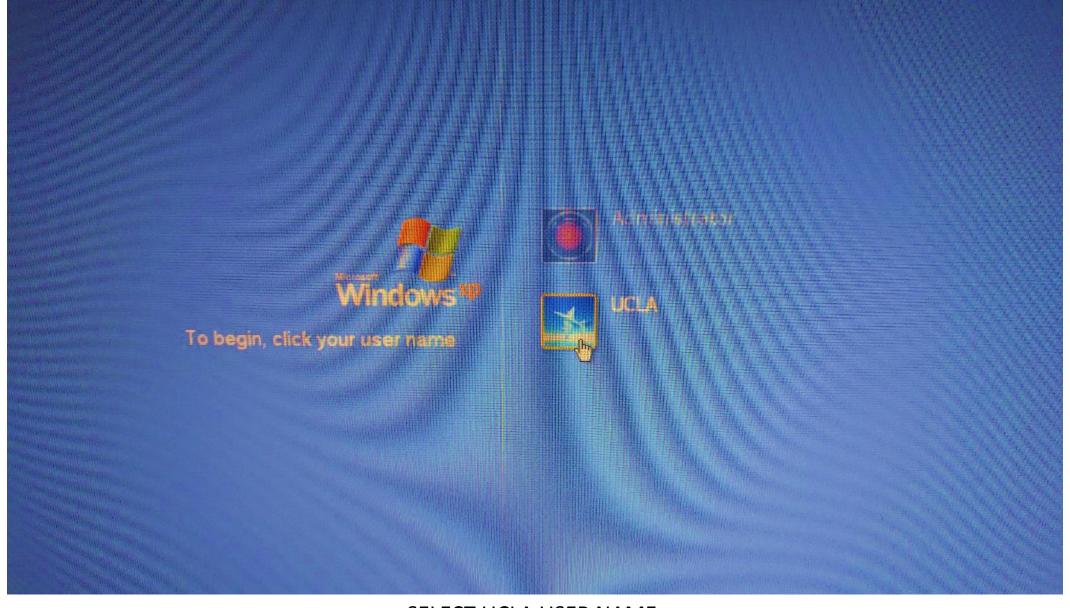
OPERATING THE KORIMA PRS 1000 UV MICROSCOPE

MICHAEL COLLAZO (805) 982-0606
THIS DOCUMENT IS A REFRESHER
THIS MICROSCOPE IS RESTRICTED TO USERS OF THE CORE
ONLY USE IF YOU HAVE BEEN TRAINED BY 106 STAFF



SELECT UCLA USER NAME. NO PASSWORD REQUIRED.



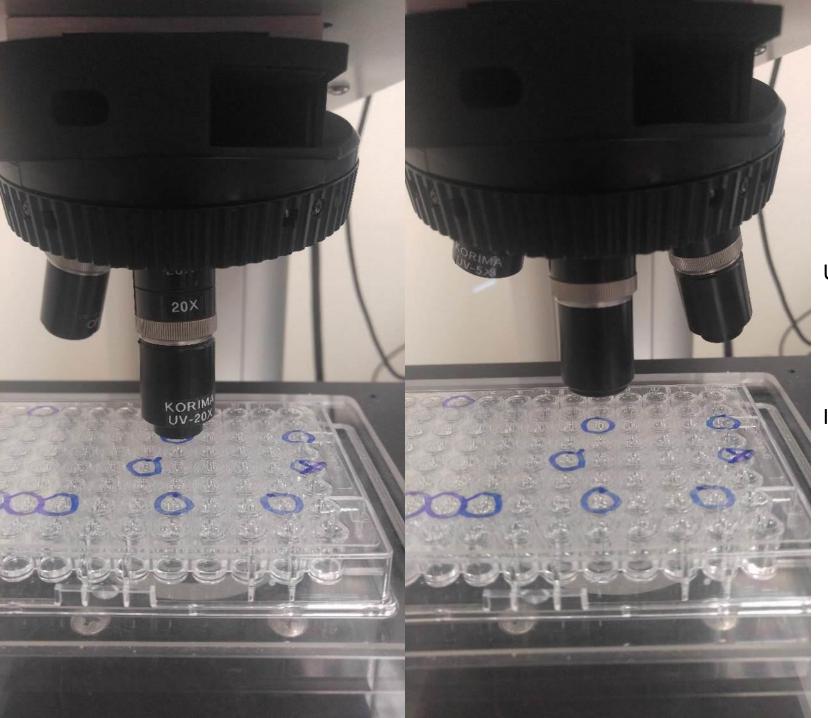
THE MERCURY BULB POWER SUPPLY AND HAMAMATSU (UV) CAMERA CONTROLLER SHOULD BE IN THE OFF POSITION. LOOK TO SEE HOW MANY HOURS ARE ON THE TIMER. THESE ARE LAMP HOURS.

