BIOIMAGING SHARED RESOURCE POWER ON/OFF PROCEDURES

Summer 2024

SYSTEMS

BLSB 910

- Leica SP8 tau-STED*
- DeltaVision Ultra Widefield*

BLSB 912

- Nikon A1R-HD*
- Nikon Ni Brightfield
- Andor CSU-X1/TIRF*
- Nikon Ts2R Screening

BLSB 914

- Molecular Devices Image Xpress Micro Confocal*

BLSB 1148

- Perkin-Elmer IVIS Lumina

* System has optional LIVE CELL steps

NIKON A1R-HD

POWER ON

- **Power Backup #1** — Press Power button for 1 second until green light begins to flash. Wait until green light is solid before moving to next step.
- **Laser Key** — Wait 10-15 seconds after.
- **Confocal Controller**
- **Power Backup #2**
- **PC***
- **Evaluate Objectives**
- **Software**

*If you need just the PC for data retrieval, you must first turn on Power Backup #2

NIKON A1R-HD

LIVE CELL

If you will need incubation for your sample, please turn on the chamber **30 minutes** before you begin.
Incubation controllers are behind the monitor.

Main controller

The settings for each component are set by the factory and will be higher than 37 degrees. Ideal values are printed on the label on the top of the controller. DO NOT ADJUST.

Humidity Bottle

Confirm water level in bottle and refill with Di water if needed.

Remove Stage Adapter

Use the GREEN screwdriver stored on the microscope to remove three (3) plastic screws.

Objective Warmer

If using an oil immersion objective.

Install Chamber

Use the GREEN screwdriver stored on the microscope to install three (3) plastic screws (hand tight only)

CO2

Turn on tanks, followed by two (2) RED valves

If you use incubation – YOU are responsible for returning the system to how you found it – including turning off the CO2.

NIKON A1R-HD

POWER OFF

Clean Objectives

Clean any oil from immersion lenses. If you need additional training on this – contact our staff

Software

Do any necessary processing and close the software

PC

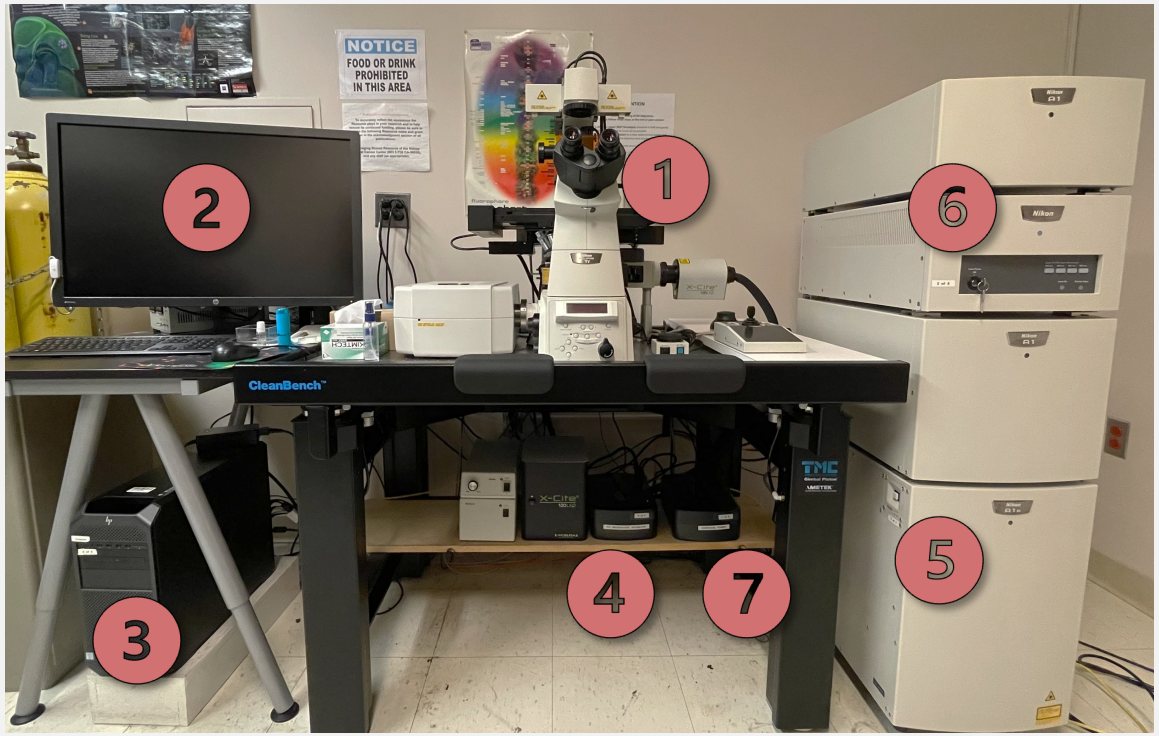
Save any data to removable drives if needed and power down the PC

