Extended Depth of Focus module
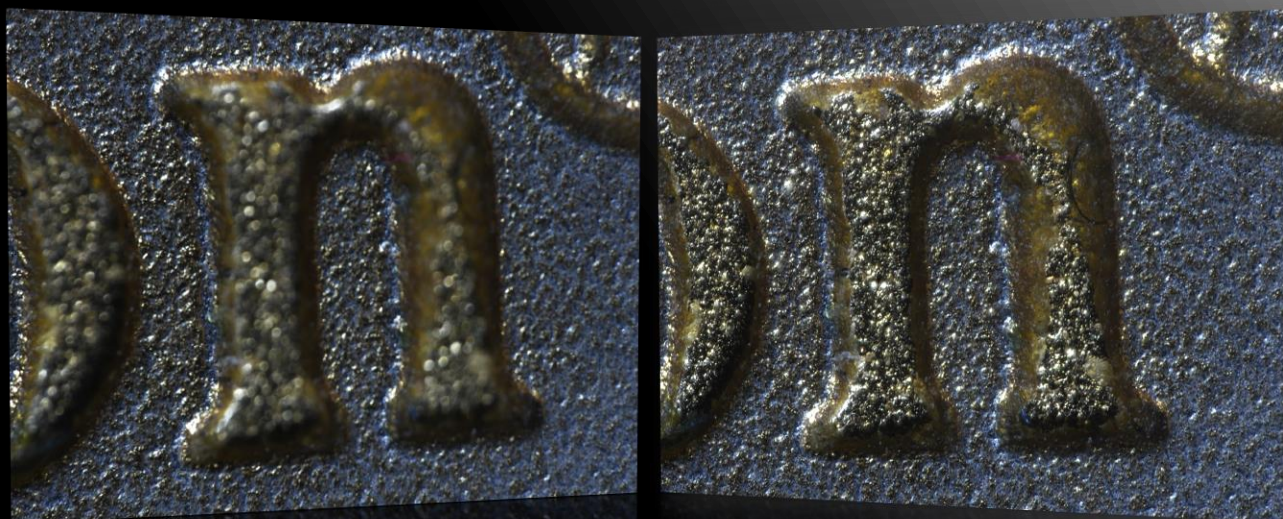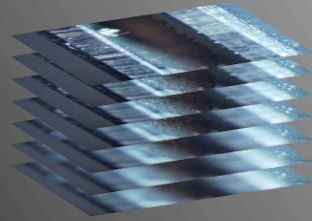
Discover more about the complete solution for EDF image acquisition
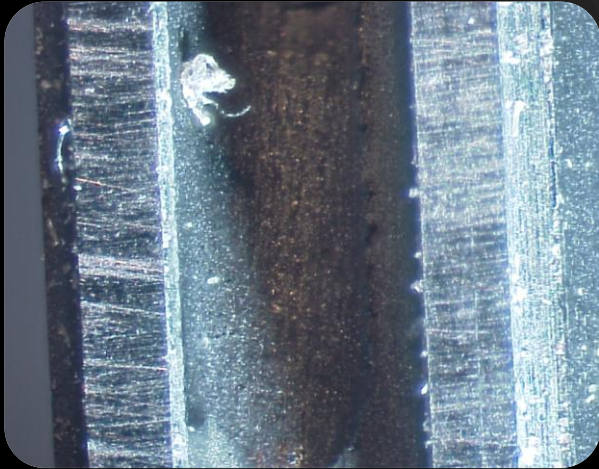
➢ Z-stack based functions

