

# IVIS ANIMAL IMAGER

## Basic Operation

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System Basics

2

Start Up

3

Software Overview

4

Setup Wizard

5

Bioluminescence

6

Fluorescence

7

FAQ/Troubleshooting



Shared Use means Shared Responsibility

**REPLACE** empty or low **Oxygen Tanks**

**REFILL** empty or low **Isoflurane**

**CLEAN** all used surfaces

**SAVE** files to the **E://** drive (not the desktop)

# System Basics

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Imaging Chamber

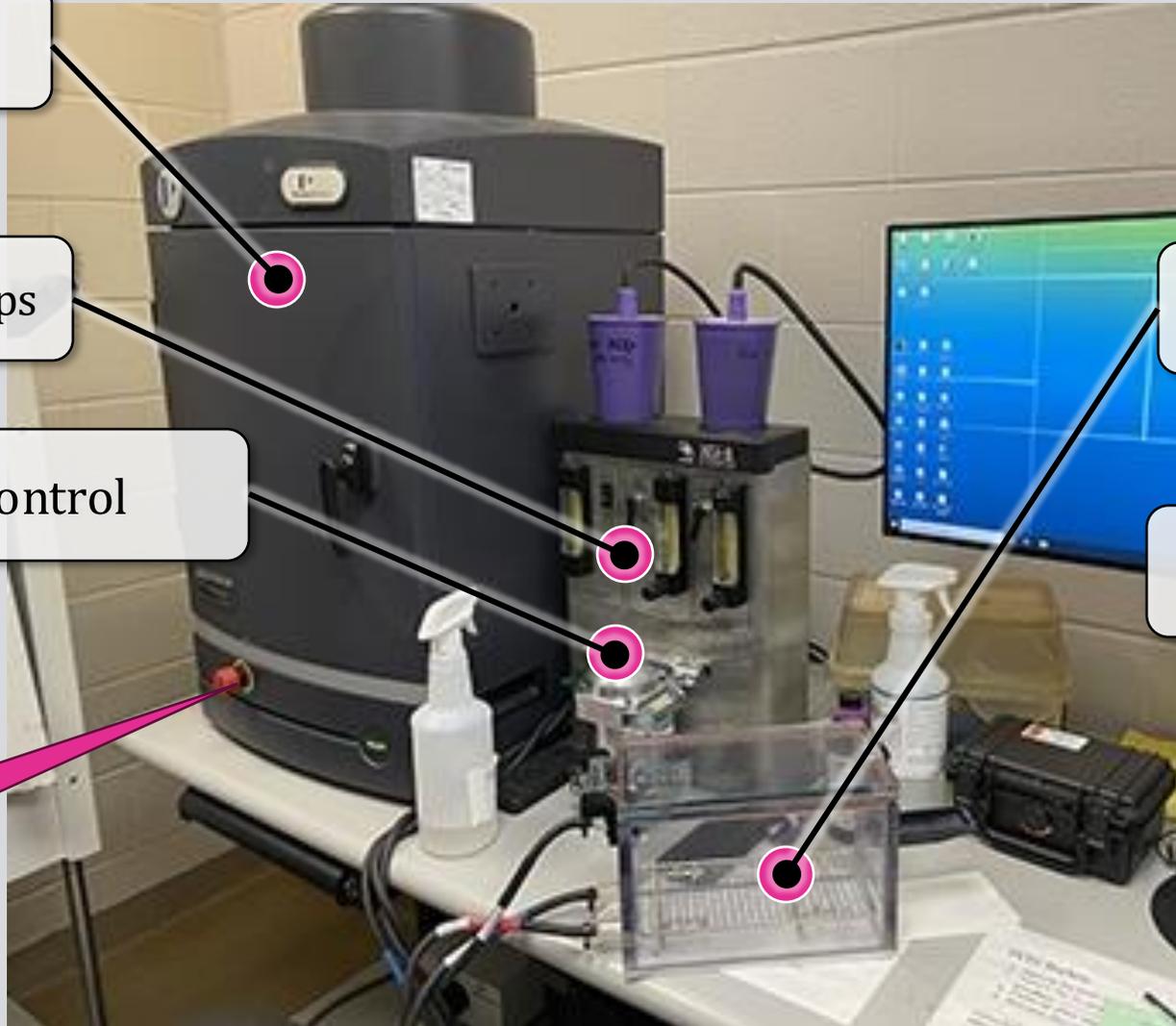
Chamber Pumps

Isoflurane Control

Emergency Stop Button

Anesthesia Chamber (kept in hood)

