

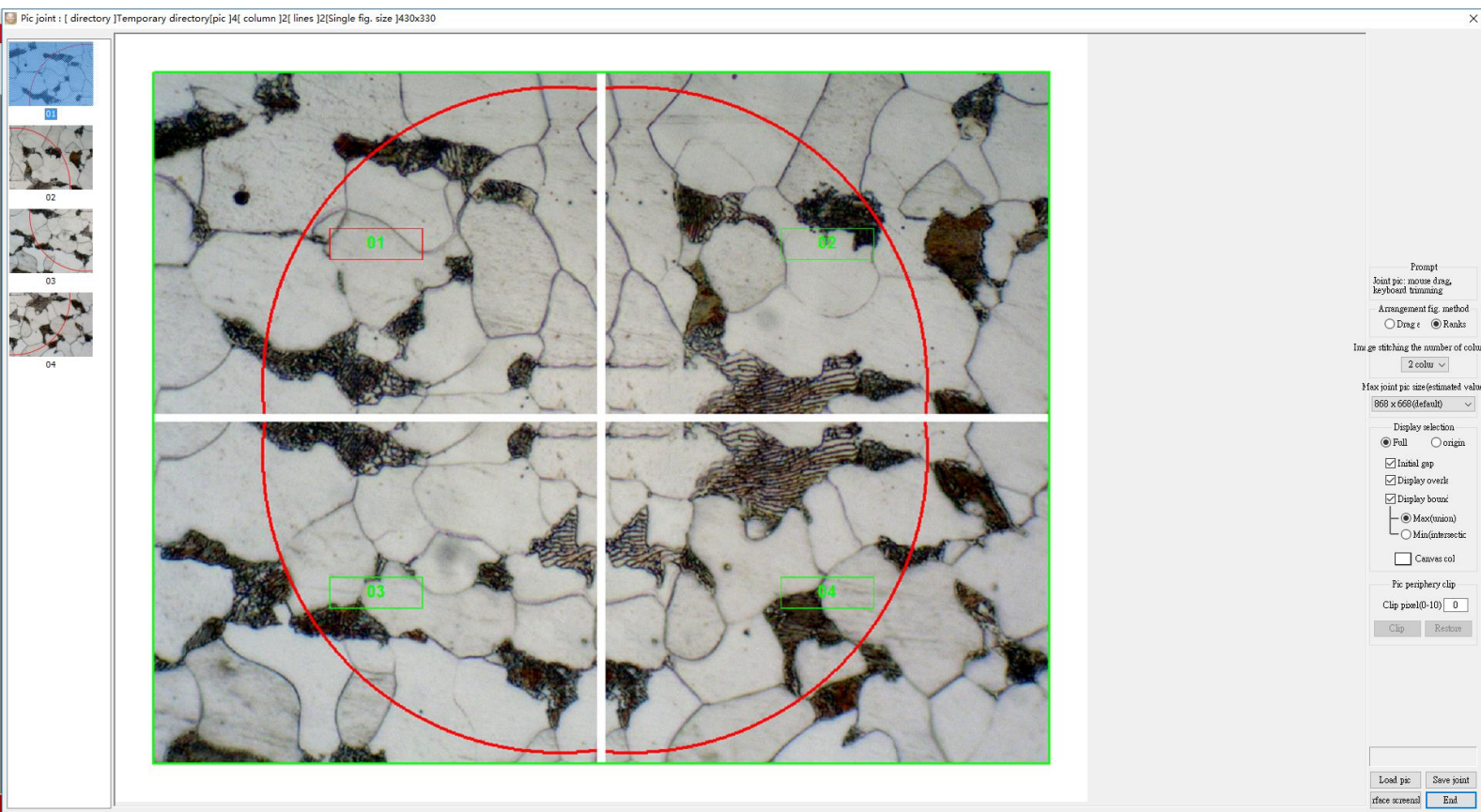


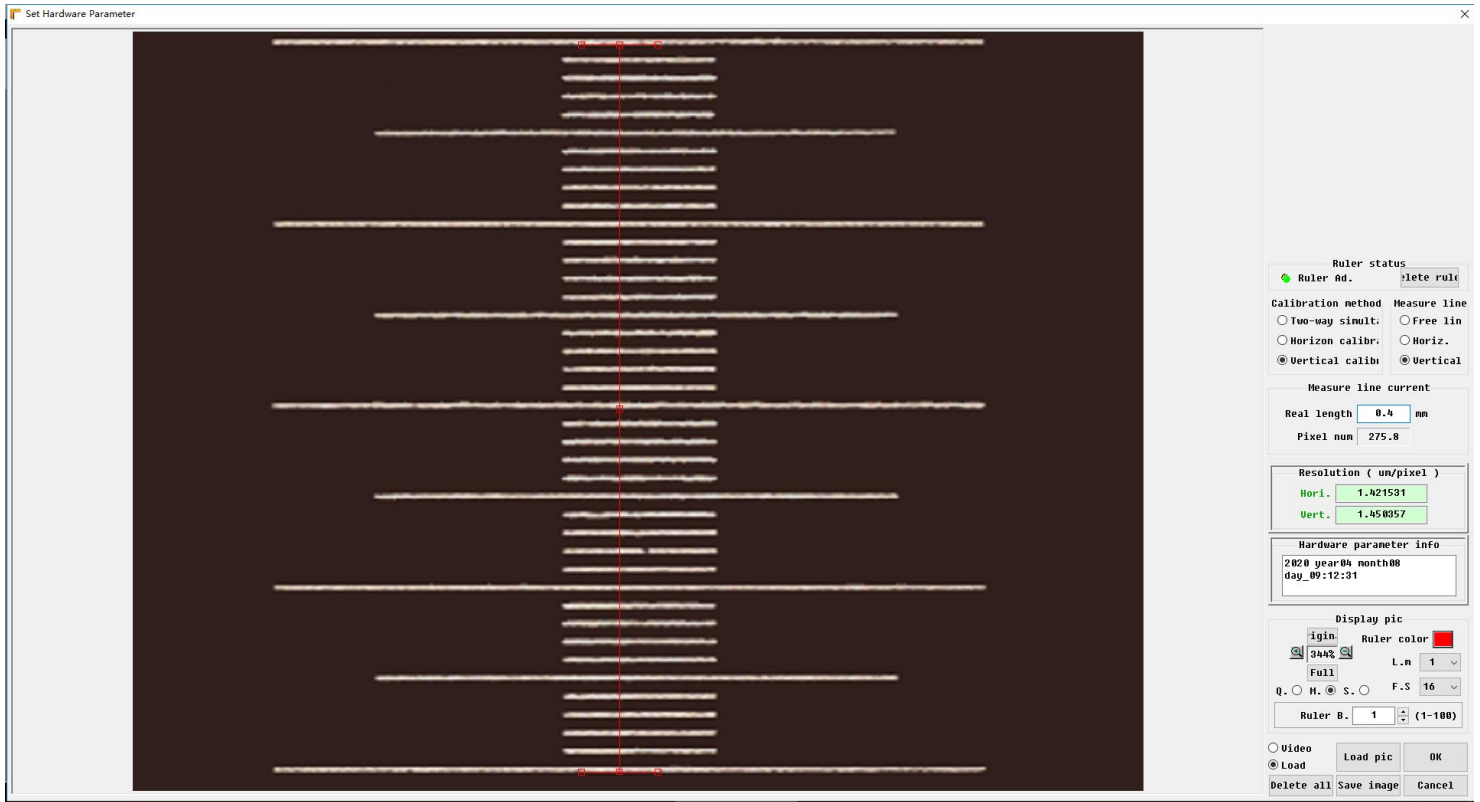
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F-1501 Wanda Plaza, No.18 Shijingshan Road, Beijing 100043, China
Tel:+8610 88696020 Fax:+8610 88696085

