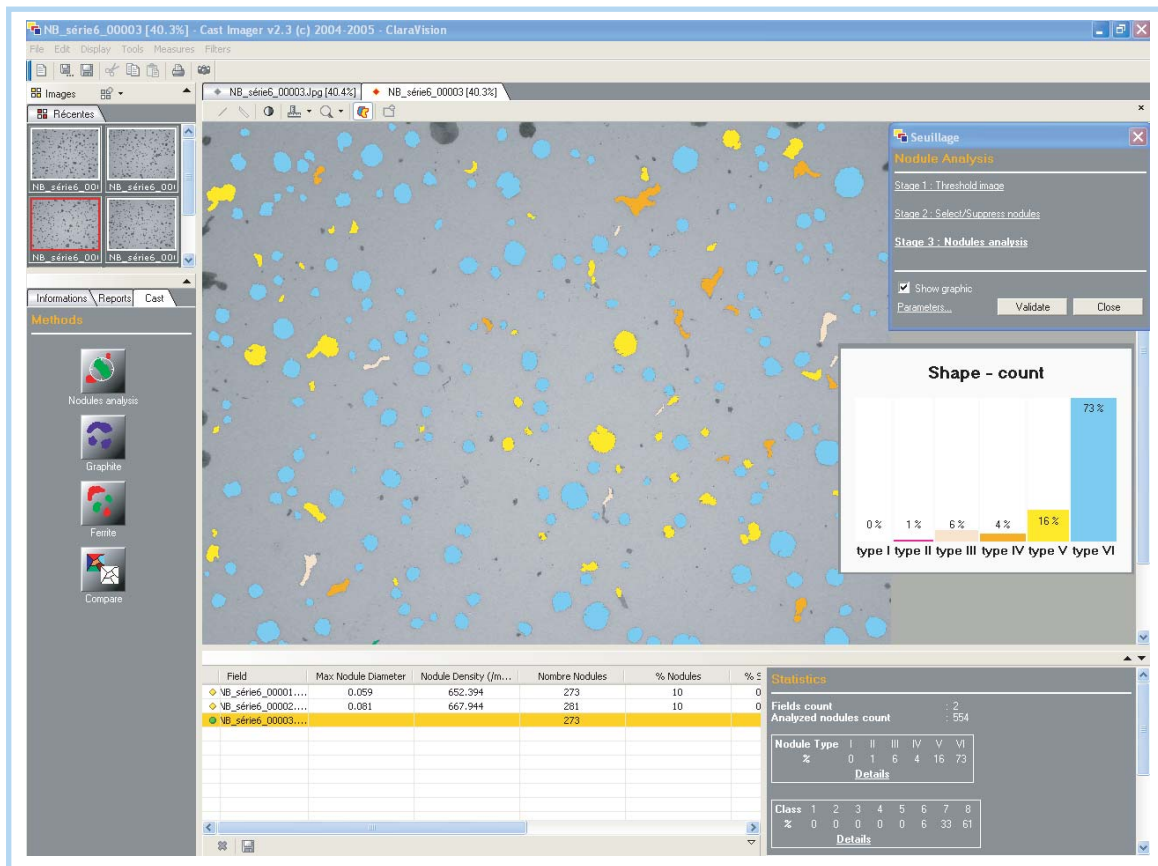


CAST IMAGER

CAST IRON IMAGE ANALYSIS

FAST, ACCURATE, REPRODUCIBLE



- ▶ Instant image acquisition
- ▶ Fast nodules detection and artefacts removal
- ▶ Accurate nodularity classification
- ▶ Easy calculation of Ferrite / Perlite fraction
- ▶ Professional reports with customized forms
- ▶ Reproducible results user independent

CAST IRON ANALYSIS IN COMPLIANCE WITH EN ISO 945

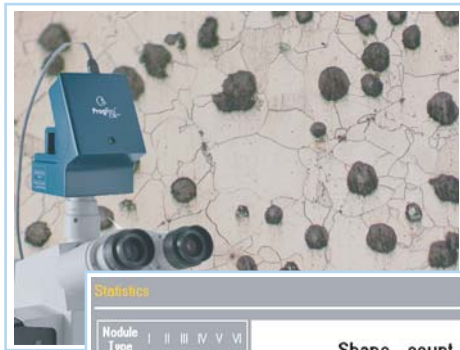
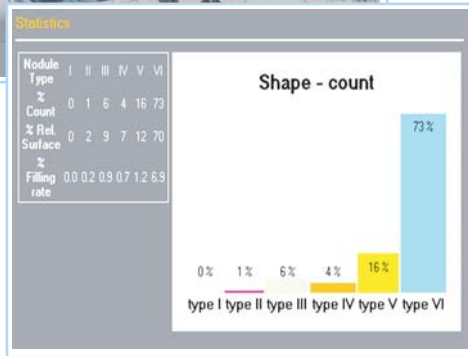


IMAGE CAPTURE / DIGITAL CAMERAS

Get instant image capture from digital or analog cameras and any Twain devices. Take benefit of our user-friendly interface including live image, bar graph focus and instant access of main settings.



NODULARITY

With Cast Imager each graphite nodule is automatically detected and colored with regards to shape and size. In one click detailed spreadsheets and diagrams are immediately available. Improper nodules can be automatically or manually removed.

Nodule Type	I	II	III	IV	V	VI
%	0	1	5	4	16	73

Details

Class	1	2	3	4	5	6	7	8
%	0	0	0	0	0	5	32	63

Details

Max Nodule diameter type VI. (mm)
Max. fiber length (mm)
Nodule Density (/mm²)
Surface Density %

STATISTICS

According to EN ISO 945/NF A04-197 standards, results must include at least 500 nodules : Cast Imager always displays total number of detected nodules with essential parameters as analyzed area, nodule density/mm², max diameter and max length (lamella).

FERRITE/PERLITE RATIO

The ferrite and perlite fraction is calculated with the graphite content taken into account. Graphite corrections can be done using either a manually input value or the result of a previous graphite measurement.



REPORT GENERATOR / EXPORT RESULTS TO EXCEL

Cast Imager is supplied with a powerful report generator. In one click print out all results and relevant image. All results are also Excel compatible .

CLARA VISION		CAST IMAGER		12/08
Operator		Calibration name	X.200 Green	
Assay date		Unit	µm	
Sample ident		Scale factor	0.3000	
Number of analyzed fields	3	Nodularity	% area	% nodule area
Number of total nodules	927	Shape I	0	0
Total area (µm ²)	4.262	Shape II	1	0
Min nodule diameter type VI	0.016	Shape III	5	7
Max fiber length (mm)	0.081	Shape IV	4	7
Nodule density (mm ²)	655.8	Shape V	16	14
Area density %	9.8	Shape VI	73	71

Additional imaging solutions to match your specific requirements :

- PERFECT IMAGE** : Powerful software tools for material applications (manual measurements, phase content, image database, image enhancement...)
- GOLD** : Optional image analysis extension for auto/manual objects counting and classification.
- GRANI** : Grain sizing assessment according to ASTM E112 and EN ISO 643 standards.
- FILTER EXPERT** : Automated cleanliness measuring station, counting and classification of particles and fibers in fluid circuits in automotive and aeronautic industry (ISO 4407, L41-101, E48-655, ISO/DIS 16232).

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