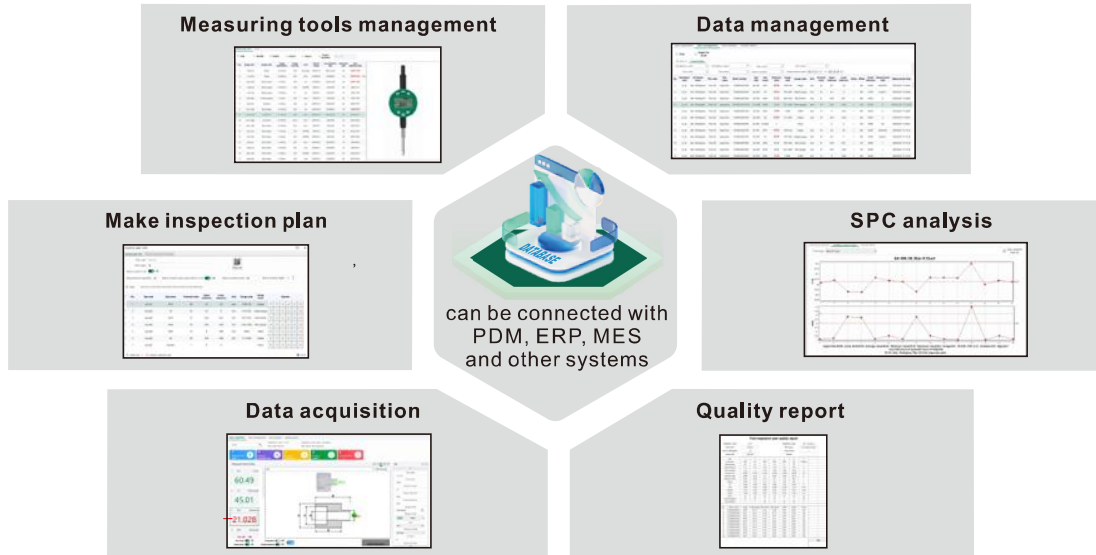


MEASUREMENT DATA MANAGEMENT AND ANALYSIS SOFTWARE



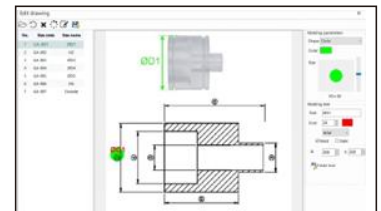
Measuring tools management

- Information, pictures and calibration date of measuring tools, can import and export Excel



Make inspection plan(edit inspection plan)

- Define the dimensions, tolerances, measuring tools, drawing guides and formulas of workpieces, can import and export Excel
- Define parameters, QR code and batches of control plans



Make inspection plan(drawing parsing)

- Parse workpiece dimension parameters from CAD, PDF and image-format drawings, generate bubble drawing with one-click
- Save parsed results as inspection plan, bubble-drawing highlight guidance for dimension measurement and data acquisition

