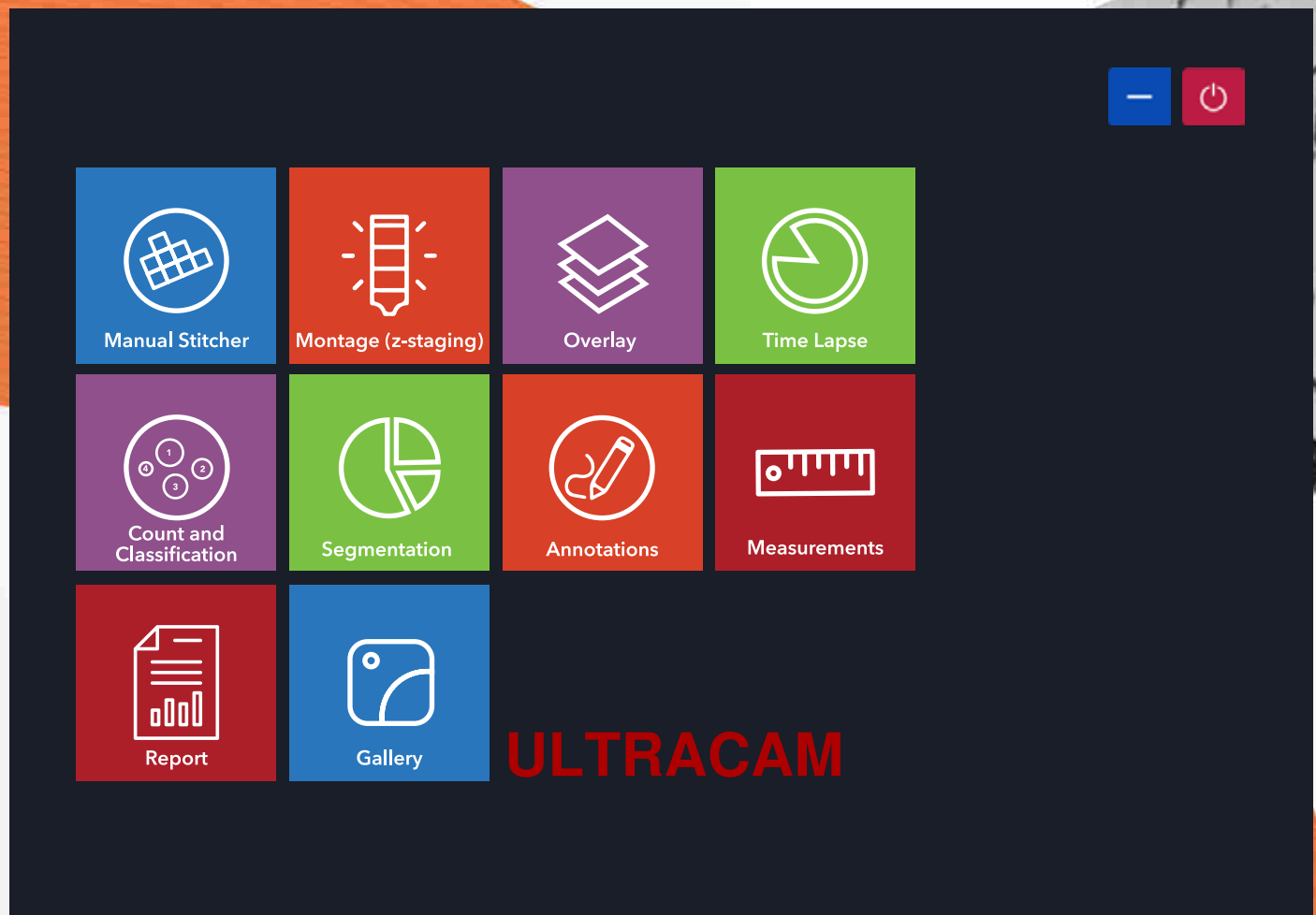


Introduction of ultracam software

ultracam analysis software for microscopy with an intuitive user interface and simple to use navigation with a suite of image processing techniques, measurements and enhancement tools that set it apart from other mainstream softwares.