Power Backup #2

Confocal Controller

Laser Key

Power Backup #1



LEICA STED

POWER ON

Switches 1-3 and key

Wait 15s between switches

Depletion Laser Key(s)

Only turn on the lasers you will be using.

Widefield Power

Evaluate Objectives

Software

LEICA STED

POWER OFF

Clean Objectives

Clean any oil from immersion lenses. If you need additional training on this – contact our staff

Software

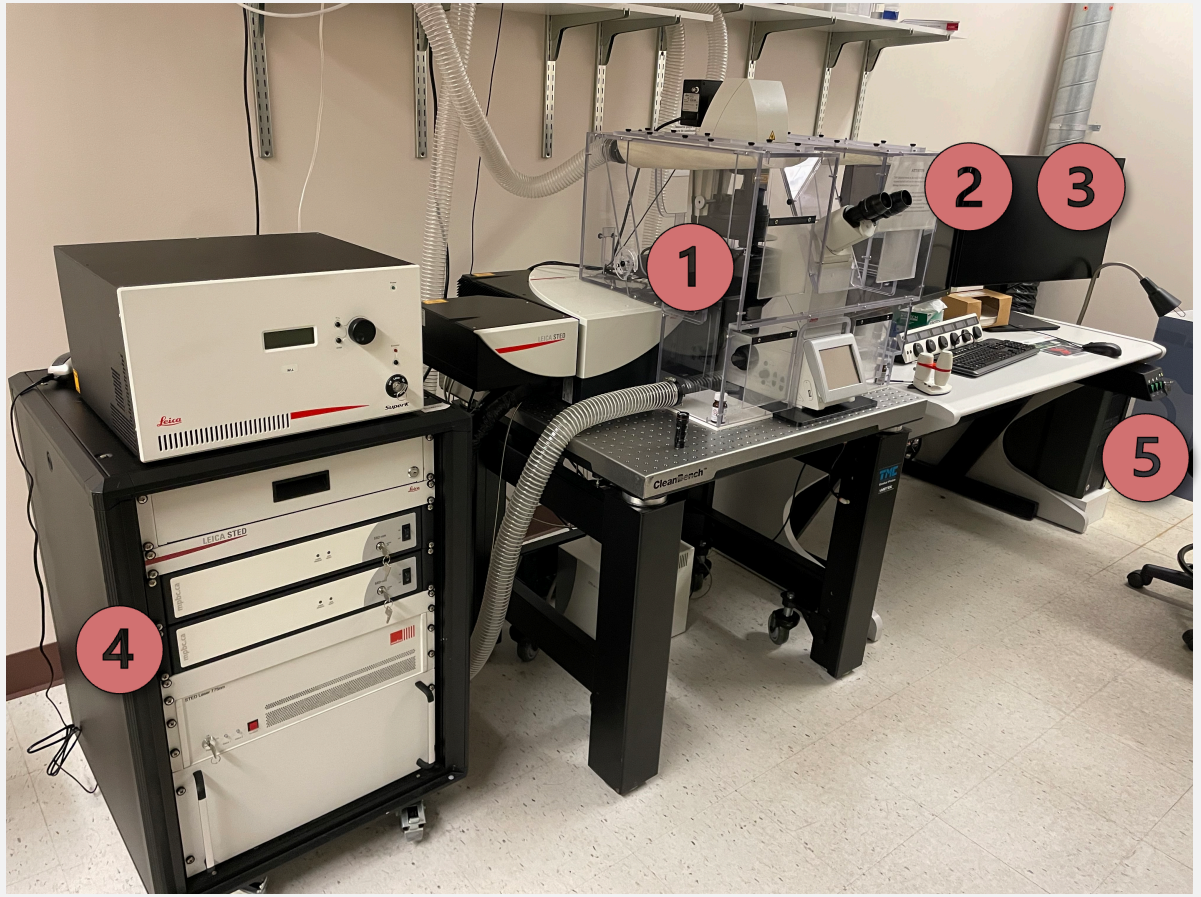
Do any necessary processing and close the software

