# SMART MICROSCOPE
PART NO. ISM-DL402

**AUTOMATIC RECOGNITION** **AUTOMATIC MEASUREMENT** **AUTOMATICALLY LOCATE WORKPIECES REGARDLESS OF POSITION AND DIRECTION**

power, serial and I/O port RJ45 port

power indicator light
TRIG indicator light
RJ45 indicator light
fault indicator light

computer (included)
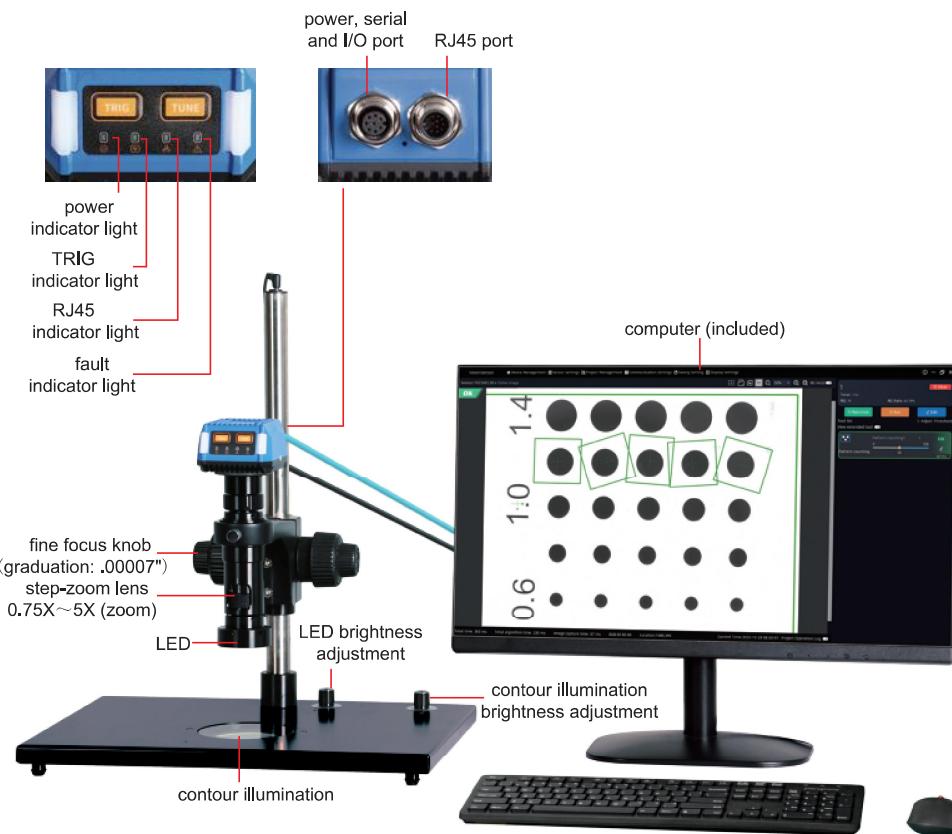
camera function
- dimension measurement
- contour matching
- object counting
- character recognition
- color detection
- read QR code

- Industrial vision inspection
- Automatically identify different workpieces
- Automatically locate workpieces regardless of position and direction
- Supporting industrial communication protocols (TCP/IP, ModBus TCP, ModBus RTU, Profinet, Ethernet/IP, Seria, MELSEC/SLMP)
- Including multiple detection tools

fine focus knob
(graduation: .00007")
step-zoom lens
0.75X～5X (zoom)

LED

LED brightness adjustment

contour illumination brightness adjustment

contour illumination
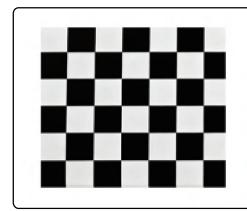
2.48×2.48"/63×63mm calibration plate with .039"/1mm graduation (included)

SPECIFICATION

Magnification*	13.5X~90X
View field	.669×.551~.098×.078"
Sensor	1/1.8" CMOS
Pixel	5M
Resolution	2448×2048
Frame rate	30fps
Focus distance	2.755±.078"
Output	RJ45
Power Supply	power adapter
Dimension (L×W×H)	22.44×11.81×16.93"
Net weight	13.227lb