O2 tank (next to table)



# Start Up

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## Turn On Order

- O2 tank
- Induction Chamber
- IVIS Manifold
- Evacuation Pump
- Oxygen Flow
- Isoflurane



## Isoflurane Refilling



**Injection Lid**  
(only goes on bottle one way)

## Refill Port



- Unlock port
- Remove block plug
- Insert injector

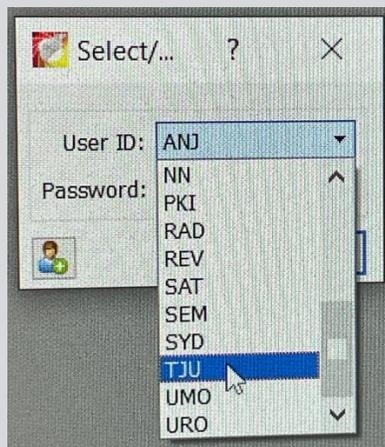
If O2 is empty, please replace tank  
If Isoflurane is below minimum level, please refill

1

When you start, please select TJU, unless your lab has a dedicate log in

2

3



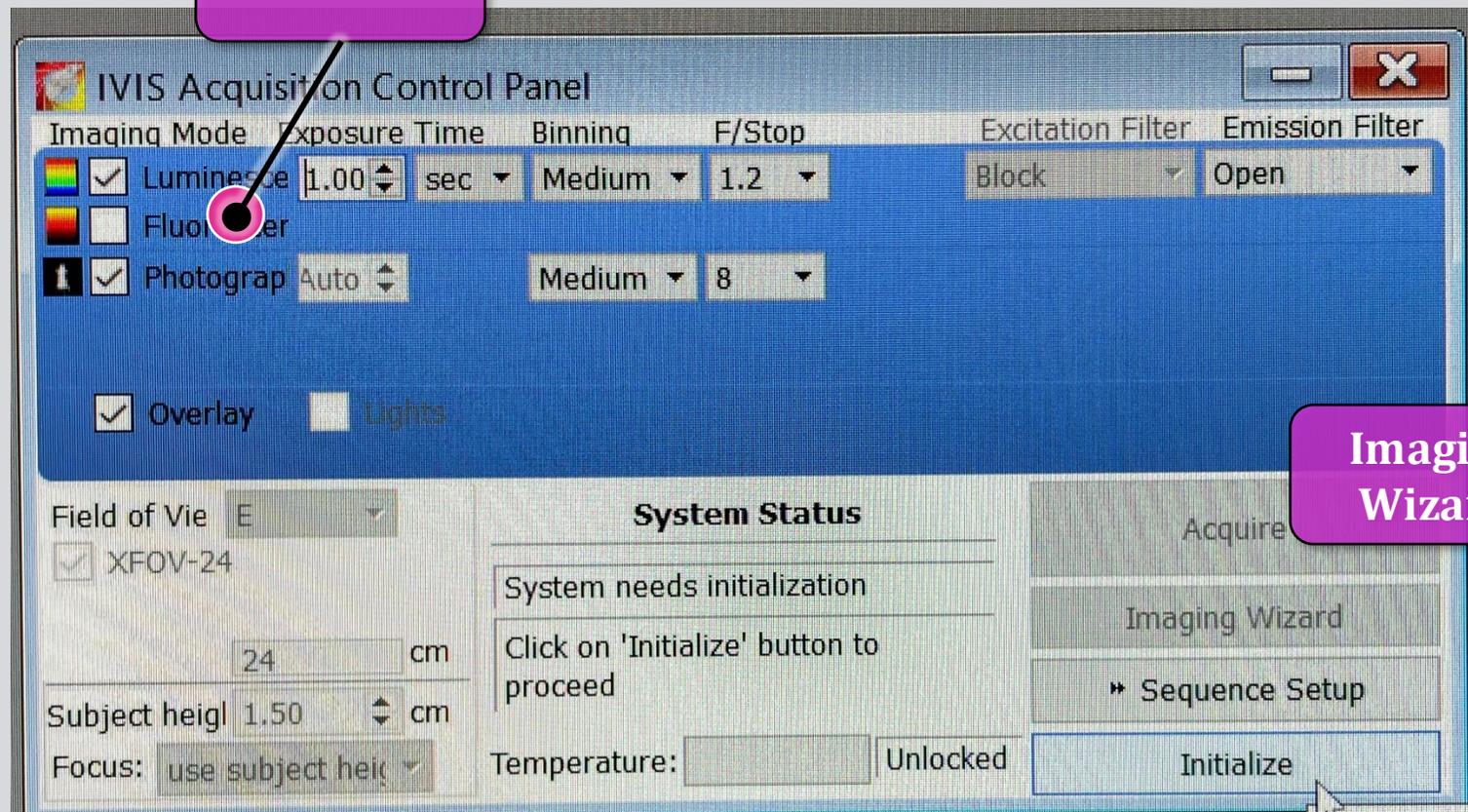
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Mode