PC

Save any data to removable drives if needed and power down the PC

Depletion Laser Keys

Key and Switches 1-3



CSU/TIRF

POWER ON

- Master Power
- Widefield Lamp
- PC
- Evaluate Objectives
- Software

Widefield Lamp

Master Power

CSU/TIRF

LIVE CELL

If you will need incubation for your sample, please turn on the chamber **30 minutes** before you begin.
Incubation controllers are behind the monitor.

Main Power

Install Chamber

CO2

Turn on tanks, followed by two (2) RED valves

If you use incubation – YOU are responsible for returning the system to how you found it – including turning off the CO2.

CSU/TIRF

POWER OFF

- Clean Objectives
- Software
- PC
- Widefield Lamp
- Master Power

Clean any oil from immersion lenses. If you need additional training on this – contact our staff

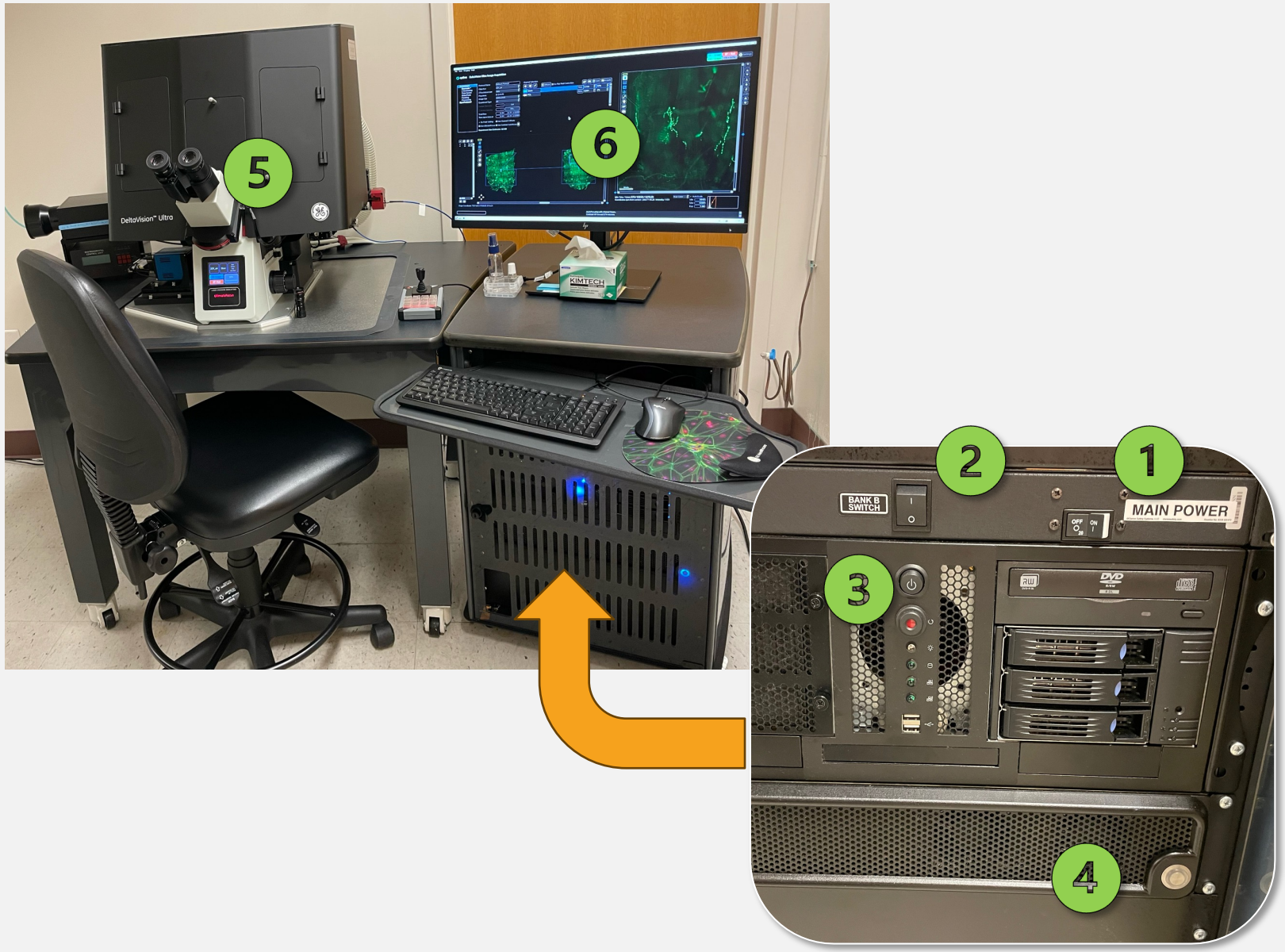
Widefield Lamp

Master Power

DELTAVISION

- Main Power
- Bank B Power
- PC
- Controllers
- Objectives
- Software

POWER ON



DELTAVISION

LIVE CELL

If you will need incubation for your sample, please turn on the chamber **30 minutes** before you begin.
Incubation controllers are behind the monitor.

Control Box

CO2

CO2 tank is housed in BLSB 912.

If you use incubation – YOU are responsible for returning the system to how you found it – including turning off the CO2.

DELTAVISION

POWER OFF

- Clean Objectives
- Software
- PC
- Controllers
- Power Bank B
- Main Power

Clean any oil from immersion lenses. If you need additional training on this – contact our staff