*Magnification for using the measuring tool : 13.5X~54X

STANDARD DELIVERY

Main unit (with stand)	1pc
0.5X camera adapter	1pc
1X auxiliary objective	1pc
Mouse	1pc
LCD (21.5")	1pc
Computer	1pc
Calibration plate	1pc
Communication cable	1pc
Power cable	1pc
Power adapter	1pc

dimension measurement

OK	out of tolerance,NG

automatically locate and measure, and judge OK or NG
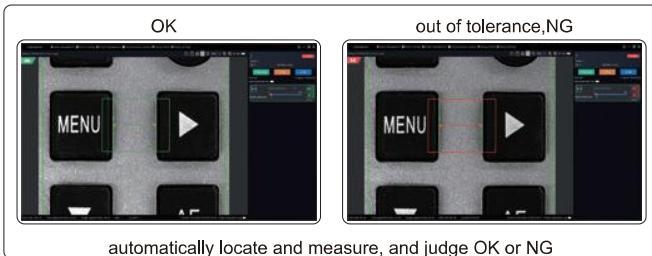
Ccircle diameter inspection

OK	out of tolerance,NG

detection circle diameter, and judge OK or NG

character recognition

character is "PCB1946V0.3", OK	character is "PCB1946V0.", NG
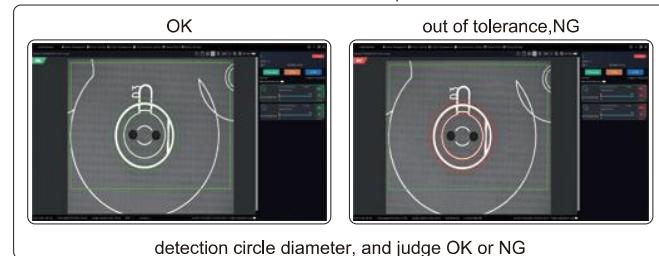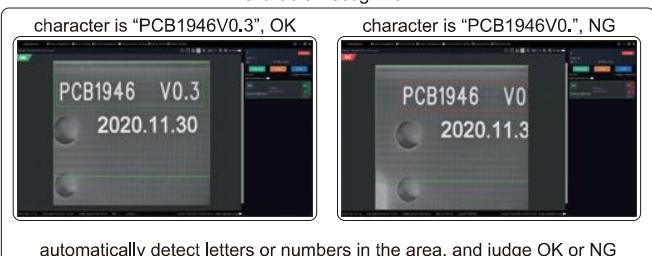
automatically detect letters or numbers in the area, and judge OK or NG

counting

5 circles, OK	4 circles, NG
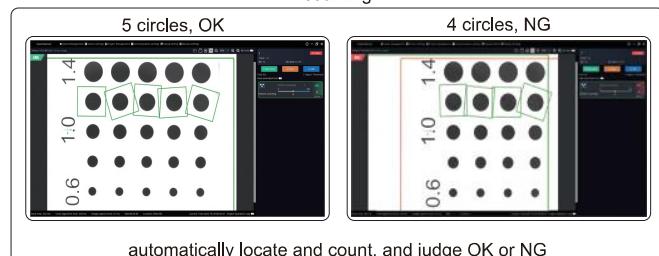
automatically locate and count, and judge OK or NG

existence or absence

chip resistor , OK	absence, NG
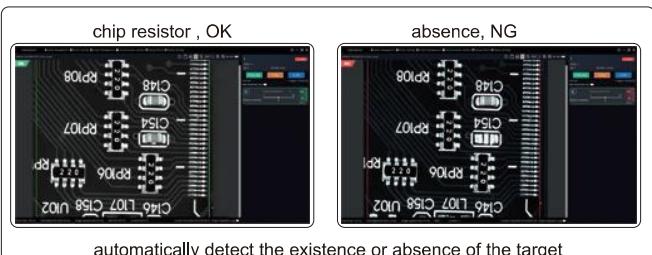
automatically detect the existence or absence of the target

QR code recognition

OK	NG
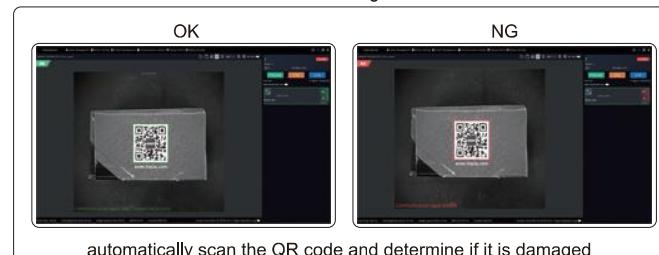
automatically scan the QR code and determine if it is damaged

SOFTWARE FOR COMPUTER (INCLUDED)

real-time image

tools editing portal

measurement results