Name/P.I. J. Doe / D. Joe	Date 03/25/11	Start Time 03:00:00 PM	Finish Time 03:15:00 PM	UV Lamp Hours 60.3-60.4	A A A	
Clubb/Chris	04/09/18	11; YOAM	11:50Am	71.6-71.7	1 1	
(lubb/Chri	04/09/18	4:5.00	3:01pm	71.9-721	1 1	
(lust / chri	an/11/18	6: 43,~	6:50yn	72.1-17.2	1-1	
Clubb/Chris	04/13/18	1:50pm	1;58 pm	72.2-724	11	
Clubb/Chris	04/18/18	6:3) VM	6:38812	72.4-725	VV	
Justin/yeates	04/24/12	10:00 AM	10:10 AM	72.5-72.5		
Kyle / yeates	4/26/18	2:20 p.m.	2:40 pm	72.6 - 73.0	1 1	
Mcaghan/Bowie	4/26/18	3:50.pm	4:10pm	73.1-73.4	7 7	
Mark / Yeates	5/1/17	9:50	9:55	71.4-735		
Alan McEvoy	5-1-18	10:50	10:55	73.5-73.6	11	
	5.41-18	2:45	2:56	73.6 738	11	
Justin (yeates		*		*		
		Do not turn off	the computer			

CHECK THE LOG TO SEE WHEN THE BULB WAS LAST ACTIVE. THE HOURS LAST RECORDED SHOULD MATCH THE LAMP HOURS. RECORD YOUR NAME/PI, DATE, START TIME, INITIAL LAMP HOURS.



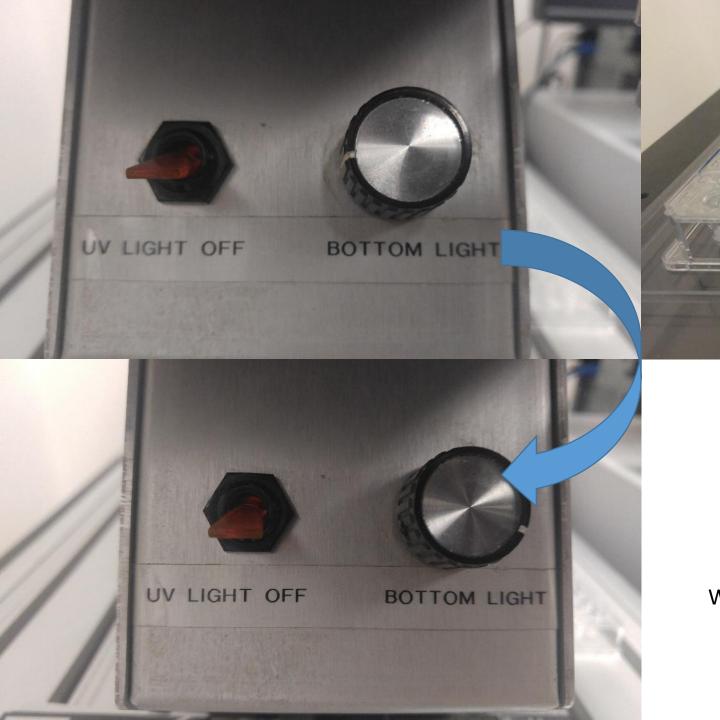
TURN ON THE MERCURY BULB AND CAMERA CONTROLLER IN ANY ORDER. (NO SEQUENCE REQUIRED)

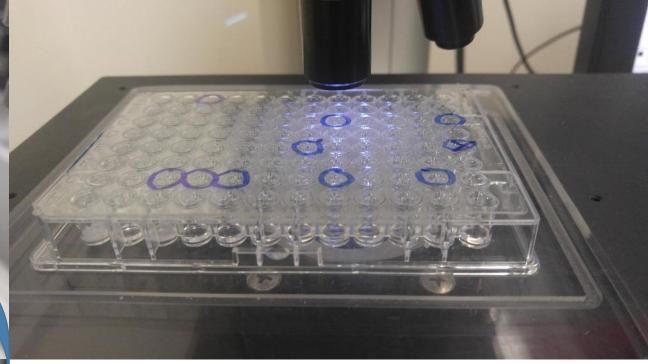


IT IS A GOOD IDEA TO PLACE YOUR TRAY UNDER THE LARGEST OBJECTIVE TO POSITION THE WELL IN THE CORRECT PLACE.

