

# Instructions for Gatan K2 Camera

Prepare gain reference:

- Click the 'Camera' tab in Digital Micrograph and select 'Prepare Gain Reference'
- Following the on screen instructions to prepare both linear and counting (super-resolution) gain reference. Always collect new dark gain before collecting super-resolution gain reference.
- The new gain reference will be good for about a week, but you should collect dark gain reference more frequently (twice a day or even more).

You may need to re-boot the K2 system, if you cannot:

- Insert the camera
- Find beam and you are sure the beam is not blocked by any other things (e.g. beam misalignment, misaligned objective aperture, thick ice or grid bar)

To re-boot K2 system:

- In Digital Micrograph, click the camera configure icon (the little wrench and hammer next to the 'Health Status' button)
- Open the 'View book log' window and then click 'system off' tab.
- Click 'OK' on bottom right of the camera configure window
- Close Digital Micrograph
- Turn off the Digitizer
- Turn off the K2 summit (in next room)
- Wait about one minute, then turn on the K2 summit
- Turn on the Digitizer, wait at least 3 minutes before start the Digital Micrograph
- Wait while the camera is starting up, this could take a few minutes. It's will also load most recent gain references to summit. If you are going to collect new gain references, you can skip the loading to save a few minutes

If you have any questions or problems, contact Zongli or Sarah for help. Please don't try something out if you don't know what you are doing!