Manual for Image-Pro Insight

1. Startup



Turn on the Laue camera. Start the Image-Pro Insight software.



The loading confirmation will be displayed if the camera is set up correctly. Click 'OK' to continue.

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Enter the User Interface. The toolbars are on the **top** and **right panels**.

2. X-ray Data Acquisition

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Set the time for exposure. Press 'Capture' to acquire X-ray signal.



A 16-digits map will be generated. It looks totally dark in the initial range (0-65535 Arb. Unit.).

<u>The typical background is ~1000 Arb. Unit.</u> <u>The typical X-ray diffraction signal is ~100 Arb. Unit.</u>

3. Display and Image Saving



Use **Best fit** (Default setting Low:50% High:1%) to automatically adjust the range.



The demanded Laue pattern will be displayed in a proper range (typically 1050-1150).



The image can be saved as JPEG by 'Share -> Snap'. The pixel scale bar can be dragged out of the image.



4. Background Subtraction

Take a background image.

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Various calculations including background subtraction can be achieved by the function: Adjust -> Calc -> Apply/New'