➢ Z-stack acquisition of 3D samples

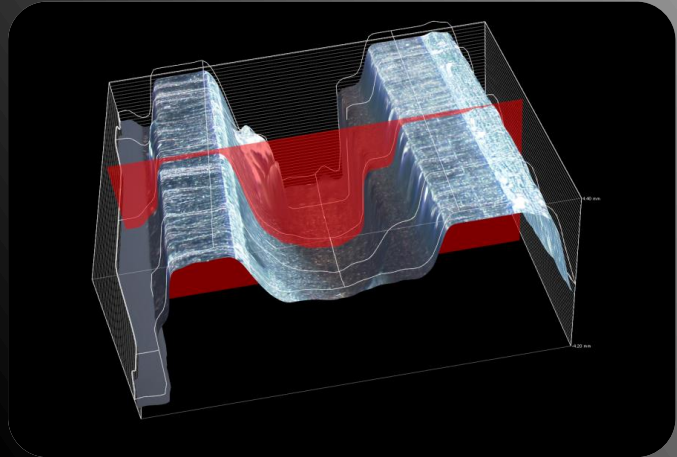- Fully automated (motorized) Z-Drive control
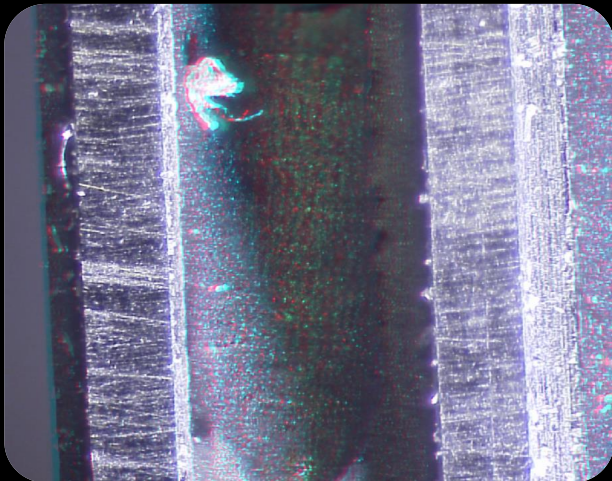- Manual focus support

➢ Output

- Focused image

- Surface view

- Anaglyph

- Video

NIS-Elements
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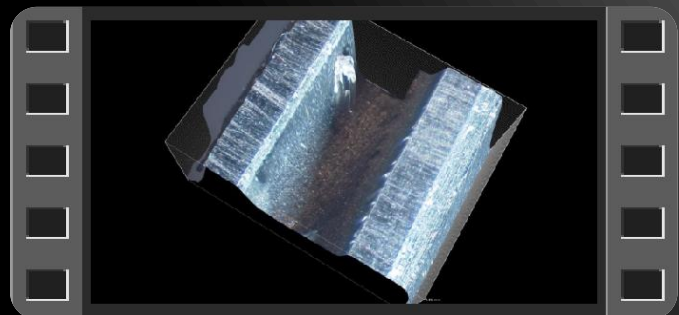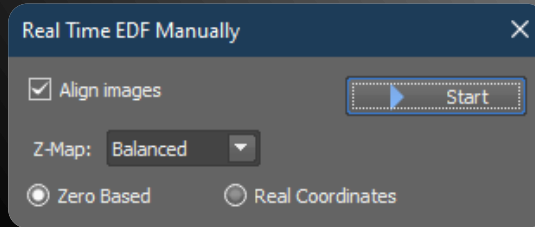
➢ Realtime EDF

➢ Automatic sample alignment for stereo-microscopes

- Fully automated (motorized) Z-Drive control
- Manual focus support
- Z-Stack alignment (optional)

