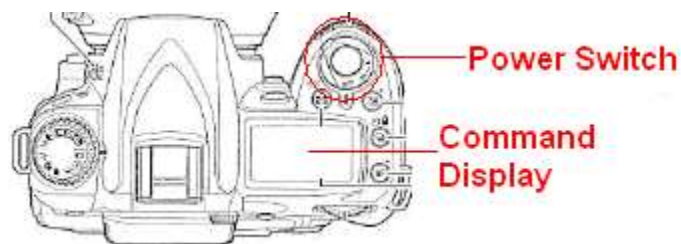


Using the Microscope Imaging Complement: Nikon SLR SGM 2/17/2009

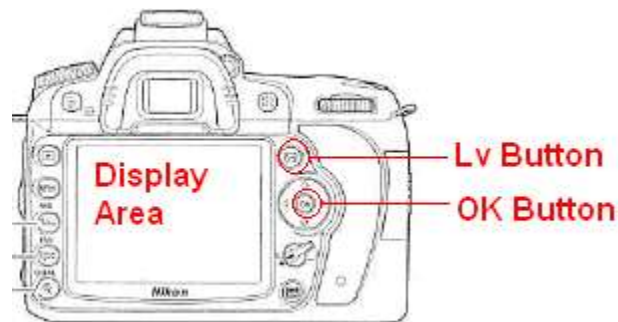
The imaging system used for this microscope is a standard digital SLR camera. Settings have already been done to this camera for optimized image capture with the microscope. Do **NOT** change, adjust or experiment with any other setting than those described below. While this lab normally does not charge for broken equipment, we may charge you if this camera is broken.

- **Turning on the device:** To turn on the device, locate the power switch (as shown in diagram) and switch it to the 'on' position.



Make sure that the device is in 'Standard' mode – there should be an 'S' in the top right corner of the command display. Refer to the section on 'multiple image capture' if you are unsure.

- **Viewing the Image:** To view images on the display area, press the 'Lv' button once.



Press the 'Lv' button again to turn off the display.

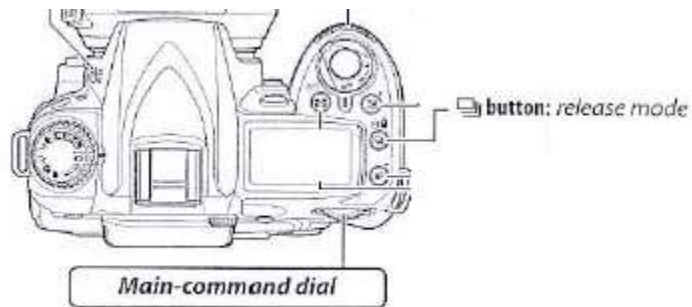
Important: Turn off the display when you are not using it as it heats the camera and can damage it.

- **Single Image Capture:** For single image capture, press the shutter button all the way down once. Make sure that the light level on the microscope is at a moderate level.

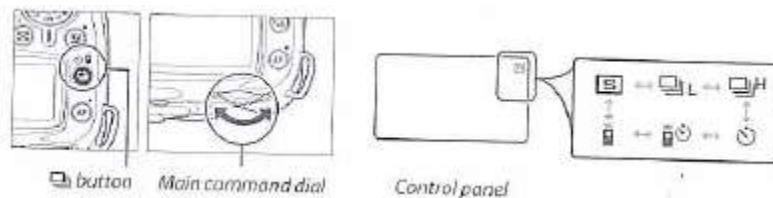


- **Multiple Image Capture:**

- For multiple image capture, identify the release mode button and the main command dial.



- Press and hold the 'release' button while turning the Main-command dial to switch to 'L' or 'H' mode.

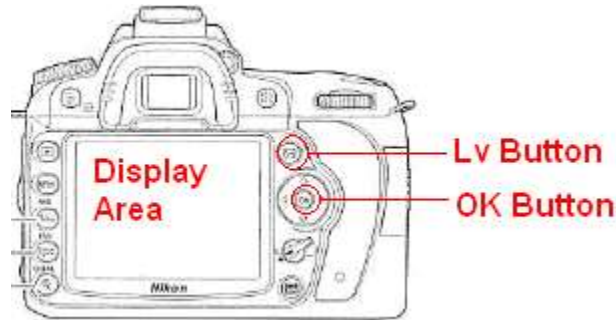


'L' mode will take 2 pictures per second and H mode will take about 4.5 images per second.

- To capture the picture, press and hold the shutter button until you have taken enough pictures. The camera will continue to take pictures until to release the button.
- When you are done, press and hold the 'release' button again, and return it to 'S', the standard mode.

- **Video Capture:**

- Make sure that you are viewing an image in the display area by having pressed the 'Lv' button.
- When you are ready to take a video, press the 'OK' button.
- Press the 'OK' button to end video capture.



- **Downloading Images and Videos on to a PC:**

- First, log into the PC next to the microscope and camera and wait for the log in process to complete. A USB cable should already be connected to the monitor.
- Open the rubber flap on the left side of the camera, and insert the small end of the USB cable into the appropriate port. If the display is on, it will turn off. You cannot use the display and see your files on the computer at the same time.
- Wait a few minutes and then open 'My Computer' on the computer's desktop. You will see an icon for "D90".
- Double click this icon to open the folder with all of the images and videos on the camera.
- Copy the pictures into the appropriate locations, and make sure to delete all images when you are done.