

RUGGED COMPACT INDUSTRIAL SCANNER

VL91 MODEL



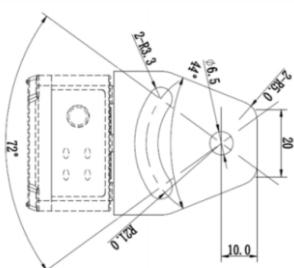
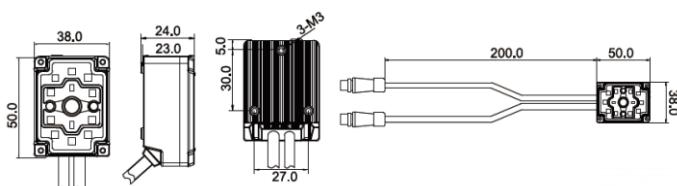
- Autofocus and auto-optimization of code reading parameters
- Powerful image processing and decoding algorithm
- Industrial design for harsh environment
- 1D,2D codes reliable scanner
- Embedded communication options - Ethernet, RS232, USB simulation serial port and Keyboard port
- Aluminum body with IP65 protection for harsh work conditions



Compact Industrial Scanner



CE **RoHS**



VL91 is an industrial reader based on embedded installation in V5 Group series products.

Adopting the global popular image scanning technology, equipped with industrial global shutter image sensor and advanced image processing and decoding software, it can read all kinds of standard one-dimensional and two dimensional barcodes.

Powerful reading ability of DPM makes it suitable to be used in many manufacturing applications.

Excellent code reading performance

Read all paper /DPM / inkjet label barcode quickly. Even slightly defaced or distorted barcodes can be corrected and decoded by the built-in image processing technology, so it is more suitable for real application.

Compact and enclosed design

Small size, suitable for embedded installation in a compact space. IP65 protection level makes it compatible with many tough environments.

Auto focus

Micro driving technology is used for automatic object detection optical focusing at different reading distances. Assembly distance is never a trouble.

Powerful optical configuration

Embedded with combinations of high-intensity lighting, it can provide the best lighting for codes on different materials' surface.

VL91 High density version can read over 2mil of 2-D barcodes

Applications



Home Appliances



Electronics
Manufacturing



Automobile
Manufacturing



Transportation
and Logistics



DPM Reading



Solar energy industry



Device integration



Product
traceability



Laser marking and
ink-jet marking



Pharmaceutical
industry

Performance Parameters

Image Resolution	1024×800
Sensor	1/4inch CMOS
Frame Rate	72frame/s
Trigger Mode	Command trigger; I/O trigger; Continuous reading mode; Presentation Mode
I/O Type	2 isolated inputs;2 isolated outputs
LED	4 LED indicator lights (power, reading success, reading failure, Auto focus and parameter adjustment)
Illumination	High brightness / polarization / atomization light source; red / White / Blue optional LED light source
Aiming system	Laser aiming
Focusing mode	Auto focus
Embedded communication interfaces	Ethernet, RS232, USB simulation serial port and keyboard port

Electrical characteristics

Power Supply	24VDC
Power Consumption	2.5W(Standby status),11.5W (Peak)(Note 1)

Mechanical characteristics

Scanner body material	Aluminum alloy
Weight	105g
Dimensions	50 × 38 × 24.5mm (L×W×H)

Decode Capability

1D Barcode	Codabar, Code 11, Code 39, Code 93, Code 128/EAN128, EAN.UCC Composite, Interleaved 2 of 5,MSI Code, Planet, Plessey Code, Postnet, RSS, Standard 2 of 5, Telepen, UPC/EAN, etc.
2D Barcode	PDF417, QR code, Matrix 2 of 5, MicroPDF417, Australian Post, Canada Post, Japan Post, MaxiCode, Codablock, Aztec, Dutch Post, TLC 39,DataMatrix, etc.
Readable symbols	Readable 1D,2D and stack codes that meet national and international standards, OCR-A, OCR-B
Reading accuracy	1D code : 1.8mil / 2D code : 2mil
Note 1: Measured without external load.	

Reading performance

30mm reading distance	FOV 17*13mm - 2mil reading accuracy
50mm reading distance	FOV 31*25mm - 3.7mil reading accuracy

Environment

Operating Temperature	-20 °C~60 °C
Storage Temperature	-30 °C~70 °C
Humidity	5%~95%(relative humidity, non-condensing)
Protection rating	IP65

Note 2: Performance may be affected by barcode quality and environmental condition.

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