➢ Save disk space

- Acquire EDF image without storing Z-sequences
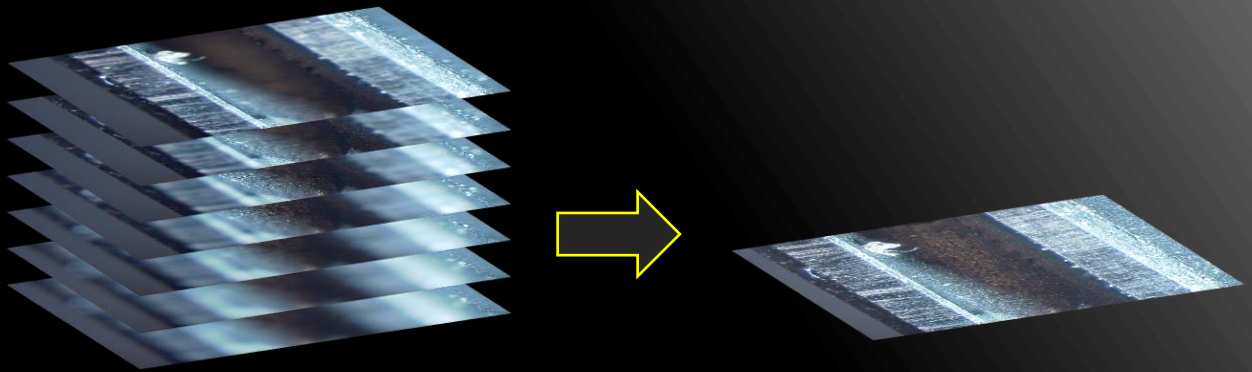
35MB   12MB

➢ Output

- Focused image

Z-stack alignment

➢ Available for Z-stack based and Real Time EDF

- Continuous live image alignment during acquisition
- Image Z-Stack sequence alignment capability
    - Parallax shift compensation for macro-optics and stereo-microscopes
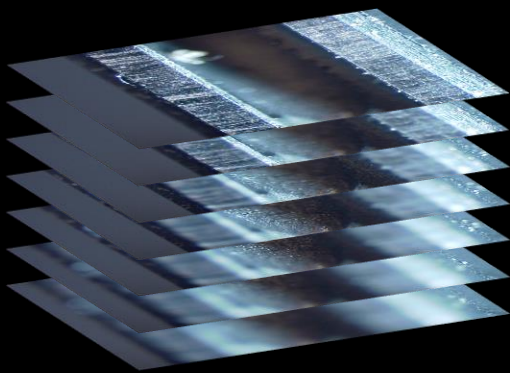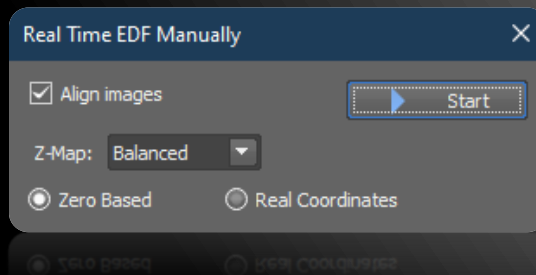
- Parallax shift
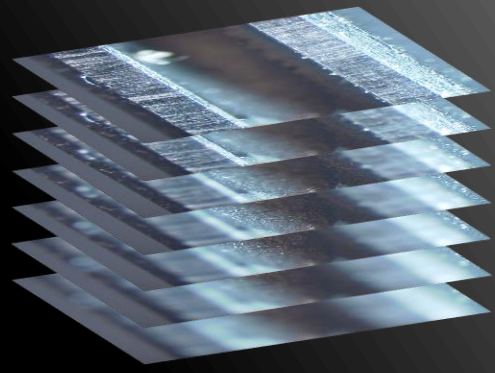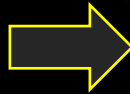
Aligned document

➤ **Visualize your data using Surface view**
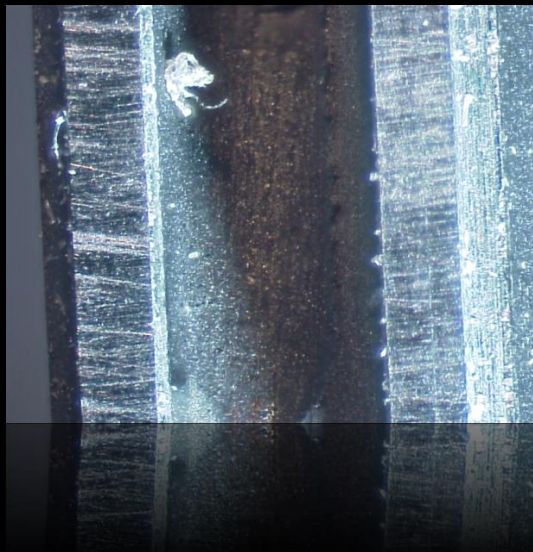
- Based on Z-Map

