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Nanjing Bilin Intelligent Identification Technology Co., Ltd.

南京比邻智能识别技术有限公司
www.infoscan-cn.com

Nanjing Bilin Intelligent Identification Technology Co., Ltd.

Office: 25th Floor, No.2 Huangpu Road, Nanjing, China
Plant & Warehouse: Building B6, No.9 Bancang Street, Nanjing, China

86-400-700-6288

www.infoscan-cn.com

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BRAND INTRODUCTION

Golden Dongkang Information System Co., Ltd. was founded in 1997, taking the lead in promoting the applications and solutions of bar code and QR code technology in China;

Its three subsidiaries - Bilin Software, Bilin Intelligence and Infinite IOT - have respectively achieved outstanding results in the fields of intelligent manufacturing software (MES&WMS), IOT intelligent data collection terminals, and IOT application solutions;
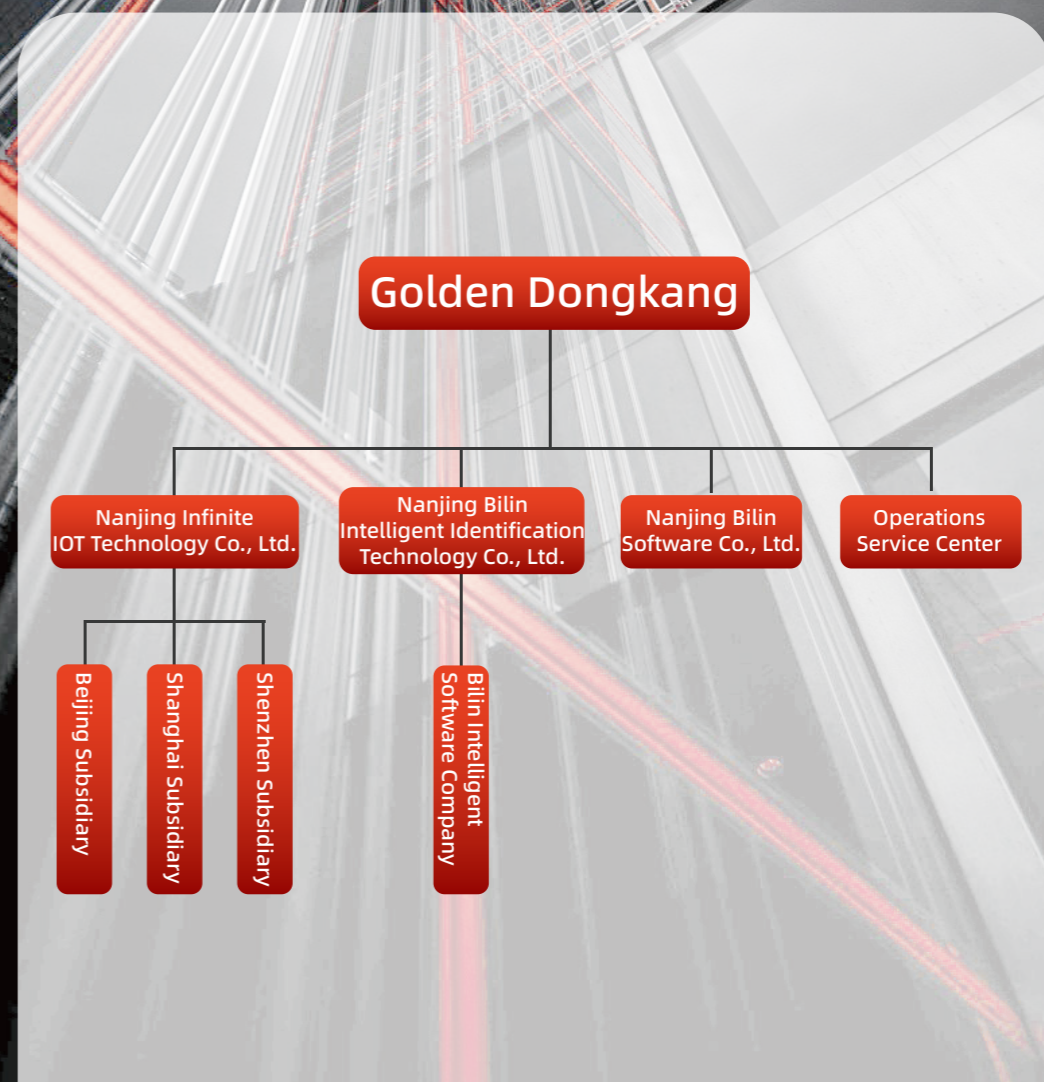
Golden Dongkang has been the Vice Chairman company of Automatic Identification Manufacture Association Of China (AIM China) for multiple consecutive terms.

Nanjing Bilin lntelligent ldentification Technology Co., Ltd. (hereinafter referred to as "Bilin Intelligence") is a subsidiary of Nanjing Golden Dongkang Information System Co., Ltd., which is a leading enterprise in China that has been focusing on the automatic identification industry for 30 years. Bilin Intelligence is a high-tech enterprises in the R&D and manufacturing of IoT data collection products in the field of automatic identification, machine vision and intelligent sensing terminal, etc.

The first industrial barcode reader of Bilin Intelligence was born in 2009, taking the lead in breaking the long-term monopoly of foreign products in this field.

By the end of 2022, more than 200,000 units of infoscan industrial barcode reading devices have been installed in 3C/New energy/Automobile/Medical equipment and other manufacturing application fields.

Golden Dongkang

- Nanjing Infinite IOT Technology Co., Ltd.
  - Beijing Subsidiary
  - Shanghai Subsidiary
  - Shenzhen Subsidiary
- Nanjing Bilin Intelligent Identification Technology Co., Ltd.
  - Bilin Intelligent Software Company
- Nanjing Bilin Software Co., Ltd.
- Operations Service Center

INDEPENDENT PRODUCTION

Entire Process Quality Monitoring

The entire production process is imported into the traceability control system: From raw material testing to finished product warehousing, it undergoes four quality checks throughout the entire production process. Ensuring products quality and delivery cycle in response to numerous customized and small batch demands in the industry.

Ensure Fast Delivery

Our own production base and quality control laboratory ensure fast and sufficient delivery of orders.

Meeting Personalized Needs

Enhance customer added value through personalized customization, such as customization needs for logo or configurations, etc.

CLIENTS

Goertek

Quanta Computer

Wistron
Innovation · Integrity
创新·诚信

臻鼎科技集團
Zhen Ding Tech. Group

FOXCONN
富士康科技集团

GREE 格力

AOC
冠捷显示器

KHB
科华生物

CATL 宁德时代

BYD
比亚迪汽车

JinKO Solar

JA SOLAR
晶澳太阳能

DEVELOPMENT HISTORY

2009 —— 2011 —— 2012 —— 2016

2009
In 2009, Bilin Intelligence officially launched its first industrial fixed-mount barcode reader FS32

2011
In 2011, Registered the trademark "infoscan"

infoscan

2012
In 2012, infoscan family's classic barcode reader FS36 was launched

2016
In 2016, Bilin Intelligent Identification Technology Co., Ltd. was officially established and became a subsidiary of Golden Dong Kang

2009-2023

2017 —— 2018 —— 2020 —— 2021 —— 2023

2017
In 2017, FV300N series readers were launched (the FV series high-performance barcode scanners were officially launched)

2018
In 2018, FV100 series barcode readers were launched (the first reader to use a liquid zoom lens)

2020
In 2020, FV5X/6X series readers were launched (using innovative designs such as magnetic levitation lenses and combined illuminant, etc.)
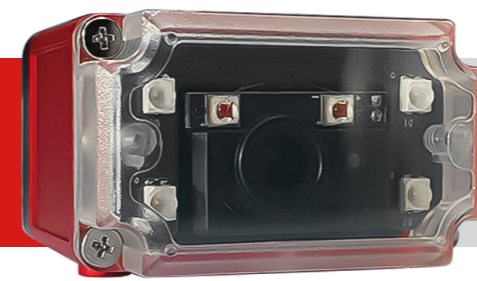
2021
The FV3X series barcode readers were launched in 2021 (the first entry-level industrial barcode scanner with polarized lighting design)

2023
In 2023, FV200 series readers were launched (the first barcode reader with touch screen)

FV High-performance Fixed-mount Series

FV3X Series
Compact Industrial Barcode Reader

Product Features

Embedded product; Ultra-small structure Easy to be integrated with equipments

Dimensions:
40.0mmX37.4mmX26.9mm

Support common communication modes Suitable for most equipment integration requirements

The body interface supports Serial port / USB(simulated keyboard, simulated Serial port)communication modes
The interface automatically adapts to cableswitching

Megapixel combines with good illumination

1280x800 Pixel CMOS
Taking the lead in providing polarized lighting

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 | Test Instrument Code Reading Integration | Self-service Terminals Code Reading Integration | Printing, inkjet code, etc., Encoding Match |

Reading Distance And Visual Field

Unit（mm）

Barcode Specifications	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	40	110	70	110
6.67mil DataMatrix	40	120	60	110
10mil DataMatrix	40	150	50	130
15mil DataMatrix	40	160	50	150

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

Technical Specifications

Sensor	1/4 inch CMOS, global shutter
Image Resolution	1280X800
Collection Speed	Up to 72 frame/s
Focusing Mode	Fixed focus
Lens Focal Length	FV31: 4mm FV31L/FV32: 6mm
Viewing Angle	FV31: 48° (horizontal)，FV31L/FV32: 34° (horizontal)
Trigger Mode	Command trigger, I/O trigger,Continuous reading mode,Key trigger, Induction mode
LED Indicator	3 LED indicator lights (power,reading success, reading failure)
Illumination Source Type	Body light source: 2LED(high-brightness) Auxiliary light sources: 4LED(high-brightness or polarized)
Illumination Source Color	Body light source: Red LED，Auxiliary light source: Red or White LED
Aiming Mode	Laser cross aiming
Laser Safety Level	Class 2
Communication Modes	RS232, USB (simulated Serial port,simulated Keyboard)
Power Supply	5VDC / USB Power supply
Power Consumption	1.2W (standby status), 1.75W (in average), 2W (peak)
Operation Current	Standby: 240mA, Average: 350mA, Maximum: 400mA
Number of Input Signals	1
Type of Input Signals	NPN or PNP
Number of Output Signals	2
Type of Output Signals	Voltage signal
Shell Material	Aluminum alloy
Weight	38g (Excluding cables)
Dimensions (L x W x H)	40.0mm x 37.4mm x 26.9mm
Operating Temperature	-10 ~ 50 ℃
Storage Temperature	-20 ~ 65 ℃
Relative Humidity	5% ~ 95% non-condensing
Vibration Resistance	10 to 55 Hz: double amplitude 2.5 mm / 3 hours in X, Y or Z direction
IP Rating	IP54
EMC	EN55032:2015,EN55024:2010
Certifications	CE,RoHS
Readable Code Symbologies	1D, 2D and stacked codes in accordance with national and international standards
Maximum Reading Accuracy	FV31/FV31L: 1D code 3mil / 2D code 5mil; FV32: 1D code 2mil / 2D code 3mil;

