## How to switch ON/OFF the PerkinElmer UltraVIEW spinning disk system



 Turn on laser control box with both (a) key and (b) main switch.
 Included in the box are the controls for the diode

laser lines 405 nm, 440 nm and 640 nm.



 If 488 nm, 514 nm and 568 nm laser lines are needed, turn on Argon and Krypton lasers with keys on power packs.
 Turn ON and OFF must be

done in STAND BY!

Keep the LEVEL knobs as low as possible to protect the lasers from overpowering. Recommended is the 9 o'clock position (or lower). Never turn LEVEL knobs higher than 12 o'clock.

STAND BY switch & indicator light



Turn on:
 (a) microscope
 (b) ERS control box

(c) ProScan II controller (d) camera controller

(Optional) Turn on (e) epifluorescence and controls for (f) temperature and (g) heating units.



4. Turn on computer, log in and start the UltraVIEW ERS Imaging Suite software for image capture and analysis.

Turn OFF the system in reverse order.

illery - IMAGE	5	
ive [-d-]	•	New Experiment
Ne	w User	Rename Experiment
Dele	ete User	Delete Experiment



rdware Controller			
Stage Control		Capture Mode Dichroic Template	- Laser Contr
Current position/µm	Oum	Fast         405/         405/         405/           Sequential         488/         440/         440/         Save         Load           Emission         568/         514/         400         Save         Load	0 % Max Power
Sequence Parameters		Discrimination 640 640 400	
Set Top >> 54 µm		All OH htb vhl cerulean D Transmitter	
<ul> <li>Slice spacing 0.5</li> </ul>			
C No. of slices 11		Excitation 440 • 514 • 440 • 405 •	
Set Bottom >> 59 µm		Emission Oyan/F V Blue/Riv Cyan/F V Upen V Upen V	Min Power
Set Transmitted >> 37 µm		Power  20  25  40  75 (%)	Laser On
Calculate	80µm	Exposure + 450 + 800 + 450 + 1 + 1	Setup



## A quick guide to image capture

- 1. Start the UltraVIEW ERS Imaging Suite software.
- 2. In the Gallery Tree View, create a **New User** and **New Experiment** as required.
- 3. Focus the sample under the microscope using brightfield or epifluorescent illumination.
- 4. Switch lightpath to sideport (to confocal scanning unit).
- In the Hardware Controller, select Fast Sequential for fast, dual colour excitation discrimination experiments, or Emission Discrimination to use bandpass filters.
- 6. Click the appropriate **Dichroic**.
- 7. Select the required laser line and then adjust the **Power**.
- 8. In **Grey Levels**, use **Autoscale** if required to help find the sample.
- 9. Optimise camera settings: Exposure (in Hardware Controller), Binning, Gain, Custom Subarray (in Image Control).
- 10. Choose the required channels by selecting the **Record** check boxes (in **Hardware Controller**).
- 11. Define acquisition criteria: **z**, **t**, **delay**.

12. Click **Record** to start acquisition.