A30.1810

Professional Metallography Examination Software



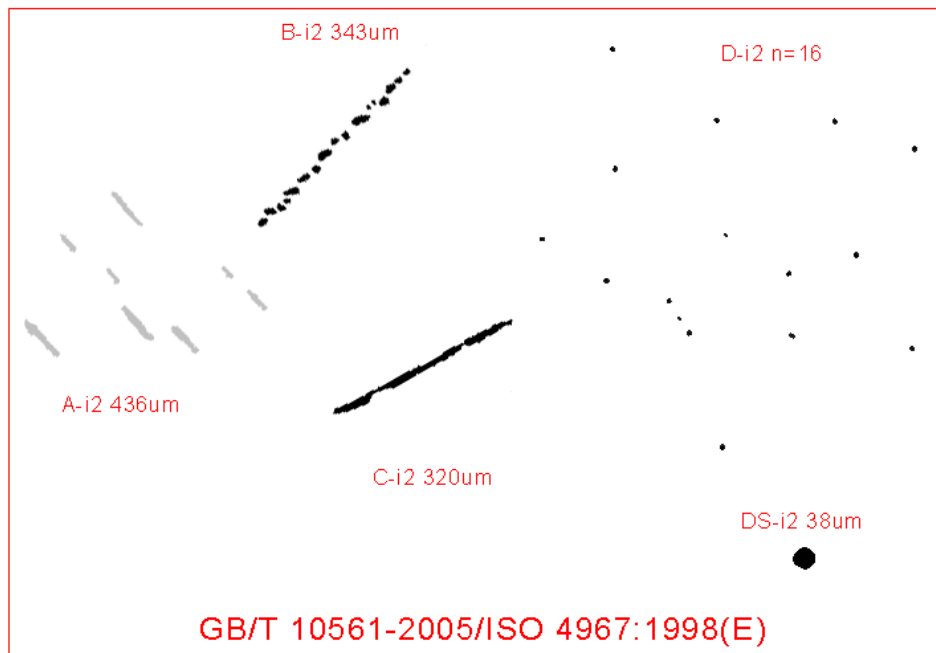


A30.1810, the metallographic image analysis software system is combination of the current metallographic testing needs of foundry companies, auto parts companies, heat treatment companies, bearing steel industry, power system industry, railway parts industry, and various related testing companies to improve product qualification. To help improve the inspection level of various laboratories, we collect the needs and opinions of experts and teachers in various industries, and develop this metallographic image analysis software system.

The national standard library of the software system contains about **700 commonly used sub-modules** in **150 categories**, basically covering commonly used metallographic standards, and meeting the requirements of most units for metallographic analysis and inspection. According to the needs of different industries, designate open related categories to meet industry testing requirements. Call all modules free of charge for life, and upgrade the standard for free for life.

In view of the continuous increase of new materials and imported materials, materials and evaluation standards that have not been entered in the software can be customized and entered