Standard Model Configuration Table

● REC

Model	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
FV31-2200	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-2200	1280*800 Pixels, White LED light source, Polarized light, Narrow viewing angle
FV32-2110	1280*800 Pixels, Red LED light source, Standard light, High accuracy
FV32-2100	1280*800 Pixels, White LED light source, Standard light, High accuracy
FV32-2200	1280*800 Pixels, White LED light source, Polarized light, High accuracy

Dimensions

Unit（mm）

40.0
26.9
24.1

37.4
15.8
28.0
2-M3
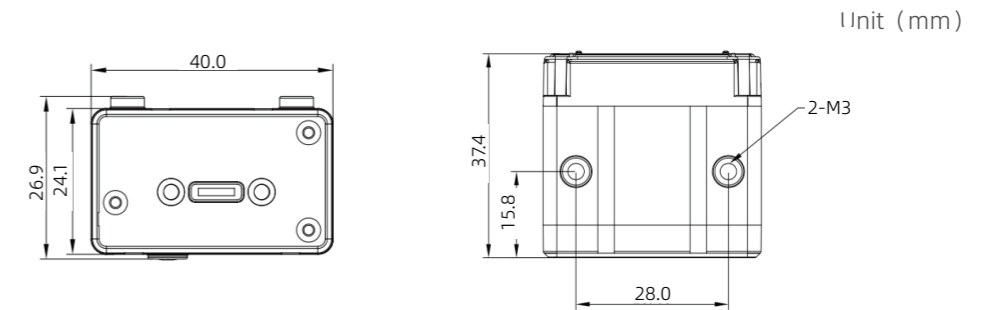
FV61/FV63L Series
Compact Industrial Barcode Scanner

Industrial Barcode Scanner FV61/63L series adopt rich light source combination and various lens configu rations as well as built-in image processing and DPM algorithm, with excellent DPM code reading ability and good dynamic code reading performance. It is an appropriate choice for various applications scenariⅡos of industrial manufacturing.

Product Features

Good Code Reading Performance

Can quickly read barcodes such as paper/laser engraving/inkjet printing codes;
Slightly stained or distorted barcodes also can be decoded and corrected through built-in rich image processing technology, which is more suitable for practical applications.

Industrial Grade Design

The design of IP65/Circular connector/Anti-drag cable can adapt to harsh working environment.
Compatible with mainstream communication mode and industrial bus protocol, convenient for integrated communication with industrial automation equipment.

Automatic Optical Focusing (FV63L Series)

Micro-drive technology is used to achieve automatic optical focusing at different reading distances, so the installation position is not needed to be repeatedly adjusted.

Powerful Optical Configuration

A variety of lighting combinations are built in this compact device, which can provide the fitted lighting schemes for different encoding modes;
Two different focal length specifications, 4mm and 6mm, are available for choice to meet different reading distance and field of view requirements.

Applications

Automated Production Line	Laser/Inkjet Code and Other Coding Match	Robot Integration	Integration of Test Instruments	Automation Equipment Integration

Reading Distance And Visual Field

Unit（mm）

Barcode Specifications	FV61 Series (4mm)		FV63L Series (6mm)	
	Nearest	Farthest	Nearest	Farthest
3.34mil Code 128	45	122	45	160
5mil Code 128	40	170	40	240
6.67mil Code 128	28	220	40	330
10mil Code 128	28	260	35	490
15mil Code 128	35	339	45	730
20mil Code 128	45	430	55	930
3.34mil DataMatrix	NA	NA	60	100
5mil DataMatrix	57	85	50	105
6.67mil DataMatrix	40	115	43	170
10mil DataMatrix	32	188	40	255
15mil DataMatrix	30	230	35	375
20mil DataMatrix	30	312	40	480

Reading Distance	FV61 Series (4mm)		FV63L Series (6mm)	
	X-axis field of view	Y-axis field of view	X-axis field of view	Y-axis field of view
50	43	27	31	22
100	91	57	66	42
150	128	81	99	63
200	174	110	133	82
300	251	163	203	128

## Technical Specifications

Sensor Type	1/4 inch CMOS sensor, global shutter
Image Resolution	1280x800
Acquisition Speed	Up to 72 FPS
Focus Mode	FV61 Series: Fixed-focus,FV63L Series: Auto-focus
Lens Focal Length	FV61: 4mm , FV61L/FV63L: 6mm
Viewing Angle	FV61: 48° (horizontal), FV61L/FV63L: 34° (horizontal)
Trigger Mode	Command trigger; I/O trigger; Continuous reading mode; Key trigger; Induction trigger
LED Indicator	4 LED Indicators (Power, Reading success, Reading failure, Automatic parameter adjustment)
Illumination Source Type	Grouping control is feasible/Combined light source/Polarized light source /High-brightness light source
Illumination Source Color	Red/ White LED
Aiming Mode	Laser cross aiming
Laser Safety Level	Class 2
Communication Interface	Ethernet, RS232, USB (simulated serial port, simulated keyboard）(Note 1)
Communication Protocol	Ethernet: TCP/IP, Profinet, Modbus TCP, EtherNet/IP Serial port: RS232
Power Supply	5VDC / 24VDC
Power Consumption	2.5W (standby) 11.5W (peak) 4W (in average) (Note 2)
Number of Input Signals	2
Type of Input Signals	NPN
Number of Output Signals	2
Output Load Capacity	Single Maximum: 100mA@24VDC,Total Maximum: 200mA@24VDC
Shell Material	Aluminum alloy
Weight	130 g
Dimensions(L×W×H)	57.0mmx42.0mmx28.5mm
Operating Temperature	-10 ~ 50 ℃
Storage Temperature	-20 ~ 70 ℃
Relative Humidity	5% ~ 95% Non-condensing
Ambient Light Immunity	0 ~ 100,000 Lux
IP Rating	IP65
Certifications	CE,RoHS
Readable Code Symbologies	1D, 2D and stacked codes in accordance with national and international standards
Maximum Reading Accuracy	FV61/FV61L 1D code: 3mil / 2D code: 5mil FV63L 1D code: 1.8mil / 2D code: 3mil

Note 1: USB communication mode can be achieved in specified model and with 5VDC power supply;
Note 2: The values are measured when the operating voltage is 24VDC and without external load.

Standard Model Configuration Table

	Model	Description
FV61	FV61-2100	1280*800 Pixel \ White bright light \ Fixed-focus \ Standard field of View \ Serial port + Ethernet
	FV61-2210	1280*800 Pixel \ Red polarized light \ Fixed-focus \ Standard field of view \ Serial port + Ethernet
	FV61-2200	1280*800 Pixel \ White polarized light \ Fixed-focus \ Standard field of view \ Serial port + Ethernet
	FV61-2310	1280*800 Pixel \ Red combined light \ Fixed-focus \ Standard field of view \ Serial port + Ethernet
	FV61-2300	1280*800 Pixel \ White combined light \ Fixed-focus \ Standard field of view \ Serial port + Ethernet
	FV61(U)-2210	1280*800 Pixel \ Red polarized light \ Fixed-focus \ Standard field of view \ USB + Ethernet \ 5V Power supply
	FV61(U)-2310	1280*800 Pixel \ Red combined light \ Fixed-focus \ Standard field of view \ USB + Ethernet \5V Power supply
	FV61(U)-2300	1280*800 Pixel \ White combined light \ Fixed-focus \ Standard field of view \ USB + Ethernet \ 5V Power supply
FV63L	FV63L-2110	1280*800 Pixel \ Red bright light \ Auto-focus \ Narrow field of view \ Serial port + Ethernet
	FV63L-2100	1280*800 Pixel \ White bright light \ Auto-focus \ Narrow field of view \ Serial port + Ethernet
	FV63L-2210	1280*800 Pixel \ Red polarized light \ Auto-focus \ Narrow field of view \ Serial port + Ethernet
	FV63L-2200	1280*800 pixel \ White polarized light \ Auto-focus \ Narrow field of view \ Serial port + Ethernet
	FV63L-2310	1280*800 pixel \ Red combined light \ Auto-focus \Narrow field of view \ Serial port + Ethernet
	FV63L-2300	1280*800 pixel \ White combined light \ Auto-focus \ Narrow field of view \ Serial port + Ethernet
	FV63L(U)-2210	1280*800 pixel \ Red polarized light \ Auto-focus \ Narrow field of view \ USB + Ethernet \ 5V Power supply
	FV63L(U)-2200	1280*800 pixel \ White polarized light \ Auto-focus \ Narrow field of view \ USB + Ethernet \ 5V Power supply
	FV63L(U)-2310	1280*800 pixel \ Red combined light \ Auto-focus \ Narrow field of view \ USB + Ethernet \ 5V Power supply
	FV63L(U)-2300	1280*800 pixel \ White combined light \ Auto-focus \ Narrow field of view \ USB + Ethernet \ 5V Power supply

Dimensions

Unit（mm）

28.5
27.0
42.0
5.0
3-M3
30.0
57.0
27.0
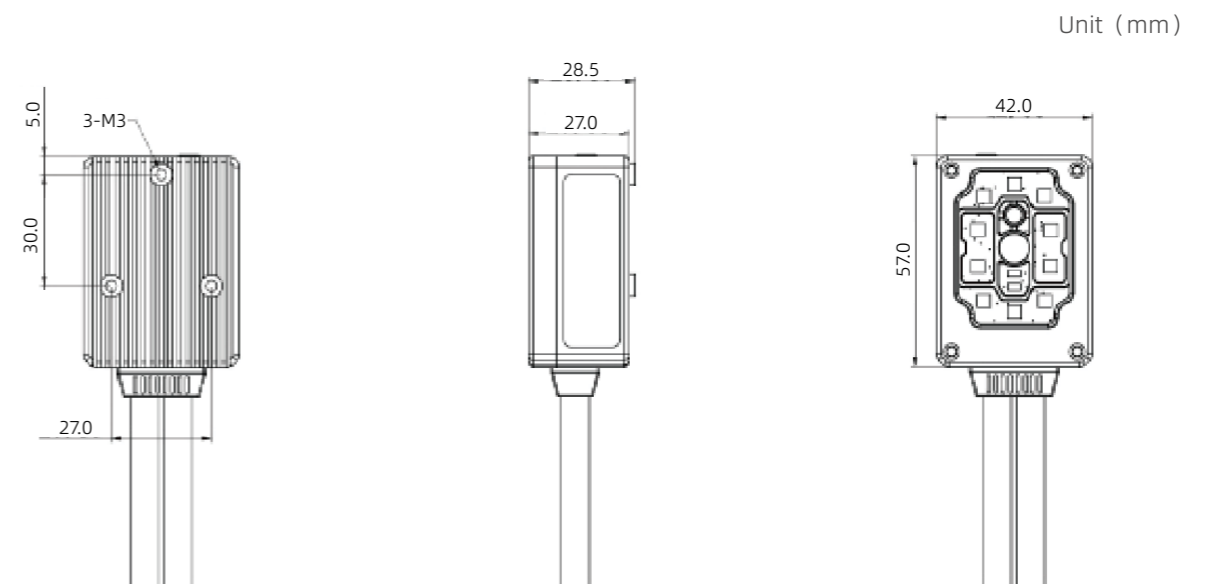
FV104 Series (V2.0)
Industrial Liquid Focusing Barcode Scanner

Innovative design of new illumination unit modules, achieving fast on-site switching of different illumination schemes (polarized light/atomized light/combined light); Significant improvement in lighting brightness and computing power; Continue to use intuitive and simple manual focusing method; Meet various industrial scenarios with high cost-effectiveness.