Be sure PC is powered off before turning off other power switches

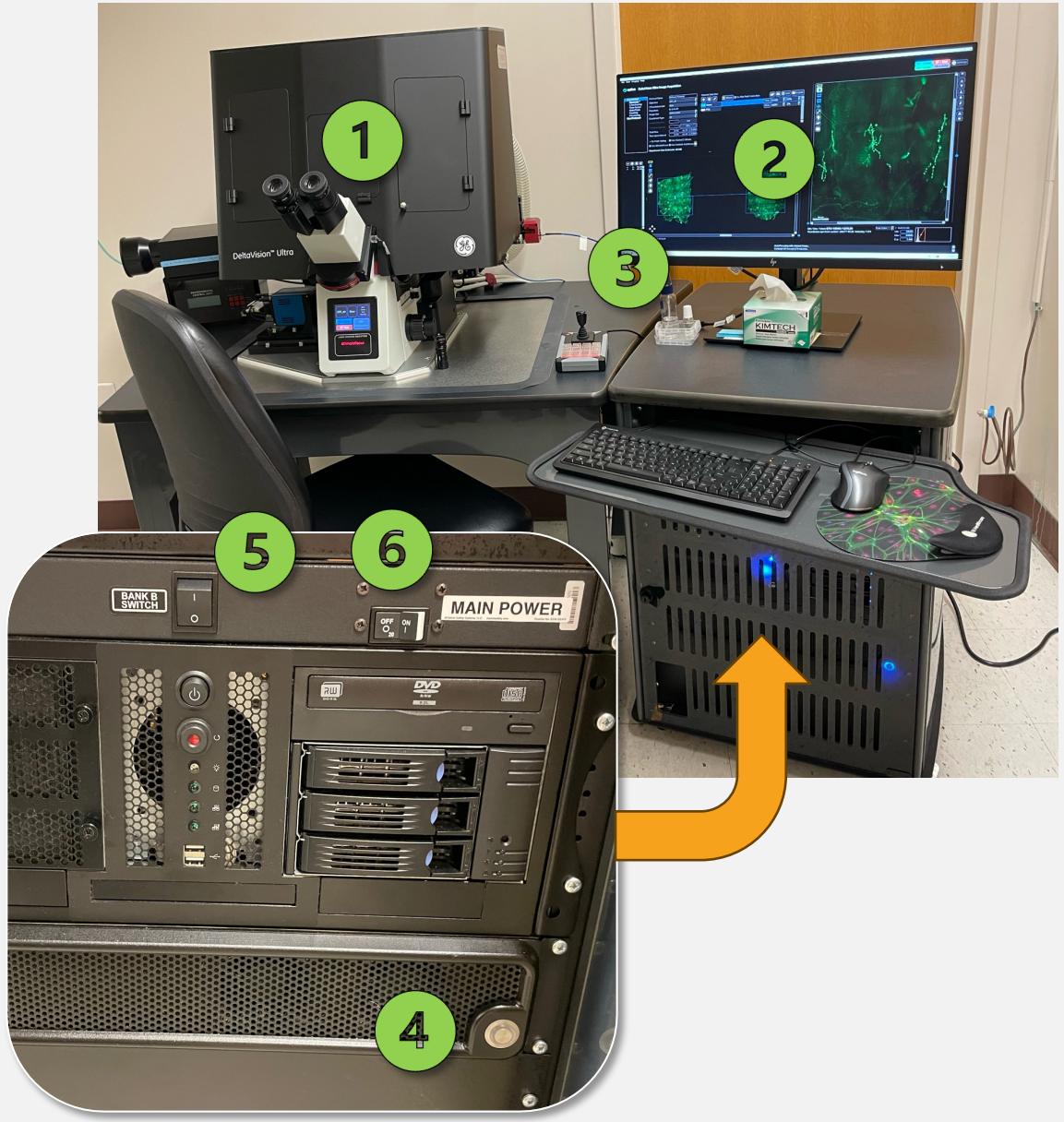
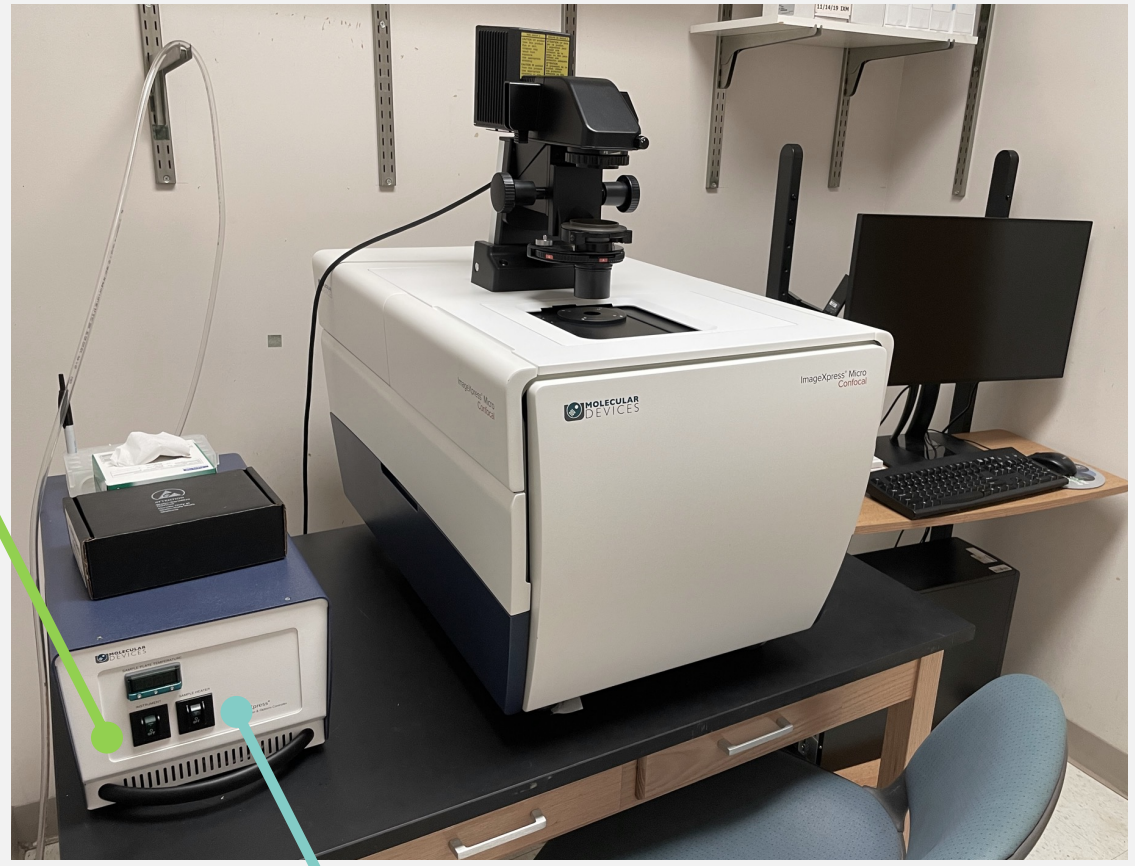


