

AMI-HTX ANIMAL IMAGER

Basic Operation

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System Basics

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Start Up

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Software Overview

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EASY MODE

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BioLuminescence

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Fluorescence

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XRay

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Isolation Chambers

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FAQ/Troubleshooting



Shared Use means Shared Responsibility

REFILL empty or low Isoflurane

CLEAN all surfaces before and after use

SAVE files to external drive and remove from PC

System Basics

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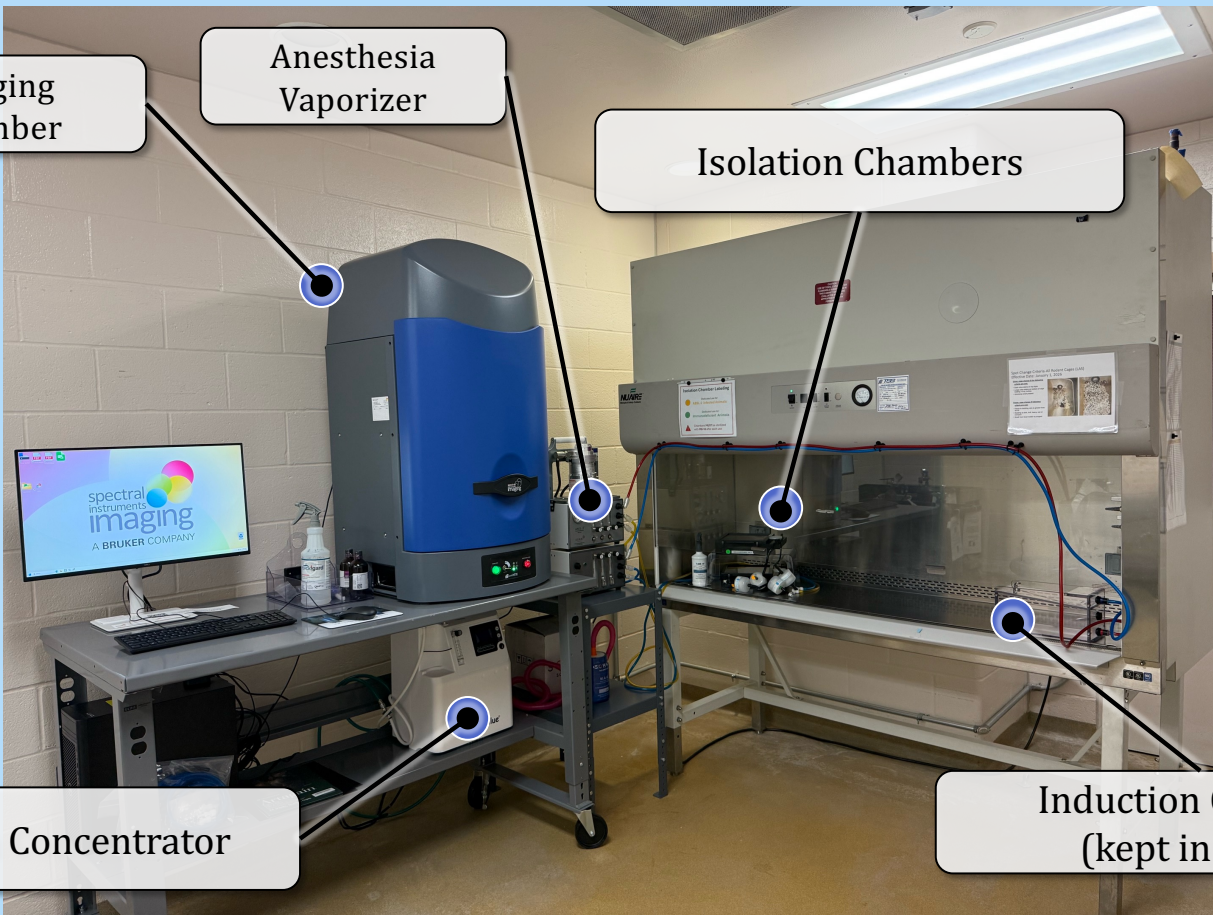
Imaging Chamber