Save **Load image** **Load PDF** **Load CAD** **Export** **Export to**

Bubble color: ☒ Red ☐ Blue ☐ Green ☐ Yellow ☐ Cyan ☐ Magenta ☐ Black

Bubble font color: ☒ Red ☐ Blue ☐ Green ☐ Yellow ☐ Cyan ☐ Magenta ☐ Black

OCR: ☒ ON

Workpiece code: A Workpiece name: A

Measurement parameters

Choice	Size code	Size name	USL	Nominal value	LSL	Upper tolerance	Lower tolerance	Gauge code	Gauge name
☐	1	15.4±0.02	15.42	15.4	15.38	+0.02	-0.02	1113-150	Built-in caliper
☐	2	15.4±0.02	15.42	15.4	15.38	+0.02	-0.02	1108-150	Wireless caliper
☐	3	15.4±0.02	15.42	15.4	15.38	+0.02	-0.02	3101-25A	Wireless Microm
☐	4	42°	42	42	42	0	0		
☐	5	33°	33	33	33	0	0		
☐	6	20±0.03	20.03	20	19.97	+0.03	-0.03		
☐	7	38.7±0.1	38.8	38.7	38.6	+0.1	-0.1		
☐	8	61.3±0.3	61.6	61.3	61	+0.3	-0.3		
☐	9	15	15	15	15	0	0		
☐	10	39.7±0.04	39.74	39.7	39.66	+0.04	-0.04		
☐	11	12.2	12.2	12.2	12.2	0	0		
☐	12	13.1±0.01	13.11	13.1	13.09	+0.01	-0.01		
☐	13	17.6±0.02	17.62	17.6	17.58	+0.02	-0.02		
☐	14	9.8	9.8	9.8	9.8	0	0		
☐	15	5.2	5.2	5.2	5.2	0	0		
☐	16	11.4	11.4	11.4	11.4	0	0		
☐	17	8.3	8.3	8.3	8.3	0	0		
☐	18	22	22	22	22	0	0		
☐	19	4.3±0.02	4.32	4.3	4.28	+0.02	-0.02		
☐	20	5.4	5.4	5.4	5.4	0	0		
☐	21	9.6	9.6	9.6	9.6	0	0		
☐	22	60.4±0.02	60.42	60.4	60.38	+0.02	-0.02		
☐	23	122.2±0.2	122.4	122.2	122	+0.2	-0.2		
☐	24	75.6±0.02	75.62	75.6	75.58	+0.02	-0.02		
☐	25	89.8	8.8	8.8	8.8	0	0		
☐	26	11.2	11.2	11.2	11.2	0	0		
☐	27	R2	2	2	2	0	0		