NEXT SWITCH TO THE MIDDLE OBJECTIVE.

IT IS EASY TO FIND YOUR OBJECT OF INTEREST USING THE MIDDLE OBJECTIVE SINCE THE SMALLEST CASTS A SHADOW.

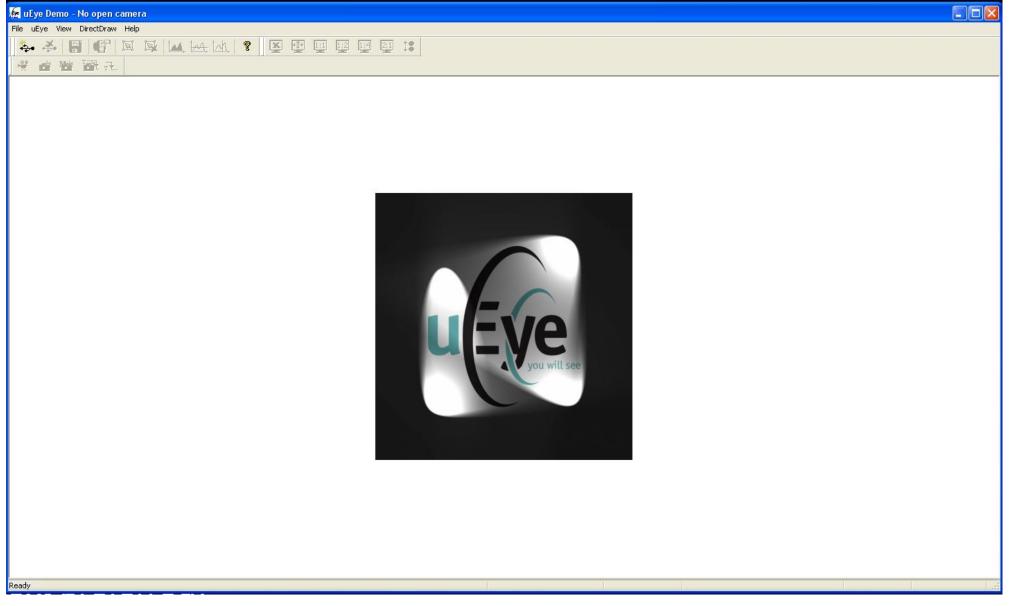




TURN ON THE LED LAMP BY ROTATING THE KNOB ON THE RIGHT CLOCKWISE.

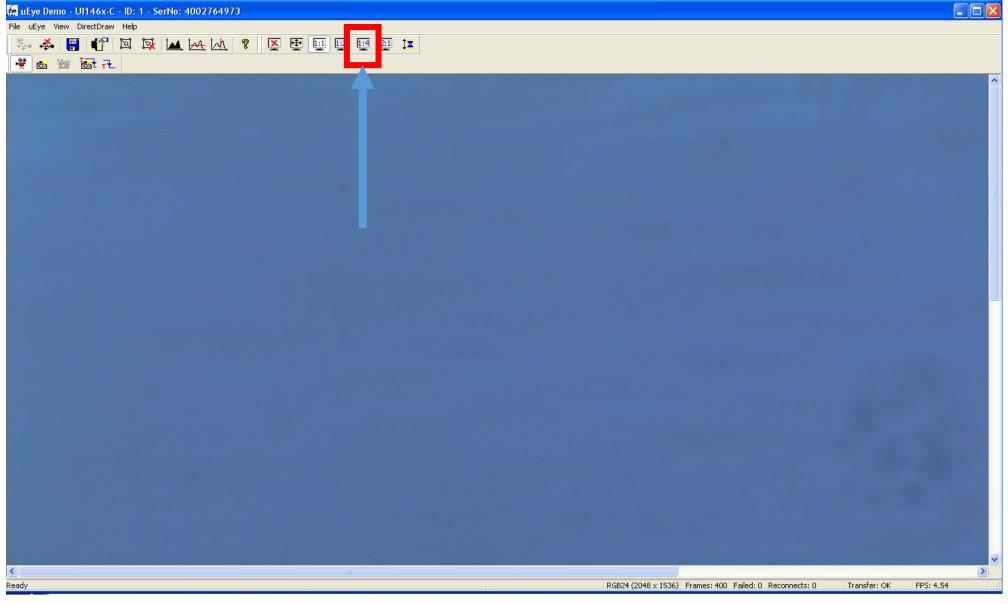
80% OF A FULL ROTATION GIVES A NICE AMOUNT WHEN VIEWING THROUGH THE MIDDLE OBJECTIVE.



