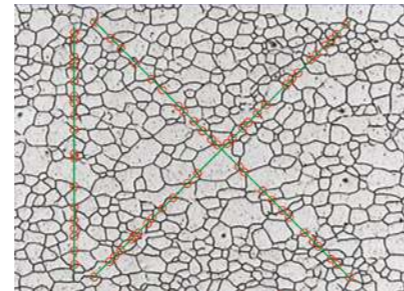


Grain Size Intercept

Manual grain size measurement of ferritic or austenitic steel

- Counts the number of grain intercepts with patterns
- Directly visualize pattern and grain boundaries
- Supports multiple standards: ASTM E112-13, ISO 643:2012, JIS G 0551:2013, JIS G 0552:1998, GOST 5639-82, GB/T 6394-2002, DIN 50601:1985, ASTM E1382-97(2015)



Grain Size Planimetric

Automatic grain size control in steel

- Counts the number of grains
- Powerful grain boundary reconstruction
- Calculates the area percentage of a secondary phase
- Supports multiple standards: ASTM E112-13, ISO 643:2012, JIS G 0551:2013, JIS G 0552:1998, GOST 5639-82, GB/T 6394-2002, DIN 50601:1985, ASTM E1382-97(2015)

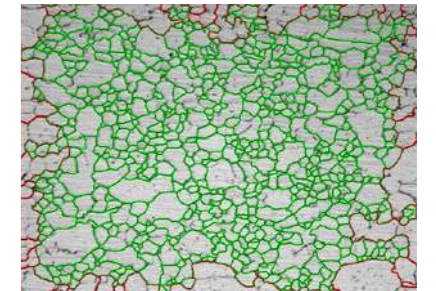
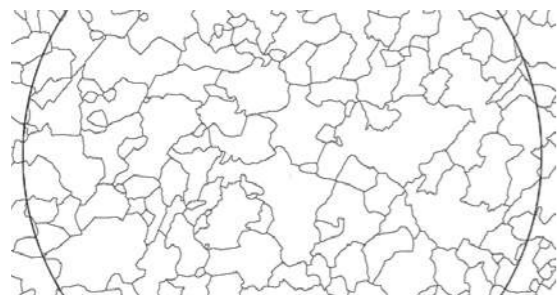


Chart Comparison

Compare live or still images with reference images

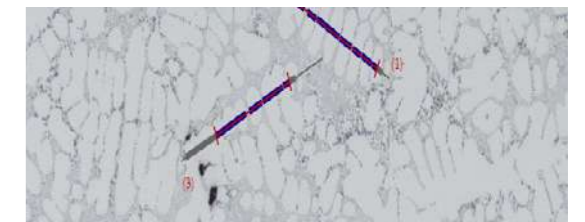
- Not dependent on microscope magnification
- Works with live and still images
- Supports multiple standards: DIN 50602:1985, ISO 945:2008, ISO 643:1983, ISO 643:2012, EN10247:2007, SEP 1520:1998, SEP 1572:1971, ASTM E112:2010, ISO 4505:1978



Dendrite Arm Spacing

Automatic or manual measurement of secondary dendrite arm spacing in solidified aluminum alloys

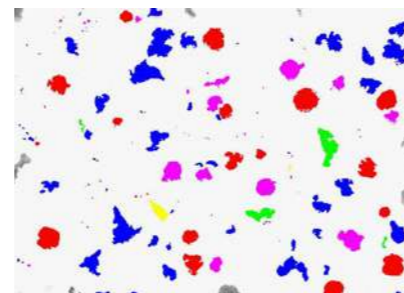
- Automatically or manually measures the mean secondary dendrite arm spacing (DAS) using thresholds
- Calculates the solidification time in lightweight castings
- Measures the total length, the number of dendrite arms, and the average and median DAS values



Cast Iron Analysis

Evaluate graphite nodularity and the ferrite/pearlite ratio

- Measures the ferrite-pearlite ratio (on etched samples) and graphite distribution (on non-etched samples)
- Calculates the distribution of vermicular graphite
- Supports multiple standards: EN ISO 945-1:2018, ASTM A247-17, JIS G 5502:2001, KS D 4302:2006, GB/T 9441-2009, ISO 16112:2017, JIS G 5505:2013, NF A04-197:2017, ASTM E2567-16a (for nodularity classification only)



Rating Nonmetallic Inclusions

Rate nonmetallic inclusion content in high-purity steel

- Exclusively based on the worst field method
- Requires minimal training
- Supports multiple standards: ASTM E45-18 (method A), DIN 50602:1985 (method M), ISO 4967:2013 (method A), GB/T 10561-2005 (method A, equivalent to ISO 4967), JIS G 0555:2003 (method A, equivalent to ISO 4967), UNI 3244:1980 (method M), EN 10247:2017 (methods P and M), SEP 1571:2017 (method M), EN 10247:2007 (methods P and M, selectable as an alternate version to EN10247:2017), ASTM E45-18 (method D), ISO 4967:2013 (method B), EN10247:2017 (method K).