Such image processing softwares are now being extensively used in a number of diverse fields such a medicine, biological research, cancer research, drug testing etc.



SALIENT FEATURES

- ✓ Any DirectShow Camera
- ✓ Time Laps Capture
- ✓ TWAIN
- ✓ Browse Gallery
- ✓ Manage Client Profiles
- ✓ Annotations
- ✓ Advanced reporting(PDF, Excel)
- ✓ Windows 10/8/7/VISTA & XP compatible
- ✓ Live Measurements

MODULES

- ✓ Measurements
- ✓ Grey Cast Iron
- ✓ Nodule Analysis
- ✓ Cementite
- ✓ Segmentation
- ✓ Coating Thickness
- ✓ Inclusion
- ✓ Count & Classification
- ✓ Ductile Cast Iron
- ✓ Grain Size
- ✓ Porosity
- ✓ Decarburization

APPLICATION SCREEN



-Industry Pro is an image analysis software for Metallurgy. It is a windows-based application. K-Industry Pro provide various superior tools for image capturing, visualization, enhancement, analysis and report generation. Our Imaging Solution is a powerful integration of software and hardware that enables metallurgist to automatically capture images, performs metallurgical analysis and generates reports. All modules as per international standards. Customized report design support available.

AVAILABLE MODULES

- Linear Measurements (Measurements)
- Decarburization (Decarb)
 - Total Decarb Method
 - Trace Method
- Coating Thickness
- Nodule Analysis
- Flake Analysis
- Porosity Analysis
- Count & Classification
- Particle Size (Manual Method)
- Phase Analysis (Segmentation)
- Grain Analysis
 - Heyns Lineal Intercept Method
 - Abrams Three Circle Method
 - Heyns Abram Intercept Method
 - Random Line Method
 - Comparison Method
- Cementite (Iron Carbide)
- Inclusion Analysis

Linear Measurements (Measurements)

There are 14 different linear tools

1. Line
2. Freehand
3. Parallel Line
4. Intersection Point
5. Perpendicular
6. 2 Line Angle
7. 3 Point Angle
8. Circle from centre
9. 3 Point Circle
10. Len Circle Centre
11. 2 Circle Distance
12. Concentric Circle



Freehand Area

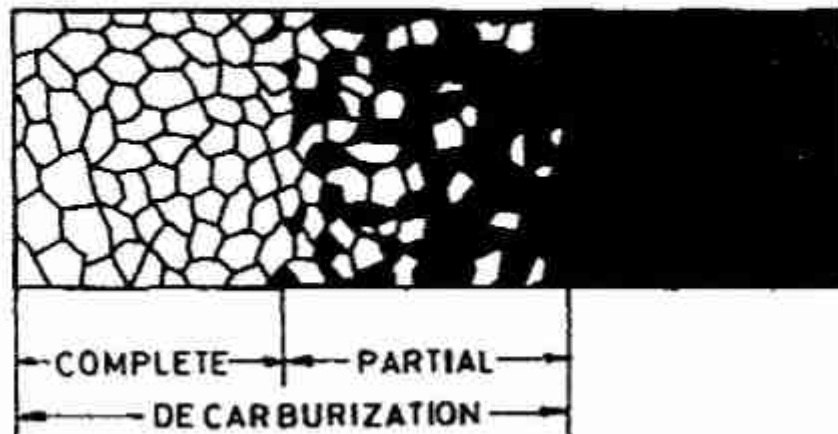
14. Rectangle

1. Decarburization (Decarb) (ASTM -E1077)

❖ Total Decarb Method

Decarburization

It is the loss of carbon from the surface layers of steel at high temperatures under oxidizing conditions. Decarburization may be complete or partial

