

Fixed Industrial Scanner

VER. 20260922

ZX-3020

Fixed Industrial Scanner (PRELIMINARY)



The ZX-3020 is a high-performance industrial code reader built for fast, accurate decoding even in the most challenging production environments. Powered by a quad-core processor and advanced deep learning algorithms, it excels at reading codes that are damaged, low contrast, distorted, or located on irregular surfaces with remarkable reliability.

Designed for robustness, the ZX-3020 is housed in an IP67-rated enclosure that protects it from dust and water, ensuring reliable operation in harsh industrial conditions. It supports a broad working distance from 100 mm to 1000 mm, with mechanical focus adjustment to maintain sharp image quality across various installation setups and product sizes.

Its flexible lighting system is one of its standout features. Users can independently control four groups of lights with up to 16 customizable lighting patterns. This adaptability allows optimal illumination for both bright-field and dark-field conditions, improving code visibility on diverse surface textures and lighting environments.

- 100–1000 mm working distance with adjustable lenses
- high-speed decoding with quad-core processor
- 4-zone lighting with 16 configurable patterns
- One-click setup for fast calibration
- Supports 32-device network integration

1. One-key adjustment for efficient production
2. Supports DPM barcode reading



OPERATIONAL

Illumination Element	Polarized White Light
Optical System	1280 x 800 CMOS
Scan Angle	480 x 300 mm (@1000 mm)
Depth of Field	100 mm ~ 1000mm (Auto Focus)
Indicator	5 status LEDs
System Interface	RS232, Ethernet (TCP Server, TCP Client, ModBus TCP, ModBus RTU, Profinet, Ethernet/IP, MEMSEC/SLMP, Fins, Serial)

PHYSICAL

Dimension	58 x 53.5 x 83 mm
Weight	about 220g

POWER

Input Voltage	24 VDC
Power Consumption	15W

REGULATORY

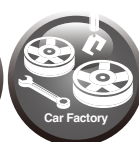
EMC	CE, FCC, VCCI, BSMI, UKCA
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ENVIRONMENTAL

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

DECODING CAPABILITY

1D Barcode	Code39, Code93, Code128, EAN-8, EAN-13, Interleaved 2 of 5, Pharmacode, UpcA, UpcE, UpcEanExtension, Codebar
2D Barcode	QR code, DataMatrix, MicroQR, PDF417, Aztec, Maxicode



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