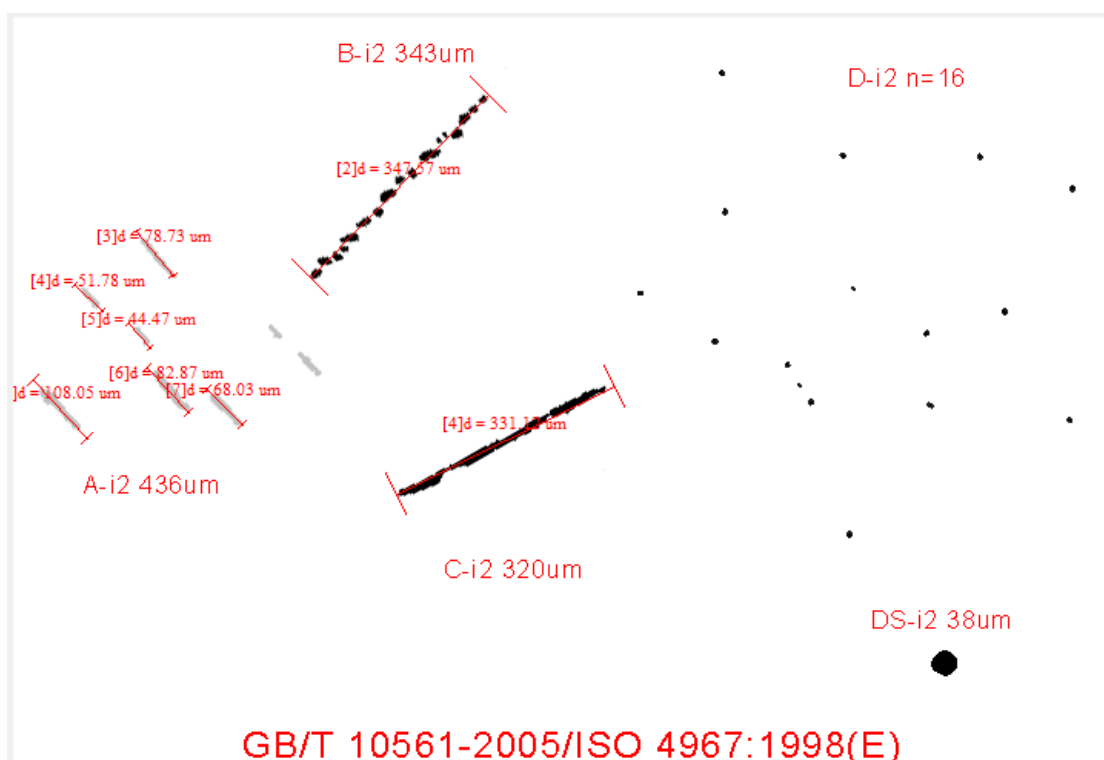
Newest Metallurgical Standard Included (Part)



- GB/T 6394-2017 Grain size measurement rating (grain boundary extraction, grain boundary reconstruction, single phase, dual phase, grain size measurement, rating)
- GB/T 10561-2005/ISO 4967:1998 Determination of non-metallic inclusion content in steel
- GB/T 7216-2009 gray cast iron: graphite distribution shape, graphite length, pearlite quantity, carbide quantity, etc.
- GB/T 9441-2009 Ductile Iron: Spheroidization Rate, Graphite Size, Pearlite Quantity, Carbide Quantity, etc.
- GB/T 26656-2011 Vermicular graphite cast iron: graphite morphology, creep rate, pearlite quantity, phosphorus eutectic quantity, carbide quantity, etc.
- GB/T 18254-2016 Metallographic examination of high carbon chromium bearing steel
- GB/T 34891-2017 Rolling bearings_Technical conditions for heat treatment of high carbon chromium bearing steel parts
- GB/T 1499.2-2018 Steel for reinforced concrete Part 2: Hot-rolled ribbed steel bars
- GB/T 1299-2014 tool steel
- GB/T 3246.1-2012 Microstructural test methods for wrought aluminum and aluminum alloy products_Part 1_Microstructure test methods
- GB/T 13925-2010 cast high manganese steel: grades of undissolved carbides, grades of precipitated carbides, grades of superheated carbides
- JB/T 7946-2017 Metallography of cast aluminum alloys
- JB/T 1255-2014 Rolling bearings_Technical conditions for heat treatment of high carbon chromium bearing steel parts
- JB/T 9986-2013 Tool Heat Treatment Metallographic Examination

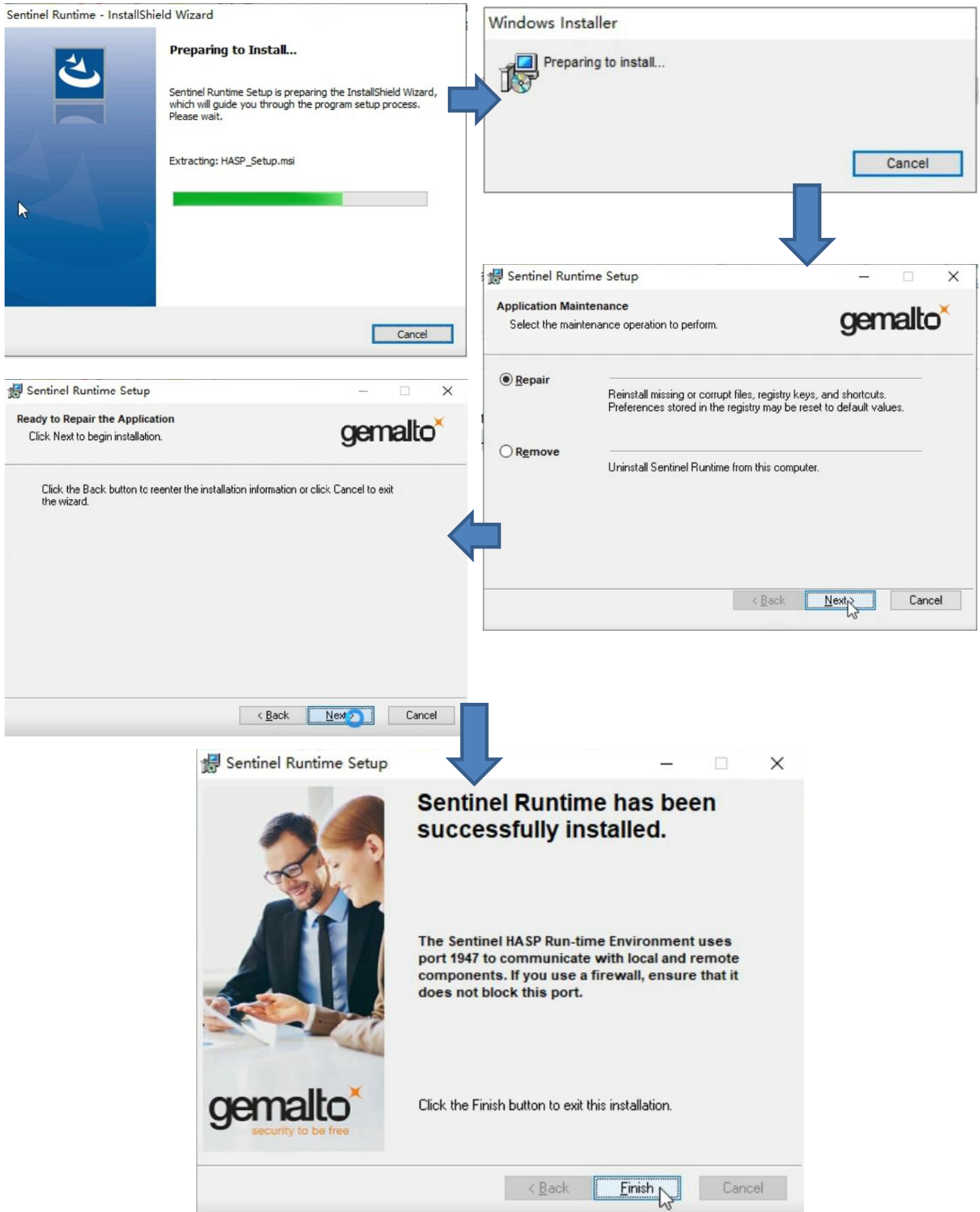
Newest Metallurgical Standard Included (Part)