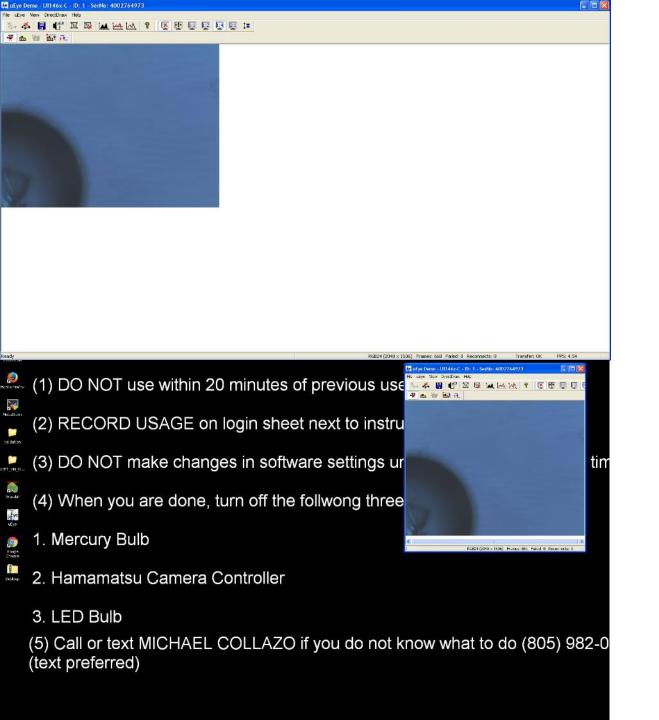


OPEN UEYE BY CLICKING THE SHORTCUT ON THE DESKTOP. SELECT THE USB ICON.



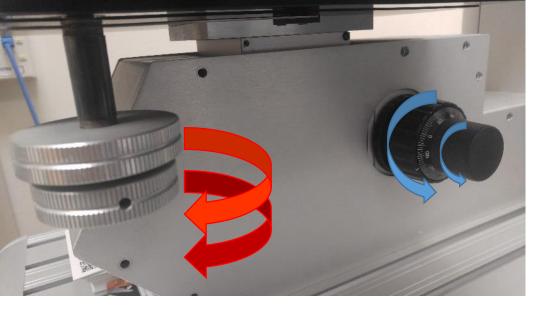


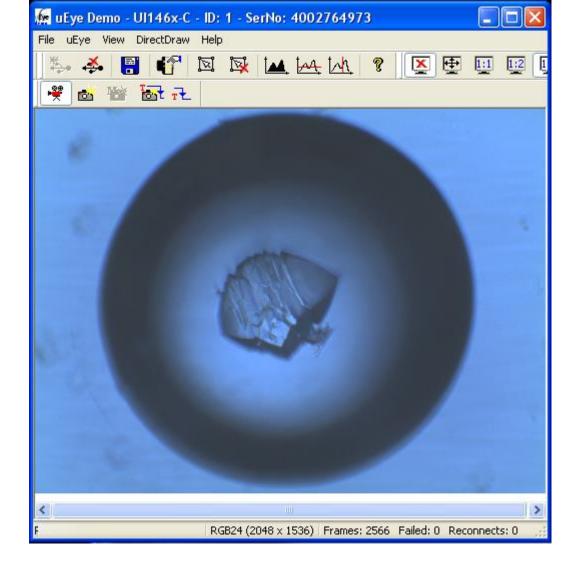
YOU WILL RECEIVE AN ERROR MESSAGE IF YOU FORGET TO TURN ON THE LIGHT. IF YOU DO, TURN ON THE LIGHT AND CLICK THE ICON AGAIN. NOW SELECT THE 1:4 RATIO SO YOU CAN USE THE UV IMAGING SOFTWARE CONCURRENTLY.