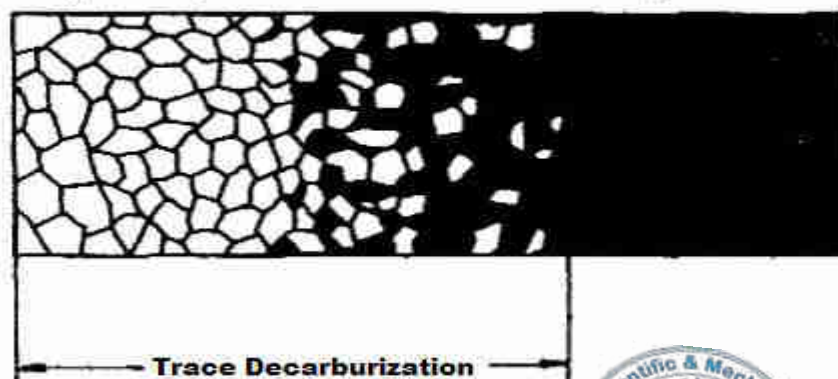


PARTIAL AND COMPLETE DECARBURIZATION

❖ Trace Method

Decarburization

It is the loss of carbon from the surface layers of steel at high temperatures under oxidizing conditions.



2. Coating Thickness (ASTM-B487)

- User defined configurations with filter conditions
- Image enhancement functions
- Automatically identifies coating boundary
- Gives MIN/ MAX/ AVG/ STD DEV of results
- Supports multiple samples

3. Nodule Analysis (ASTM-247-67/ISO-945-1)

- Using ASTM standard 247-67 and ISO-945-1
- User can define configurations with different filter conditions
- Gives Nodularity by count, Nodularity by area and Nodule size
- Group results using Nodule size 1 to 8

4. Flake Analysis (ASTM-247-67/ISO-945-1)

- User defined configurations with filter conditions
- Detects and group Flakes by type A, B, C, D and E
- Detects and group Flakes by size (1 to 8)
- User can manually set Flake types/correction

5. Porosity Analysis (ASTM-B276)

- User can define configurations with different filter conditions
- User can manually select or unselect a feature
- User can in between switch to Live Video to further analyze a feature by focus adjustment and can select or unselect a feature in processed image
- User can group the selected features into different buckets based on length or area

6. Count & Classification

- User defined configurations with filter conditions
- Image enhancement functions for particle detection
- Analyse and detects particles based on defined configuration/filter
- Analyse particles for length and area
- Can group particles identified into different buckets (user defined) by length, area, width etc



Particle Size (Manual Method)

- Analyze and detects particles/features in an image
- User can define configurations with different filter conditions
- Analyze features/particles for length, area, circularity
- Can group features into different buckets based on length and area

8. Phase Analysis (Segmentation)

- As per standard ASTM E562
- User can define different configurations for different measuring conditions and analysis
- Can detect Nodules in the image
- Can split phases which has same color range
- Supports manual point count method for phase analysis

9. Grain Analysis (ASTM-E112/E1382-91)

- Follows ASTM E112, E1382-91, E 1181, and E 930
- Automatically creates grain boundary structure
- Supports Planimetric method
- Supports Heyns Linear Intercept method
- Supports Hillard/Abrams circle intercept method
- User can manually draw grains if structure is not properly visible
- User can add or remove grain boundary formed
- User can create Custom Grain analysis programs using different image analysis functions that suite different types of grain image

10. Cementite (Iron Carbide) (ASTM-E1268)

- Using ASTM standard E1268
- Can find Carbide percentage

11. Inclusion Analysis (ASTM-E1245/E45)

- Using ASTM standard E1245 & E45
- Groups results as per type A, B, C, D and further classification as THIN and THICK

12. Image functions

- Image rotation
- Gray scale
- Image flipping (horizontal or vertical)
- Histograms
- Invert
- Brightness correction



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