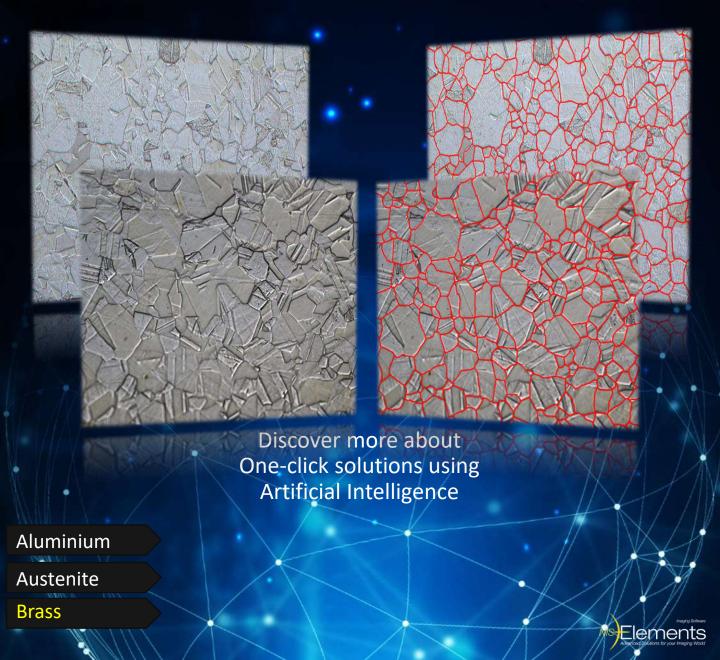


Artificial Intelligence detection for Grain Size

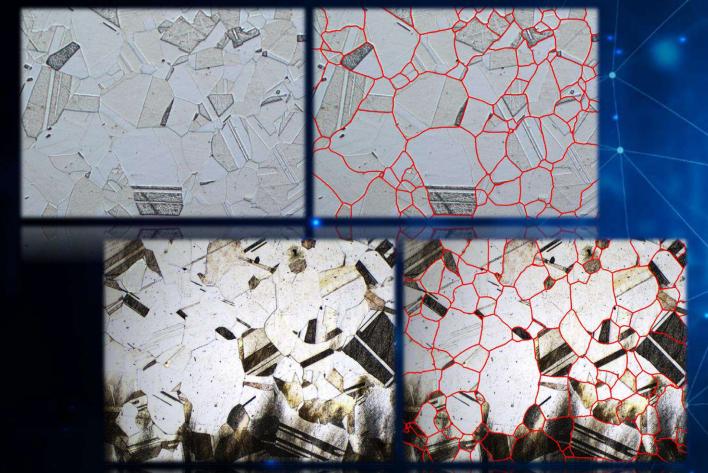


Automatic Segmentation

Artificial Intelligence (AI) and deep learning make the segmentation absolutely effortless. Segmenting grains using manual thresholding can be very tricky and tedious – this is now past.

> One-click detection

Automatic and complete image segmentation without complicated workflows is provided by just one-click using AI in NIS-Elements.



Sample type flexibility

Al network can recognize grains on wide variety of images as it has been trained on large amount of samples.

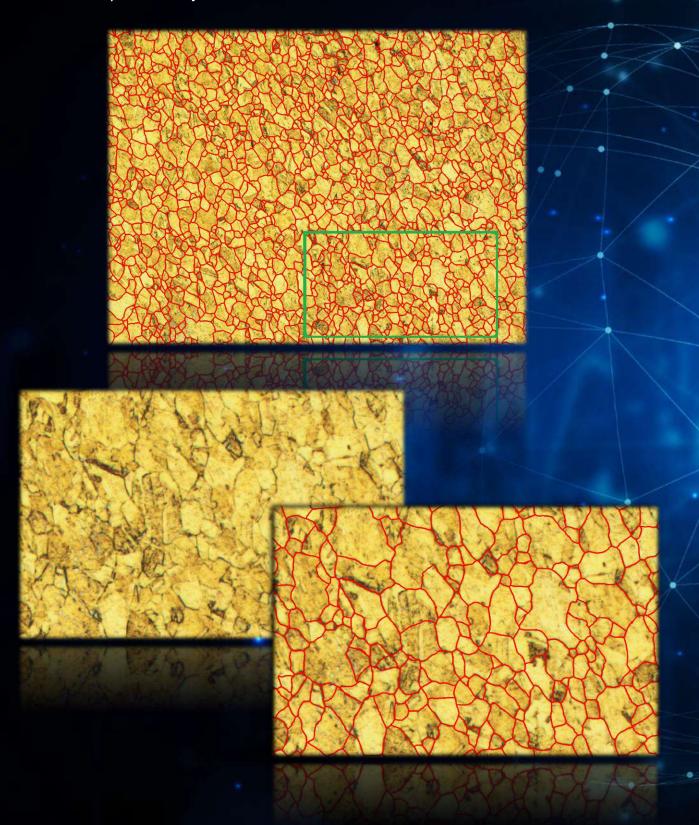
Reliable AI grain detection currently works primarily Brass structures and similar material samples observed in polarized light with or without lambda plate.

