

Operating Instructions for Colour Photography on CCD3

Start up:

- Turn on big green rocker on microscope
- Fit appropriate holder to stage and insert slide upside down into holder
- select appropriate objective lens

View image with binoculars:

- Turn knob on lower LHS of microscope to VIS
- Press HAL button on bottom RHS of microscope (you will probably need to turn the light intensity up with rocker switch on front of scope).
- Set phase wheel on condenser to H
- Colour filter may tint your image, but ignore as it will not be recorded by the camera.

View/capture images with Canon 'Image' software

- Log into computer
- Plug in power supply and turn Canon digital camera on (camera is mounted upside down, so you will need to 'feel' for on/off lever next to dial)
- Dialogue box will appear asking what software to open; just cancel
- Set binocular eyepieces so white lines match white dots (=parfocal)
- Turn knob on lower LHS of microscope to FP
- Turn up light above 10.3V to get correct colour temperature (3200K)
- Turn wheel on LHS to 50/50 setting (put back to 100% after session!)
- Double click Remote Capture icon and click on Shooting Modes Adjustment tab:
 - Make new folder on D-drive and specify the filename and path
 - Set ISO shutter speed to about 200
 - Set white balance to Tungsten
 - Set 'TV' setting roughly between 1/80 and 1/250
 - Specify quality, e.g. Large/Fine 3072 x 2048 or Small/Fine 1536 x 1024
 - Time-lapse is also an option
- NB: No live preview available
- Capture image, adjust 'TV' setting up/down if image too dark/bright
- Copy folder containing captured images from D-drive to your network drive

Finishing the session

- Delete your folder on D-drive
- Log out of computer
- Clean lenses with lens tissue if necessary
- Turn off Canon digital camera
- Turn off microscope
- Turn wheel on LHS back to 100% setting