Imaging Wizard

Initialize

Setup Wizard

1

2

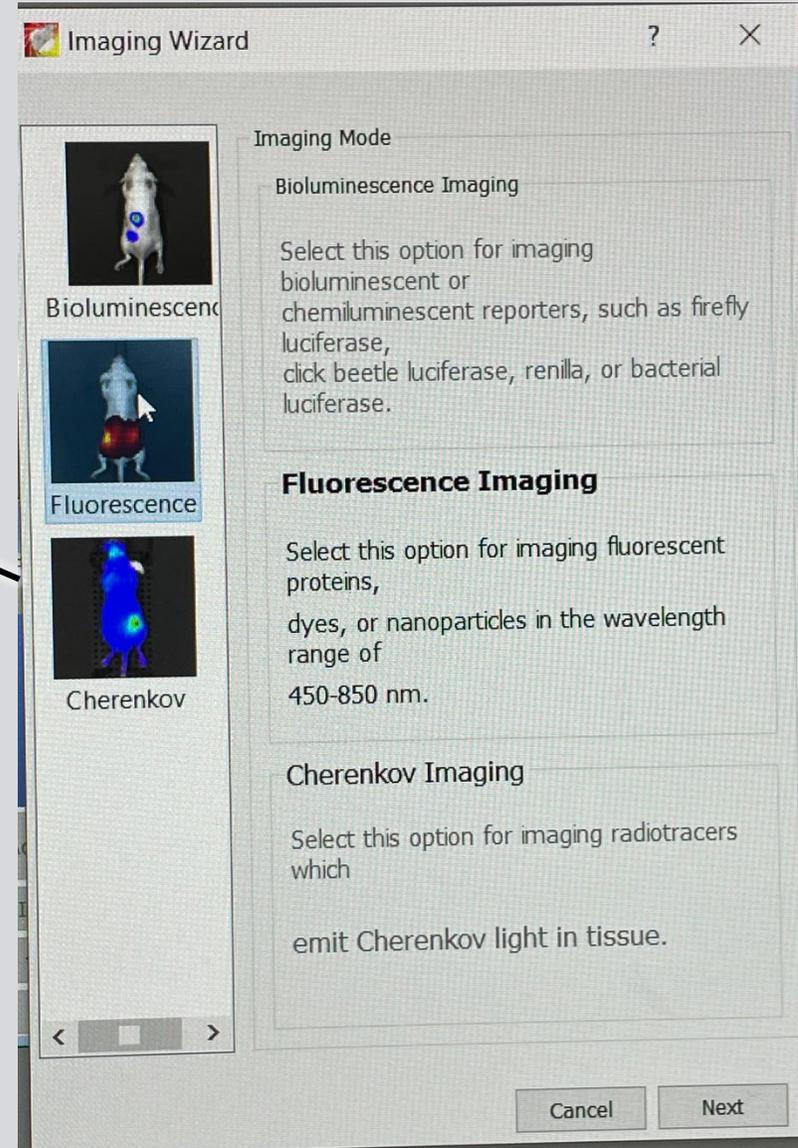
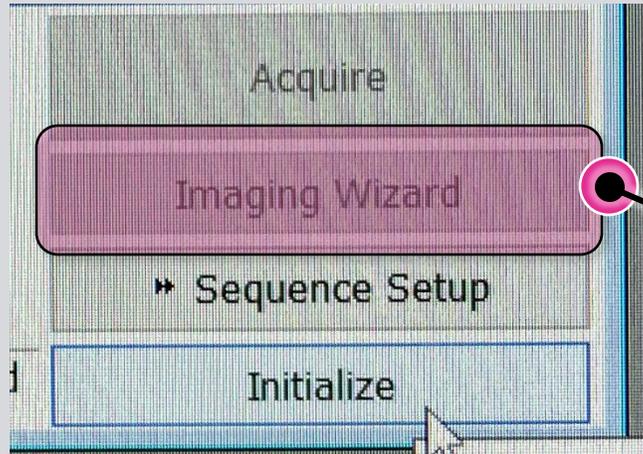
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