Product Features

Innovative Illumination Unit for DPM Reading

Optional illumination covers provided: atomization/polarization/atomization+polarization

Quick disassembly and installation, switching lighting schemes in just a few seconds

Optimize the layout and brightness of the body Illumination, for more uniform lighting

Good Dynamic Reading Performance

High performance CMOS, providing an acquisition rate of 60 frames per second 60% Improvement in lighting brightness compared with the last generation products Provide enhanced decoding mode for more efficient shooting and decoding

Manual Focusing Lens

Adopting manual focusing method, an economical and practical focusing solution

Adopting a larger field of view angle lens (7.5mm focal length), suitable for medium to close range reading scenes

Meet Various Industrial Scenarios, With Better Versatility

Support NPN and PNP trigger signals; Graphical setting of interface logic, for complex signal and data interaction Support multiple industrial Ethernet protocols to cope with mainstream PLC communication integration Rich software functions such as one-click automatic parameters adjustment, multiple sets of exposure polling, 10 sets built-in configurations, etc.

Applications

Product Traceability	Laser/ink-jet Coding Matching	Device Integration
Automobile Manufacturing	Photovoltaic Industry	Electronic Manufacturing

Reading Distance And Visual Field

Unit（mm）

Barcode specifications	Nearest	Farthest
3.34mil Code 128	25	121
5mil Code 128	20	202
6.67mil Code 128	20	270
10mil Code 128	25	404
15mil Code 128	40	607
5mil DataMatrix	25	110
6.67mil DataMatrix	25	147
10mil DataMatrix	25	220
15mil DataMatrix	25	331

Reading distance	X-axis field of view	Y-axis field of view
50	33	24
100	65	48
150	95	70
200	130	95
300	189	108
400	250	187

Technical Specifications

Sensor	1/3 inch CMOS sensor, global shutter
Image Resolution	1280×960
Frame Rate	Up to 60 frame/s
Lens Type	Manual focusing
Focal Length	7.5mm
Angle Of View	37° (horizontal), 28° (vertical)
Roll/ Pitch/ Yaw	360° (roll)/ 65° (pitch)/ 65° (yaw)
Triggering Mode	Command trigger; I/O trigger; Continuous reading mode; Key trigger, etc.
LED Indicator	4 LED indicator lights (power, reading success, reading failure, automatic parameter adjustment)
Illumination Source	12pcs LED lights / Can be controlled in groups / High-brightness light source / Polarized light source
Illumination Source Color	Red / White LED light source available
Front Cover of Illumination	Atomization Cover / Polarization Cover /Atomization+Polarization Cover (combined use with high-brightness light source)
Aiming Mode	Laser cross aiming
Laser Safety Level	Class 2
Maximum Output Power of Laser	0.81mW
Laser Wavelength	650nm
Communication Interface	Ethernet, Serial port
Communication Protocol	Ethernet: TCP/IP, FTP, Profinet,Modbus TCP,EtherNet/IP, Serial port: RS232
Power Supply	20 ~ 30 VDC
Power Consumption	2.2W (Standby), 12W (Peak), 4W (Average)
Operating Current	Standby: 110mA, Peak: 600mA, Average: 200mA
Number of Input Signals	2
Type of Input Signal	NPN or PNP
Effective Voltage of Input Signal	NPN: ≤16V PNP: ≥5V (Max: 24V)
Number of Output Signals	4
Output Load Capacity	Single Maximum: 100mA@24VDC,Total Maximum: 200mA@24VDC
Shell Material	Aluminum alloy
Weight	196.3g (excluding cables)

Dimensions(L×W×H)	88.9mm×52.8mm×37.8mm
Operating Temperature	-25℃ ~ 60℃
Storage Temperature	-40℃ ~ 70℃
Relative Humidity	5% ~ 95% non-condensing
Ambient Light Immunity	0 ~ 100,000 Lux
Vibration Resistance	10 ~ 55 Hz, double amplitude 0.75mm, 3 hours in x, y or z direction
IP Rating	IP65
ESD Protection	±10KV Indirect coupling surface, ±16KV Direct air discharge
Explosion Proof Grade (specified model)	Exib IIA T4 Gb
Certifications	CE, UL, RoHS, etc.
Readable Code Symbologies	1D, 2D and stacked codes that meet national and international standards
Maximum Reading Accuracy	1D code: 1.6 mil 2D code: 2 mil

FV105 Series (V2.0)
Liquid Auto-focus Barcode Scanner

Innovative design of new illumination unit modules, achieving fast on-site switching of different illumination schemes (polarized light/atomized light/combined light); Significant improvement in lighting brightness and computing power; Enriched liquid lens specifications and configurations to meet more requirements of visual field and distance. It can widely meet various reading scenarios such as DPM challenging barcodes, multiple codes reading, high-speed, high-frequency, diverse fields of view and distance.

Standard Model Configuration Table

●REC FV104 (V2.0) Manual Focusing Model

Model	Description
FV104-1110 V2.0	1.2 megapixel, red LED high-brightness light source, laser aiming
FV104-1210 V2.0	1.2 megapixel, red LED fully-polarized light source, laser aiming

FV104 (V2.0) Dedicated Illumination Kits

Model	Description
FT10012PD	High-brightness illumination dedicated, semi-polarized with semi-atomized illumination kit
FT10012PP	High-brightness illumination dedicated, fully-polarized illumination kit
FT10012DD	High-brightness illumination dedicated, fully-atomized illumination kit

Product Features

Innovative Illumination Units for DPM Reading

Illumination cover options provided: atomization /polarization/atomization+polarization
Quick disassembly and installation, switching lighting schemes in just a few seconds
Optimized the layout and brightness of the body Illumination, for more uniform lighting

Good Dynamic Reading Performance

High performance CMOS, providing an acquisition rate of 60 frames per second 60% Improvement in lighting brightness compared with the last generation products
Provide enhanced decoding mode for more efficient shooting and decoding

Provide a Variety of Liquid Focusing Lens

The optional lens specifications are as follows: 6mm/12mm/16mm
Long-term use of liquid lenses, accumulated rich experience in applications

Meet Various Industrial Scenarios, With Better Versatility

Support NPN and PNP trigger signals; Graphical setting of interface logic, for complex signal and data interaction
Support multiple industrial Ethernet protocols to cope with mainstream PLC communication integration
Rich software functions such as one-click automatic parameters adjustment, multiple sets of exposure polling, 10 sets built-in configurations, etc.

Applications

Product Traceability

Laser/ink-jet Coding Matching

Device Integration

Automobile Manufacturing

Photovoltaic Industry

Electronic Manufacturing

Dimensions

Unit（mm）

52.8
37.8
36.3
7.0
36.0
4-M5
33.0
88.9
52.8
66.0
59.1
37.8

Reading Distance And Visual Field

Unit（mm）

Barcode specifications	FV105N Nearest	FV105N Farthest	FV105S Nearest	FV105S Farthest	FV105L Nearest	FV105L Farthest
Code 128						
3.34mil	50	108	50	228	50	337
5mil	50	162	50	342	50	505
6.67mil	50	216	50	456	50	674
10mil	50	324	50	684	50	1010
15mil	50	487	50	1026	50	1516
DataMatrix						
5mil	50	88	50	186	50	275
6.67mil	50	118	50	248	50	367
10mil	50	177	50	373	50	551
15mil	50	265	50	559	50	827

Reading distance	FV105N X-axis field of view	FV105N Y-axis field of view	FV105S X-axis field of view	FV105S Y-axis field of view	FV105L X-axis field of view	FV105L Y-axis field of view
50	42	32	24.5	18	17	12.8
100	85	63	45	34	29	22
150	126	93	65	48	42	32
200	167	124	85	64	55	42
300	248	183	126	94	81	61
500	400	300	208	156	133	101
1000	790	590	408	305	268	202

Technical Specifications

Sensor	1/3 inch CMOS sensor, global shutter
Image Resolution	1280×960
Frame Rate	Up to 60 frame/s
Lens Type	Liquid lens, auto-focus
Focal Length	FV105N: 6mm; FV105S: 12mm;FV105L: 16mm
Angle of View	FV105N: 45° (horizontal), 33.8° (vertical),FV105S: 22° (horizontal) 16.5° (vertical) FV105L: 15° (horizontal) 11.25° (vertical)
Roll/ Pitch/ Yaw	360° (roll)/ 65° (pitch)/ 65° (yaw)
Triggering Mode	Command trigger; I/O trigger; Continuous reading mode; Key trigger, etc.
LED Indicator	4 LED indicator lights (power, reading success, reading failure, automatic parameter adjustment)
Illumination Source	12pcs LED lights / Can be controlled in groups / High-brightness light source / Polarized light source
Illumination Source Color	Red / White LED light source available
Front Cover of Illumination	Atomization Cover / Polarization Cover /Atomization+Polarization Cover (combined use with high-brightness light source)
Aiming Mode	Laser cross aiming
Laser Safety Level	Class 2
Maximum Output Power of Laser	0.81mW
Laser Wavelength	650nm
Communication Interface	Ethernet, Serial port
Communication Protocol	Ethernet: TCP/IP, FTP, Profinet,Modbus TCP,EtherNet/IP, Serial port: RS232
Power Supply	20 ~ 30 VDC
Power Consumption	2.2W (Standby), 12W (Peak), 4W (Average)
Operating Current	Standby: 110mA, Peak: 600mA, Average: 200mA
Number of Input Signals	2
Type of Input Signal	NPN or PNP
Effective Voltage of Input Signal	NPN: ≤16V PNP: ≥5V (Max: 24V)
Number of Output Signals	4
Output Load Capacity	Single Maximum: 100mA@24VDC,Total Maximum: 200mA@24VDC
Shell Material	Aluminum alloy

Weight	FV105N: 192.5g (excluding cables),FV105S: 195.4g (excluding cables), FV105L: 191.3g (excluding cables)
Dimensions (L×W×H)	88.9mm×52.8mm×37.8mm
Operating Temperature	-25℃ ~ 60℃
Storage Temperature	-40℃ ~ 70℃
Relative Humidity	5% ~ 95% non-condensing
Ambient Light Immunity	0 ~ 100,000 Lux
Vibration Resistance	10 ~ 55 Hz, double amplitude 0.75mm, 3 hours in x, y or z direction
IP Rating	IP65
ESD Protection	±10KV Indirect coupling surface,±16KV Direct air discharge
Explosion Proof Grade (specified model)	Exib IIA T4 Gb
Certification	CE, UL, RoHS, etc.
Readable Code Symbologies	1D, 2D and stacked codes that meet national and international standards
Maximum Reading Accuracy	FV105N 1D code: 1.67 mil 2D code: 2.5 mil, FV105S 1D code: 3.3 mil 2D code: 5 mil FV105L 1D code: 0.67 mil 2D code: 1mil