Additional image samples are being continually added into the AI network to offer customers the best and the most comfortable grain segmentation on the market.

Elements

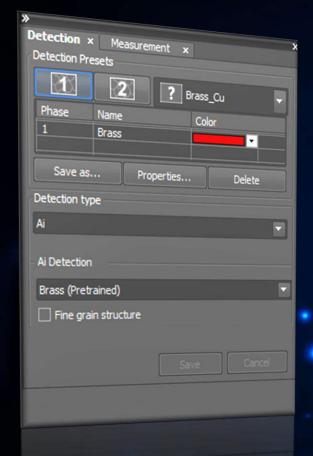
Al segmentation results

➤ The results of AI segmentation on other various samples without any further adjustments:



All mask segmentation results on images in this brochure have been created purely by our Al and have not been further altered or adjusted in any way.

Already pretrained for you



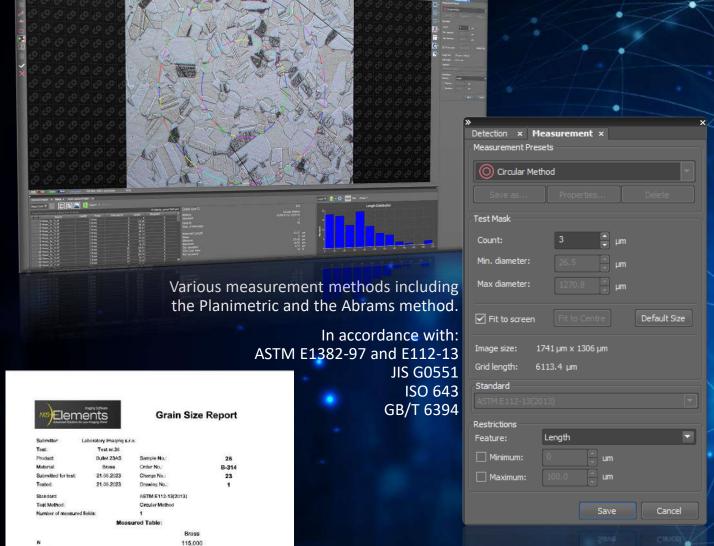
And the best part? Grain Size AI detection in NIS-Elements comes already ready to use! Simply click and the AI detection will do the work for you all by itself.

Customize your own Al

Do you have samples you would like to achieve better results on? Create your own custom AI for specific samples using the NIS-Elements NIS.ai module to get the best results possible.



Automatic complete grain size results with just one-click



Complete measurement results in Report including the number of measured fields or images, the number of grains and the grain area (mean, minimum and maximum) using NIS-Elements

L 95% Cl [µm]

L RA ISI

47.575

8,789



Products required for this application

Modules

Any of the software packages below

Grain Size

Grain Size

Al Runtime

Al Runtime

NIS-Elements Advanced Research

Optimized for advanced research applications. Nikon's flagship software package features fully automated image acquisition, advanced device control and powerful analysis and visualization tools

NIS-Elements Basic Research

Developed for standard research applications such as analysis and photo-documentation of fluorescent imaging, NIS-Elements BR features up to four-dimensional acquisition and advanced device control capabilities

Documentation

NIS-Elements D

Software package for photo-documentation. Includes basic measuring and reporting tools.

Contact us

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

www.industry.nikon.com



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