



FV200 Series

High-performance Industrial Barcode Reader

FV200 series is a high-performance intelligent barcode reader launched by Infoscan in March 2023. It uses 2 megapixel wide-width and high-frame-rate CMOS, high-power lighting sources and various specifications of liquid lenses to address challenging code reading situations such as large field of vision, long-distance and ultra-high-speed. In addition, the FV200 series is also the first industrial barcode reader equipped with a touch screen among domestic brands. Users can complete equipment configuration and status acquisition through the screen.

Features

■ Significantly improvement of acquisition visual field

1920 * 1080 pixel high-frame-rate CMOS sensor;
With a wide-width format, the long side pixel value has been increased from 1280 of the last generation to 1920, the field of vision has been improved by 50%.

■ Innovative light source kit, fast switching of lighting modes

Multiple light source kits (polarized/atomized/combined light sources) enable flexible configuration of lighting; Innovative structural design, complete kit switching in only seconds.

■ Improve the performance of reading high-speed moving barcodes

The standard lighting type (FV220) uses 16 pcs high-brightness lamp beads; Enhanced lighting type (FV260) has been expanded to 28pcs lamp beads; Ensure sufficient illumination when shooting high-speed moving barcodes; Multi-Core processor, high-speed image transmission processing and decoding.

■ More intelligent industrial barcode reader

The first high-performance barcode reader equipped with a touch screen in China, which can realize offline configuring and quick knowledge of the status of the device; Multiple indicator light feedback allows operators to quickly obtain the barcode reading status; Updated one-click configuration function for faster and better completion of auto-focus and parameters configuration.

Applications



Large view field



Multiple barcodes reading



Wide angle reading



Long-distance reading



High-speed assembly line acquisition

Technical specifications (The following data are FV220 series)

Image Resolution	1920*1080
Sensor	CMOS sensor, global shutter
Acquisition Speed	Up to 100 FPS
Lens Type	Liquid lens
Focal Length	Wide view field type: 6mm; Standard view field type: 10mm
View Field Angle	Standard field of view type: 28° (horizontal)
Triggering Mode	Command triggering; I/O triggering; Inductive triggering; Continuous reading mode; Key triggering
LED Indicator	Top position: 3 LED indicators (power supply, Ethernet connection and operating status) Around the body: blue (read successfully), Red (reading failed)
Display	1.3 inch, 240*240 pixels, capacitive touch screen
Illumination Type	FV220 (standard light source), 16pcs LEDs
Illumination Color	Red
Light Source Kit	Polarized/Atomized/Polarized + Atomized, etc.
Reading Area Indicator	Blue (successful reading), Red (failed reading)
Aiming Mode	Laser aiming
Communication Interface	Ethernet, RS232
Communication Protocol	Serial: RS232; Ethernet: TCP/IP, Profinet, Modbus TCP, Ethernet/IP
Operating Voltage	24V
Power Consumption	Standby: 4w; Peak: 14.4w
Number of Input Signals	3
Effective Voltage of Input Signal	≤ 1.5V
Number of Output Signals	3
Output Signal Type	Voltage signal
Output load capacity	Maximum 350mA @24VDC
Housing Material	Aluminium alloy
Weight	330g
Dimension	112mm*60mm*53mm (length*width*height)
Operating Temperature	0 ~ 55℃
Storage Temperature	-20 ~ 70℃
Relative Humidity	0~95% non-condensing
Shock Resistance	10 to 55 Hz, dual amplitude 0.3mm, 1 hour in X, Y and Z directions
IP Grade	IP65
Certification	CE, RoHS
Readable coding system	All 1D, 2D and stacked barcodes in accordance with national and international standards
Maximum reading accuracy	1D codes: 1mil 2D codes: 1.5mil

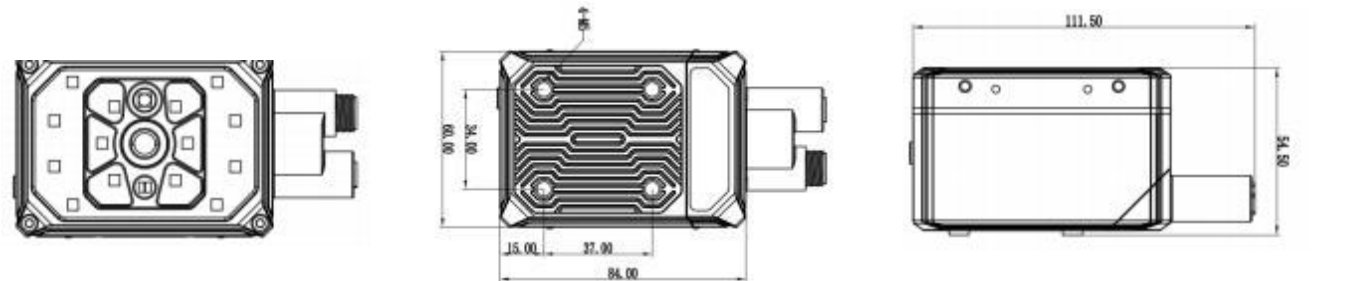
Reading distance and visual field (FV220 series) (Unit: mm)

Code system/density	Nearest	Farthest	Reading distance	X-axis field of view	Y-axis field of view
5mil Code 128	30	185	50	28	15
6.67mil Code 128	45	805	100	46	27
10mil Code 128	50	1294	150	67	39
15mil Code 128	60	1295	300	132	73
			500	208	114
5mil DataMatrix 10bit	40	207	800	338	187
6.67mil DataMatrix 10bit	40	354	1000	411	232
10mil DataMatrix 10bit	40	543			
15mil DataMatrix 10bit	40	751			

Standard Model Configuration Table

FV220 standard lighting model (16 lamp beads)					
Model	Number	Communication method	Lens Type	Lighting mode	Product Description
FV220-1110	01223105	RS-232、TCP/IP	Standard field of view Liquid lens	Red non polarized light source	FV220 series, 2 megapixel, standard field of view liquid lens, Red LED non polarized, standard lighting
FV220W-1110	01223106	RS-233、TCP/IP	Wide angle field of view Liquid lens	Red non polarized light source	FV220 series, 2 megapixel, wide-angle field of view liquid lens, Red LED non polarized, standard lighting
FV220 Special Light Source Kit					
Model	Number	Product Description			
FT20016PD	20010796	FV220 dedicated, semi polarized and semi atomized light source kit			
FT20016PP	20010797	FV220 dedicated, fully polarized light source kit			
FT20016DD	20010798	FV220 dedicated, fully atomized light source kit			

Dimensions (The following is the FV220 dimension drawing) (Unit : mm)



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