Standard Model Configuration Table

●REC FV105 (V2.0) Liquid Automatic Focusing Series

Model	Description
FV105N-1110 V2.0	1.2 megapixel, 6mm liquid lens, red LED high-brightness light source, laser aiming
FV105S-1110 V2.0	1.2 megapixel, 12mm liquid lens, red LED high-brightness light source, laser aiming
FV105L-1110 V2.0	1.2 megapixel, 16mm liquid lens, red LED high-brightness light source, laser aiming

FV105 (V2.0) Dedicated Illumination Kits

Model	Description
FT10012PD	High brightness illumination dedicated, semi-polarized with semi-atomized illumination kit
FT10012PP	High brightness illumination dedicated, fully-polarized illumination kit
FT10012DD	High brightness illumination dedicated, fully-atomized illumination kit

Dimensions

Unit（mm）

52.8 | 37.8 | 36.3 | 7.0 | 36.0 | 33.0 | 88.9 | 4-M5 | 52.8 | 66.0 | 59.1 | 37.8
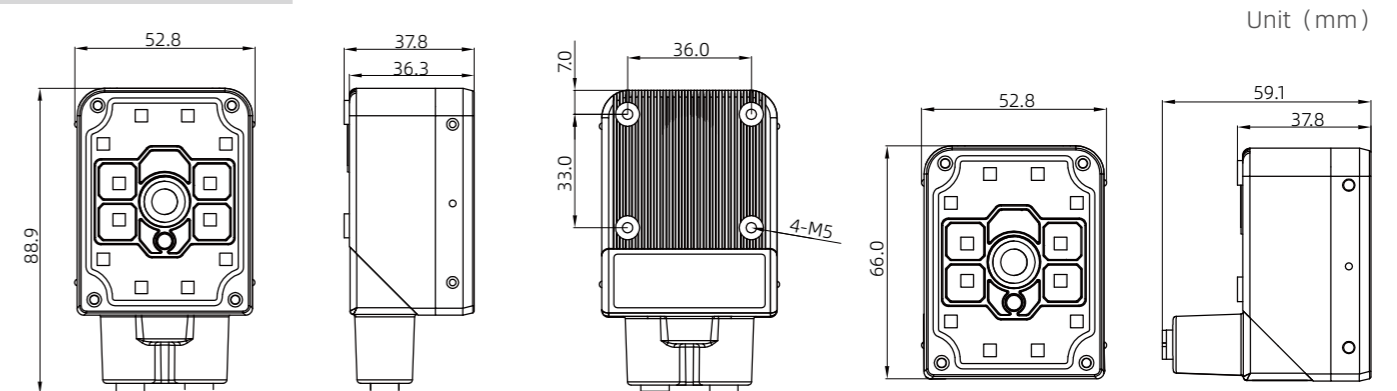
FV2X0 Series
Intelligent Industrial Barcode Scanner

FV2X0 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 liquid lenses with various specifications to address challenging code reading situations such as large field of vision, long-distance and ultra-high-speed. In addition, FV2X0 series reader is infoscan's first intelligent industrial barcode reader equipped with a touch screen that enable users to complete device configuration and status acquisition offline through the host screen.

Product Features

Significantly improvement of collection visual field

1920x1080 pixel High-frame-rate CMOS sensor
Adopt 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 kits enable 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

More intelligent industrial barcode reader

infoscan's first high-performance barcode reader equipped with a touch screen, 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
Upgraded "one-click automatic parameter adjustment" function for faster and better completion of auto-focus and parameters configuration

Improve the performance of reading high-speed moving barcodes

The standard lighting model FV220 uses 16pcs high-brightness LEDs; Enhanced lighting model FV260 has a total of 28pcs LEDs; Ensure sufficient lighting when shooting high-speed moving barcodes
Multi-core processor, high-speed image transmission processing and decoding

Applications

Large View Field Reading

Multiple Barcodes Reading

Wide-angle Reading

High-speed Assembly Line Collection

High-speed Assembly Line Collection

Reading Distance And Visual Field

Unit（mm）

Barcode specifications	FV220N/FV260N 6mm focal length lens		FV220S/FV260S 12mm focal length lens		FV220L/FV260L 16mm focal length lens	
	Nearest	Farthest	Nearest	Farthest	Nearest	Farthest
Code 128						
5mil	40	245	65	522	70	772
6.67mil	40	327	65	697	70	1030
10mil	40	491	65	1045	70	1543
15mil	40	736	65	1568	70	2315
DataMatrix						
5mil	40	134	65	285	70	421
6.67mil	40	178	65	380	70	562
10mil	40	268	65	570	70	842
15mil	40	401	65	855	70	1163

Reading distance	FV220N/FV260N 6mm focal length lens		FV220S/FV260S 12mm focal length lens		FV220L/FV260L 16mm focal length lens	
	X-axis field of view	Y-axis field of view	X-axis field of view	Y-axis field of view	X-axis field of view	Y-axis field of view
50	45	25	28	15	17	10
100	90	50	45	27	30	17
300	250	140	132	73	82	45
500	415	230	208	115	135	75
800	680	370	338	187	230	120
1000	830	463	410	232	260	150

Technical Specifications

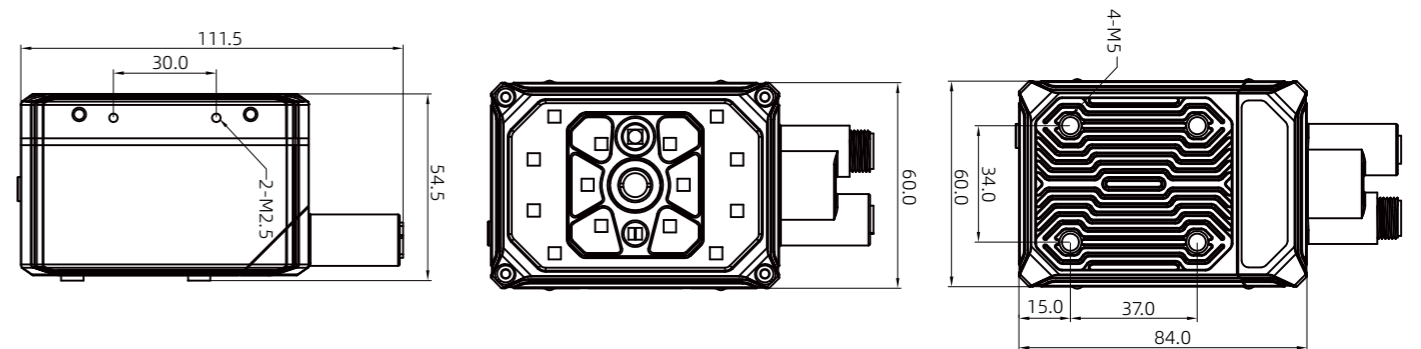| Model	FV220 series	FV260 series
Sensor	1/3 inch CMOS sensor, global shutter	
Image Resolution	1920x1080	
Collection Speed	Up to 100 FPS	
Lens Type	Liquid lens	
Lens Focal Length	FV2X0N: 6mm FV2X0S: 12mm FV2X0L: 16mm	
Viewing Angle	FV2X0N: 45° (horizontal) 26° (vertical) ,FV2X0S: 21° (horizontal) 13.5° (vertical) FV2X0L: 15° (horizontal) 8° (vertical)	
Roll/ Pitch/ Yaw	360° (roll) 65°(pitch) 65° (yaw)	
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 sending/receiving status); Around the body: blue (reading success), red (reading failure)	
Reading Area Indicator	Blue (reading success) Red (reading failure)	
Illumination Source Type	16 LEDs / Grouping control of high-brightness light source is doable	28 LEDs / High-brightness or polarized light source
Illumination Source Color	Red	
Front Cover of Illumination	Polarized/Atomized/Polarized+Atomized, etc.	NA
Aiming Mode	Laser cross aiming	
Laser Safety Level	Class 2	
Host Screen	1.3 inch, 240x240 pixels, Capacitive touch screen	
Communication Interface	Ethernet, Serial port	
Communication Protocols	Ethernet: TCP/IP, FTP, Profinet, Modbus TCP, EtherNet/IP, Serial port: RS232	
Power Supply	20～30 VDC	

Power Consumption	Standby: 3.4W, Peak: 19.2W	Standby: 3.4W, Peak: 30W
Number of Input Signals	3	
Input Signal Type	NPN or PNP	
Effective Voltage of Input Signal	NPN: ≤ 16V, PNP: ≥5V (Max: 24V)	
Number of Output Signals	3	
Type of Output Signal	Voltage signal	
Output Load Capacity	Single maximum: 100mA@24VDC, Total maximum : 200mA@24VDC	
Shell Material	Aluminium alloy	
Weight	330g (excluding cables)	500g (excluding cables)
Dimensions(L×W×H)	111.5mmx60.0mmx54.5mm	131.0mmx106.0mmx59.0mm
Operating Temperature	0 ~ 55 ℃	
Storage Temperature	-20 ~ 70 ℃	
Relative Humidity	0 ~ 95% non-condensing	
ESD Protection	Air discharge: ±18KV, Contact discharge： ±8KV	
Vibration Resistance	10 to 55 Hz, dual amplitude 0.3mm, 1 hour in X, Y or Z direction	
IP Rating	IP65	
ESD Protection	Air discharge: ±18KV, Contact discharge： ±8KV	
Certifications	CE, RoHS, etc.	
Readable Code Symbologies	1D, 2D and stacked codes in accordance with national and international standards	
Maximum Reading Accuracy	FV2X0N and FV2X0S 1D codes: 1.3mil; 2D codes: 2mil FV2X0L 1D codes: 0.67mil; 2D codes: 1 mil	

Standard Model Configuration Table

FV220 Standard Illumination Model

Model	Lens Type	Light Source Type	Light Source Description
FV220N-1110	6mm (standard field of view) liquid lens	16pcs LEDs standard light source	Red, non-polarized light source
FV220S-1110	12mm (smaller field of view) liquid lens	16pcs LEDs standard light source	Red, non-polarized light source
FV220L-1110	16mm (narrow field of view) liquid lens	16pcs LEDs standard light source	Red, non-polarized light source

FV260 Enhanced Illumination Model

Model	Lens Type	Light Source Type	Light Source Description
FV260N-1110	6mm (standard field of view) liquid lens	28pcs LEDs Enhanced light source	Red, non-polarized light source
FV260N-1210	6mm (standard field of view) liquid lens	28pcs LEDs Enhanced light source	Red, polarized light source
FV260S-1110	12mm (smaller field of view) liquid lens	28pcs LEDs Enhanced light source	Red, non-polarized light source
FV260L-1110	16mm (narrow field of view) liquid lens	28pcs LEDs Enhanced light source	Red, non-polarized light source

