

START-UP PROCEDURE FOR
LEICA DM RD UPRIGHT FLUORESCENT MICROSCOPE

Key Steps are Marked with YELLOW 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 Mac5000 Stage Controller Power Unit. This unit contains the external power and the electronics that drive the motorized stage of the microscope.

 The ON/OFF switch is located on the front panel. A green LED indicates operation status. Turn Power Switch to ON.
- STEP 4. Turn ON Power to microscope.
 MAIN Switch Turns ON Power to scope. LED light will come on.
 Smaller switch to the left of Main Switch will turn ON BRIGHTFIELD LIGHT. Turn Switch to down
- STEP 5. Turn ON Leica DM RD Camera Control Unit. This unit contains the electronics that control whether the image is directed to the eyepieces (VISUAL) or to the digital camera (PHOTO).
Note: Power Switch is located at the back of Control Unit

To set up which of image.

1. Press Menu button
2. Scroll down to position 6. "Menu #2"
3. Press ENTER.
4. Scroll to position 1. "Prism Control"
5. Press ENTER
6. Now you have 3 OPTIONS.

Option 1. Scroll to position 1. **50% VISUAL:50% PHOTO.** This is useful for color imaging but is not optimal for fluorescence imaging (because of longer exposures.

or

Option 2. Scroll to position 3. **100% VISUAL.** For viewing with eyepieces.

or

Option 3. Scroll to position 4. **100% PHOTO.** This sends 100% of light to digital camera and is optimal for fluorescent imaging.

Press ENTER

- STEP 6. Turn ON Power to Digital Camera. Camera is located at the top of the microscope.

The OFF/ON switch is located on the back of the camera.

Press Switch to ON. Note: LED will not come until computer is started.

- STEP 7. 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 8. Press QCapturePro6 Icon to start ImagePro software
- STEP 9. 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 10. 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 RD UPRIGHT 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 DM RD Camera Control Unit.
- STEP 4. Turn OFF Power to Microscope.
Note: Two switches need to be turned OFF.
- STEP 5. Turn ON Mac5000 Stage Controller Power Unit.
- STEP 6. Turn OFF Mercury Burner HBL100 Power Supply Unit.
- STEP 7. Turn OFF Power Strip.

Sign OFF in Log Book!!!