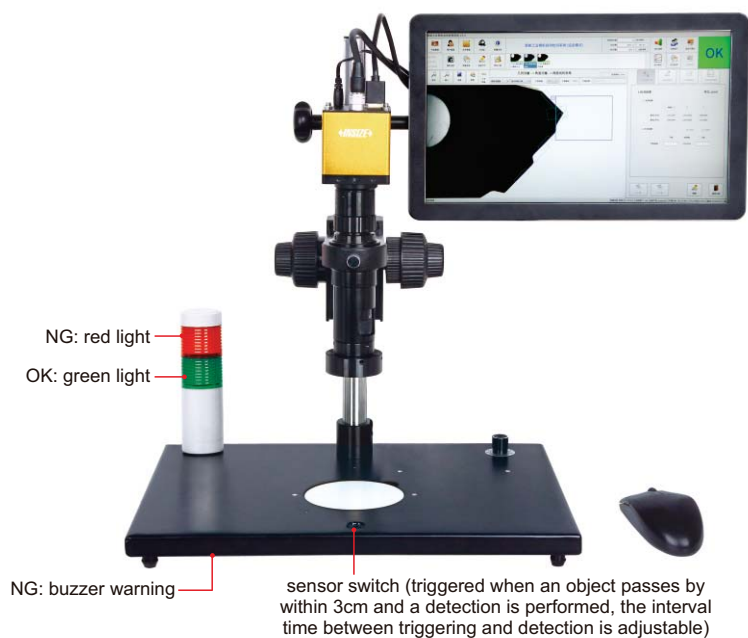


SMART MICROSCOPE
CODE ISM-DL400

AUTOMATICALLY LOCATE WORKPIECES
REGARDLESS OF POSITION AND DIRECTION

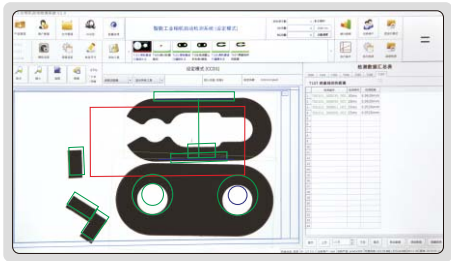
BUILT-IN SOFTWARE
WITHOUT COMPUTER



camera function

- surface defect detection
- dimension measurement
- read barcode
- burr detection
- contour matching
- character recognition
- color detection
- read QR code
- object counting
- thread measurement

detect multiple different workpieces at one time



- Automatically identify different workpieces
- Automatically locate workpieces regardless of position and direction
- Built-in software, PLC control input and output interface
- Including multiple detection tools
- Automatically calculate, store the test results and export to Excel

Statistical report						
Tool ID	Tool Name	Detection Time	OK Count	NG Count	Good Rate	Detection Rate
T100	Photo Machine	400	200	200	50.00%	40.00%
T101	Cluster	50	10	40	20.00%	20.00%
Summary		450	210	240	46.67%	33.33%

report showing the perform times of each tool, quantity of OK and NG, the report can be saved

Inspection data summary table					
Tool ID	Tool Name	T100	T101	T102	
T102 Cluster					
Detection number	Detection time	Detection color	Number of spots	Maximum radius	
1	700101_000041_001	33ms	白色	0	0.0000mm
2	700101_001151_001	31ms	白色	0	0.0000mm
3	700101_001192_001	31ms	白色	0	0.0000mm

report of each detection is automatically created and saved

SPECIFICATION

Magnification	15X~100X
Resolution	1920×1080
Pixel	2M
Single pixel size	3.75×3.75μm
Frame rate	60fps
Sensor	1/2" CMOS
Chip structure	FPGA+ARM
Opreating system	Linux 3.10
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm
Weight	6.5kg

STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
HDMI cable	1 pc
Power adapter	3 pcs

MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

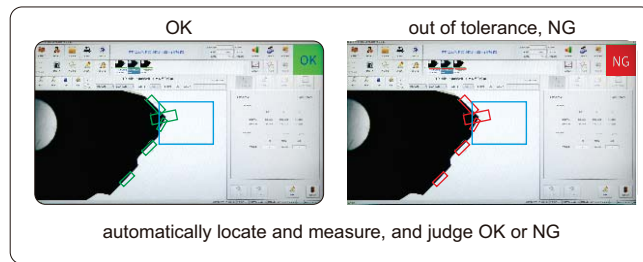
Auxiliary objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	Magnification	15~100X	30~200X
	Focus distance	70±2mm	70±2mm
	View filed	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm
2X (optional)	Magnification	30~200X	60~400X
	Focus distance	29±2mm	29±2mm
	View filed	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm

OPTIONAL ACCESSORY

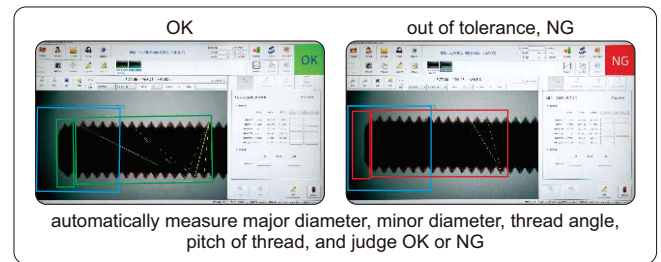
1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
LED auxiliary illumination	ISM-DL-LED
Coaxial light illumination	ISM-DL-COAXIAL
Auxiliary objective	page 276

APPLICATION EXAMPLES:

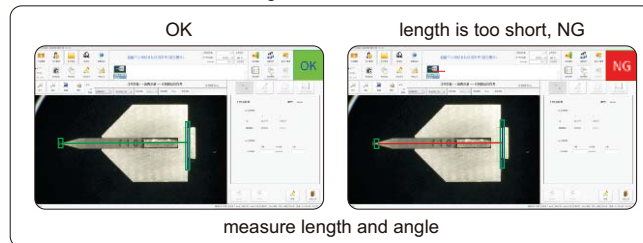
dimension measurement



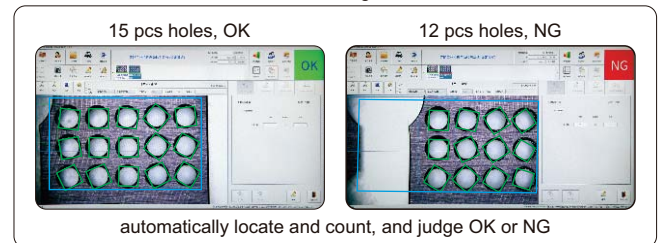
thread measurement



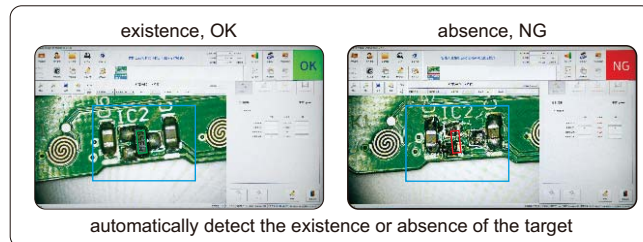
cutting tools measurement



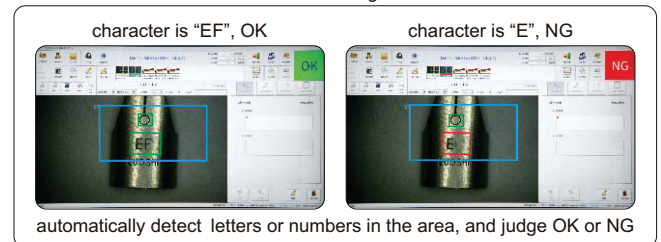
counting



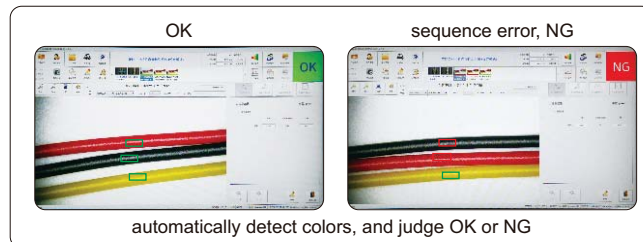
existence or absence



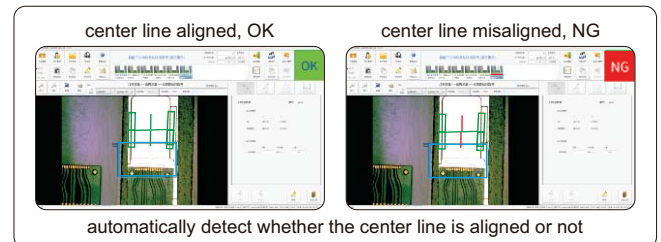
character recognition



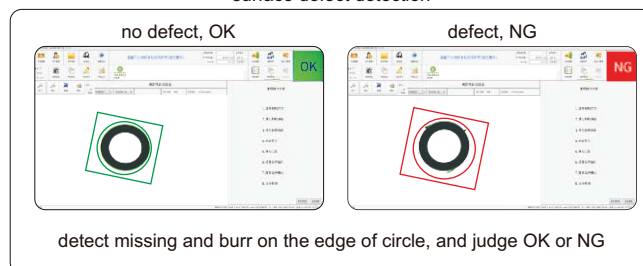
color detection



location detection



surface defect detection



glue detection