FV220 Dedicated Illumination Kits

Model	Description
FT20016PD	FV220 dedicated, Semi-polarized and semi-atomized light source kit
FT20016PP	FV220 dedicated, Fully polarized light source kit
FT20016DD	FV220 dedicated, Fully atomized light source kit

Dimensions

FV220 Dimensions Unit（mm）

FV260 Dimensions Unit（mm）
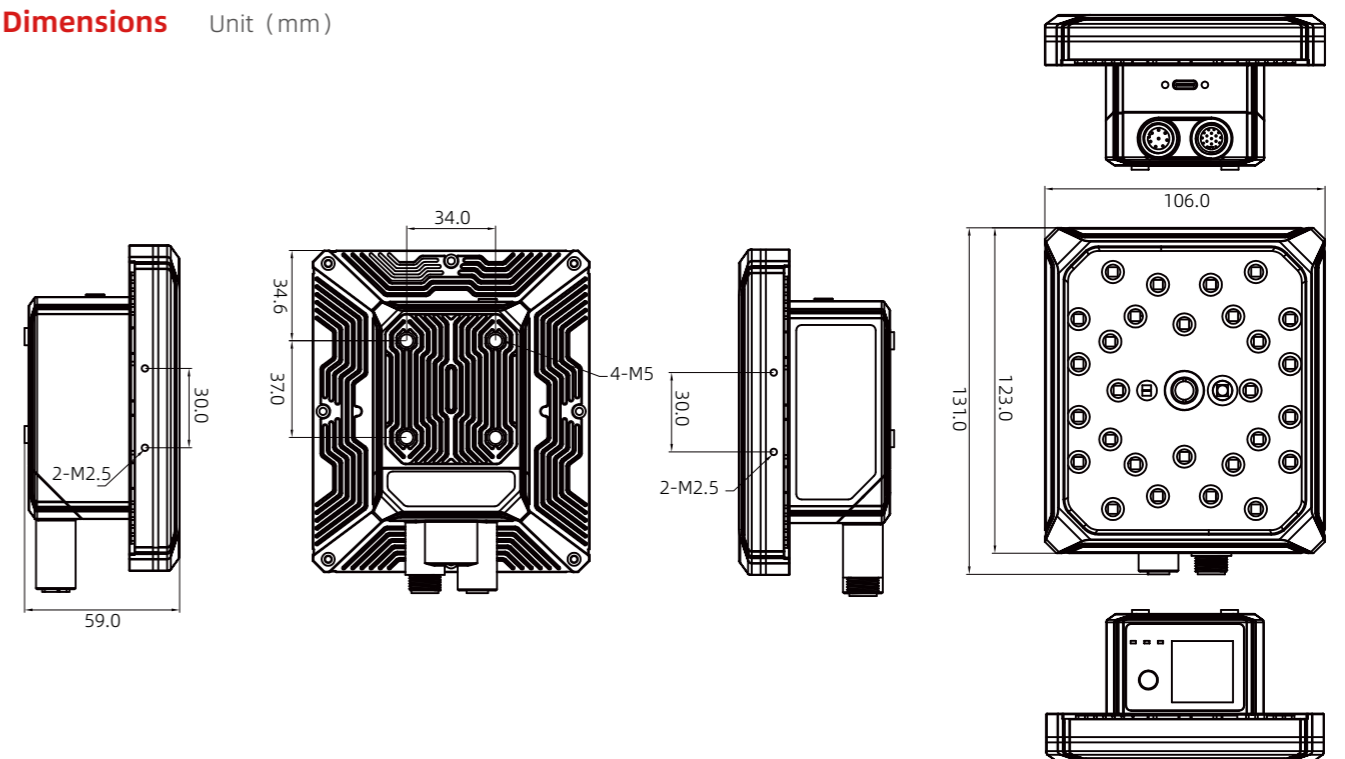
HS Handheld Series

HS3260
Industrial Handheld Barcode Reader

HS3260 is an industrial wired handheld barcode scanner launched by brand "infoscan". Using megapixel sensor, efficient processors and well-designed lighting units. HS3260 series can instantly read printed barcodes, radium carved codes and common DPM barcodes, with IP65 protection grade design, vibrating prompt, 1.8m drop resistance, which fully meets harsh work environments.

Product Features

Excellent barcode reading performance

Megapixel CMOS sensor with excellent image and decoding algorithm, greatly improves reading fluency and reading depth of field. Meet various reading scenarios such as label bar code, radium carving bar code and dot matrix bar code, etc.

Diverse feedback prompts

Equipped with LED light prompts, buzzer sound prompts and vibration sensing prompts. Ensure timely and accurate code reading feedback in noisy environment.

Universal communication interface

Supports USB keyboard, USB simulation serial port and RS232 communication.

Industrial grade design for demanding environments

Adopts IP65 protection grade design, which can withstand more than 30 times impact impact of falling from a 1.8m height to cement ground. The product is strong and durable, which minimizes the failure occuring.

Applications

| Home appliances manufacturing | Electronics manu-facturing | Automobile manufacturing | Transportation | Food and drug traceability |

Reading Range

Unit（mm）

Barcode Specifications	Nearest	Farthest
3.34mil Code 128	35	130
5mil Code 128	23	165
10mil Code 128	5	250
15mil Code 128	10	345
5mil DataMatrix	45	85
6.67mil DataMatrix	35	130
10mil DataMatrix	25	180
15mil DataMatrix	20	220

Technical Specifications

Sensor	CMOS sensor
Image Resolution	1280x800
Motion Tolerance	100 cm/s
Viewing Angle	34° (Horizontal), 21.25° (Vertical)
Roll/Pitch/Yaw	360° (Roll) 65° (Pitch) 55° (Yaw)
Indicating Way	LED indicator, Buzzer indicator and Vibration indicator
Illumination Source	Body light source: 2 red LEDs Auxiliary light source: 4 red LEDs
Aiming Mode	Laser cross aiming
Communication Mode	RS232, USB (Simulated Serial port, Simulated keyboard)
Operating Voltage	5VDC±5%
Standby Current	140 mA
Operating Current	380 mA
Weight	261g (Cable excluded)
Dimensions (LxWxH)	199.0mm×77.0mm×94.0mm
Operating Temperature	-10°C ~ 45°C
Storage Temperature	-30°C ~ 60°C
Relative Humidity	5% ~ 95% Non-condensing
Drop Resistance	Withstanding multiple impacts of falling from a height of 1.8 meters onto the cement floor (Over 30 times)
IP Rating	IP65
ESD Protection	±20KV Air discharge, ±10KV Direct discharge
Ambient Light Immunity	0 ~ 10000 lux
Certifications	CE, RoHS
Readable Code Symbologies	1D, 2D and stacked codes that comply with national and international standards
Maximum Reading Accuracy	1D barcode: 3 mil 2D barcode: 5 mil

Standard Model Configuration Table

● REC   HS3260

Model	Description
HS3260-10-U-02A	Wired handheld, Red LED, USB set, 2-meter Cable
HS3260-10-R-02B	Wired handheld, Red LED, Serial port set, 2-meter Cable, 5V 2A Power supply

Dimensions

77.0
94.0
199.0

Unit（mm）
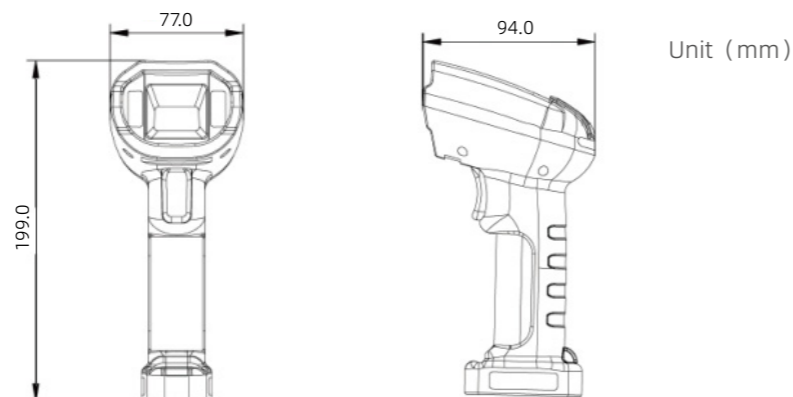
HS3150/HS3155
Universal Handheld Barcode Reader

HS3150 is a universal handheld barcode reader, equipped with a megapixel sensor and efficient processor. It can quickly read label barcodes, screen barcodes and good DPM barcodes. The product has a lightweight appearance and is easy to hold and operate. It is widely applicable in electronics, traceability, medical industries, etc. Meanwhile, wireless Bluetooth communication model HS3155 is provided.

Product Features

Equipped With a 1.3 Million Pixels Sensor

The use of high pixel sensors significantly improves reading accuracy (3mil) and working distance compared to the last generation products

Meet Universal Barcode Reading Scenarios

Reading accuracy can reach 3mil (1D) and 5mil (2D)
Easily read label barcodes and screen barcodes
Can read DPM barcodes such as good laser engraving codes and inkjet codes, etc.

Humanized Structural Design

Lightweight exterior design for easy hold
Strong and durable, more suitable for long-term and high-frequency use scenarios

Wireless Transmission and Battery Life

Adopting next-generation Bluetooth transmission technology
Wireless communication distance can reach over 80m (in open space),2500mAh Battery capacity combined with optimized power saving mode enables continuously use for more than 9 hours (triggered once every 2 seconds)

Applications

Home Appliances Manufacturing	Electronics Manufacturing	Transportation	Food and Drug Traceability

Reading Distance

Unit（mm）

Barcode Specifications	Nearest	Farthest
3.34mil Code 128	40	125
5mil Code 128	30	164
10mil Code 128	15	255
15mil Code 128	15	281
5mil DataMatrix	38	92
6.67mil DataMatrix	33	137
10mil DataMatrix	20	198
15mil DataMatrix	20	227

Technical Specifications

Model	HS3150 (wired)	HS3155 (wireless BT)
Sensor	CMOS sensor	
Image Resolution	1280x1024	
Acquisition Speed	Up to 60 frames per second	
Angle of View	44° (Horizontal), 34° (Vertical)	
Roll/ Pitch/ Yaw	360°(Roll), 65°(Pitch), 55°(Yaw)	
Reading Direction	Elevation angle ±60° Oblique angle ±55°	
Illumination Source	White LED	
Aiming Mode	Red LED	
Communication Interface	RS232, USB (Simulated Serial port, Simulated keyboard)	USB (Simulated Serial port, Simulated Keyboard)
Operating Voltage	5VDC±5%	Reader:4.2V ± 10% VDC, Base power supply:5V ± 5% VDC/USB
Operating Current	300mA	
Standby Current	165mA	
Battery Specifications		3.7V / 2500mAh
Battery Endurance		Above 9 hours (triggered every 2 seconds, decoding over 16000 timesin average)
Charging Time		6 hours