tolerances parsed from drawing

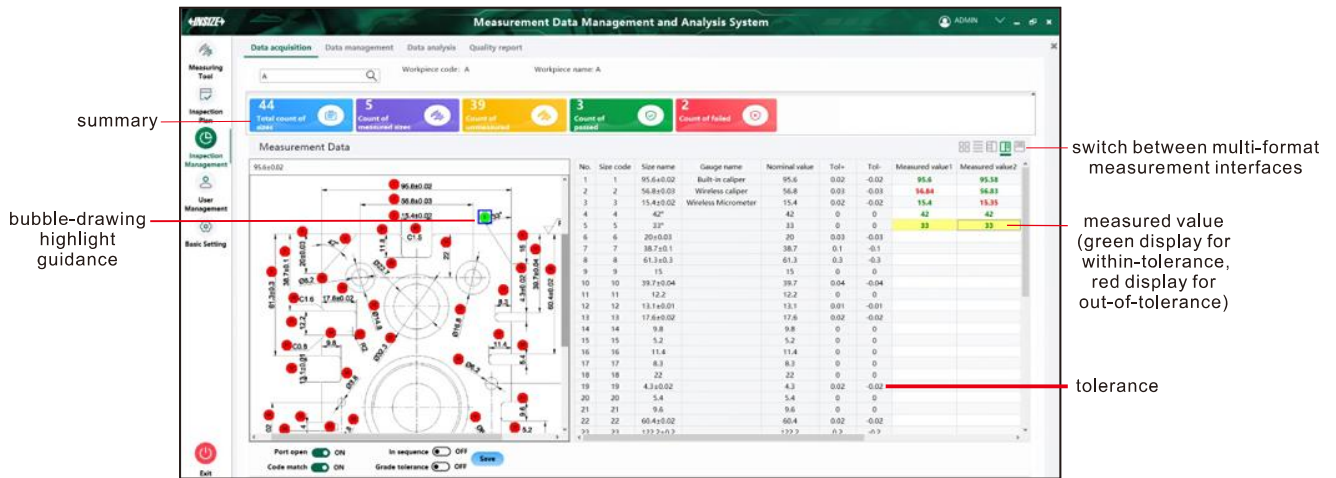
bubble-drawing highlight guidance

automatically generate bubble drawing

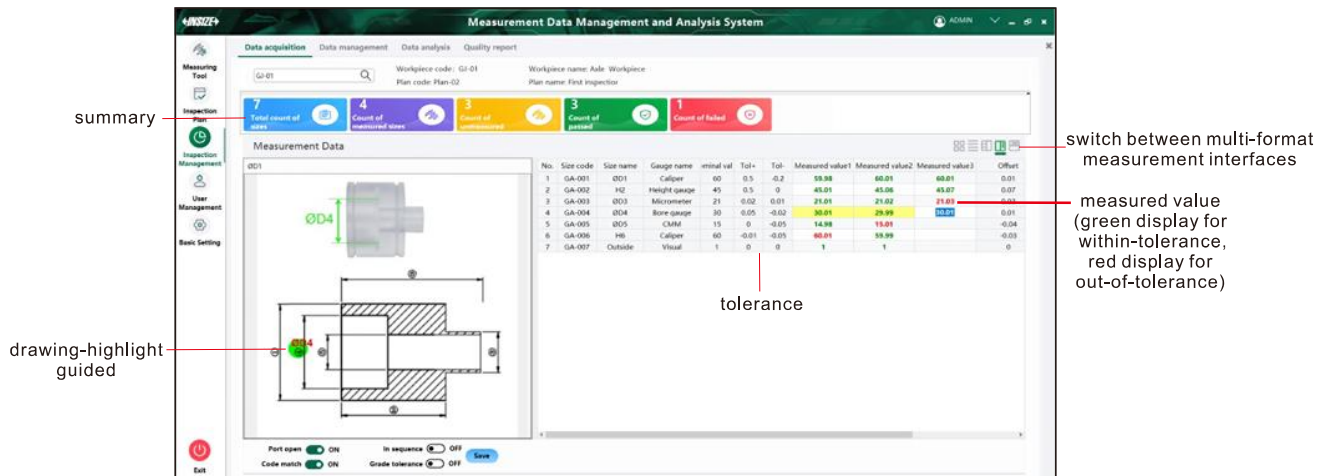
global navigation view

Data acquisition

- Bubble-drawing highlight guided measurement after drawing parsing

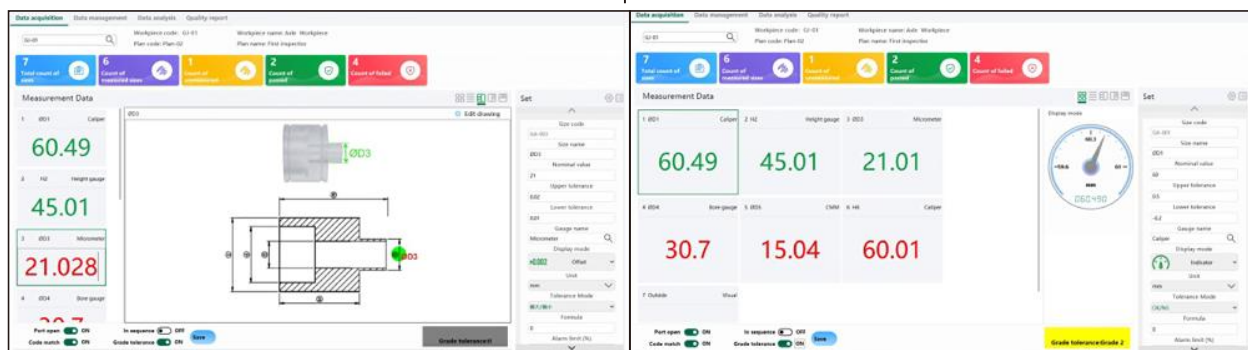


- Drawing-highlight guided measurement



- Data acquisition from measuring tools with support for multiple modes
 - manual input: data input with keyboard
 - data transfer: data collection with data output cable
- Support a variety of visual displays such as meters, trend graphs, levels, temperatures and deviations