- QC/T 262-1999 Metallographic examination of automobile carburized gears: martensite needle length, carbide, austenite rating, austenite content
- QC/T 502-1999 metallographic inspection of automobile induction hardening parts
- QC/T 553-2008 Metallographic Examination of Cast Aluminum Pistons for Automobile Engines
- TB/T2942.2-2018 Steel Castings for Locomotives and Rolling Stock Part II: Metallographic Examination Chart.
- TB/T 2478-1993 Metallographic Structure Grading Chart of Spring Bar
- TB/T 2451-1993 Metallographic examination of non-metallic inclusions in cast steel
- TB/T 2944-1999 Carbon steel forgings for railway
- DL/T 773-2016 Standard for spheroidization rating of 12Cr1MoV steel for thermal power plants_Characteristics of ferrite plus pearlite spheroidization
- DL/T 773-2016 Spheroidization rating standard for 12Cr1MoV steel for thermal power plants_Features of ferrite plus bainite or bainite spheroidization
- DL/T 1422-2015 18Cr-8Ni series austenitic stainless steel boiler tube microstructure aging rating standard
- ISO 4499-2016 Cemented carbide -- Metallographic determination of microstructure
- **ASTM A262-2015** Test procedure for susceptibility to intergranular corrosion of austenitic stainless steel
- **ASTM E45-2013** Evaluation method of inclusion content in steel