Wireless Signal	2.4-2.5 GHz Bandwidth range
Communication Distance	80m (open),20m (indoor) Support storage
Storage Capacity	20,000 pcs (13-bit character/pc)
Shell Material	PC
Weight	148g / Reader: 200g Base: 167g (horizontal base type) / 128g (vertical base type)
Dimensions (LxWxH)	163.0mmx69.5mmx106.0mm / Reader: 160.5mmx69.5mmx108.0mm; Communication base: 128.0mmx98.0mmx85.0mm(vertical); 201.1mmx94.2mmx56.0mm (horizontal)
Operating Temperature	0 ~ +45 ℃
Storage Temperature	-10 ~ +50 ℃
Relative Humidity	5% ~ 95% non-condensing
IP Rating	IP54
Certifications	CE,FCC,RoHS
Ambient Light Immunity	Sunshine: 10000 Lux Incandescent lamp: 6000 Lux
Drop Resistance	Capable of withstanding multiple impacts of falling from a height of 1.2 meters onto a cement floor (allowable deflection of 5°)
Readable Code Symbologies	1D, 2D and stacked codes that comply with national and international standards
Maximum Reading Accuracy	1D code: 3mil 2D code: 5mil

Standard Model Configuration Table

● REC   **HS3150/HS3155**

| Model	Description
HS3150-00-U-02A	Handheld wired barcode reader, white LED illumination, USB set, 2-meter cable
HS3150-00-R-02B	Handheld wired barcode reader, white LED illumination, RS232 set, 2-meter cable, 5V power supply
HS3155-02-U-02A	Wireless handheld, white LED, USB set,horizontal communication base,cable of 2 meters
HS3155-02-U-02B	Wireless handheld, white LED, USB set, horizontal communication base,cable of 2 meters, 5V power supply
HS3155-05-U-02A	Wireless handheld, white LED, USB set, vertical communication base, cable of 2 meters

Dimensions

HS3150

Unit（mm）

163.0
69.5
106.0
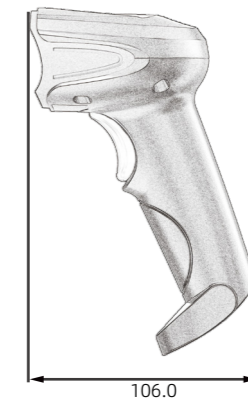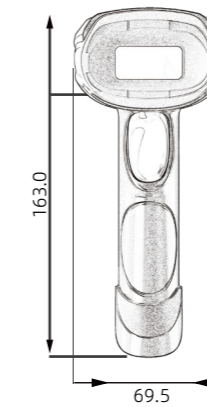
HS3155
Horizontal Base Type

Unit（mm）

56.0
94.2
201.1
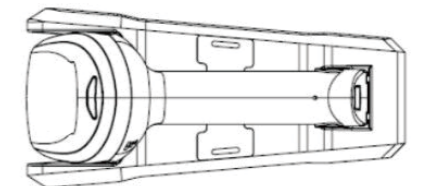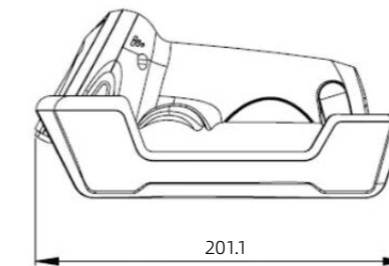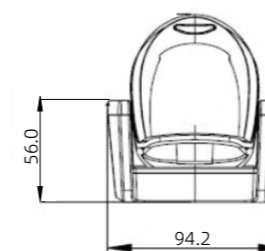
HS3155
Vertical Base Type

69.5
160.5
108.0
85.0
128.0
98.0
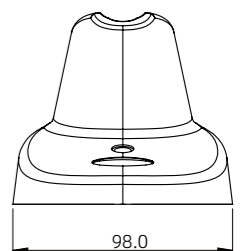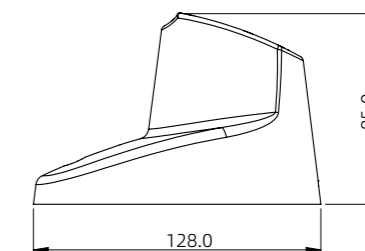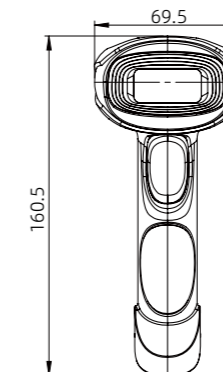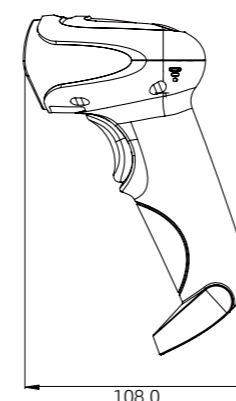
HS3660/HS3665
Handheld Industrial DPM Code Reader

HS3660 is an industrial wired handheld barcode reader with superior performance for various DPM (Direct Part Mark) barcodes reading occasions. HS3660 adopts multi-color intelligent switching surface light source, professional image processing and DPM decoding algorithm and industrial grade protection design. It can be used for diverse DPM code reading applications such as reflective, stained, low contrast, small-sized and punching code reading, in the field of automotive components, metal manufacturing industries. The wireless Bluetooth communication model is HS3665.

Product Features

Powerful DPM decoding capability

Applicable for challenging DPM barcodes such as reflective, stained, low-contrast and small-sized barcodes;Can be widely used in various DPM code reading applications such as automotive metal components, chip packaging and home appliance assembly, etc.

Diverse feedback prompts

Equipped with LED light prompts, buzzer prompts and vibration prompts, ensuring timely and accurate code reading feedback in noisy and applicable environments

Multiple color intelligent switching light source

Provide white point light source, red and blue surface light source to handle barcodes on various materials and surfaces (such as reflective, different colors, metal, curved surface, etc.), automatically switch and match the best light source scheme

Excellent wireless communication performance

Wireless communication transmission distance can reach 80m (in open space),Battery capacity: 2500mAh Optimized power saving mode, with continuous use time of over 9 hours (triggered once every 2 seconds)

Applications

Home appliances manufacturing	Electronics manufacturing	Automobile manufacturing	Aerospace manufacturing	New energy industry

Reading Distance

Unit（mm）

Reading Distance	Nearest	Farthest
3.34mil Code 128	25	123
5mil Code 128	22	179
10mil Code 128	6	287
15mil Code 128	6	384
5mil DataMatrix	35	103
6.67mil DataMatrix	25	125
10mil DataMatrix	5	243
15mil DataMatrix	5	254

Technical Specifications

Model	HS3660(wired)	HS3665(wireless Bluetooth)
Sensor	CMOS sensor	
Image Resolution	1280x1024	
Acquisition Speed	Up to 60 frames per second	
Viewing Angle	44° (Horizontal), 34° (Vertical)	
Roll/ Pitch/ Yaw	360°(Roll), 65°(Pitch), 55°(Yaw)	
Reading Direction	Angle of elevation ±60° , Oblique angle ±55°	
Illumination	White point light source/Red surface light source/Blue surface light source	
Aiming Mode	Laser aiming	
Communication Interface	RS232, USB (simulated Serial port, simulated Keyboard)	
Battery Specifications	3.7V/2500mAh	
Battery Life	Over 9 hours (triggered every 2 seconds, decoding over 16000 times in average)	
Charging Time	6.5 hours	
Communication Distance	Open: 82m , Indoor : 28m	
Storage Capacity	13-bit character/pc	
Operating Voltage	5VDC±5%	Reader: 4.2VDC±10% Base (power supply): 5VDC±5%

| Standby Current	150mA	
Operating Current	310mA	
Power Consumption	1.55W	
Shell Material	PC	
Weight	237g	275g（Reader），276g（Base）
Dimensions (LxWxH)	191.8mm x 130.2mm x 76.9 mm	Reader: 192mmx130mmx77mm Base: 246mmx100mmx93mm
Operating Temperature	0 ~ +45℃	
Storage Temperature	-10 ~ +50℃	
Relative Humidity	5% ~ 85% non-condensing	
IP Rating	IP67	
Certification	CE,FCC,RoHS	
Ambient Light Immunity	Sunshine: 10000 Lux, Incandescent lamp: 6000 Lux, Fluorescent lamp: 2000 Lux	
Drop Resistance	Capable of withstanding multiple impacts of falling from a height of 1.2 meters onto a cement floor (allowable deflection of 5°)	
Readable Code Symbologies	1D, 2D and stacked codes that comply with national and international standards	
Maximum Reading Accuracy	1D code: 3mil, 2D code: 4mil	

Standard Model Configuration Table

HS3660 Set

Model	Description
HS3660-30-U-02A	Handheld, Wired, DPM illumination, USB set, 2-meter USB cable
HS3660-30-R-02B	Handheld, Wired, DPM illumination, RS232 set, 2-meter Serial port cable, 5V Power supply

HS3665 Set

Model	Description
HS3665-32-U-02A	Handheld, Wireless Bluetooth, DPM illumination, USB set, 2-meter USB cable, Communication base
HS3665-32-R-02B	Handheld, Wireless Bluetooth, DPM illumination, RS232 set, 2-meter Serial port cable, 5V Power supply, Communication base

