspector has to inspect all 28 vials in each experiment
- Patiently wait until the class is ready to move on to the next experiment





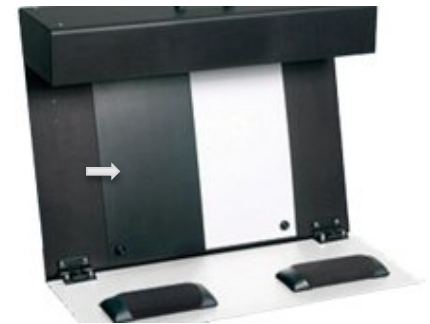
Setup of the instrument



Switch on both lamps



Measure light intensity. Mark a position at ~ 3000 Lux



Mark a position at ~ 3000 Lux



Tools





- Remove cover from sensor
- Select measurement range

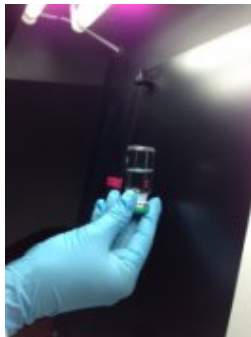
- Just listen to the metronome while inspecting to get the right timing





Training

- Two vials off each set (marked with a dot) contain easy to observe particles
- Make yourself familiar with swirling and inverting for a couple of minutes with these vials to practice the particle detection
- Try swirling and inverting

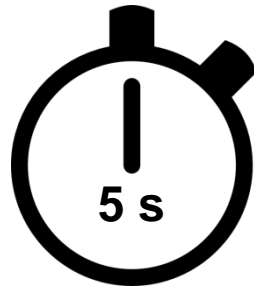




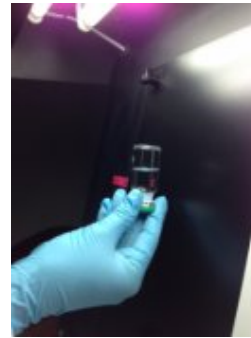
Exp. 1: Standard condition



Inspect at
marked position



Inspection time
5s black, 5 s
white background



Swirl or
invert



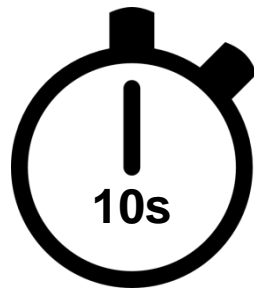
Record
result



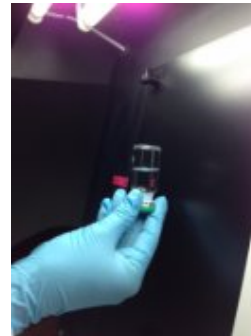
Exp.2: Elevated inspection time



Inspect at marked position



Inspection time
10s black, 10s
white background



Swirl or
invert



Record
result



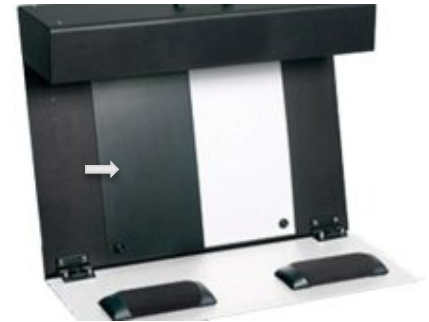
Exp.3: Reduced Light intensity - Setup of the instrument



Switch off
one lamp



Measure light
intensity



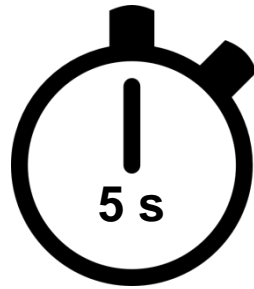
Mark a position
at ~ 3000 Lux



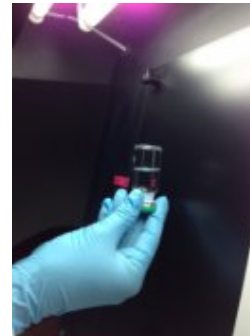
Exp.3: Reduced Light intensity



Inspect at marked position



Inspection time
5s black, 5 s
white background



Swirl or
invert



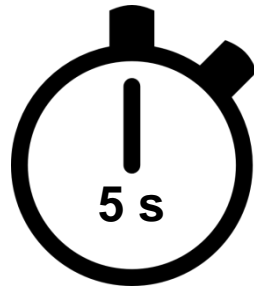
Record
result



Exp.4: No agitation



Inspect at
marked position



Inspection time
5s black, 5 s
white background



No
Swirling or
inverting



Record
result