RESIZE THE WINDOW TO THE SIZE OF THE FIELD OF VIEW.

MOVE THE WINDOW TO THE RIGHT OF THE DESKTOP.



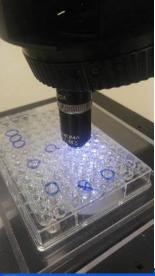


USE THE TWO MANUAL WHEELS (XY) ON THE MICROSCOPE STAGE TO CENTER YOUR DROP.

USE THE MANUAL ADJUSTMENT (COURSE AND FINE) TO FOCUS.

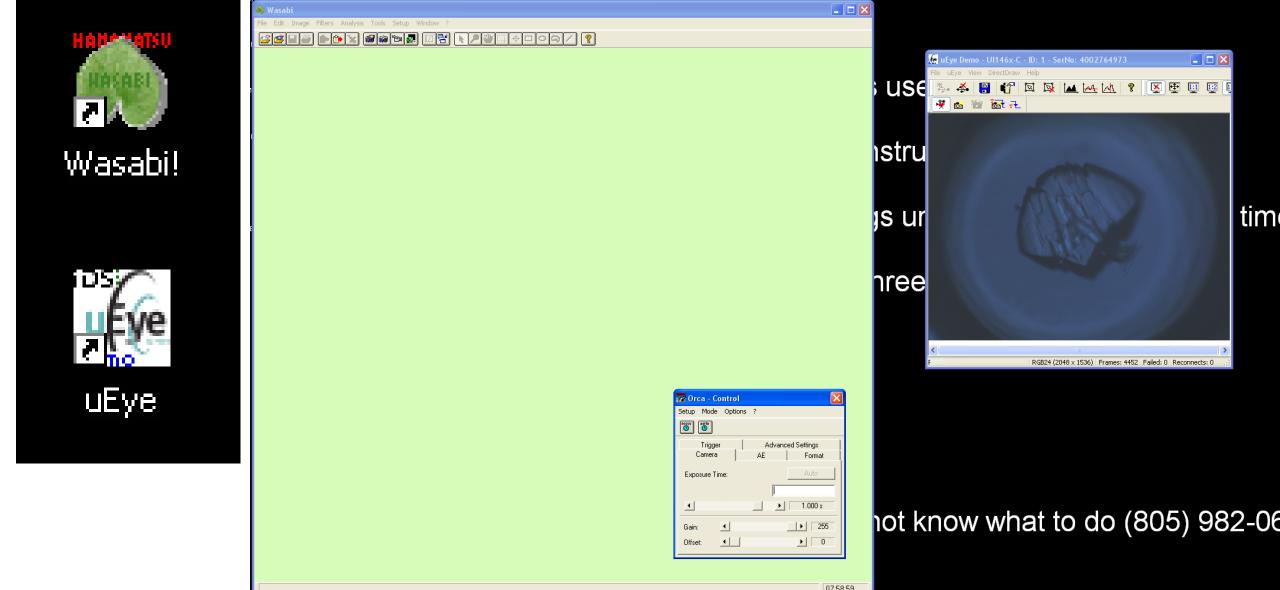
ADJUST LED INTENSITY IF NECESSARY USING THE MANUAL KNOB.

GO SLOWLY TO AVOID HITTING YOUR SAMPLE WITH THE OBJECTIVE.



SWITCH TO THE LARGEST OBJECTIVE. THE IMAGE WILL DARKEN.
TURN THE LED DIAL TO 100%.
RE-FOCUS THE MICROSCOPE AND CENTER YOUR OBJECT.
TO SAVE AN IMAGE SELECT "FILE" THEN "SAVE".





OPEN WASABI BY CLICKING THE WASABI SHORTCUT ON THE DESKTOP. IF YOU DID NOT REMEMBER TO TURN ON THE HAMAMATSU CAMERA CONTROLLER A WHITE ERROR BOX WILL APPEAR.

