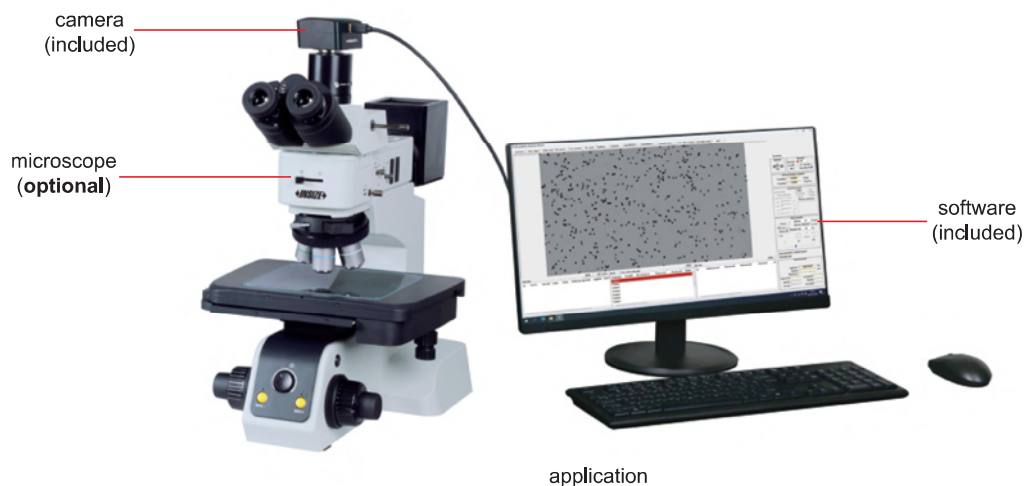
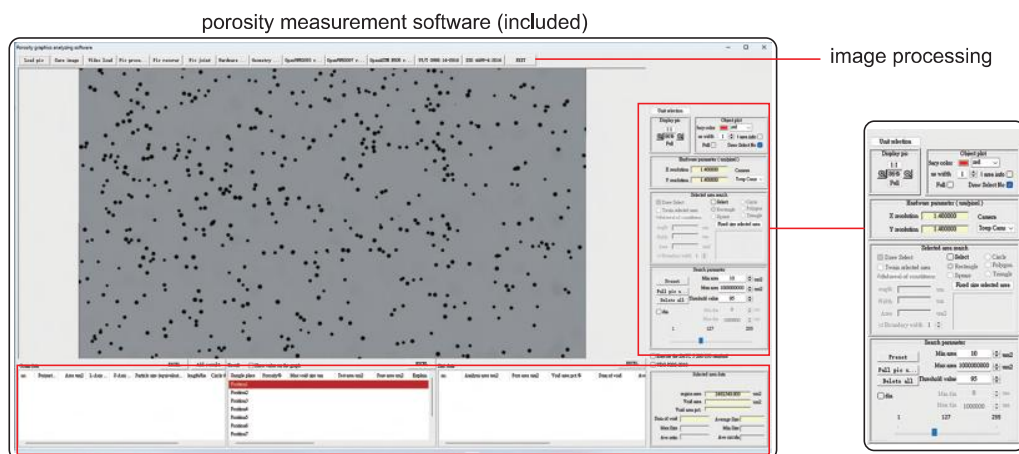


POROSITY MEASUREMENT SOFTWARE AND CAMERA CODE ISM-MAS200

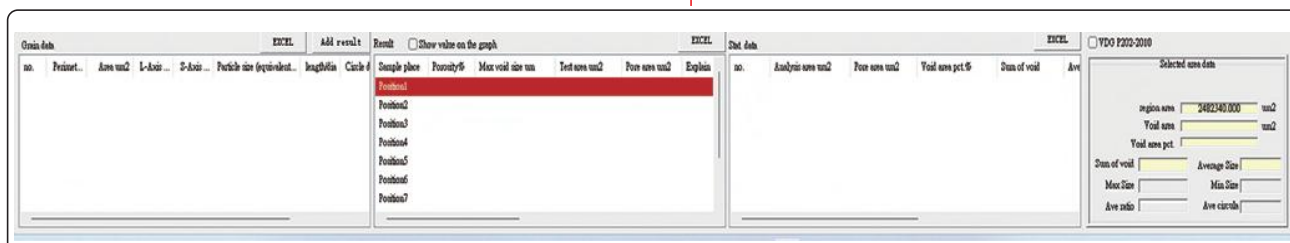


- Using advanced image processing algorithms, can accurately identify the boundaries between pores and solid parts
- One click measurement, simple and user friendly operation interface for quick operation mastery
- Clearly present porosity data and its distribution, conduct in depth analysis of measurement data
- Wide range of applications, compatible with multiple microscopes and cameras



