
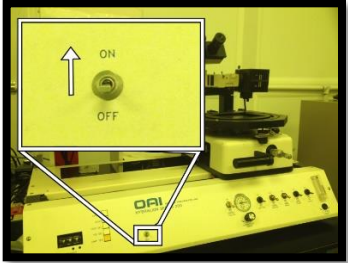
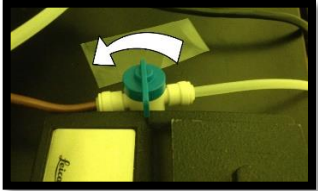
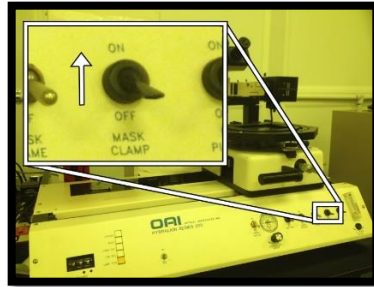
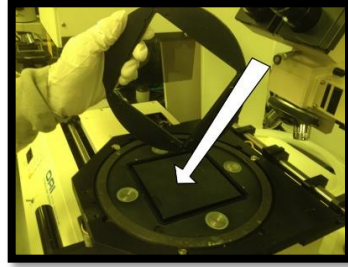


# Mask Aligner OAI HYBRALIGN SERIES 200

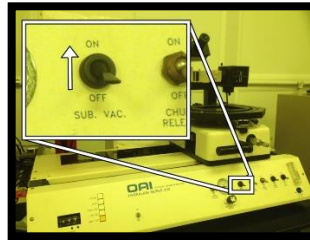
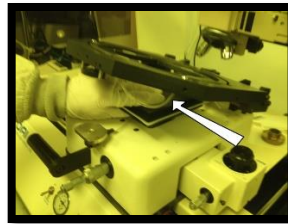
## Standard Operating Procedure

<p>For using Mask Aligner (MA) it is necessary to log for time used on the Department of Physics Clean Room log book.</p> <p>If intensity is too low or MA is not working, notify Superuser as soon as possible.</p> <p>Please <b>do not remove</b> from the room neither UV-protection goggles, nor Optical Powermeter, nor clamp, screw driver or pliers.</p>	
<p>1. Make sure MA fan is on</p>	
<p>2. Switch MA on.</p>	
<p>3. Open Main Vacuum Valve in the back of the MA.</p>	

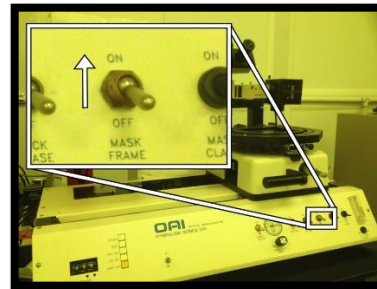
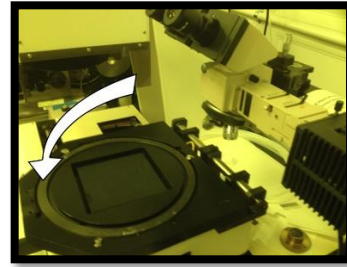
4. Set mask on Mask Holder and turn Mask Clamp on.



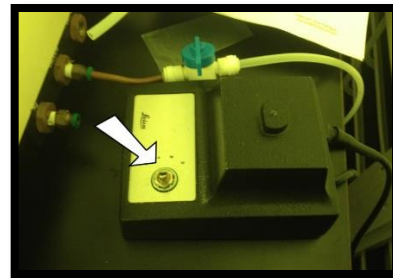
5. Raise Mask Holder and place sample in Aligning Area. Turn SUB. VAC. on in order to fix sample in position.



6. Finally, lower Mask Holder and turn Mask Frame on.



7. Align your sample. The light for microscope is in the back of MA, if needed.



8. Once sample is aligned, turn Allied Power Supply on.



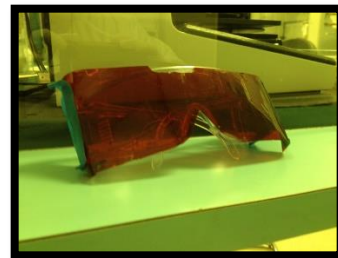
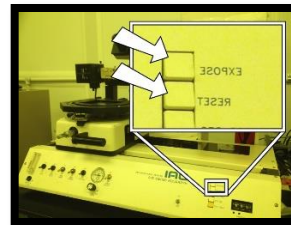
9. **Allow 10 seconds** and then charge Power Supply by pressing START bottom.