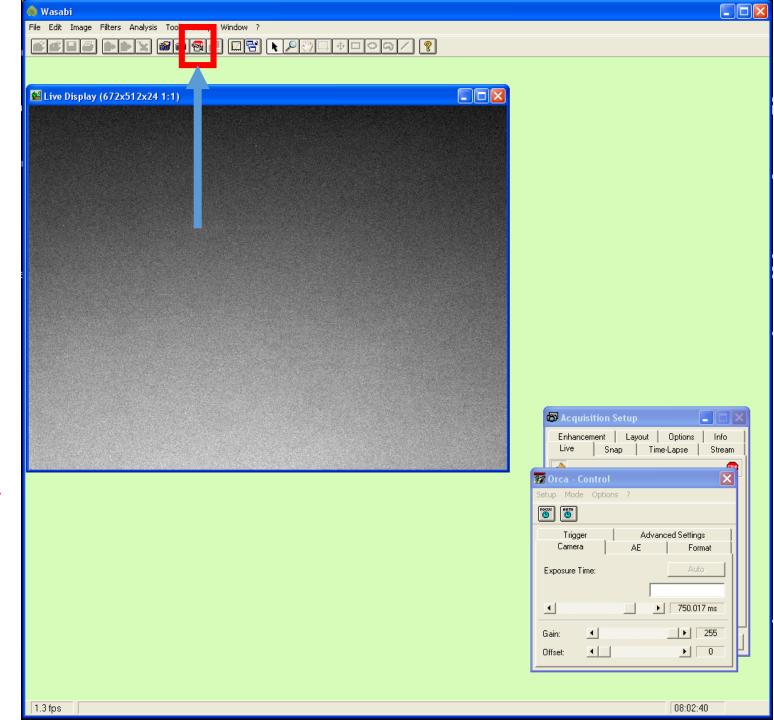
CLOSE THE SOFTWARE AND TURN ON THE CONTROLLER IF THIS HAPPENS. REOPEN THE SOFTWARE. IF YOU HAVE DONE EVERYTHIGN CORRECTLY ONLY THE ORCA CONTROL BOX WILL APPEAR.

IN WASABI CLICK THE CAMCORDER ICON
A WINDOW WILL APPEAR WITH A FAINT
BACKGROUND THAT REFRESHES WITH EVERY
FRAME. IF YOU SEE A PURE BLACK BACKGROUND
CLOSE THE SOFTWARE AND REOPEN.

AT THIS POINT YOU SHOULD SEE NOTHING
BECAUSE THE MANUAL SHUTTER IS CLOSED. THE
MANUAL SHUTTER PREVENTS BLEACHING OF
CRYSTALS (UV DAMAGE). IT IS A GOOD IDEA TO
KEEP CRYSTALS FROM RECEIVING MORE THAN 30
SECONDS OF UV EXPOSURE.

!! NOTE !! MANUAL SWITCH OPENS THE SHUTTER.
THE ORCA CONTROL IS ONLY FOR THE CAMERA.

IT DOES NOT CONTROL HOW MUCH UV YOUR SAMPLE IS REALLY EXPOSED TO.





🥦 Wasabi

SHUT OFF THE LED LAMP BY ROTATING THE DIAL.
OPEN THE UV SHUTTER BY FLIPPING THE MANUAL
SWITCH. IT WILL ILLUMINATE WHEN OPEN. SAMPLE
IS NOW EXPOSED TO UV UNTIL YOU TURN IT OFF.

ADJUST THE ORCA CONTROL EXPOSURE TIME.

1.5 SECONDS IS A GOOD AVERAGE VALUE.

SMALL CRYSTALS WILL NOT BE ABLE TO BE
RESOLVED FROM BACKGROUND IN MANY CASES.

YOU MAY INCREASE UP TO SEVEN SECONDS OF
EXPOSURE IF NEEDED. LARGE CRYSTALS MAY FLOOD
THE CAMERA AND MAY REQUIRE ms EXPOSURE.

