

# Extended Depth of Focus module



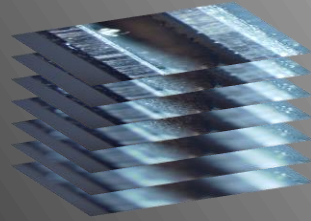
Discover more about  
the complete solution  
for **EDF** image  
acquisition



## ➤ Z-stack based functions

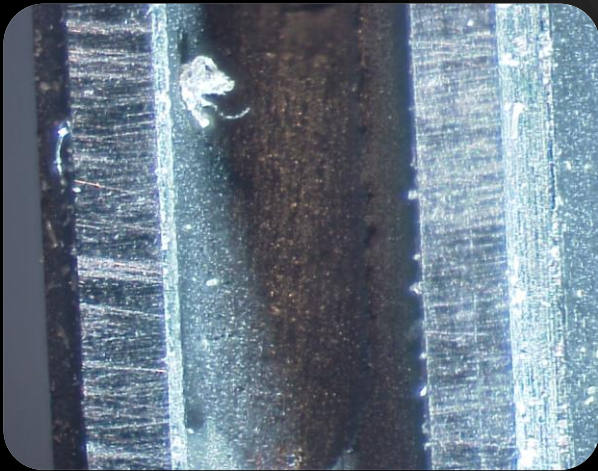
### ➤ Z-stack acquisition of 3D samples

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