- Display captured EDF Z-stack in 3D

- Inspect the samples, zoom in and out, crop or rotate

- Export to VRML and STL file formats

- View 3D exported files in 3rd party image viewers
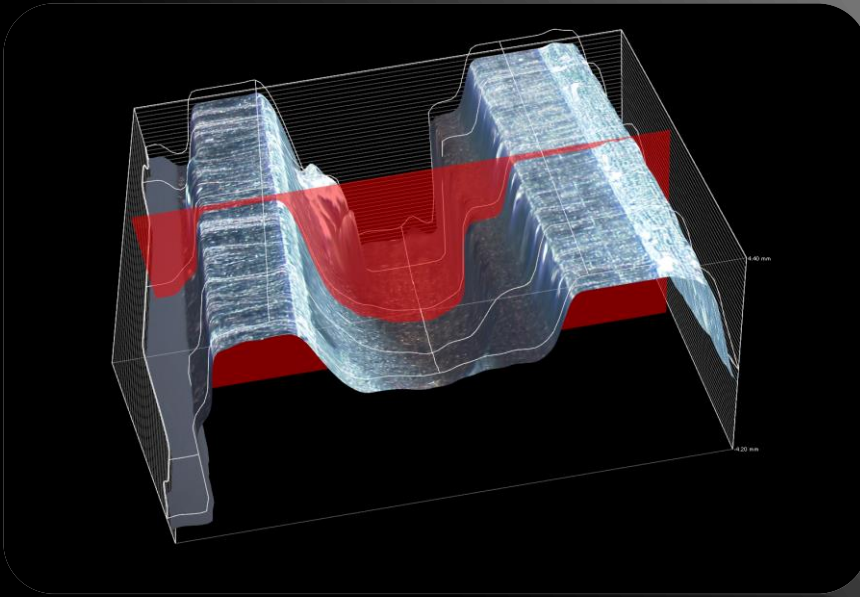
➤ **Measurement in XYZ (3D)**

- Profile measurement functions: distance, height

  - Zero-based

  - Coordinate based
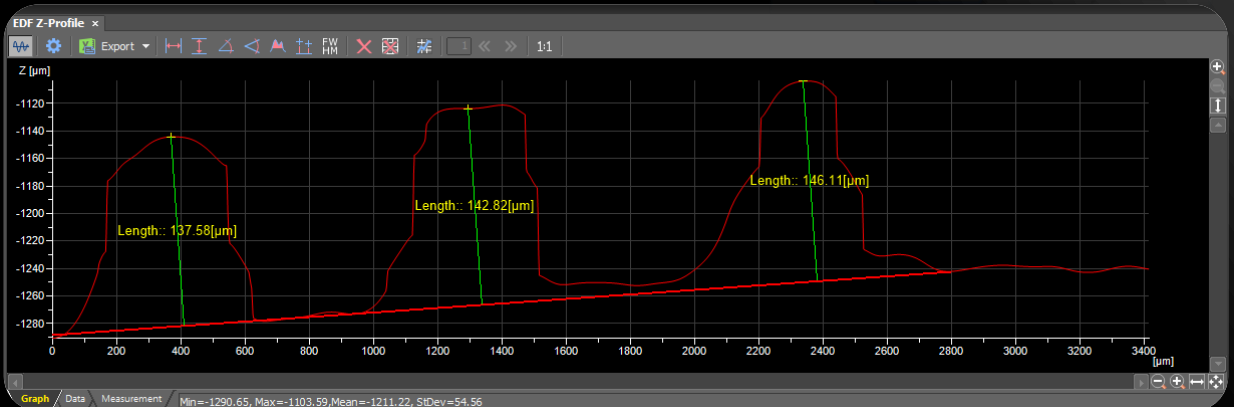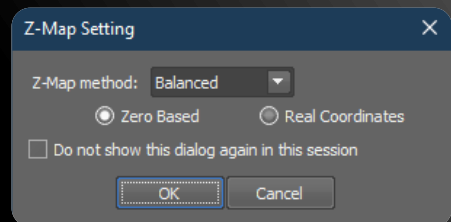
➢ View samples as 3D Anaglyph