File Edit Image Filters Analysis Tools Setup Window ? 👱 ھ 🚳 🚳 🔟 🖶 🔎 Live Display (672x512x24 1:1) Acquisition Setup Enhancement Layout Options Time-Lapse 😿 Orca - Control FOCUS AUTO Trigger Camera Exposure Time: ▶ 1.500 s ▶ 255 **)** 0

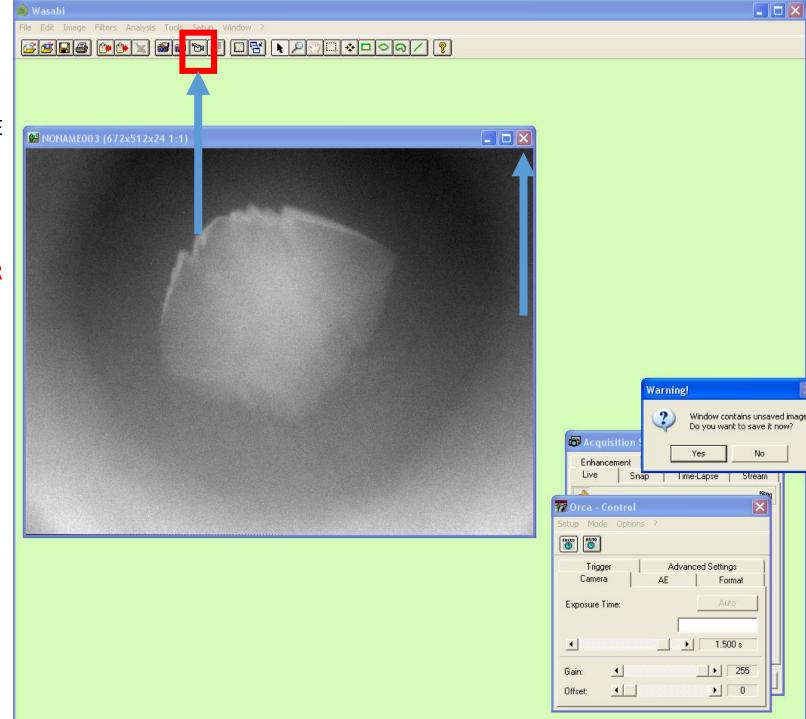
DO NOT CHANGE OTHER SETTINGS.

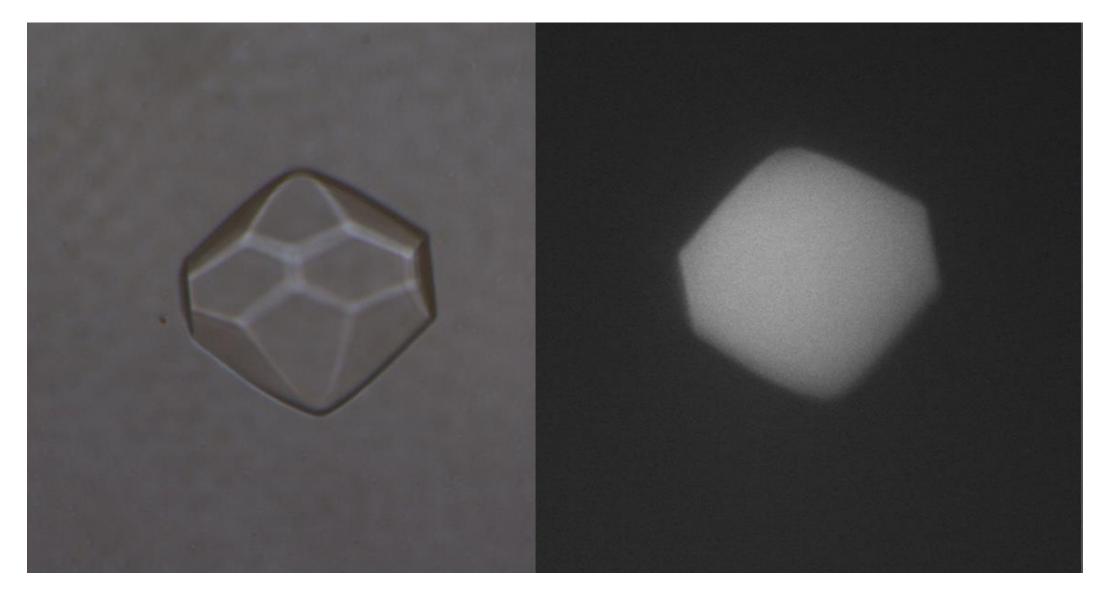
AFTER YOU ARE SATISFIED WITH THE EXPOSURE WAIT FOR A SINGLE FRAME TO APPEAR AND CLICK THE CAMCORDER ICON AGAIN. AN IMAGE WILL BE TAKEN.

