

## FIXED DATAMATRIX & BARCODE SCANNER

VL105 MODEL



- Autofocus and auto-optimization of code reading parameters
- Powerful image processing and decoding algorithm
- Easy to control and integrate design
- Multiple-lighting unit
- Visual configuration software

# Compact Industrial Scanner



## Special integrated lighting

- ◇ The design of array light source ensures the uniformity of light intensity in the field of vision.
- ◇ The groups of area light source can be controlled independently to meet the requirements of different reading applications.
- ◇ Three lighting colors could be selected, that is red, white, blue. For high reflective surface, polarization
- ◇ light source and atomization light source can be selected.

## Visual setup software

- ◇ Online image view, convenient for installation and deployment.
- ◇ The graphical I / O logic setting interface facilitates the interaction with peripheral devices.
- ◇ Configuration parameters of the device and the output data.
- ◇ Windows version and Mac version are available.

## Industrial product standard

- ◇ IP65 dust proof and waterproof grade.
- ◇ Multiple I / O interfaces to meet industry standard.
- ◇ Support industrial field communication protocol, and support both TCP\IP Ethernet and RS232 communication mods .
- ◇ The chassis can rotate 90 degrees for easy installation in narrow space.

## Applications



Solar energy industry



Electronic manufacturing



Automobile manufacturing



Device integration



Product traceability



Laser marking and  
ink-jet marking

VI105 is an industrial code reader with autofocus. It has 1.2 megapixel High Performance CMOS sensor, multiple lighting units and powerful image processing and decoding algorithm. In the face of challenging application scenarios such as high-speed and high-frequency reading, high-density barcode reading and DPM barcode reading, FV105 can provide users with better reading and operation experience.

## Auto focus and auto optimization of code reading

- ◇ The built-in auto focus algorithm can automatically lock the focus distance according to reading requirement.
- ◇ The built-in parameters auto-adjustment algorithm can automatically adjust and optimize the camera's parameters according to the site environment and focusing distance.

## Powerful image processing and decoding algorithm

- ◇ Read 1.6 mil high density bar code and 1.2 mm × 1.2 mm micro bar code.
- ◇ Read up to 99 bar codes in the effective field of vision at one time.
- ◇ Excellent reading performance for challenging barcodes such as stained, distorted, low contrast and DPM.
- ◇ Meet the requirements of high frequency and high speed.

## Easy to control and integrate design

- ◇ Multiple I/O interfaces, different operating modes and output modes can be easily configured.
- ◇ Work together with ECS control box to realize the coordination of multiple devices, in order to meet the requirements of large field reading.
- ◇ Development of light source, algorithm and communication protocol can be carried out according to customer requirements.

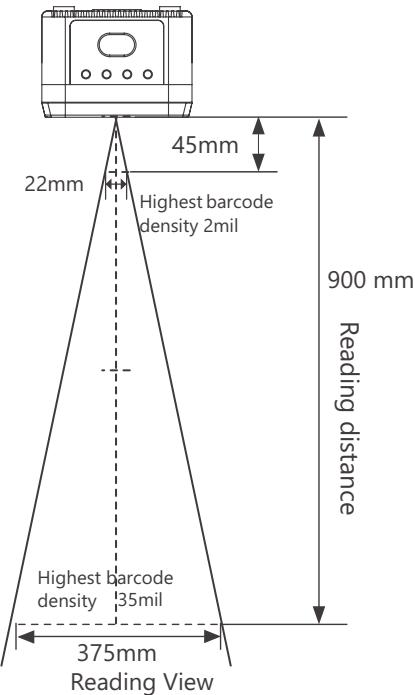
## Technical Data

Image Resolution 1280×960 (1.2 M pixels)

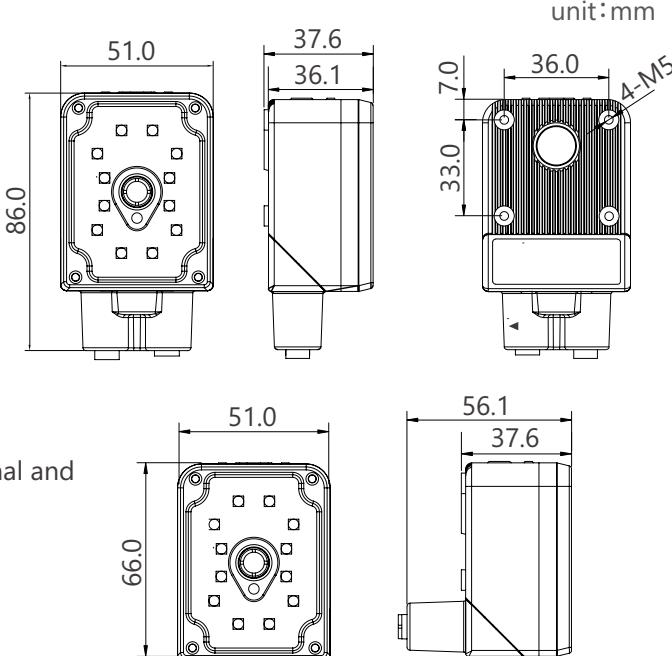
Sensor	1/3 inch CMOS
Frame Rate	Maximum 60 frame/s
Trigger Mode	Command trigger; I/O trigger; continuous reading mode; Presentation Mode
I/O Type	2 isolated inputs; 4 isolated output
LED	4 LED indicator lights (power, reading success, reading failure, Auto focus and parameter adjustment)
Illumination	High brightness / polarization / atomization light source; red / White / Blue optional LED light source
Focusing mode	Auto focus
Aiming System	Laser aiming
Communication interfaces	Ethernet, RS232
Power Supply	20 - 30 VDC
Power Consumption	1.9W (Standby status); 14.4W ((Peak)(Note 1))
Case Material	Aluminum alloy
Weight	192g
Dimensions	86mm×51mm×37.6mm ( L×W× H )
Operating Temperature	-10~50°C
Storage Temperature	-20~70°C
IP Protecting Grade	IP65
Certification	C E ROHS
Readable Symbologies	1D, 2D and stack codes that meet national and international standards; OCR-A, OCR-B
Reading Accuracy	1D code : 1.6 mil 2D code : 2 mil

Note 1: Measured without external load.

## FOV Diagram



## Dimensions



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