- Present your samples in real 3D for better visualization
- Observe images in 3D using anaglyph glasses
- Save your anaglyph images, print them out and share with anyone
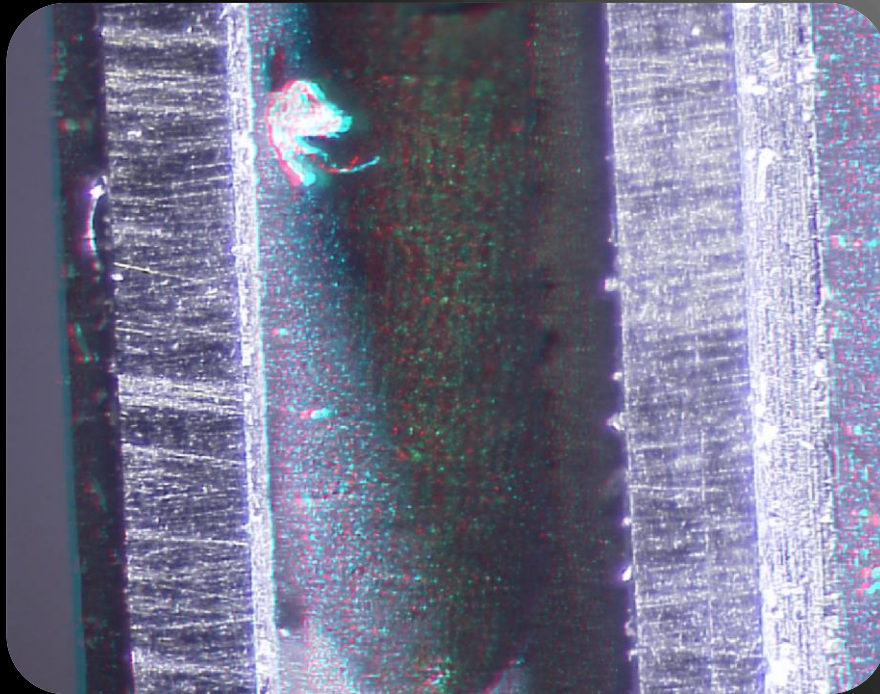
➢ Present your 3D samples virtually in video format

- Create short videos in Movie Maker
- Rotate, zoom in, focus on details to show on video
- Export videos in mp4 or avi formats

➢ Products required for this application

Module   Any of the software packages below

┌─────────────────────┐
│   │
│   │
│   EDF   │   +   **Ar**   **Br**   **D**
│   │   Advanced Research   Basic Research   Documentation
│   │
└─────────────────────┘
          EDF   NIS-Elements Advanced   NIS-Elements Basic   NIS-Elements D
                                      Research   Research