FLIP THE SHUTTER TO THE OFF POSITION AFTER THE IMAGE APPEARS. DO NOT FORGET TO DO THIS OR YOU WILL DAMAGE YOUR CRYSTAL.

TO SAVE THE IMAGE, ATTEMPT TO CLOSE IT BY CLICKING THE X ICON. A DIALOGUE BOX WILL APPEAR AND ALLOW YOU TO SAVE IT IN THE FOLDER OF YOUR CHOOSING.

IMAGES ARE ERASED AFTER A MONTH. MOVE THEM FROM THE DRIVE TO A PERMANENT LOCATION IF YOU WANT TO KEEP THEM.



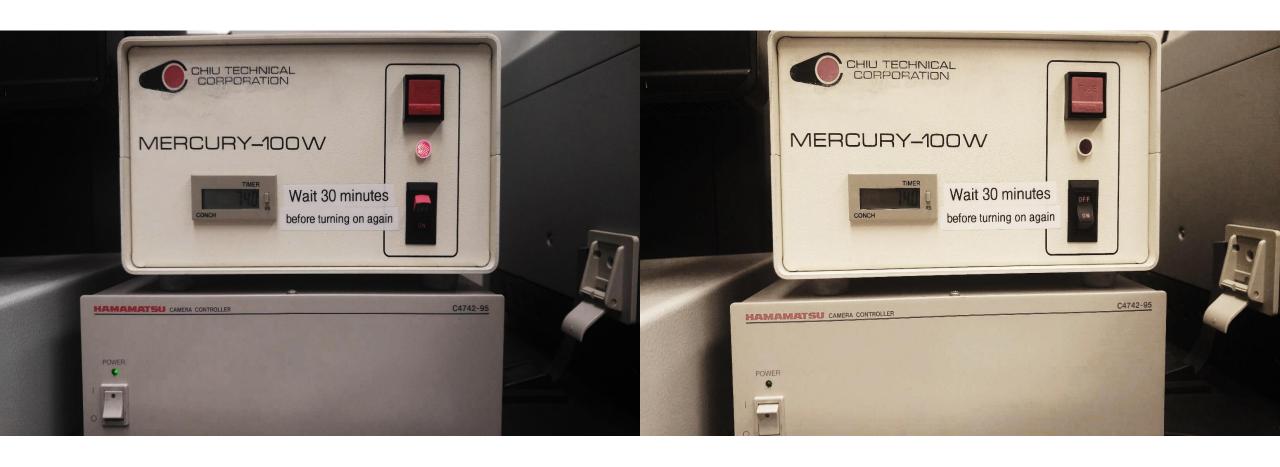


REPEAT FOR AS MANY CRYSTALS AS YOU ARE INTERESTED IN VIEWING. DO NOT WASTE LAMP HOURS.

WHEN YOU ARE DONE CLOSE WASABI AND UEYE.

MAKE SURE UV SHUTTER AND DIAL ARE CLOSED.

!! MOST IMPORTANTLY !!: TURN OFF MERCURY BULB AND HAMAMATSU CAMERA



MAKE SURE UV SHUTTER AND DIAL ARE CLOSED.

!! MOST IMPORTANTLY !!: TURN OFF MERCURY BULB AND HAMAMATSU CAMERA.
YOUR PI WILL BE CHARGED FOR THE LAMP IF YOU FORGET.

https://www.fishersci.com/shop/products/ush-102d-mercury-bulb-100w/nc0075362

	Clubb/Chri	04/11/18	6: 43,~	6:50yn	72.1-17.2	11
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	Collazo	5/10/18	6:30 AM	635 AM	74.0-74.2	V V
			Do not turn off t	he computer		
				Page 1		
26.055	OF THE COMPLETED IT	ACCORD THE E	ALD TIME FINE		IDC AND INDICA	

LOG OFF OF THE COMPUTER. RECORD THE END TIME, FINAL LAMP HOURS, AND INDICATE WITH CHECKMARKS WHETHER THE UV AND CCD (HAMAMATSU CAMERA CONTROLLER) IS TURNED OFF.

CONGRATULATIONS! YOU HAVE USED THE INTRUMENT CORRECTLY AND HOPEFULLY GOTTEN USEFUL RESULTS.