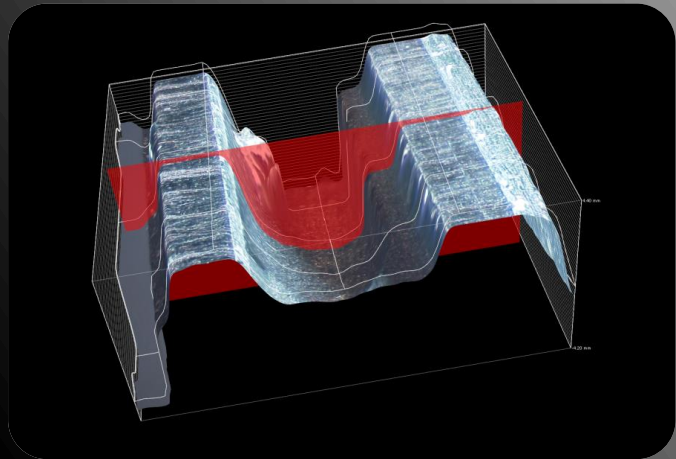


### ➤ Output

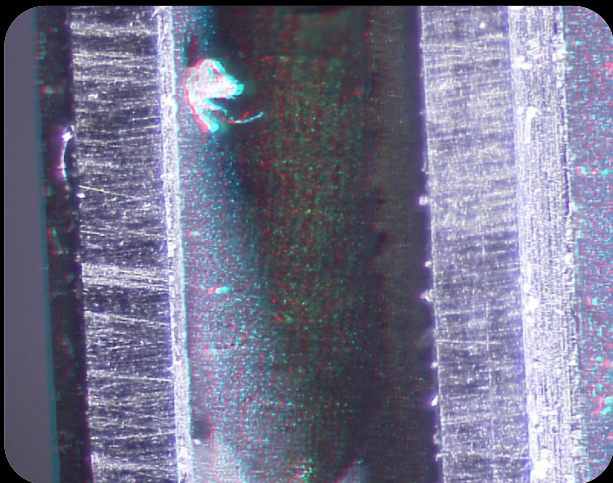
- Focused image



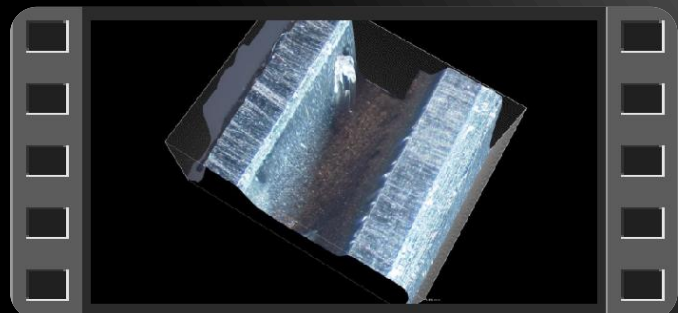
- Surface view



- Anaglyph

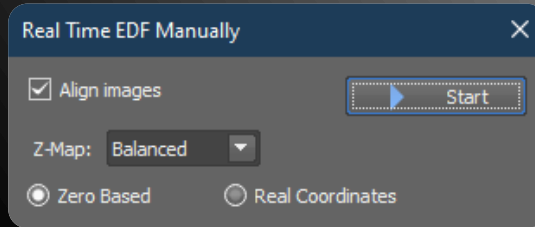


- Video



## ➤ Realtime EDF

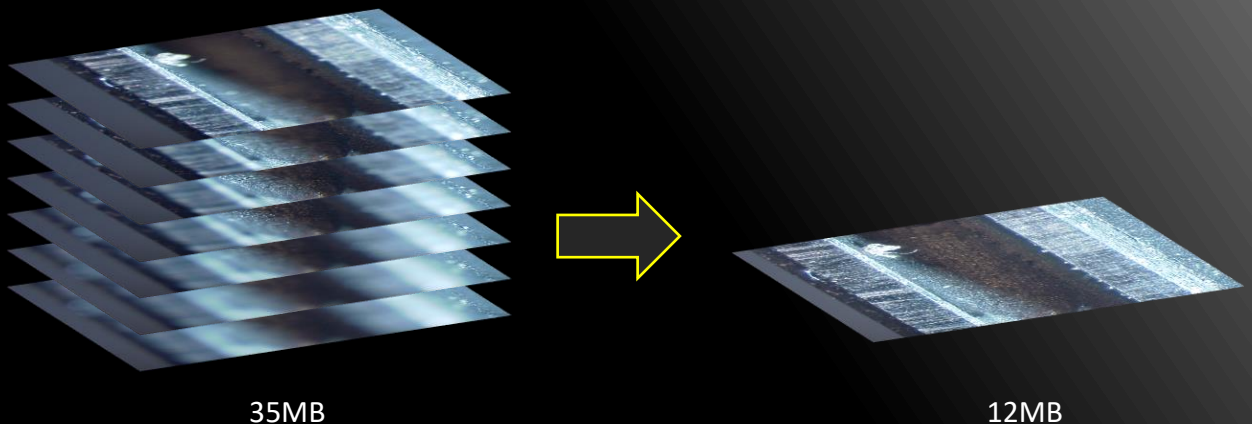
### ➤ Automatic sample alignment for stereo-microscopes