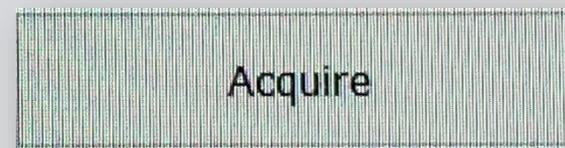
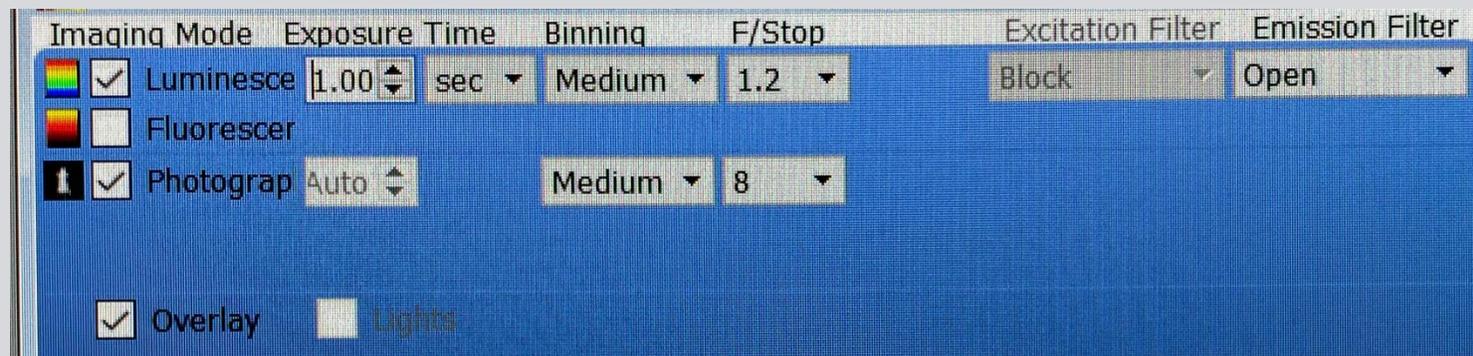
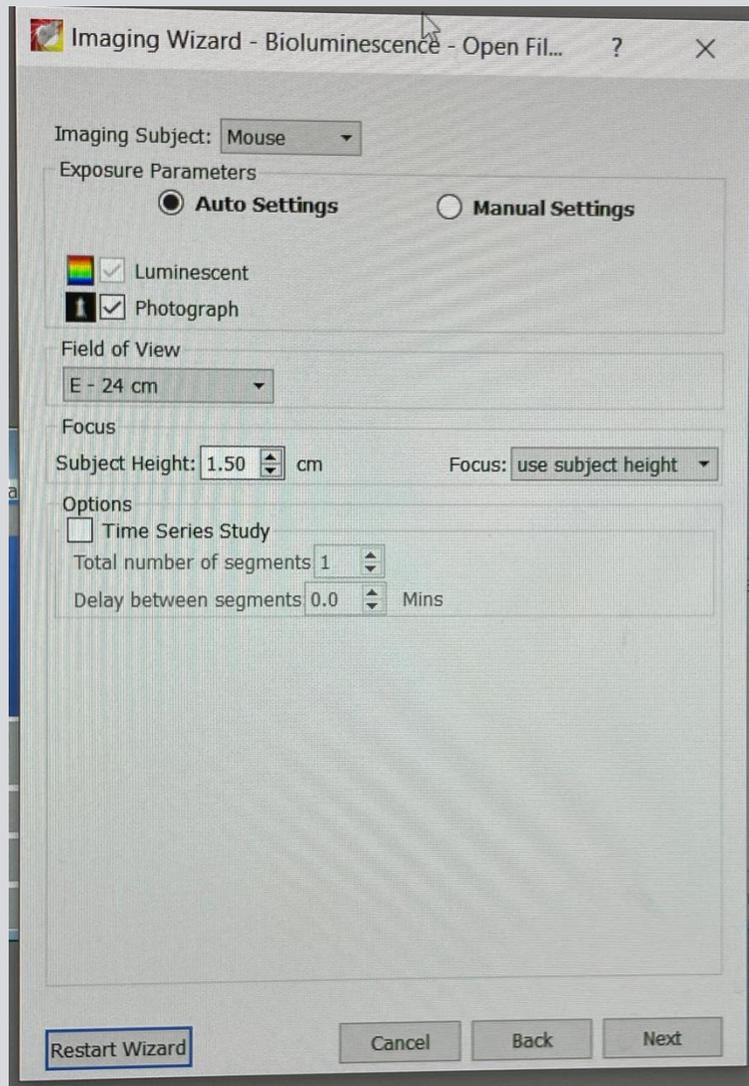
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# Fluorescence