IMAGE XPRESS



Instrument Power

PC

Software

Sample Heater

CO2 tank

Instrument Power

PC

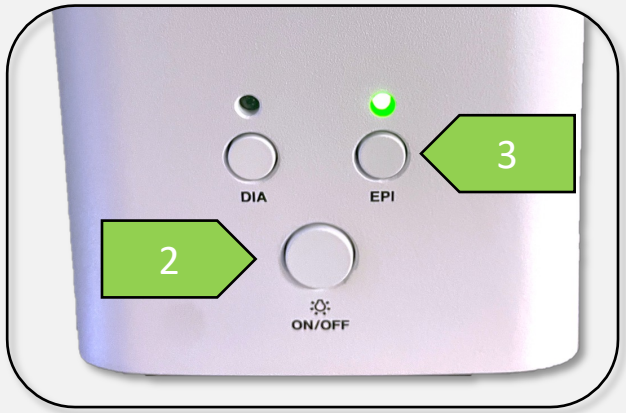
Software

SCREENING

POWER ON
1 – System Power
2 – Lamp Power
3 – Mode Selection

USE
1 – Choose Filter
2 – Adjust Intensity

POWER OFF
1 – Lamp Power
2 – System Power



Fluorescence:
1 = DAPI
2 = GFP
3 = RFP
4 = Brightfield

Modes:
DIA = Brightfield/Phase
EPI = Fluorescence

BRIGHTFIELD

Control Box

Microscope

Camera

Fluorescence*

PC

Control Box

Microscope

Camera

Fluorescence*

PC

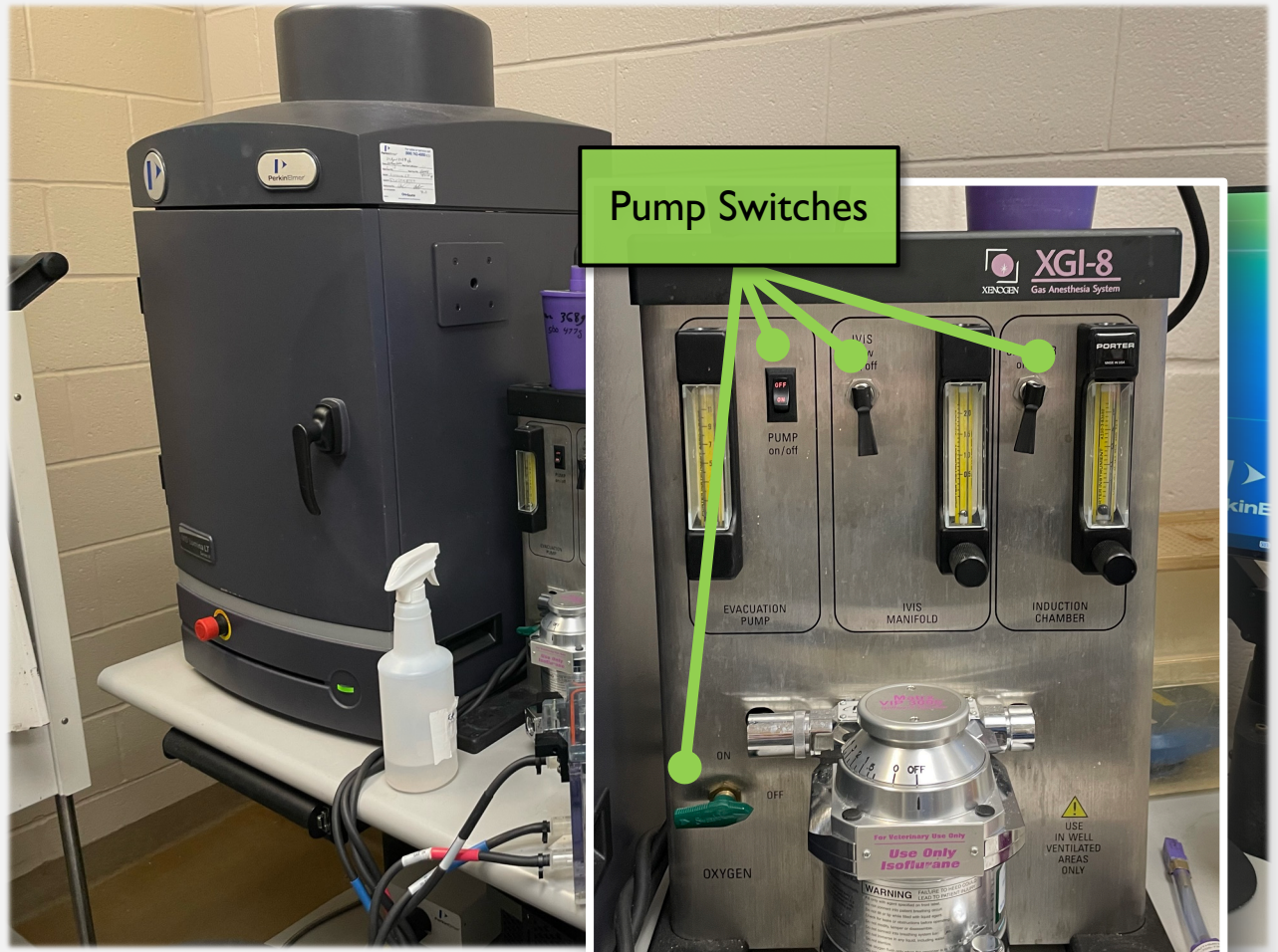
IVIS

O2

Pump Switches

Isoflurane

Software



Software

Isoflurane

Pump Switches

O2

Sanitize