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

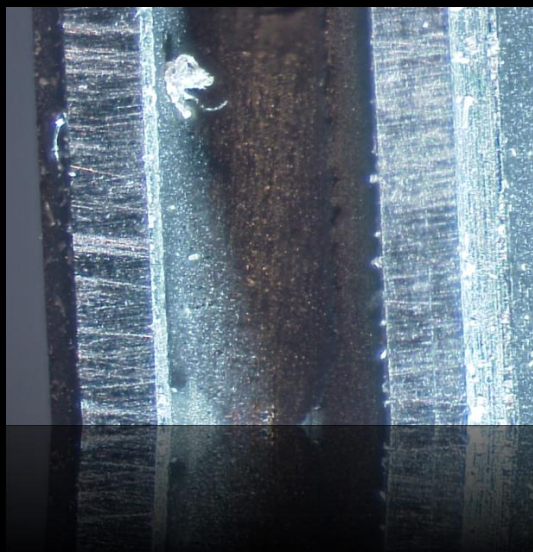
### ➤ Save disk space

- Acquire EDF image without storing Z-sequences



### ➤ Output

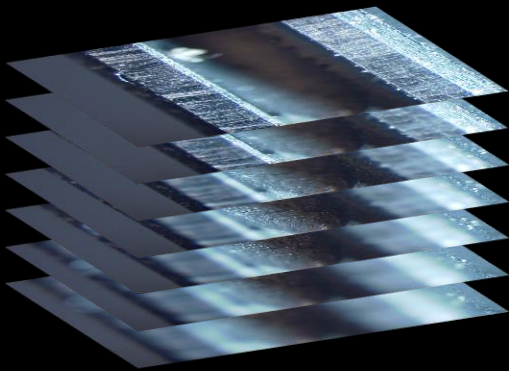
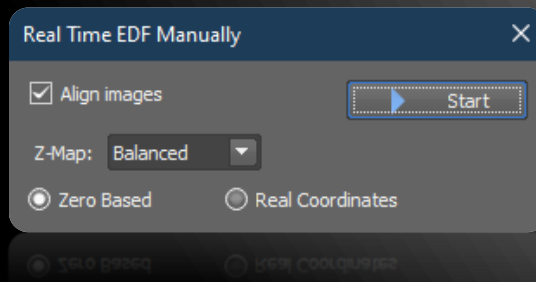
- Focused image



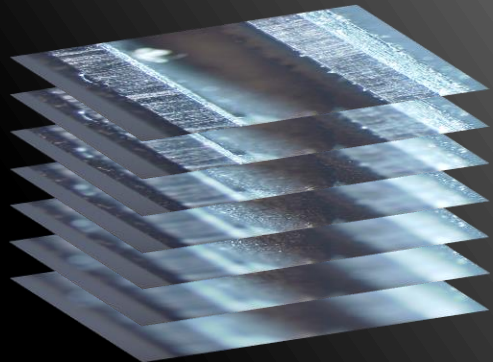
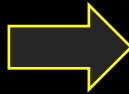
# Z-stack alignment