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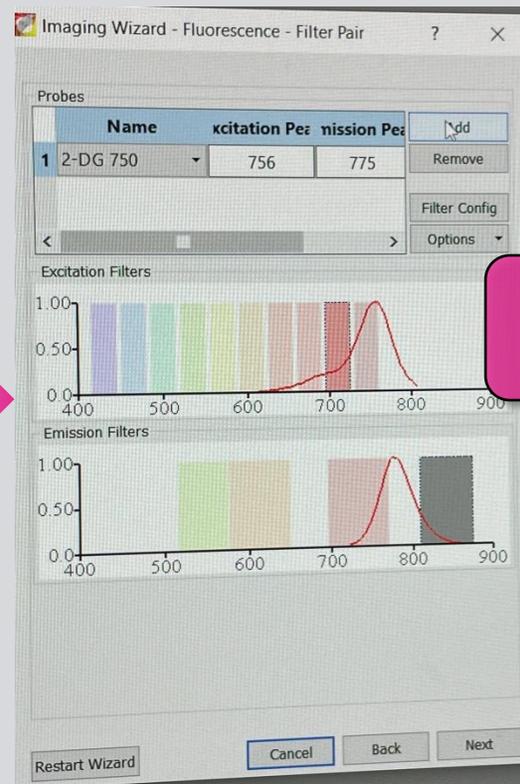
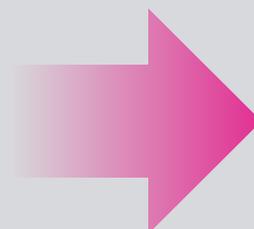
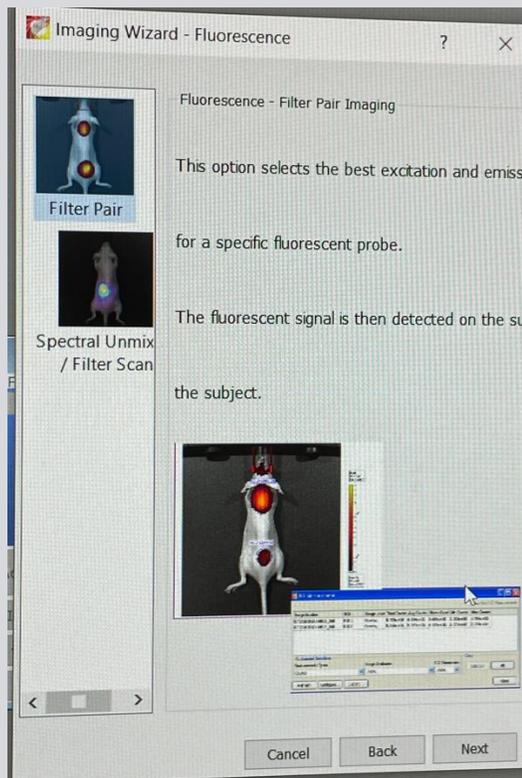
3

