

Z-5422 NEW

2D Image Scan Module (Preliminary)

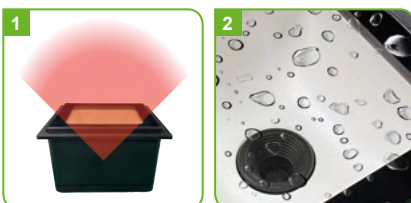


The Z-5422 is a compact 2D embedded scan module designed to deliver fast and reliable barcode decoding performance. It supports all major 1D barcodes and standard 2D symbologies, including PDF417, QR Code, and Data Matrix. With its high-performance CMOS image sensor and optimized illumination system, it ensures stable reading across a wide range of media, including paper labels, plastic surfaces, and LCD/mobile screens. Featuring a compact all-in-one design, the Z-5422 integrates a decoding engine and USB interface within a minimal footprint, making it easy to embed into space-constrained devices. Its large scan window and optimized optical design provide intuitive aiming and efficient scanning performance, improving overall usability in high-traffic environments.

Built with IP65-rated protection, the Z-5422 is designed to withstand dust and water exposure, ensuring reliable operation in demanding environments. It is well-suited for a wide range of self-service and automation applications, including point-of-sale systems, kiosks, payment terminals, gaming machines, and other embedded scanning solutions.

- Large scan window for intuitive and easy operation
- Supports barcode reading directly from mobile screens
- IP65-rated protection against dust and water
- Compact design for easy and flexible integration
- Fast and accurate decoding of 1D and 2D barcodes
- Stable performance under various lighting conditions

1. Large-Window Scanning
2. IP65 Weatherproof



OPERATIONAL

Illumination Element	White LED
Image Sensor	640 x 480 CMOS
Depth of Field	Code128 (13 mil) : 5 – 130 mm EAN 13 (13 mil) : 5 – 120 mm (Note: DOF may vary depending on environment condition and barcode quality.)
Min. Bar Width	1D ≥ 5 mil
Print Contrast	20% @ UPC/EAN 100%
System Interface	USB

PHYSICAL

Dimension	67.2 x 78.3 x 48.6 mm
Weight	150 g

POWER

Input Voltage	5 VDC ± 10%
Operating Current	230 mA @ 5V (Typical)

REGULATORY

EMC	CE & FCC DOC compliant; VCCI; BSMI
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ENVIRONMENTAL

Operating Temperature	-10°C ~ 55°C
Storage Temperature	-20°C ~ 70°C
Humidity	0% ~ 95% RH (non-condensing)
Light Level	Max. 100,000 Lux
Environmental Sealing	IP65

DECODING CAPABILITY

1D Barcode	Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93 UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, MSI, etc.
2D Barcode	PDF417, DataMatrix, QR code