## ➤ 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

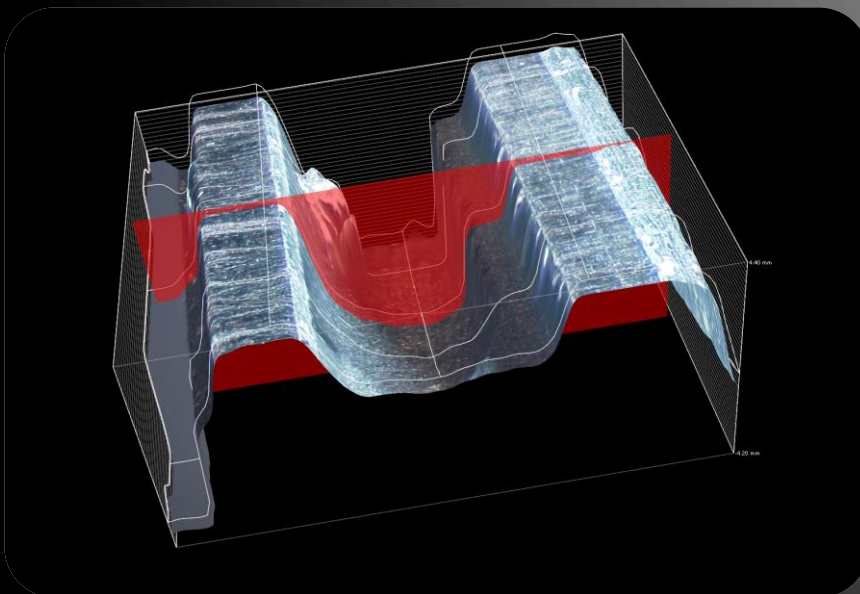


Aligned document



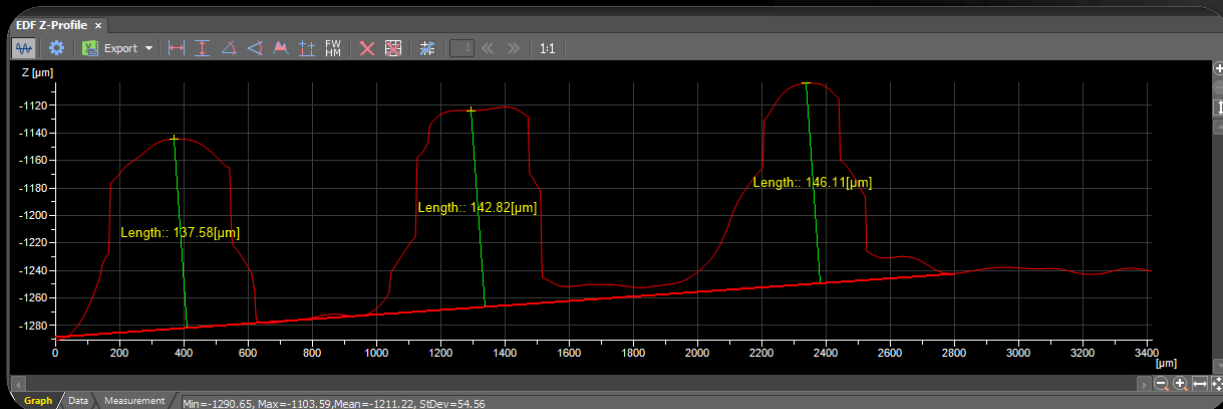
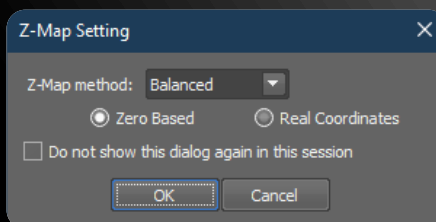
## ➤ Visualize your data using Surface view

- 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 3<sup>rd</sup> party image viewers



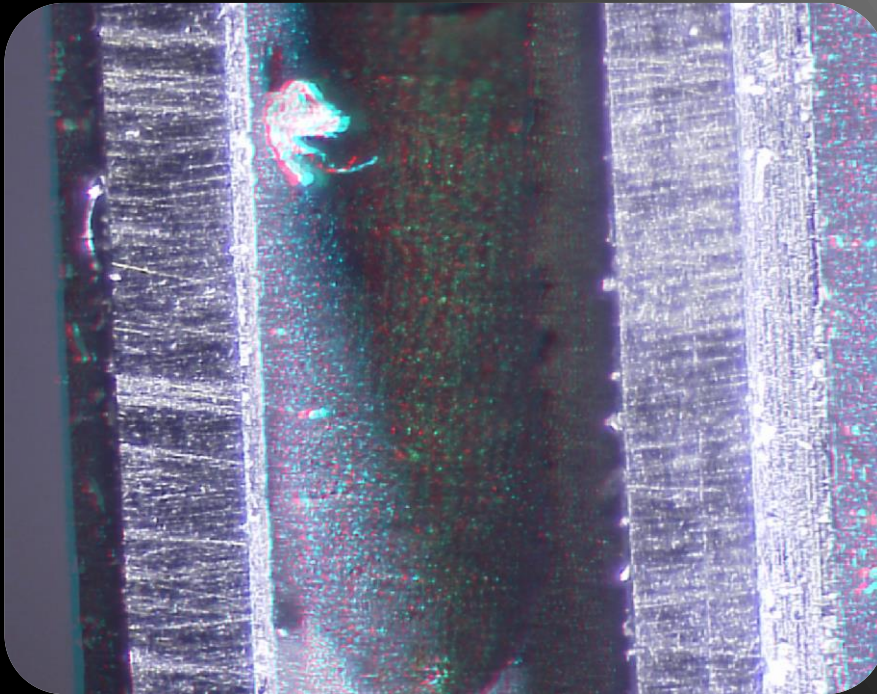
## ➤ Measurement in XYZ (3D)

- Profile measurement functions: distance, height
  - Zero-based
  - Coordinate based