Software Installation And Application

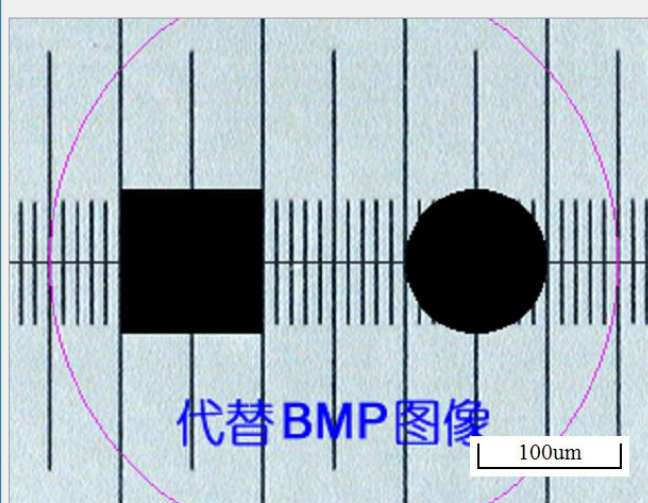
◆ Installation Steps



Software Installation And Application

◆ View Gallery

Edit and save pic: frame width- denotes the width of A4 print paper

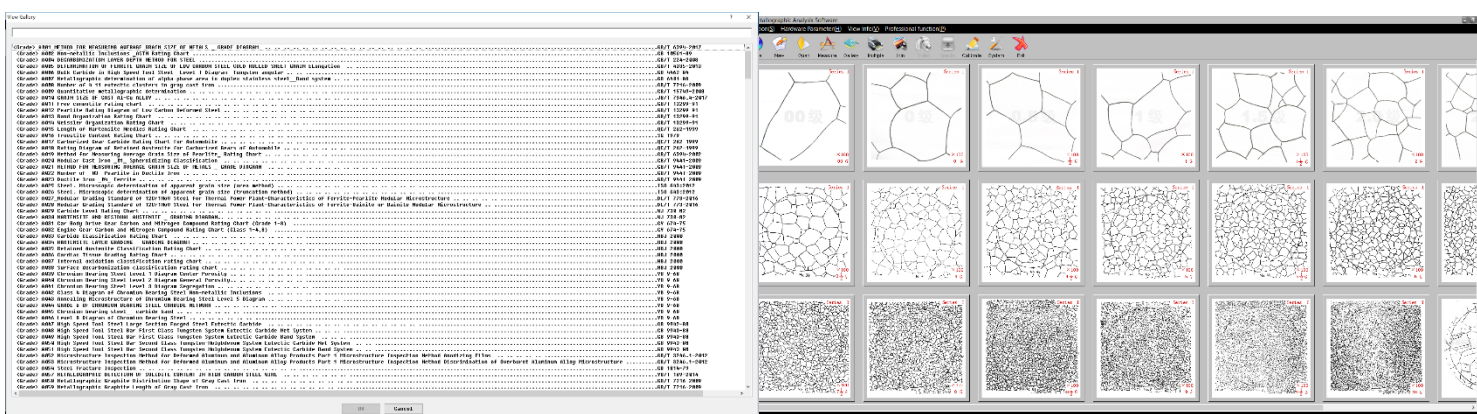
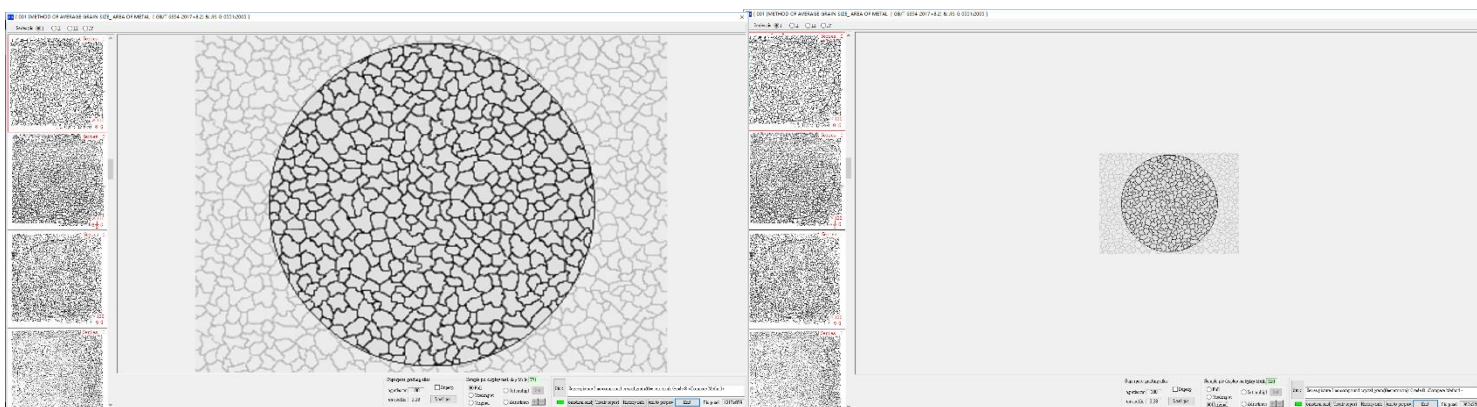
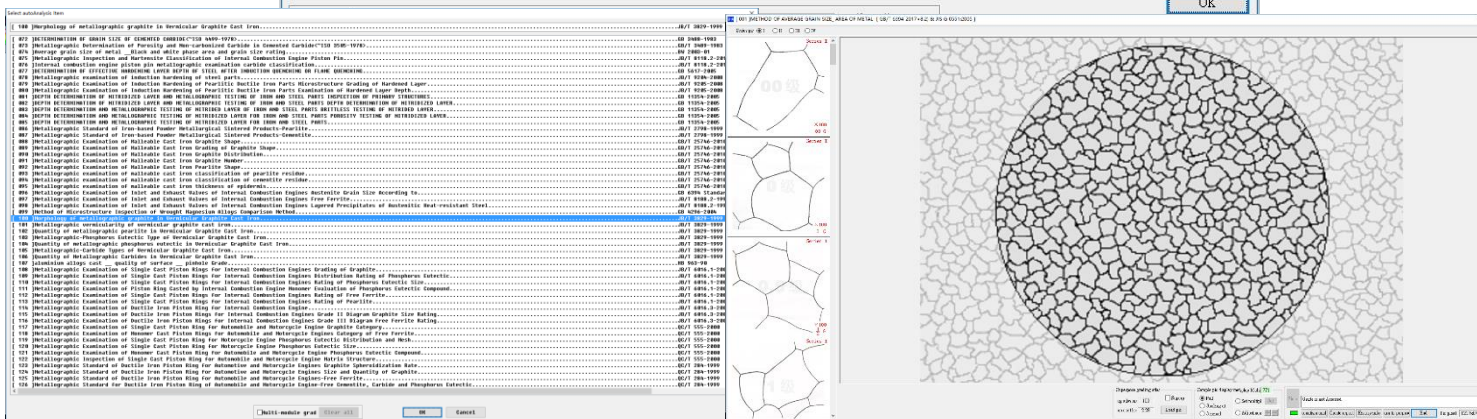


ic horizontal resolution:
1 421531
Pic vertical resolution
1 450357
Pic size(pixel)
384x288

☒ draw ruler
Place
Select
Position ?
Coars
Fine
Length
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Height of text
12
Subsection
1
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Rotate(degree)
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Line width
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ctive multiple: Edit 5x Label

☒ F.M. print
☐ F.S. print
Printing amplification
400
Label multi
See zoom save
Add text
Plot arrow
Redraw window
OK



Software Installation And Application

◆New Report

Select New report Format

New report - Format 0 <general format>

New report - Format 0 <general format>

New report - Format 0<general format [fig.1- fig.4]A>

OK Cancel

(Report name)

Submission unit: (Submission unit) Submission time: 2020/04/10 10:20:00

Inspection Unit: (Inspection Unit)

Sample Variation: (Sample Variation)

Sample Grading: (Sample Grading)

Test Items: (Test Item)

Grading is not Assessed

Assessment Level:

Fixed time display: [] Fixed time length: [] [Image Preview] [Resolution]

Resolution X:1.422,Resolution Y:1.450,Remark :2020 year04 month08

Resolution X:1.433,Resolution Y:1.451,Remark :Default (4

Resolution X:1.422,Resolution Y:1.450,Remark :2020 year04 month08 day

Export Format ☒ PDF ☐ Word ☐ Excel

(Report name)

Submission unit: (Submission unit) Submission time: 2020/04/10 10:20:00

Inspection Unit: (Inspection Unit)

Sample Variation: (Sample Variation)

Sample Grading: (Sample Grading)

Test Items: (Test Item)

Grading is not Assessed

Assessment Level:

Fixed time display: [] Fixed time length: [] [Image Preview] [Resolution]

