

## START-UP PROCEDURE FOR **LEICA DM IRE2 INVERTED FLUORESCENT MICROSCOPE**

### **Key Steps are Marked with ORANGE Labels.**

- STEP 1. Turn ON Power Strip that is located below the microscope table on the shelf.
- STEP 2. Turn ON Mercury Burner HBL100 Power Supply Unit for conventional fluorescence observation. A green LED indicates operation status.  
Note: switch is located on the back panel.
- STEP 3. Turn ON Leica CRT MIC Control Power Unit power. This unit contains the external power for the brightfield lamp and the electronics that drive the motorized functions of the microscope.
- The ON/OFF switch is located on the front panel.  
A green LED indicates operation status.  
Turn Power Switch to ON.
- Leica DMSTC Stage Controller Unit. This unit contains the electronics that drive the motorized functions of the microscope. (Note: For convenience, the power to the controller unit is turned ON when the Power Strip is turned ON in Step 1. Green LED on the front panel will already be ON. ).
- The “Fine” ON/OFF switch is located on the front panel.  
Note: “Fine” control regulates the X-Y movement of stage. This can be toggled OFF/ON from coarse/fine setting if needed.
- Press Power Switch to ON.  
A separate Red LED will come ON which indicates the operation status.
- STEP 4. Turn ON Camera. Camera is located at the side port of the microscope.  
The Aux/OFF/ON 3-way switch is located on the back of the camera.  
Press Switch to ON (upper side).
- A Green/Yellow/Red Led indicates the Operational status/communication status with computer software.
- STEP 5. Turn ON Computer.
- Press Ctrl-Alt-Delete
- Log In using your new Active Directory Username and Password.
- A Window Help Panel will appear. Disregard and Press “OK”.
- STEP 6. Press Image ProExpress 6.3 Icon to start ImagePro software
- STEP 7. To Acquire Live Image  
In Tool bar Click On <Acquire> and then Click On <Video/Digital Capture ....>

Alternatively click directly on <Camera Icon> in the second row of Toolbar.

STEP 8. Click On <PREVIEW> tab to activate LIVE image.

**Notes.**

1. **Mercury Burner Safety: DO NOT** switch OFF the burner within 15 min after ignition. Once the mercury burner has been switched off, **DO NOT** re-ignite the burner for at least 30 min to allow the burner time to cool.
2. Ignition of the Mercury Burner may cause a power surge that could affect the computer and other controller units. For this reason, the Mercury Burner Power Supply Unit should be turned on first, before any other electronics, and turned OFF last after all other electronics have been turned OFF.

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**SHUT-DOWN PROCEDURE FOR**  
**LEICA DM IRE2 INVERTED FLUORESCENT MICROSCOPE.**

**!!!! After use, make sure objectives and microscope stage are clean especially when using Water or Oil objectives. Only use Lens paper when cleaning objectives.**

STEP 1. Turn OFF the Computer power.

STEP 2. Turn OFF Camera.  
Toggle Switch to the middle position.

STEP 3. Turn OFF Leica DMSTC Controller Unit IXZUCB Controller Unit.

STEP 4. Turn OFF Mercury Burner HBL100 Power Supply Unit.

STEP 5. Turn OFF Power Strip.

Note: This will also Turn OFF power to Leica DMSTC Controller Unit.  
Upper Green LED will remain ON until Power Strip is turned OFF.

**Sign OFF in Log Book!!!**