Anesthesia Vaporizer

Isolation Chambers

Oxygen Concentrator

Induction Chamber (kept in hood)



Start Up

Manifold

Isoflurane

Oxygen

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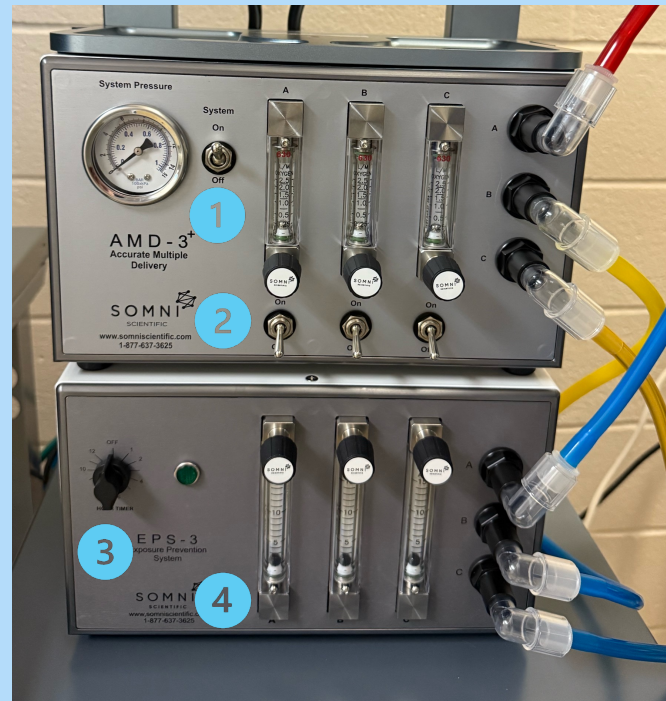
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1- Turn on SYSTEM
2- Each manifold port has separate flow control. Turn on and set the flow for the appropriate ports based on your imaging

3- Turn on EVAC timer
4- Set evac pump rate for each used port. EVAC rate should be roughly 10x input flow rate



A) Induction
B) AMI Manifold
C) Isolation Chamber

All BLUE hoses are evac lines

Start Up

Manifold

Isoflurane

Oxygen

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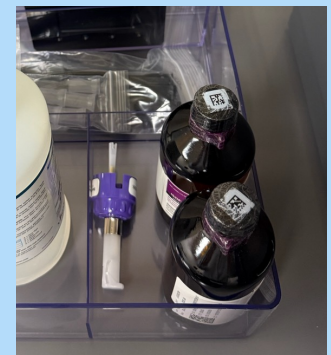
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- 1- Ensure isoflurane level is between limits in clear window
- 2- Set dial to appropriate concentration



IF ISOFLURANE IS LOW – REFILL it using the provided stock bottles and attachable spout located next to the AMI.



Start Up

Manifold

Isoflurane

Oxygen



The AMI system uses an **oxygen concentrator** in place of consumable tanks.

Power on **AFTER** the flow rates are set on the manifold.

If no flow is on, the concentrator alarm will sound.

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Start Up

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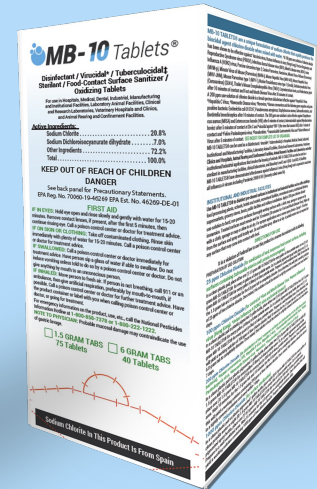
Animal Imagers and all associated equipment and surfaces must be sanitized **before** and **after** use with the provided PEROXIGARD. There are two (2) caveats to this:

1 – **DO NOT** spray Peroxigard directly into the AMI imaging chamber. Spray a paper towel and use that to disinfect all surfaces inside

2- **DO NOT** use Peroxigard on the isolation chambers as this may cloud the imaging window. PLEASE use the solution of MB-10 provided.



