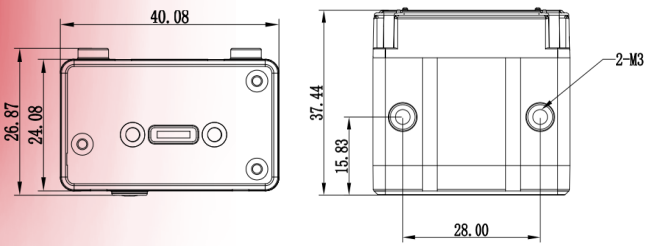
FV31/32

Compact Industrial Reader



Unit: mm

Features

Compact structure
Suitable for equipment integration

Dimensions:
40mmX37.4mmX26.8mm

Support common communication modes
Suitable for most equipment integration requirements

The product unit includes: Serial port/USB (simulation keyboard, simulation serial port) Interface that automatically adapts to cable switching

Megapixel combines with excellent lighting

1280*800 pixel CMOS
Unique polarized lighting providing

Excellent DPM reading ability
Keep up with the development of code reading applications

Applicable for normal barcodes and DPM codes
Dynamic exposure can automatically adapt to more code reading requirements

Applications

- Medical testing equipment code reading integration
- Robot code reading integration
- Test instrument code reading integration
- Self-service terminals code reading integration
- Code printing support

Technical Data

	FV31/32
Image Resolution	1280X800
Sensor	1/4 inch CMOS, global shutter
Frame Rate	72 frame/s
Trigger Mode	Command trigger; I/O trigger; Continuous reading mode; Key trigger
I/O Type	1 isolated input; 2 isolated outputs
LED	3 LED indicator lights (power, reading success, reading failure)
Illumination	Red / White LED optional, high brightness/polarized light optional
Focusing Mode	Fixed focus
Focal Length	FV31: 4.2mm FV31L/FV32: 6mm
Field Angle	FV31: 48° (horizontal) FV31L/FV32: 34° (horizontal)
Reading Accuracy	FV31/FV31L:1D code 3mil /2D code 5mil FV32:1D code 2mil /2D code 3mil
Aiming Mode	Laser cross aiming
Communication Modes	RS232、USB (simulation serial port 、simulation keyboard port)
Power Supply	Serial port: 5VDC; USB power supply
Power Consumption	1.2W (Standby status) ,1.75w (average) ,2W (Peak)
Case Material	Aluminum alloy
Weight	38 g
Dimensions	40mmx37.4mmx26.8mm (L X W X H)
Operating Temperature	-10 ~ 50 ℃
Storage Temperature	-20 ~ 65 ℃
IP Grade	IP54
Certification	CE、RoHS
Vibration Resistance	10 to 55 Hz: double amplitude 2.5 mm / 3 hours in X, y and Z directions
Electro Magnetic Compatibility	EN55032:2015 EN55024:2010
Readable Symbologies	Readable 1D, 2D and stack codes that meet national and international standards

Reading Range Table

(Test data of FV31 and FV31L) Unit: mm

Reading distance	FV31		FV31L	
	X-axis field of view	Y-axis field of view	X-axis field of view	Y-axis field of view
50	40	30	30	20
100	90	60	70	40
150	130	80	100	60
200	170	110	130	80

Reading Distance Table (Test data of FV31 and FV31L) Unit: mm

Code density / system	FV31		FV31L	
	Nearest	Farthest	Nearest	Farthest
3.34mil Code 128	50	110	60	110
5mil Code 128	40	130	60	120
6.67mil Code 128	40	140	50	140
10mil Code 128	40	160	30	150
15mil Code 128	40	190	40	180
5mil DataMatrix 10bit	40	110	70	110
6.67mil DataMatrix 10bit	40	120	60	110
10mil DataMatrix 10bit	40	150	50	130
15mil DataMatrix 10bit	40	160	50	150

Standard Model Configuration Table

Model	Specific description
FV31-2110	1280*800 pixels, red LED light source, standard light, standard viewing angle
FV31-2100	1280*800 pixels, white LED light source, standard light, standard viewing angle
FV31-2300	1280*800 pixels, white LED light source, polarized light, standard viewing angle
FV31L-2110	1280*800 pixels, red LED light source, standard light, narrow viewing angle
FV31L-2100	1280*800 pixels, white LED light source, standard light, narrow viewing angle
FV31L-2300	1280 * 800 pixels, white LED light source, polarized light, narrow viewing angle
FV32-2110	1280 * 800 pixels, red LED light source, standard light, standard angle of view, high accuracy
FV32-2100	1280 * 800 pixels, white LED light source, standard light, standard angle of view, high accuracy
FV32-2300	1280 * 800 pixels, white LED light source, polarized light, standard viewing angle, high accuracy

Performance may be affected by barcode aquality and environment condition.

CE RoHS

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