


# EBSD Operating

## **!! Attention !!**

- DO NOT CALIBRATE THE SYSTEM IF YOU DO NOT KNOW HOW
- NEVER VENT THE CHAMBER IF THE EBSD DETECTOR HAS NOT BEEN FULLY RETRACTED.
- DO NOT HOME STAGE WHEN THE DETECTOR IS INSERTED
- AVOID ANY POTENTIAL COLLISION TO THE EBSD DETECTOR.
- CHECK EBSD POSSIBILITY FOR SAMPLE SIZE UNDER TV CAMERA.
- WHEN DETECTOR IS INSERTED, ONLY USE MANUAL CONTROLS TO MOVE THE STAGE

electronic first

- $\lambda \Rightarrow ?$   
denoising pattern
- ① HT  $\Rightarrow 20kV$  (not necessarily)  
(pattern intensity)
  - ② WD  $\Rightarrow 20mm$
  - ③ aperture 3<sup>#</sup> (tilt off)
  - ④ Rotation / Tilt adj. ① Dynamics ② Tilt
  - ⑤ Gun Brightness 5 (high beam density)
  - ⑥ Cond. Lens (7<sup>#</sup>)  $\Rightarrow$
  - ⑦ 500X (OPS) treatment ferrite
  - ⑧ TV ~~tra~~ SEM at TV rate.
  - ⑨ Turn on Power of TSL,  
SEM  $\Leftarrow$  Switch! (WD. Z must be 20<sub>cm</sub>)
  - ⑩ Camera  $\Rightarrow$  homogenised intensity
- "1300x1030" Exposure time (change to "get white pattern",  
(0.01s).
- ⑪ 4x4 binning  
background image take at TV rate  
(no. patterns appeared)

"Calibration" 

put index  $\Rightarrow$  chose Gamma.

CI = above half.  
(Confidence index)

"memory" pattern.

"Menu" Scan.

save data ("orientation") only.

~~analysis (OIM analysis)~~

\* OSC (O scan file)

• OIM ( )

all data, right - click,

Low grain size

"Low magnification"

Y - Grain size

grain tolerance  
min. G.S. (pixel) "10"

"UPS"

"save prange"

⑫ collect.



IMP oksma

⑬ Turn on.

⇒ sub —

$\left( \frac{\text{fps}}{\text{frame per second}} \right)$  ungvild 1/10

⑭ International

settings

ski'uter "ski'utah"

✓ tilt correct.

change to 'OIM' control

⑮ enter magnification "manully" to get image

⑯ "phase" ⇒

"Load calibration file"

⑰ Hough (Binned Pattern size 96)  
Theta Selp Size "2" IQType Hough  
Max peak "8" Max "3"