*Please use MB-10 test strips to confirm >100ppm before use



FOR ISOLATION CHAMBERS

Software Overview

When logging into the PC
– Password is “**admin**”

When opening the software enter the
user name you created.

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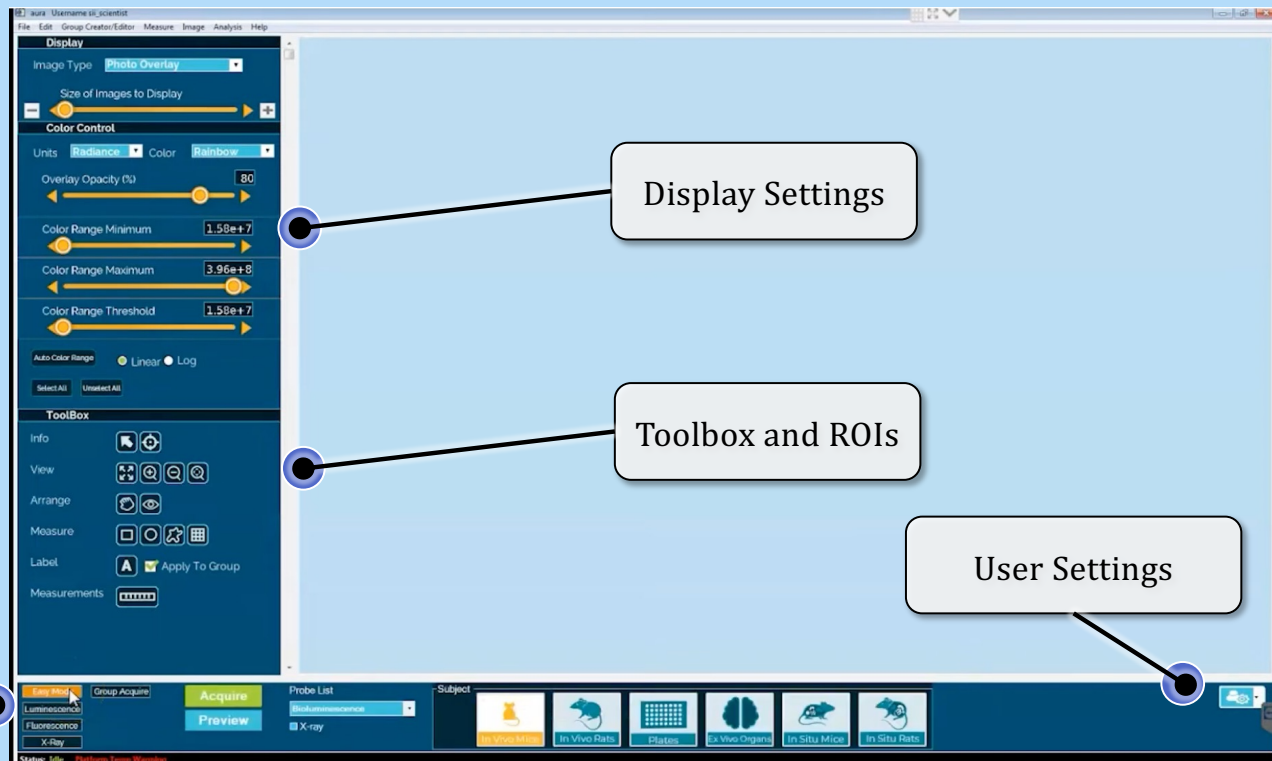
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Acquisition Modes
and Settings