Dimensions

HS3660   Unit（mm）

192.0   77.0   130.0

HS3665   Unit（mm）

246.0   93.0   100.0   192.0   77.0
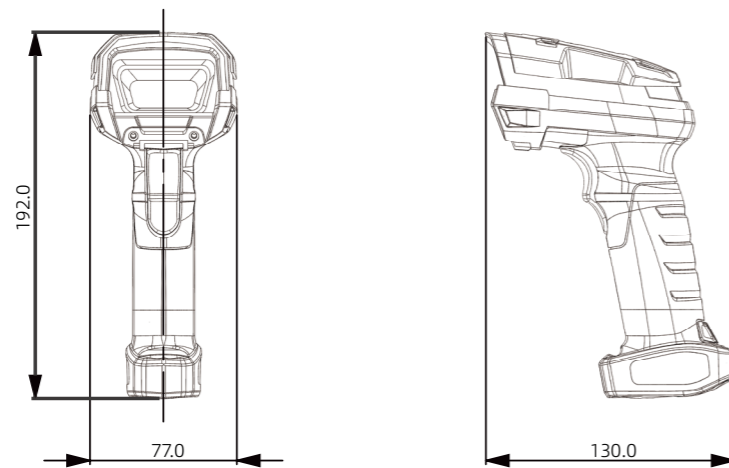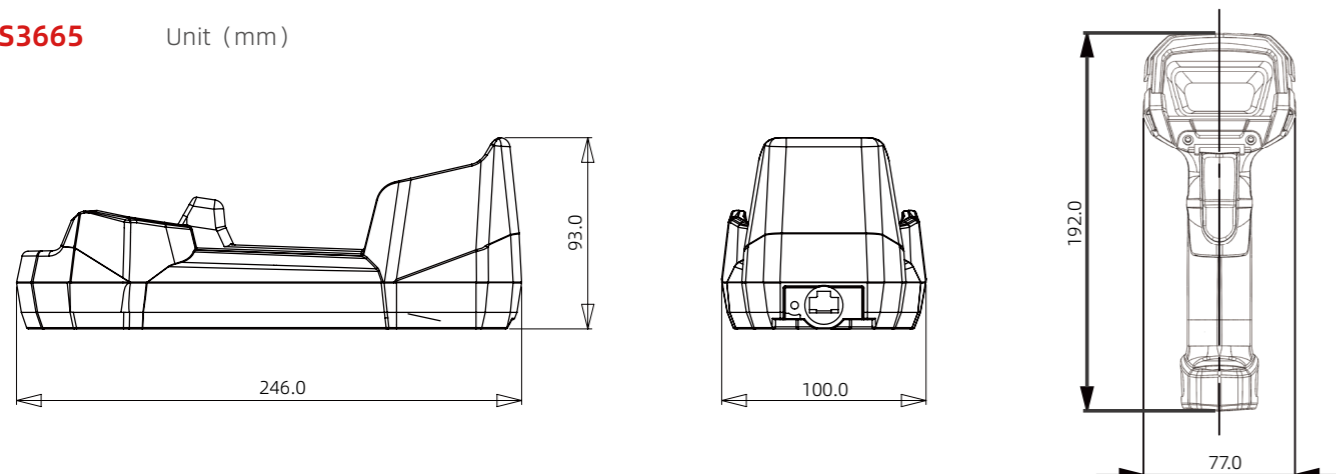
Embedded Barcode Scanner Series

RV100 Series
Embedded Barcode Scanner

Product Features

Ultra-small design;Embedded products that are easy to be integrated into equipments

The product size is only: 40.0mmX37.3mmX25.1mm

Support commonly used communication modes;Apply to most equipment integration needs

Support communication modes: Serial port, USB (Simulated Keyboard, Simulated Serial Port); Adaptive interface for different cables (Serial port cable and USB cable)

Applications

Medical Testing
Equipment Integration

Test Instrument Integration

Self-service
Terminals Integration

Reading Distance

Unit（mm）

Barcode Specifications	Nearest	Farthest
3.34mil Code 128	50	110
5mil Code 128	40	130
6.67mil Code 128	40	140
10mil Code 128	40	160
15mil Code 128	40	190
5mil DataMatrix	40	110
6.67mil DataMatrix	40	120
10mil DataMatrix	40	150
15mil DataMatrix	40	160

Technical Specifications

Sensor	1/4 inch CMOS, global shutter
Image Resolution	1280X800
Acquisition Speed	Up to 72 frame/s
Focusing Mode	Fixed focus
Focal Length	4mm
Viewing Angle	48°（horizontal）
Trigger Mode	Command trigger; I/O trigger; Continuous reading mode; Key trigger; Inductive mode
LED Indicator	3pcs LED indicator lights (power, reading success, reading failure)
Illumination Source	Body light source: 2pcs LED lights (high-brightness) Auxiliary light source: 4pcs LED lights (high-brightness)
Illumination Source Color	Body light source: red LED, Auxiliary light source: red LED
Aiming Mode	Laser cross aiming
Laser Safety Level	Class 2
Communication Modes	RS232、USB (simulated Serial port, simulated Keyboard port)
Power Supply	5VDC / USB power supply
Power Consumption	Standby: 1.2W Average: 1.75W Peak: 2W
Operating Current	Standby: 240mA Average: 350mA Peak: 400mA
Number of Input Signal	1
Number of Output Signal	2
Shell Material	PC + ABS
Weight	28g (excluding cables)
Dimensions (L x W x H)	40.0mm x 37.3mm x 25.1mm
Operating Temperature	-10 ~ 50 ℃
Storage Temperature	-20 ~ 65 ℃
Relative Humidity	5% ~ 95% non-condensing
Vibration Resistance	10 ~ 55 Hz: double amplitude 2.5 mm / 3 hours in X, Y or Z directions
IP Rating	IP54
EMC	EN55032:2015 EN55024:2010
Certifications	CE, RoHS
Readable Code Symbologies	1D, 2D and stacked codes that meet national and international standards
Maximum Reading Accuracy	1D code: 3mil 2D code: 5mil

Dimensions

Unit（mm）

40.0
28.0
24.1
25.1
37.3
16.6
2-M3
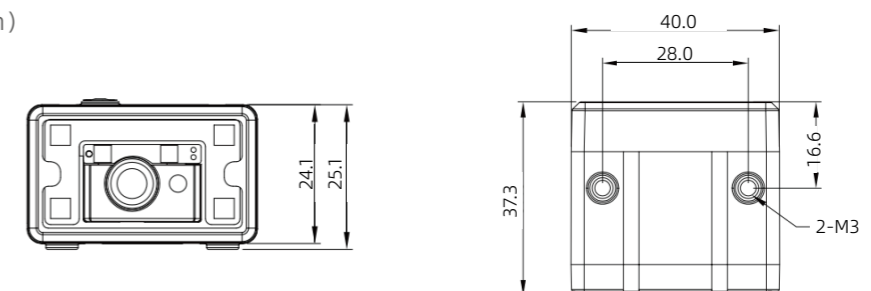
ACCESSORIES
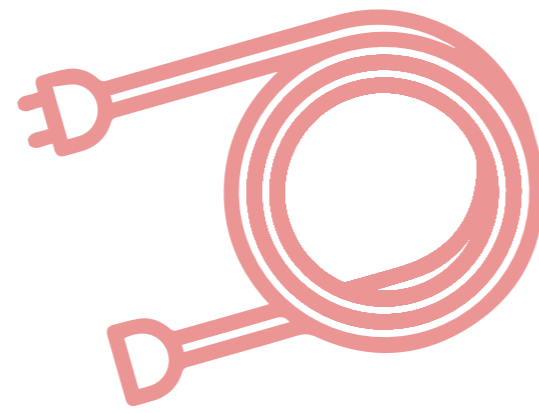
Category: Communication cable
 with circular connector

Function description: Ethernet communication;
Serial port communication; USB communication
IO terminals / External power supply
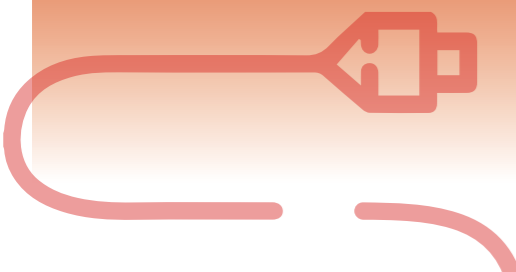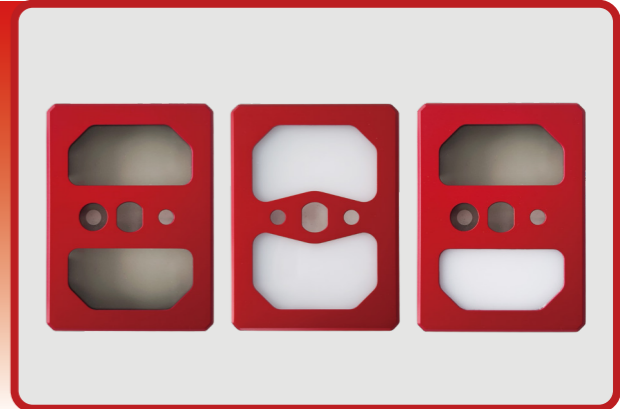
Applicable series: FV6X / FV10X / FV2X0 series

Category: Type-C communication cable

Function description: Serial port communication;
USB communication
IO terminals /External power supply

Applicable series: FV3X series

Category: Dragging-resistant cable

Function description: Ethernet communication;
Serial port communication
IO terminals / External power supply
5 Million times dragging in multiple directions

Applicable series: FV6X / FV10X / FV2X0 series

Category: DC power supply

Function description: 5V / 24V
 Device power supply

Applicable series: All series

Category: Optical kit

Function description: Polarization kit/
Atomization kit/Polarization
and atomization combined kit

Applicable series: FV10X / FV2X0 series

Category: Fixing piece (set) for installation

Function description: L-shaped metal fixing plate
 Insulating gasket
 Insulating screws

Applicable series: FV series

Category: Integrated light source

Function description: Integrated surface
light source

Applicable series: FV10X series
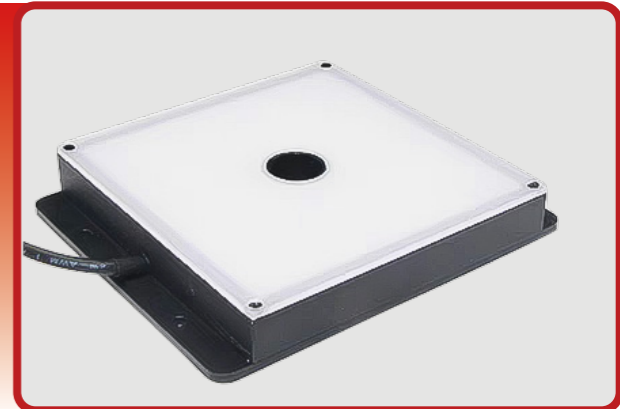
SOLUTIONS

Photovoltaic Industry

Applications
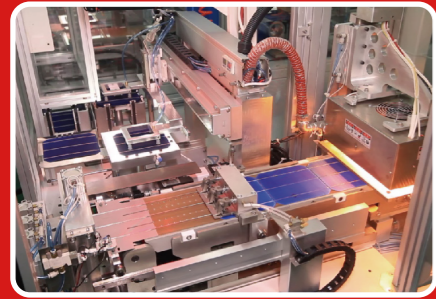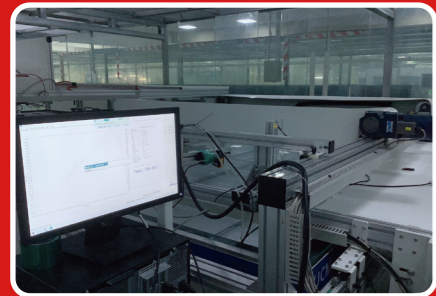

String Welding Machine Station

Laminator Station
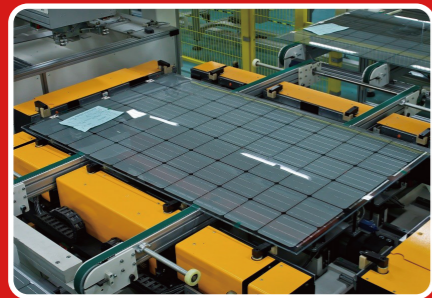
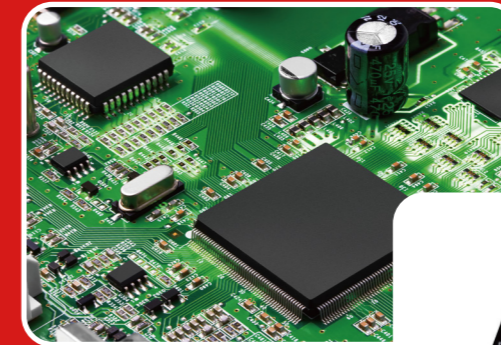Framing Station