4

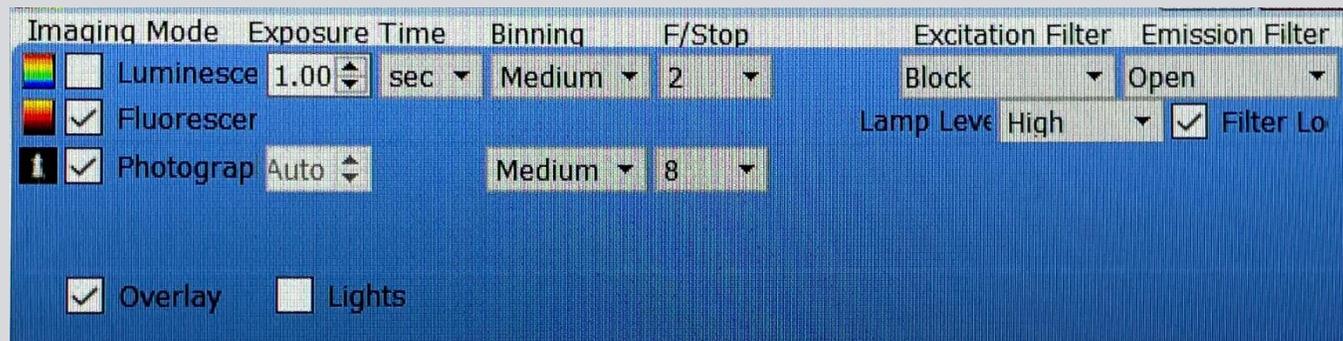
5

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Select Fluorophores



Acquire

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Q: After I initialize, there is a **RED** temperature bar. What is this and should I worry?

A: No – this is a **camera colling status**. It will turn green when the camera is cooled to specification (~2min)

Temperature Status		
	Deman	Measure
Camera Tem	-90	-100
Stage Tem	37.0	35
Temperature:		Unlocked

Temperature Status		
	Deman	Measure
Camera Tem	-90	-88
Stage Tem	37.0	37
Temperature:		Locked

1. The IVIS unit has an **EMERGENCY STOP** button located on the front.
2. When pressed, the button disrupts all communication between the IVIS and the PC
3. To **restore communication**, you must reset the button and re-initialize the software

1

**Emergency  
Stop Button**



**Front Displays**



Software OFF



Software ON  
SYSTEM  
NOT INITIALIZED



Software ON  
SYSTEM  
INITIALIZED

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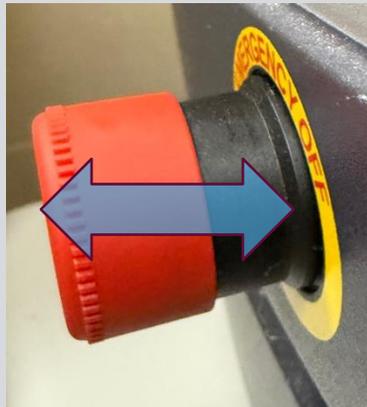
6

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2

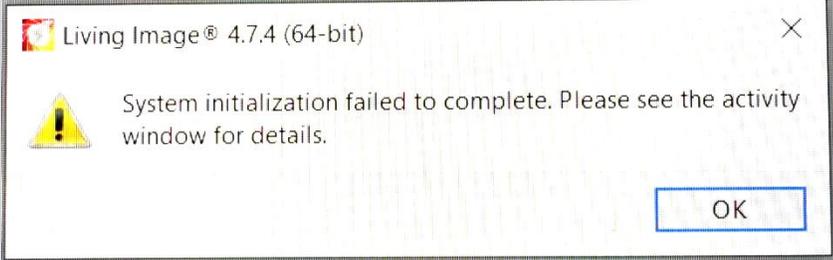
UNPRESSED



PRESSED



**FAILED INITIALIZATION WHEN  
BUTTON IS PRESSED**



Type	Description
Informat...	IVIS configuration file found and loaded.
Informat...	Reading user preferences...
Informat...	Switching Off, Motion safety.
Informat...	System needs initialization. Click on 'Initialize' button to proceed
Informat...	Initialization process failed to complete.
Error	Error initializing 'USB-DAQ' controls.
Informat...	Switching Off, Motion safety.
Informat...	System needs initialization, Click on 'Initialize' button to proceed

1

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**RESET**



Button can be reset by twisting with a slight press until it returns to its default state

**Front Displays**



Software OFF



Software ON  
**SYSTEM  
NOT INITIALIZED**



Software ON  
SYSTEM  
INITIALIZED