Spinning Disk Confocal Condensed User Guide

Turn on Sequence

1. Turn on computer.
2. Turn on laser power strip.
3. Turn on microscope power strip.
4. Turn on Olympus Touch Screen.
5. Turn on X-cite illuminator (only if you require widefield fluorescence (eyepieces) to focus.
6. Turn on heating and/or gas (if applicable).
7. Log in to computer using NetID and password.
8. Start Metamorph Premier after Touch Screen is initialized. Wait for Taskbar to load.

*If the taskbar is missing, select Journal > Taskbars > Load Taskbar > Standard.JTB

Turn off Sequence

1. Remove sample and clean off objective.
2. Turn off heating and/or gas (if applicable)
3. Move files to fileshare.
5. Logoff Windows and/or shut down.
6. Turn off Olympus Touch Screen.
7. Turn off X-cite illuminator (if on).
8. Turn off microscope power strip.
9. Turn off laser power strip.

Standard Objective Specifications

<table>
<thead>
<tr>
<th>Mag</th>
<th>NA</th>
<th>Immersion medium</th>
<th>Coverslip thickness (mm)</th>
<th>WD (mm)</th>
<th>Objective Type</th>
<th>Color Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>10x</td>
<td>0.4</td>
<td>Air/Dry</td>
<td>0.17</td>
<td>3.1</td>
<td>USPLSAPO10X2</td>
<td>Yellow</td>
</tr>
<tr>
<td>20x</td>
<td>0.7</td>
<td>Air/Dry</td>
<td>0-0.16</td>
<td>0.7</td>
<td>UCPLFL20X</td>
<td>Green</td>
</tr>
<tr>
<td>40x</td>
<td>0.95</td>
<td>Air/Dry</td>
<td>0.11-0.23</td>
<td>0.18</td>
<td>USPLSAPO40X2</td>
<td>Blue</td>
</tr>
<tr>
<td>30x</td>
<td>1.05</td>
<td>Silicone oil</td>
<td>0.13-0.19</td>
<td>0.8</td>
<td>USPLSAPO30X2</td>
<td>Red + Green</td>
</tr>
<tr>
<td>60x</td>
<td>1.3</td>
<td>Silicone oil</td>
<td>0.15-0.19</td>
<td>0.3</td>
<td>USPLSAPO60X2</td>
<td>Red + Blue</td>
</tr>
<tr>
<td>100x</td>
<td>1.4</td>
<td>oil</td>
<td>0.17</td>
<td>0.2</td>
<td>UPLANFL</td>
<td>White</td>
</tr>
</tbody>
</table>

Silicone oil has an index of refraction matched to tissue (1.406, between water and oil).

Please **do not** mix standard oil (blue bottle) with silicone oil (green bottle)!