

TEM Tomography Instruction (Hitachi HT7800)

1. Load sample, turn on TEM and perform axis adjustment
2. Find an interesting area The best range is $-250\mu\text{m} < x < 250\mu\text{m}$
3. Find Z height : Click "lens reset", boost the 20x mag, click on wobbler and focus image by Z
4. Focus sample by using auto focus or focus knob
5. Click 3D tilt image acquisition in the Function to display the 3D tilt image acquisition TEM window.
6. Click the File, set quick save path of the images in the File to set save location and file name of the Tilt series images.
7. Click 3D tilt image acquisition in the Function to display the 3D tilt image acquisition TEM window. Click Condition on the menu bar and set the following conditions.
 - Select sequence: auto
 - Select tilt speed: slow
 - Click on ISF condition at the photographing magnification and angle 0
 - Confirm that the Feedback correct is checked
 - Image reset count: 2
 - Tracking correlation mode: whole area search
 - ISF correlation mode: whole area search
 - Whole matching size: 1024x1024
 - Template matching size: 1024x1024

12. Input start angle, finish angle, capture step degree, click start