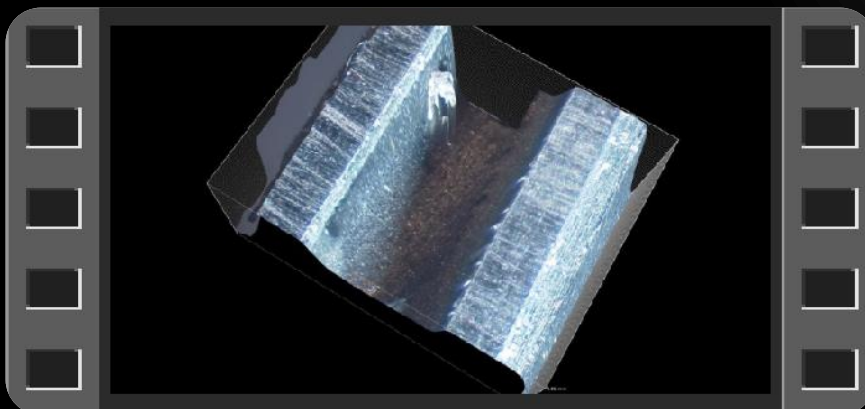
### ➤ View samples as 3D Anaglyph

- 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

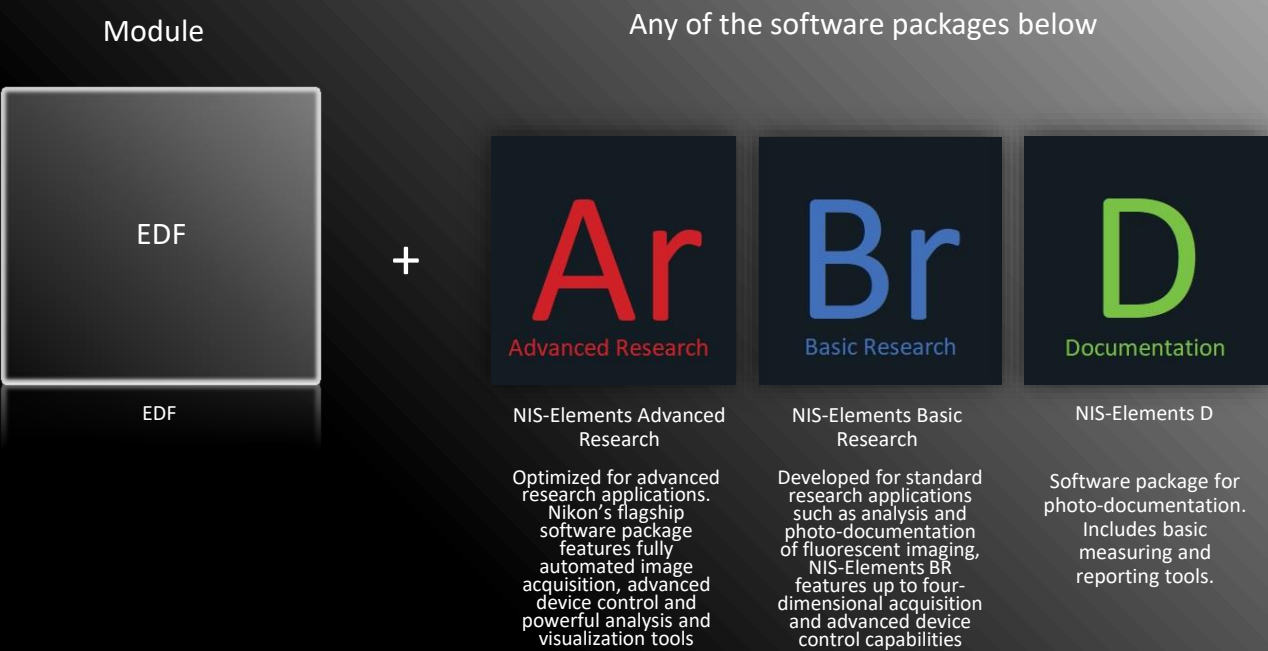


### ➤ Present your 3D samples virtually in video format

- 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



➤ Contact us

For more information about our solutions, please contact your local Nikon representative at

- [www.industry.nikon.com](http://www.industry.nikon.com)