EL Test

IV Test Station

FI Upper and Lower
Code Reading Station

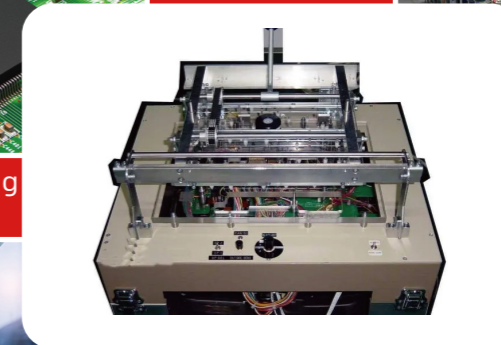Recommended series: HS3155/FV6X/FV10X/FV2X0 series

Electronics Industry

Applications

Circuit Board Manufacturing

Assembly Line

Test Fixture

Automation Equipment Integration
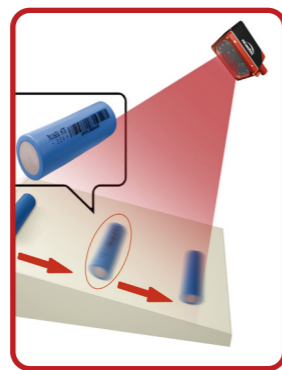

Packaging and Transportation
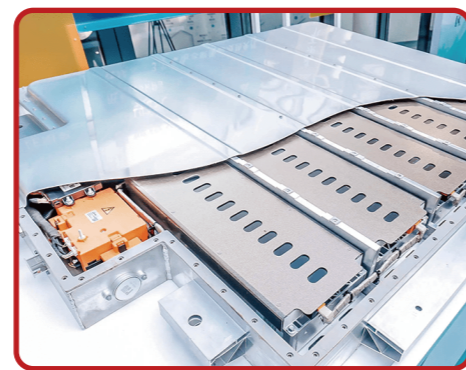
Recommended series: HS3260/FV3X/FV6X/FV10X series
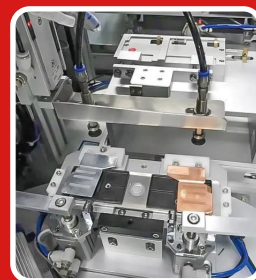
New Energy Industry

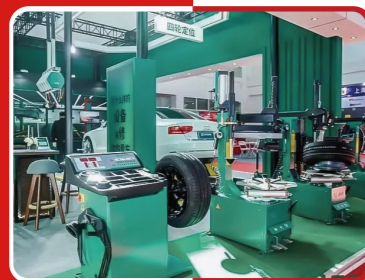## Applications

Multiple Barcodes Wide-range Reading

Dynamic Acquisition

Aluminum Shell Battery/Soft Pack Battery/Cylindrical Battery/Special-shaped Batteries, etc., Various Packaging Forms

Tab Welding   Repair Station   Automated Testing   Filling Machine Station

Technical Proposal

Atomized Illumination

·Improve decoding performance of metal surface patterns and irregular reflections on aluminum shell batteries.

Use point light illumination   Use atomization illumination

Blue LED Illumination

·For the common blue film black barcode used in soft-packed battery packs, the imaging effect is better.

Atomized illumination   Blue LED illumination

Rotatable 90° connector

Innovative Structural Design and Accessories

·Rotatable 90° connector for easy wiring, installation and use in limited spaces.

·Corrosion-resistant model to avoid corrosion of lenses by corrosive acids and to avoid the degradation of imaging quality.

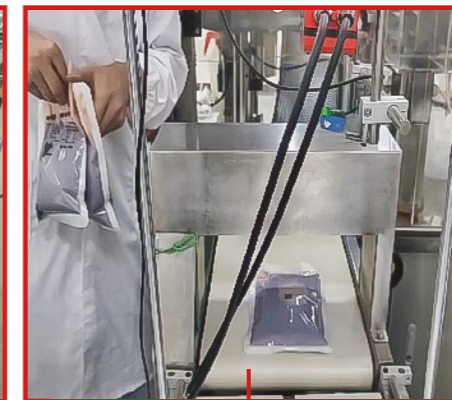·Provide high-flexible cables (cable standard for robot) to meet multi-directional bending requirements.

Recommended series: HS3660 /FV6X /FV10X series

Tracing Industry

Applications

Cosmetic Box Code Reading

Code Reading of Pharmaceutical Packaging Bags

Large Field of View Acquisition

Packaging Bag/Bottle/ Box Code Acquisition

High-speed/ High-frequency Acquisition

Printing Barcodes/Labels/Inkjet Codes/ Laser Engraving Codes

Recommended series: HS3050/HS3155/FV10X/FV2X0 series

Automation Equipment Integration

Applications

Miniaturized structural design, easy to install in narrow spaces.

Widely used in DPM codes such as laser engraving and inkjet printing codes.

Supports Ethernet protocol, compatible with PLC and automation equipment communication integration.

Assembly Line Equipment Integration
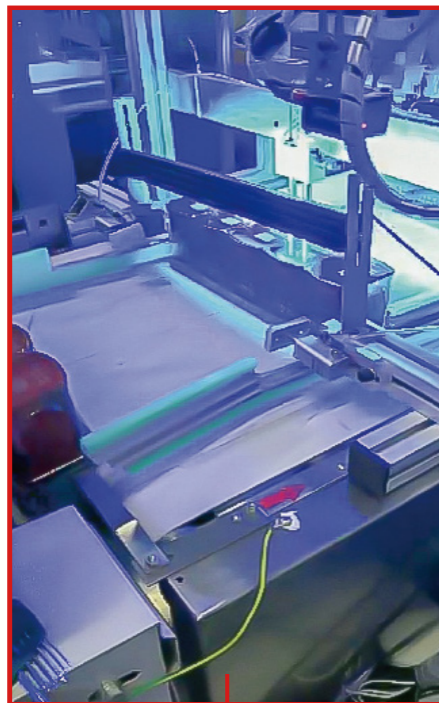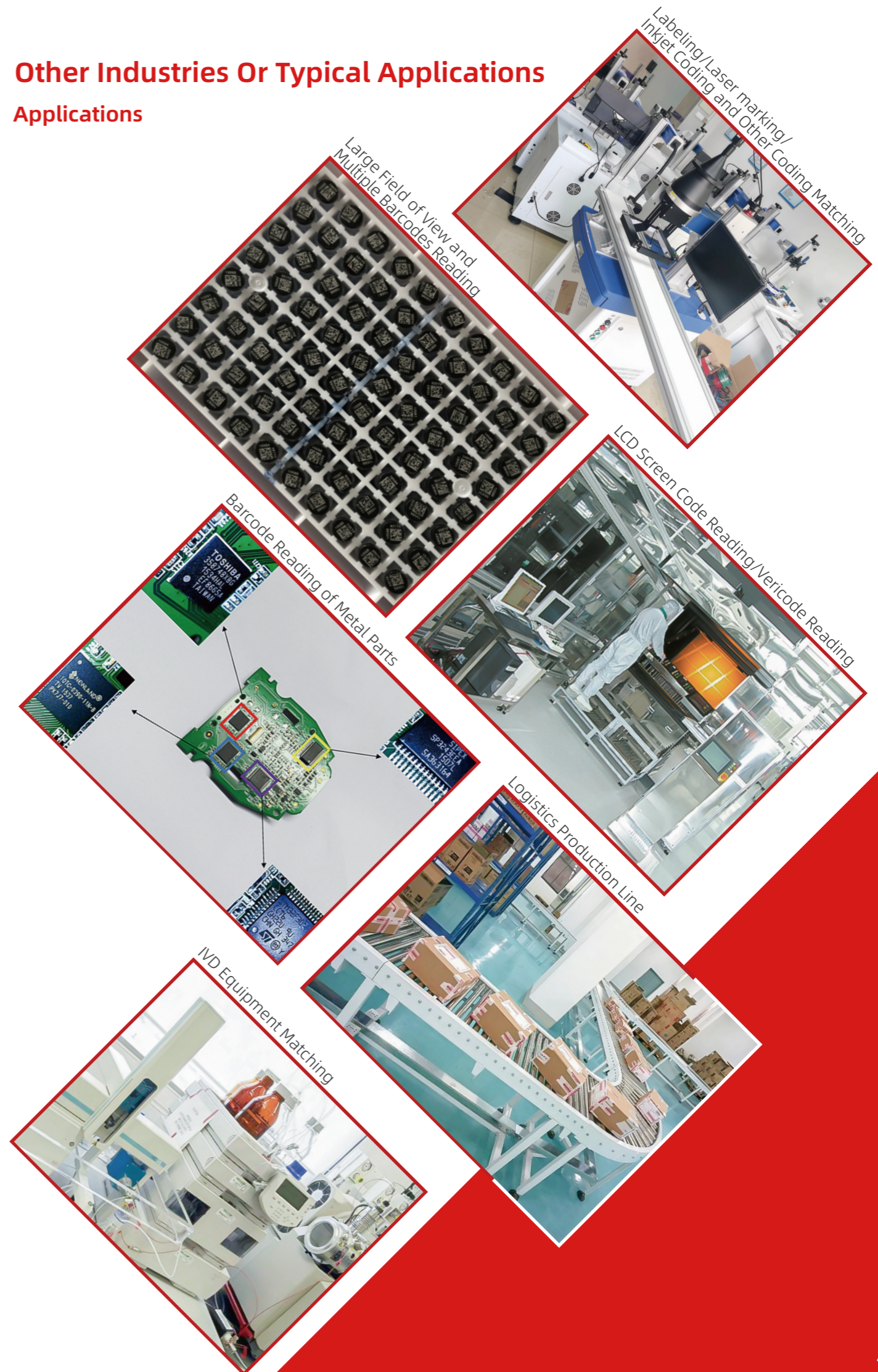
Automation Equipment Integration

Test Fixture Integration

Recommended series: FV3X series/FV6X series/FV10X series

Other Industries Or Typical Applications

Applications

Labeling/Laser marking/Inkjet Coding and Other Coding Matching

Large Field of View and Multiple Barcodes Reading

LCD Screen Code Reading/Vericode Reading

Barcode Reading of Metal Parts

Logistics Production Line

IVD Equipment Matching

WORRY-FREE SERVICE

Answers to pre-sales inquiries

↓

After procurement of samples, engineers and customer service personnel provide testing support and following-up services

↓

Provide our partners with systematic product training and on-site testing services if necessary

↓

Warranty period is 12 to 36 months; for every 50 units purchased, 1 unit will be given as a free spare product

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CERTIFICATIONS AND HONORS

14 Years of Deep Ploughing in Code Reading Industry

50+ Products&Solutions

5K+ Customers

30W+ Sold Devices

3 National Honors

5 Municipal Honors

50+ Patent Certifications