10. Let light bulb to warm up for **1 to 2 minutes** until indicator shows **18 mW/cm<sup>2</sup>** (in Power Supply).

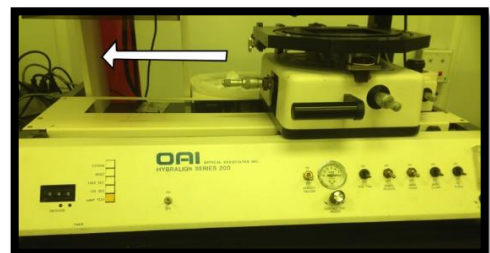


11. Check intensity on exposed area using Optical Powermeter. Press Lamp Test to expose and reset to stop exposing (**remember to wear UV-protection goggles at all times**).

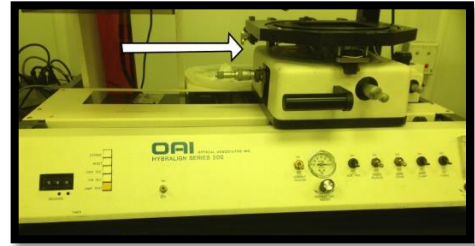


12. Calculate exposition time using value obtained from Optical Powermeter and set time in seconds into MA.

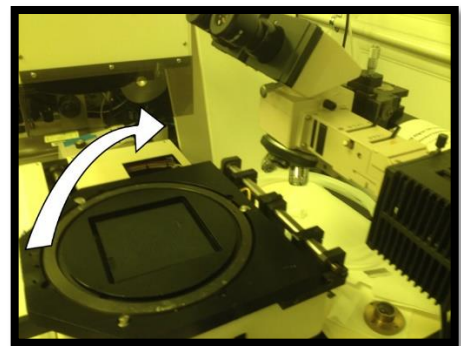
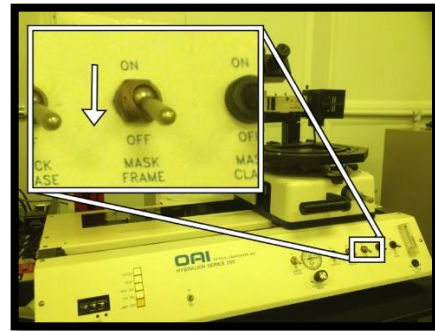
13. **GENTLY**, please **GENTLY**, move all Aligner Stage all the way to the left. Exposition will start and finish automatically (a click sound will mark beginning and end of exposition).



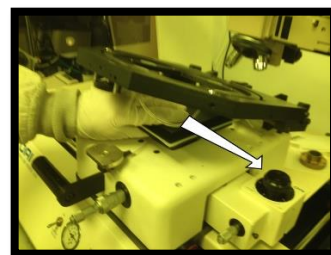
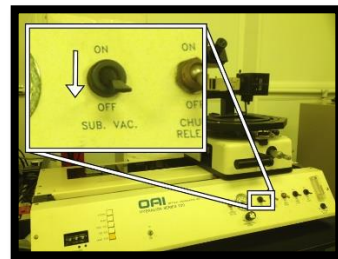
14. Once exposition is finished, gently move Aligner Stage back to its initial position.

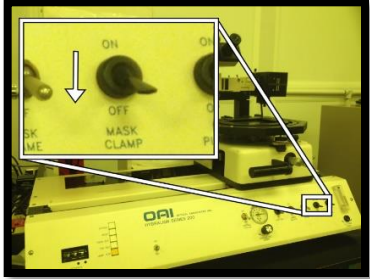
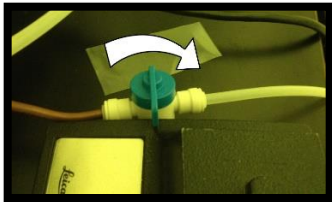

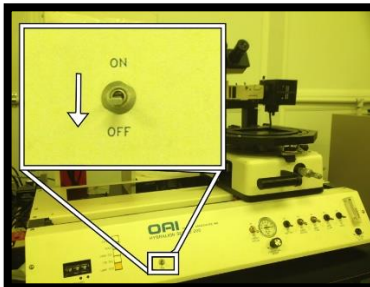


15. Turn Mask Frame off and raise Mask Holder.



16. Turn SUB. VAC. off and take sample. Lower Mask Holder.



<p>17. Turn Mask Clamp off for removing mask.</p>	
<p>18. Close Main Vacuum Valve.</p>	
<p>19. Turn Power Supply off.</p>	
<p>20. Then switch MA off.</p>	
<p>21. Turn microscope light off, if used.</p>	