Display Settings

Toolbox and ROIs

User Settings



EASY MODE

BioImaging Shared Resource - 2026

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[YouTube: EASY Mode tutorial](#)

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The screenshot displays the auro software interface. On the left is a 'Display' panel with settings for 'Image Type' (Photo Overlay), 'Color Control' (Units: Radiance, Color: Rainbow, Overlay Opacity: 80%, Color Range Minimum: 1.54e+7, Color Range Maximum: 3.85e+8, Color Range Threshold: 1.54e+7), and 'Auto Color Range' (Linear selected). Below this is a 'ToolBox' with icons for Info, View, Arrange, Measure, Label, and Measurements. At the bottom is a control bar with 'Easy Mode' (selected), 'Group Acquire', 'Acquire', 'Exposure (s)' (1), 'Binning' (Low), 'FStop' (1.2), 'Emission' (Open), 'Field Of View' (FOV: 20, 15, 10, 6; Object Height: 1.5 cm), and 'Xray' (Power: Off). The main area contains two QR codes. The left QR code is linked to a YouTube tutorial on BLI Mode, and the right QR code is linked to a YouTube video on Kinetics through Group Acquire.

[YouTube: BLI Mode tutorial](#)

[YouTube: Kinetics through Group Acquire](#)

Fluorescence

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The screenshot displays the FLI software interface. On the left is a dark blue sidebar with a 'ToolBox' containing icons for Info, View, Arrange, Measure, Label, and Measurements. The main window features a 'Display' panel with 'Image Type' set to 'Photograph' and 'Color Control' options including 'Units: Radiance', 'Color: Rainbow', and sliders for 'Overlay Opacity (%)' (80), 'Color Range Minimum' (3.60e+8), 'Color Range Maximum' (8.99e+9), and 'Color Range Threshold' (3.60e+8). Below these are 'Auto Color Range' (Linear/Log) and 'Select All'/'Unselect All' buttons. The bottom status bar includes 'Easy Mode', 'Group Acquire', 'Acquire' button, 'Exposure (s)' (0.5), 'Binning' (Low), 'FStop' (2.0), 'Excitation' (465), 'Emission' (510), 'Excitation Power (%)' (5), 'Field Of View' (FOV: 20, 15, 10, 6), 'Object Height' (1.5 cm), and 'X-ray Power' (Off). A large QR code is centered in the main window, and the text 'YouTube: FLI Mode tutorial' is written below it.

[YouTube: FLI Mode tutorial](#)

XRAY

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The screenshot displays the XRAY software interface. On the left is a 'Display' panel with settings for 'Image Type' (Photo Overlay), 'Size of Images to Display', 'Color Control' (Units: Radiance, Color: Rainbow, Overlay Opacity: 80%), and 'ToolBox' (Info, View, Arrange, Measure, Label, Measurements). The main area features a large QR code and the text 'YouTube: XRAY Mode tutorial'. On the right is a photograph of the X-ray key control panel, which includes a key in a lock, a power switch, and indicator lights for 'X-RAY ON', 'X-RAY ARMED', and 'X-RAY IDLE'. The 'ami HTX' logo is also visible.

[YouTube: XRAY Mode tutorial](#)

Be sure the Xray key is in and turned to ON

Be sure the Xray key is in and turned to ON

Troubleshooting

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



SANITIZATION

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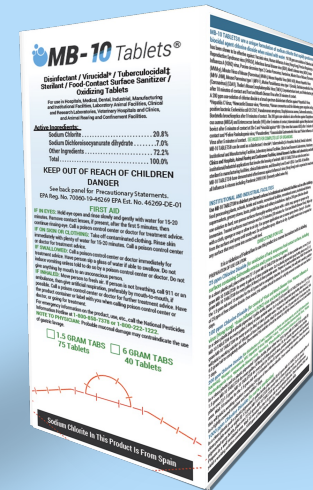
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FOR ISOLATION CHAMBERS