Resolution X:1.422,Resolution Y:1.450,Remark :2020 year04 month08

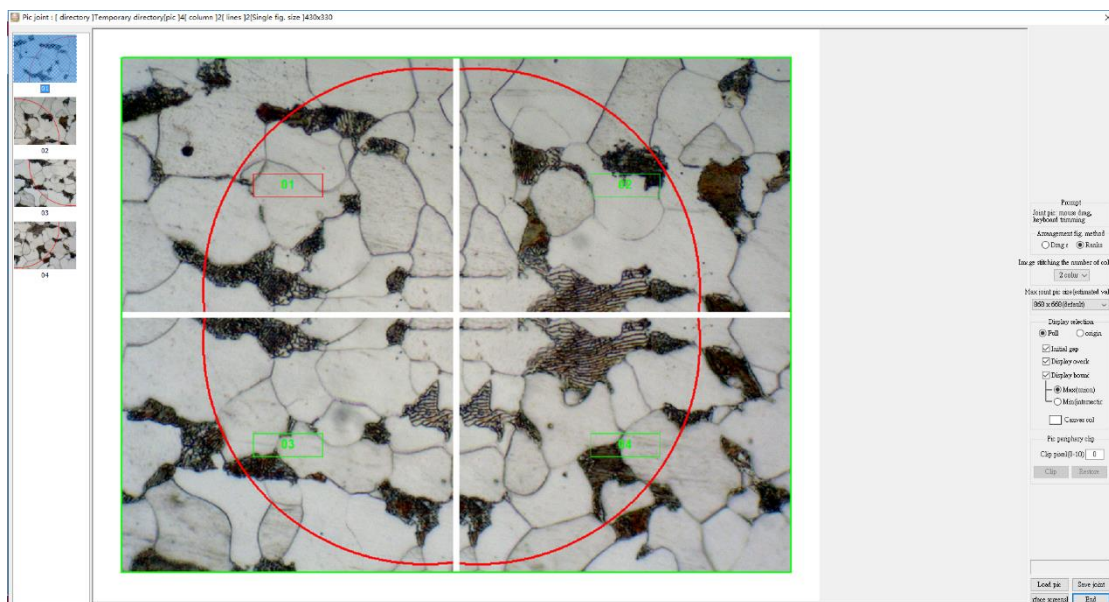
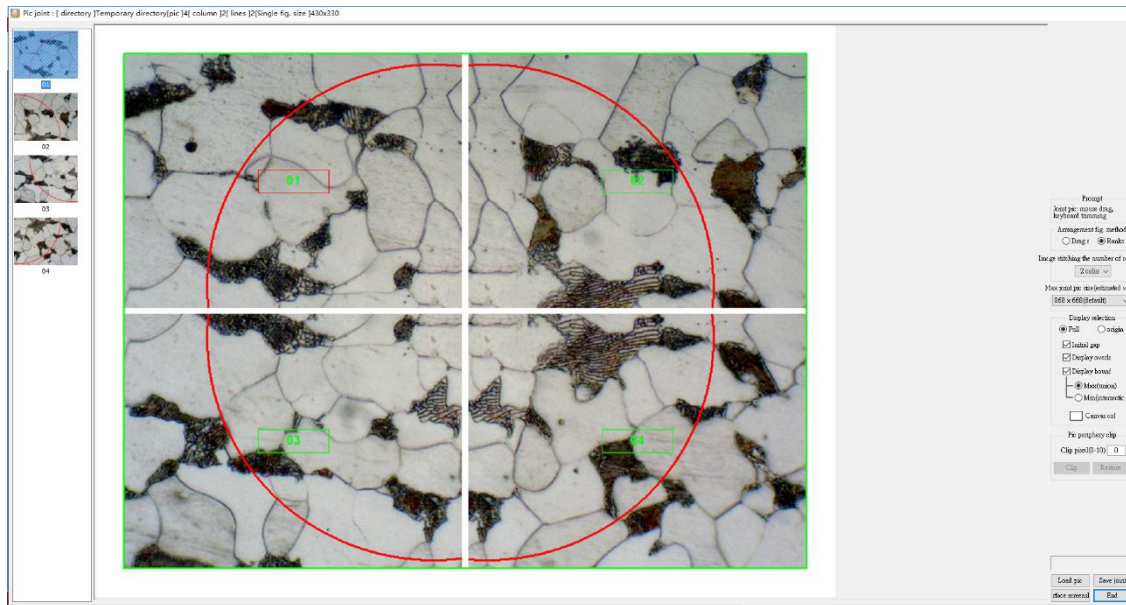
Resolution X:1.433,Resolution Y:1.451,Remark :Default (4

Resolution X:1.422,Resolution Y:1.450,Remark :2020 year04 month08 day

Export Format ☒ PDF ☐ Word ☐ Excel

Software Installation And Application

◆ Image composed



◆ Other function



Function(S) **Hardware Parameter(H)** View Info(V)

- List Selection of Module in Common Used(S)
- Demo All Grade Module(M)
- View All Gallery(L)
- Restore Display of Prompt Info(R)
- Set Margin(B)...**
- Print Setup(R)...
- Use UCMOS05100KPA camera
- ☒ Use TOUPCAMSDK camera
- Use DirectX pic capture
- Use TWAIN pic capture
- Exit(X)

Set page border

Up < T >	10	mm	0	20
Down < D >	10	mm	5	25
Left < L >	10	mm	10	30
Right < R >	10	mm	15	35

OK Cancel

Function(S) **Hardware Parameter(H)** View Info(V)

- List Selection of Module in Common Used(S)
- Demo All Grade Module(M)
- View All Gallery(L)
- Restore Display of Prompt Info(R)
- Set Margin(B)...
- Print Setup(R)...**

打印设置

打印机

名称(N): Microsoft XPS Document Writer

状态: 准备就绪

类型: Microsoft XPS Document Writer v4

位置: PORTPROMPT:

备注:

纸张

大小(Z): A4

来源(S): 自动选择

方向

☒ 纵向(O)

☐ 横向(A)

