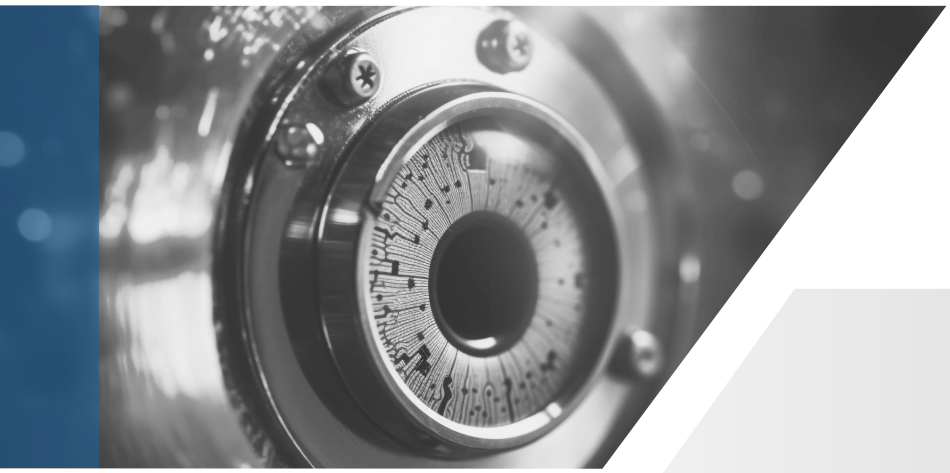
Fixed Industrial Scanner

VER. 20261123

ZX-4020 NEW

Fixed Industrial Vision Camera (PRELIMINARY)







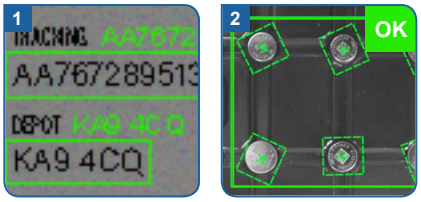
The ZX-4020 is a high-performance industrial vision recognition sensor that delivers fast and accurate identification even in the most challenging production environments. Utilizing advanced deep learning algorithms, it can perform visual inspection applications such as OCR and classification with only a small number of samples.

The ZX-4020 features a rugged design with an IP67-rated housing, effectively protecting against dust and water, ensuring reliable operation in harsh industrial environments. It supports a wide working distance from 100mm to 1000mm and maintains clear image quality across various installation settings and product sizes through mechanical focusing.

Its flexible lighting system is a major highlight. Users can independently control four light groups and customize up to 16 lighting modes. This flexibility enables optimal illumination in both bright and dark conditions, improving AI inspection accuracy across various surface textures and lighting environments.

- 100–1000 mm working distance with adjustable lenses
- Integrated deep learning algorithms enable OCR and classification applications
- 4-zone lighting with 16 configurable patterns
- One-click setup for fast calibration

1.OCR (Text Recognition)
2.AI image Recognition



OPERATIONAL

Illumination Element	Polarized White Light
Optical System	1920 x 1200 CMOS
Field of View	720 x 450mm (@1000mm)
Depth of Field	100mm ~ 1000mm (Mechanical Focus)
Indicator	5 status LEDs and Buzzer
System Interface	RS232, Ethernet (TCP Server, TCP Client, ModBus TCP, ModBus RTU, Profinet, MEMSEC/SLMP, Serial)

PHYSICAL

Dimension	58 x 53.5 x 83 mm
Weight	about 220g

POWER

Input Voltage	24V DC
Power Consumption	24W

REGULATORY

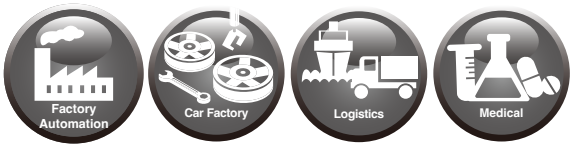
EMC	CE, FCC, VCCI, BSMI, UKCA

ENVIRONMENTAL

Operating Temperature	0°C ~ 45 °C
Storage Temperature	-20°C ~ 70°C
Humidity	5% ~ 95% RH (non-condensation)
Environmental Sealing	IP67

FUNCTION

Function	Position correction, Presence / Absence check, OCR, Code Reading, Counting, Detection, Logic judgment.



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