Multi-visual acquisition interfaces



Data management

- Query measurement data (red display for out-of-tolerance) and result status (OK/NG, Rework, UpMax/LowMin), can export Excel

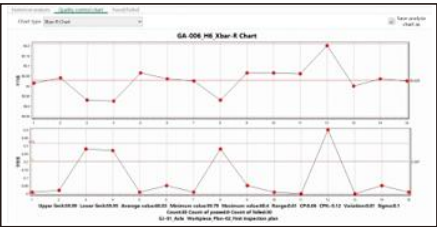
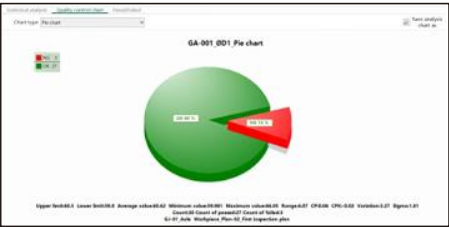
Data acquisition		Data management		Data analysis		Quality report													
Find		Export to excel																	
Workplace code		Workplace name		Plan code	Plan name		Measurement date 2025-02-27 14:17 to 2025-02-28 14:17												
Size code		Size name		Batch number		Measurement date 2025-02-27 14:17 to 2025-02-28 14:17													
No.	Workplace code	Workplace name	Plan code	Plan name	Batch number	Size code	Size name	Measured value	Range	Gauge name	Unit	Normal value	Upper tolerance	Lower tolerance	Status	Offset	Grade	Measurement date	Measurement date
1	GA-001	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-001	001	68.99	1109-100	Caliper	mm	60	63	-6.2	+	NG	0.00	2025/02/27 17:20:00	
2	GA-001	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-002	002	45.33	1106-000	Height gauge	mm	45	53	8	+	NG	0.00	2025/02/27 17:20:00	
3	GA-001	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-003	003	21.88	2109-20A	Microometer	mm	21	22	0.01	+	NG	0.00	2025/02/27 17:20:00	
4	GA-004	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-004	004	30.03	1122-100	Bore gauge	mm	30	30.05	-0.02	+	OK	0.00	2025/02/27 17:20:00	
5	GA-001	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-005	005	19.00	0069	0069	mm	15	0	-0.05	+	NG	0.00	2025/02/27 17:20:00	
6	GA-001	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-006	006	60.00	1110-200	Caliper	mm	60	-0.01	-0.05	+	NG	0.00	2025/02/27 17:20:00	
7	GA-001	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-007	007	0.00	0.00	0.00	mm	0	0	0	+	OK	0.00	2025/02/27 17:20:00	
8	GA-001	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-001	001	68.99	1109-100	Caliper	mm	60	63	-6.2	+	NG	0.00	2025/02/27 17:11:53	
9	GA-001	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-002	002	45.32	1106-000	Height gauge	mm	45	53	8	+	NG	0.00	2025/02/27 17:11:54	
10	GA-001	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-003	003	21.00	2109-20A	Microometer	mm	21	22	0.01	+	OK	0.00	2025/02/27 17:11:54	
11	GA-001	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-004	004	30.02	1122-100	Bore gauge	mm	30	30.05	-0.02	+	OK	0.00	2025/02/27 17:11:54	
12	GA-001	Auto Workplace	Plan-02	Inspection	PH0203027026	GA-005	005	19.00	0069	0069	mm	15	0	-0.05	+	NG	0.00	2025/02/27 17:11:54	

SPC analysis

- Parameters of SPC analysis: average, min value, max value, range, Cp, Cpk, variation, sigma, counts of OK/NG, can export Excel