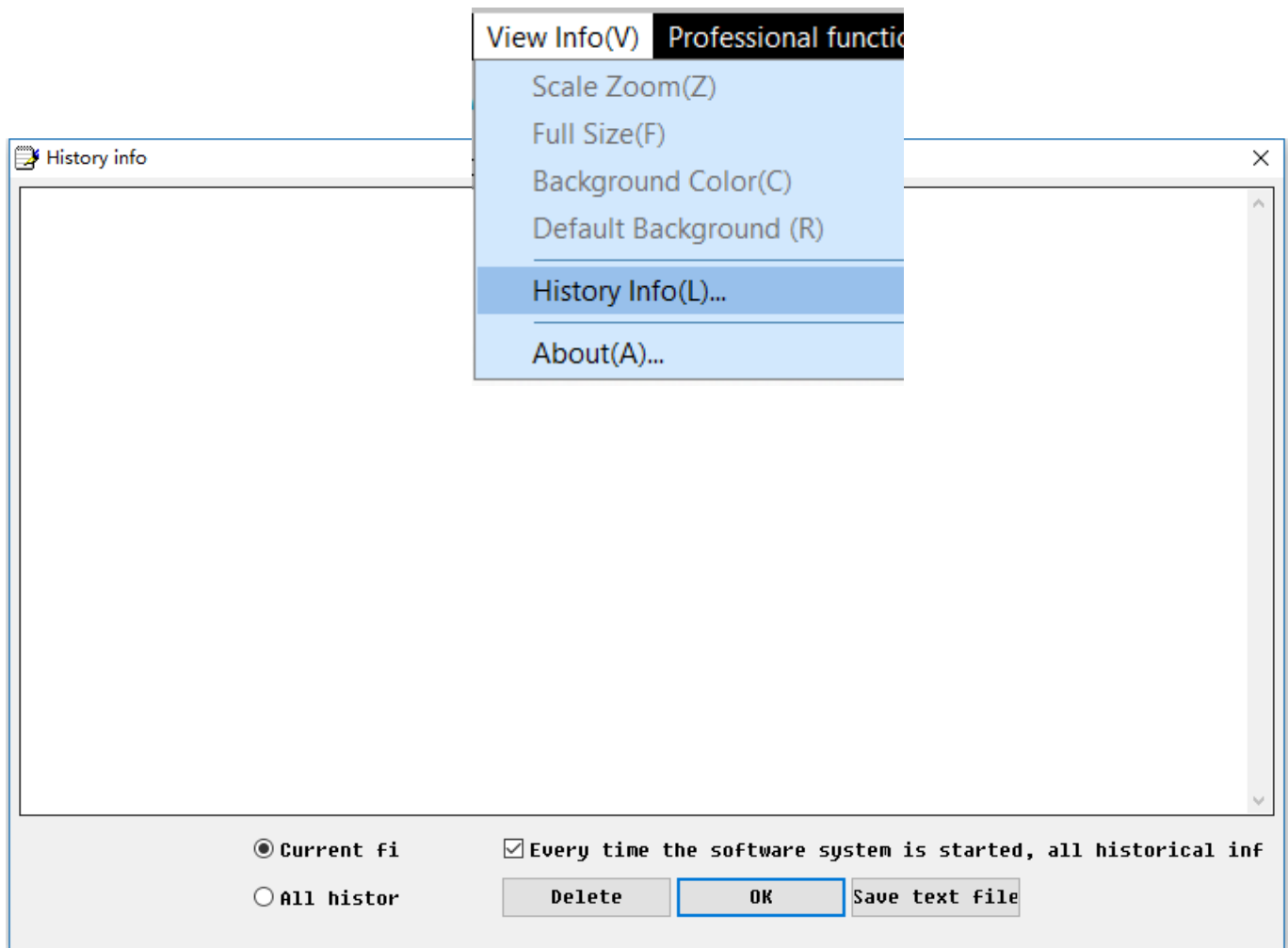
网络(W)...