Measuring tools:

- Select image resolution parameters
- Freely choose the measurement area
- Preset search parameters to search for various types of pores accurately



NO.	parameter	area	major	minor	diameter or	LD ratio	circularity	dist space
	(µm)	(µm²)	axis	axis	particle	aspect		
1	2359.65	96926	504.47	375.5	251.12	1.343	0.484	154.5
2	89.32	317.52	31.3	20.66	20.11	1.515	0.413	34.32
3	18.56	292.04	25.24	16.7	19.28	1.512	0.584	43.85
4	17.66	23.52	6.4	1.4	5.47	6	0.424	15.96
5	463.2	119.56	16.39	10.78	12.34	1.522	0.567	88.81
6	4146.79	54689.8	923.97	220.89	272.85	4.183	0.087	46.62
7	46.64	162.69	17.54	11.4	14.39	1.536	0.673	46.2
8	40	136.8	15.48	11.68	14.13	1.328	0.835	48.2
9	7193.15	206640	1198.37	748.08	815.39	1.482	0.214	36.75
10	41.04	133.26	14.41	11.87	13.03	1.205	0.817	70.68
11	16.32	27.44	6.26	3.76	5.91	1.687	0.981	15.96
12	37.08	101.82	13.28	9.74	11.39	1.364	0.736	16.8
13	15.15	23.52	6.26	3.13	5.47	5	0.764	16.8
14	16.78	23.52	8.52	2.3	5.47	3.7	0.413	28.31
15	24.72	60.76	8.96	7.23	8.8	1.242	0.983	90.13
16	245.27	1526.6	79.9	40.18	44.26	1.988	0.307	11.96
17	26.44	72.52	10.66	5.48	8.91	1.762	0.406	25.15
18	113.62	470.4	42.96	22.04	24.47	1.948	0.325	28.31
19	46.58	221.49	26.14	10.17	16.79	1.767	0.356	45.15
20	120.52	458.64	45.15	19.97	24.17	2.261	0.286	34.18
21	12.38	17.64	6.05	3.11	4.74	1.425	0.891	20.64
22	94.3	237.16	35.99	16.08	17.36	2.241	0.233	25.35
23	28.2	62.72	10.66	7.72	8.94	1.381	0.702	11.96
24	21.92	37.24	8.95	3.98	6.89	2.222	0.605	32.65
25	98.502	470.4	32.53	20.01	24.47	1.611	0.577	93.47
26	90	490	34.44	23.79	24.98	1.447	0.526	32.65
27	16.38	16.86	3.96	2.97	3.97	1.273	1.077	62.27
28	36.54	217.56	19.8	13.27	16.64	1.493	0.707	44.47
29	26.4	37.24	10.93	3.05	6.89	1.968	0.367	26.36
30	64.12	241.08	25.04	13.15	17.52	1.905	0.489	25.81
31	23.3	50.96	9.39	5.63	6.08	1.697	0.739	24.49
32	9.98	13.72	3.13	3.13	4.18	1	1.783	33.86
33	26.78	86.2	12.31	7.99	10.9	1.7	0.674	27.51
34	11.2	17.64	3.96	3.96	4.74	1	1.432	24.49
35	23.3	50.96	8.52	5.96	6.08	1.423	0.899	68
36	120.66	587.86	39.43	34.98	33.02	1.128	0.725	64.78
37	73.34	382.2	29.3	20.49	22.06	1.284	0.703	32.23
38	18.3	35.28	7.14	4.67	6.7	1.529	0.881	33.28
39	31.48	74.46	12.91	6.38	9.74	2.024	0.989	25.81
40	11.54	17.64	4.43	3.1	4.74	1.429	1.146	28.33
41	16.32	29.4	6.26	4.38	6.12	1.429	0.955	60.78
42	13.52	19.6	6.05	3.49	5	1.444	0.979	21.73
43	46.96	188.56	15.65	15.03	14.85	1.042	0.876	21.73
44	25.72	211.69	21.32	11.85	16.42	1.785	0.363	32.23
45	53.4	148.96	21.19	8.79	13.77	2.411	0.423	56.07
46	34.28	80.24	13.21	8.01	10.48	1.648	0.629	19.64
47	19.12	37.24	6.26	6.26	6.89	1	1.21	35.51
48	605.44	8644.8	154.92	99.88	84.78	1.651	0.264	44.62
49	117.38	480.2	45.43	19.03	24.73	2.288	0.299	26.64
50	18.3	35.28	7.14	4.67	6.7	1.529	0.881	19.64
51	16.45	64.16	41.16	6.62	16.16	6	0.645	16.4