▶ Add Worksheet(s)...	Test inspection planfile																
▶ Add Worksheet(s)...	No.	Workplace code	Machine name	Normal value	Upper limit	Lower limit	Average value	Minimum value	Maximum value	Range	CP	Cpk	Variation	Sigma	Count	Count of passed	Count of failed
▶ Add Worksheet(s)...	1	GA-001	001	60	60.1	59.8	60.625	56.981	66.85	6.869	0.084	-0.023	1.273	1.696	33	27	3
▶ Add Worksheet(s)...	2	GA-002	002	45	45	45.5	45.140	44.01	45.56	0.550	0.082	0.165	0.087	0.266	33	23	7
▶ Add Worksheet(s)...	3	GA-003	003	21	21.02	21.01	21.048	21	21.11	0.110	0.047	-0.205	0.031	0.076	33	6	24
▶ Add Worksheet(s)...	4	GA-004	004	30	30.05	29.99	30.084	29.95	30.17	0.120	0.086	-0.084	0.031	0.178	33	15	15
▶ Add Worksheet(s)...	5	GA-005	005	15	15	14.95	15.058	14.96	15.6	0.640	0.080	-0.180	0.011	0.105	33	4	26
▶ Add Worksheet(s)...	6	GA-006	006	60	59.99	59.95	60.028	59.79	60.4	0.410	0.004	-0.120	0.011	0.105	33	0	33
▶ Add Worksheet(s)...	7	GA-007	Outside	1	1	1	0.999	0	1	1.000	0.000	-0.111	0.090	0.300	33	27	3
▶ Sampling PlanFile...																	

- Provide variety of quality analysis control charts: Pie Chart, X Chart, Xbar-R Chart, Xbar-S Chart, I-MR Chart and Run Chart, can export JPEG image



Quality report

- Generate quality reports with control plan information, SPC parameters, and measurement data, can export Excel

First inspection plan quality report									
Workplace code		GA-01		Workplace name		Auto Workplace			
Plan code		Plan-02		Plan name		First inspection plan			
Count of Workplace		30		Count of size		7			
Export date		2025-02-08							
Item		1	2	3	4	5	6	7	
Size name		0001	0002	0003	0004	0005	0006	0007	Outside
Normal value		60	45	21	30	15	60	1	
Upper tolerance		63	53	0.02	33.02	0.02	63	0	
Lower tolerance		-6.2	0	0.01	-0.02	-0.01	-6.2	0	
Average value		60.625	45.140	21.048	30.084	15.058	60.028	0.0	0.0
Minimum value		59.981	44.01	21	29.95	14.96	59.79	0	0
Maximum value		62.95	45.56	21.11	30.1	15.1	60.4	1	1
Range		0.009	1.03	0.11	0.15	0.04	0.61	1	1
CP		0.089	0.082	0.047	0.086	0.080	0.089	0	0
Cpk		0.023	0.165	-0.205	-0.084	-0.180	-0.120	-0.111	-0.113
Variation		0.023	0.087	0.001	0.021	0.011	0.011	0.08	0.08
Sigma		1.273	0.206	0.030	0.176	0.105	0.105	0.3	0.3
Count		30	30	30	30	30	30	30	30
Count of passed		27	23	6	15	4	0	0	27
Count of failed		3	7	24	15	29	30	30	3
No.	Batch number	Caliper	Height gauge	Microometer	Bore gauge	0069	Caliper	Visual	
1	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
2	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
3	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
4	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
5	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
6	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
7	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
8	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
9	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
10	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
11	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
12	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
13	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
14	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
15	PH0203027026	60 mm	45 mm	21 mm	30 mm	15 mm	60 mm	1 mm	
Signature									

Code	Measuring Tools Management	Inspection Plan		Data Acquisition		Data Management	SPC Analysis	Quality Report
		Edit inspection plan	Drawing Parsing	Bubble-drawing guided measurement after drawing parsing	Drawing-highlight guided measurement			
7349	✓	✓			✓	✓	✓	✓
7349-TA	✓	✓	✓	✓	✓	✓	✓	✓