                               Optimized for advanced   Developed for standard   Software package for
                               research applications.   research applications   photo-documentation.
                               Nikon's flagship   such as analysis and   Includes basic
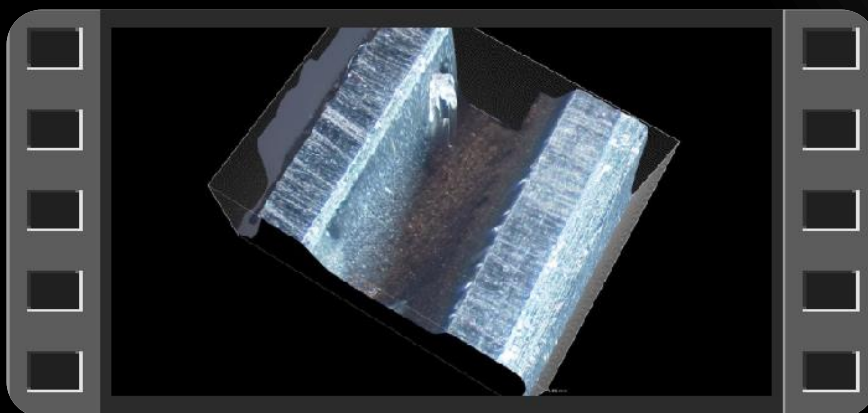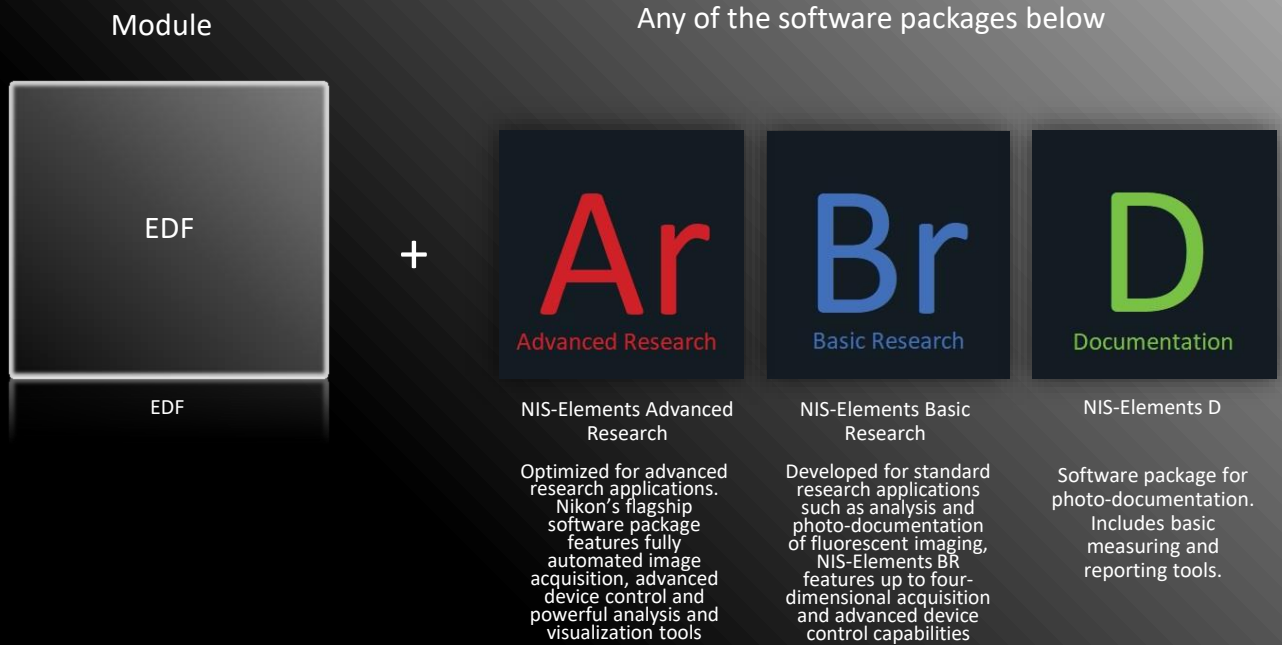   software package   photo-documentation   measuring and
                               features fully   of fluorescent imaging, reporting tools.
                               automated image   NIS-Elements BR
                               acquisition, advanced   features up to four-
                               device control and   dimensional acquisition
                               powerful analysis and   and advanced device
                               visualization tools   control capabilities

➢ Interested in finding out more about our product?

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   • Fax: +420 271 732 657

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