pore statistics table

Porosity Inspection Report			
Settings			
Part Number	202000000001	Standard	VW50093
Objectives	20x	Calibration (mm/Pixel)	X1.400000 Y1.400000
Results:			
Test Position	Porosity (%)	Max.Pore size (µm)	Test Area (µm²)
		Pore Area (µm²)	Min.pch (µm)
			Evaluation of the results
Position	4.344	118.680	2047188.640
		88838.800	57.60
			VW50093-NS
Conclusion: PASS			
Average porosity: 4.344%, Max.Pore size: 118.680 µm.			
Comment:			
Report Number: 202000000001		Operator	hmk
Date:	2025-01-01		
Time:	09:00:00	Signature	

Full Image

Position

Measured Porosity: 4.344%

VW50093: VW50093-NS

Test Area: 2047188.640 µm

porosity inspection report

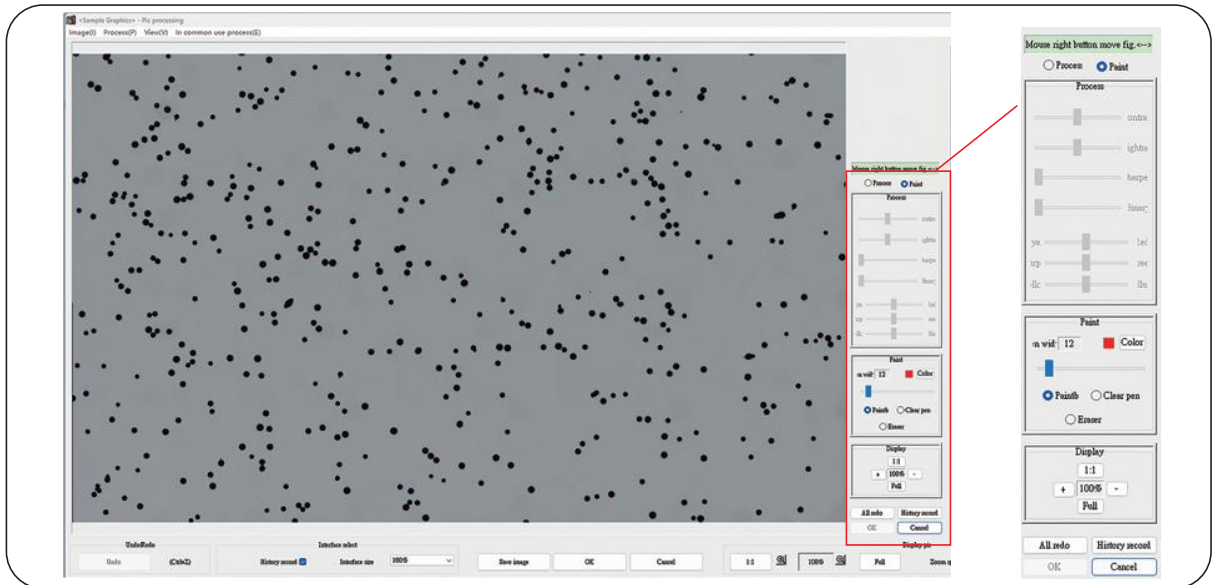


Image processing: adjustment of image contrast, brightness, sharpening, binarization, RGB values, etc..
Highlighting the contrast between pores and the base material to improve recognition accuracy.

SPECIFICATION

Sensor	1/1.8" CMOS
Pixel	6.3M
Resolution	3072×2048
Frame rate	30fps
Exposure time	0.1ms~15s
Power supply	USB port
Weight	400g

STANDARD DELIVERY

Camera	1pc
Software	1pc
Glass calibration rule	1pc

OPTIONAL

Microscope	5110-M900, 5108, 5102-M600, 5103-M1000
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microscope (optional)



camera (included)