确定 取消

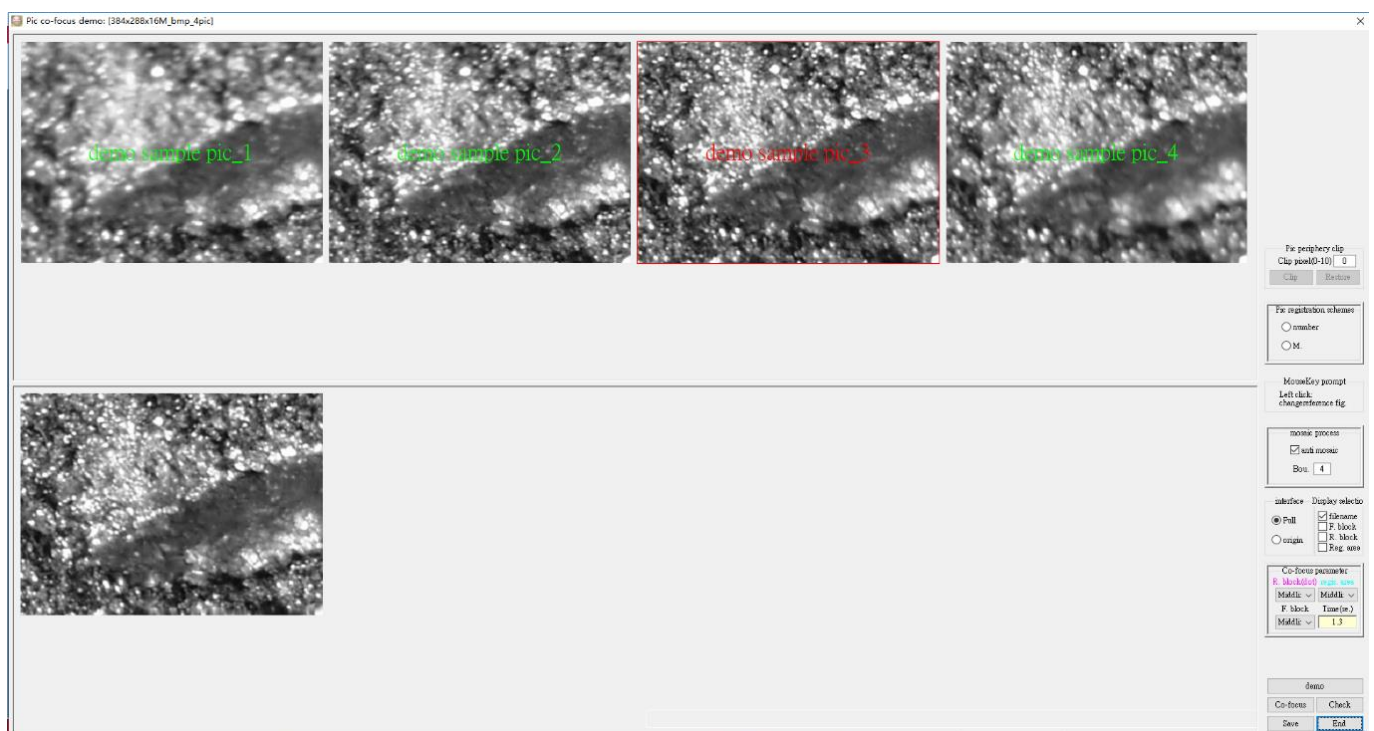
Select camera type

- Use UCMOS05100KPA camera
- ☒ Use TOUPCAMSDK camera
- Use DirectX pic capture
- Use TWAIN pic capture

◆ History info



◆ Professional function



A30.1810 Features

- Software installation is more intuitive and concise

The brand-new software installation, registration, and calibration guide mode are simple and clear, and can be completed by default prompts.

- Genuine Software Assurance System

After the software installation is completed, firstly activate the genuine software, and then register the computer hardware ID, so as to guarantee the rights and interests of customers.

- Requirement standard can be customized

In addition to standard detection modules, special detection modules can be customized according to customer needs, such as: enterprise standards, special industry standards, etc.

- Quick access to 7 inspection categories

Statistical production of 7 categories of quick entry: grain size, non-metallic inclusions, steel microstructure, decarburization layer analysis, gray iron, ductile iron, carbon steel spheroidization, etc., plus a metallographic teaching.

- Report templates can be modified

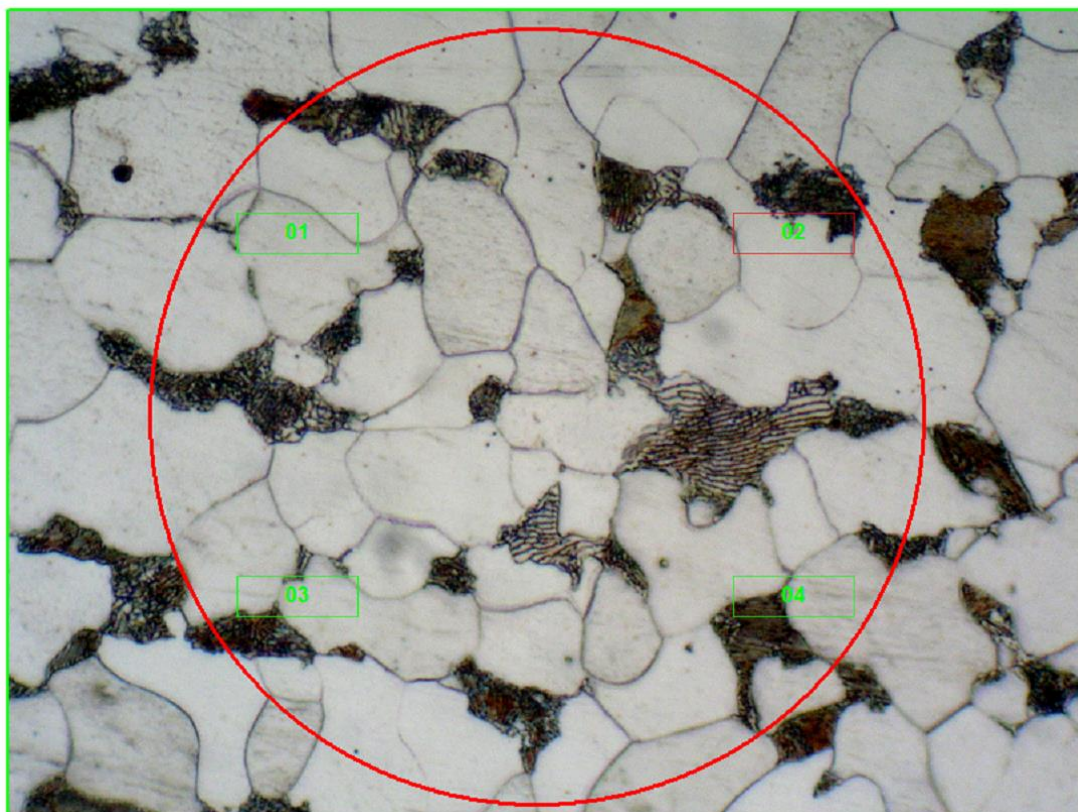
Report templates can be customized for different enterprises.

- Genuine software can be upgraded

According to the standard implementation time of the National Standardization Committee, the software is upgraded for free.

- Applicable to a wide range of computer systems

This software can be installed and run under Windows 7 and Windows 10.



MICROSCOPE IS OUR FOCUS

The Key To Micro World

Opto-Edu is one of the most professional supplier for microscope & educational instruments from China. We have been focusing in this field for more than 25 years, has a professional sales team who can assist our customer to find the BEST SELECTED microscope with competitive price and 3 YEARS Warranty.

25+ Year professional experience we know Microscopes the best!
150+ Microscope & accessory manufacturers supply all models from China
200+ Hot sale microscopes & Newest Models Updated Every Month
750+ Customer from all over the world & keep rising every day
1500+ Microscope products create your one-stop purchase platform
3000+ Educational Instruments For School, College And University Teaching
The Most Professional Microscope Manufacturer in China!



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