研祥集团 EVOC GROUP SINCE 1978 | 中国企业500强

EVOC Regem Marr 研祥金码

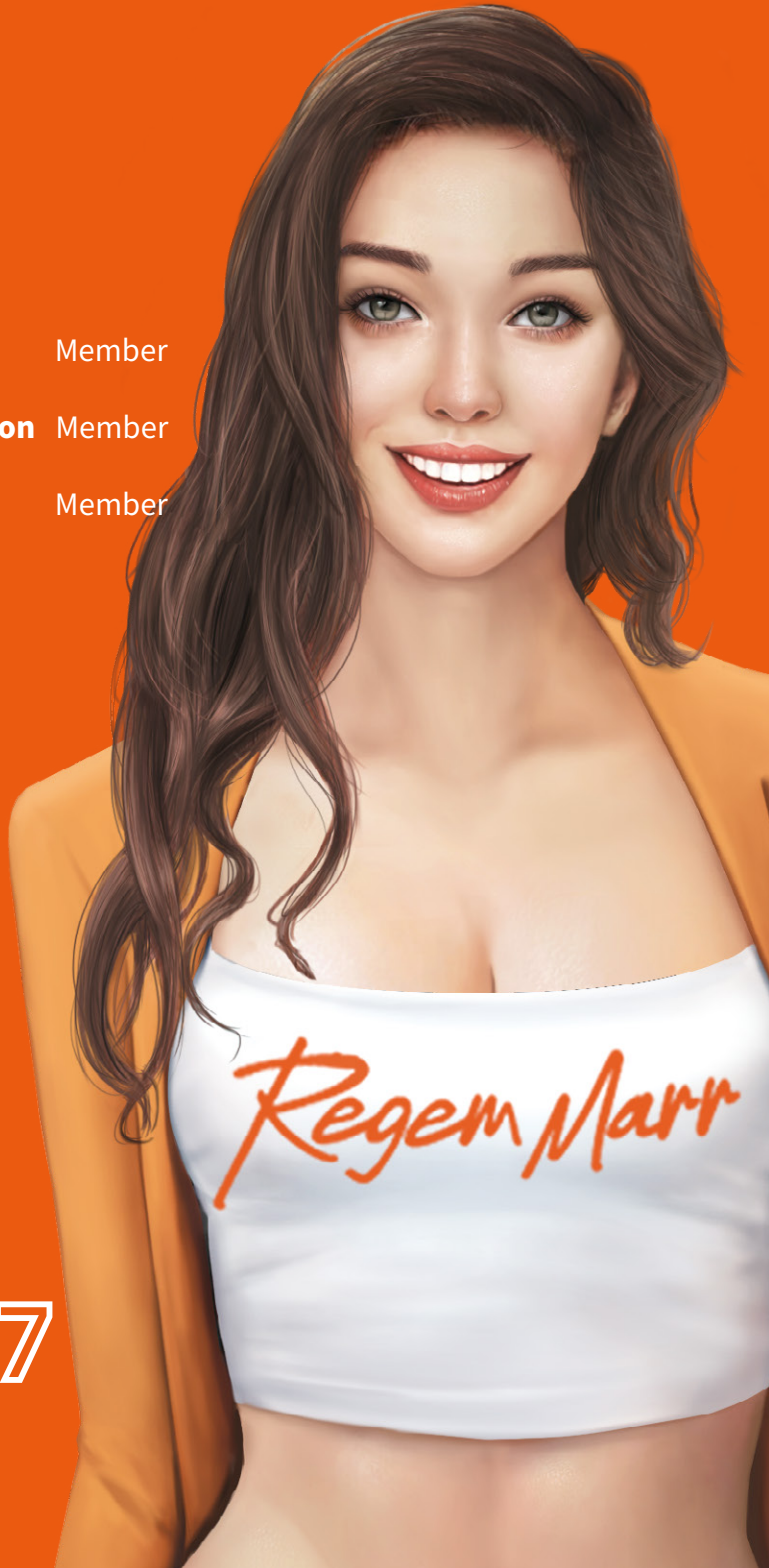
读码专家+屏检专家=研祥金码

CODE READING EXPERT

V6.2

- ★ **China Association for Mechatronics Technology and Application** Member
- ★ **China PROFIBUS & PROFINET Association** Member
- ★ **China Machine Vision Industry Union** Member

Brand Image Spokesperson: *Eva*



Position: EVOC Product Manager

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ABOUT US

EVOC Regem Marr

Shenzhen EVOC Regem Marr Technology Co., Ltd. (hereinafter referred to as "EVOC Regem Marr") is a wholly-owned subsidiary of EVOC Hi-tech Holding Group specializing in machine vision business. EVOC Group, with 76 branches around the world and three national innovation platforms, has been committed to leading the development of the industry through technological innovation. It has applied for more than 1,700 patents, nearly half of which are invention patents, and possesses more than 1,300 non-patented core technologies.

As a national standard-setting organization in the machine vision industry, EVOC Regem Marr's core machine vision recognition technology and algorithms (originated from Switzerland in 1932) focus on code reading and screen inspection. It is committed to the R&D, production and sales of intelligent production, processing and quality inspection equipment in the field of smart code readers and display screens, making it an international innovative high-tech enterprise.

EVOC Regem Marr's "Code Reading Expert", a smart code reader, leads the market with excellent and stable product performance. Based on deep learning AI decoding algorithms, it is equipped with ultra-high performance algorithm chips, million-level image sensors, human eye bionic liquid lenses, and built-in LED light sources to meet enterprises' needs for ultra-long distance, ultra-wide field of view, adaptive large depth of field, ultra-high-speed fast code reading, high-precision small code decoding, etc.

EVOC Regem Marr's "Screen Inspection Expert", a screen inspection solution, is based on industry-leading technologies such as innovative AI artificial intelligence, core image processing algorithms and ultra-fast optical imaging. Equipped with multiple sets of high-resolution cameras and optical systems, it is specialized in intelligent and comprehensive inspection of smart screens, Smart TV, display screens, all-in-one machines and other display devices to help customers reduce costs, increase efficiency, reduce inventory and improve quality.

The business of EVOC Regem Marr mainly covers new energy, lithium battery, semiconductor, electronic components, packaging, household appliances, automobile, food, medicine, logistics and automation equipment. Since its launch, the Company's products have been widely used in well-known enterprises such as Huawei, BOE, Hisense, Xiaomi, Skyworth, Changhong, BYD, Midea, DJI, Foxconn and Genki Forest, winning praise and trust.

LEADERSHIP CARE

Since its establishment, the Company has adhered to independent innovation and development, which has been cared for and affirmed by state leaders.

On March 4, 2016, President Xi Jinping talked with Chen Zhilie and other speakers at the multiple-group conference of China National Democratic Construction Association and All-China Federation of Industry and Commerce of the National Committee of the Chinese People's Political Consultative Conference (CPPCC).

On April 16, 2018, Li Qiang, then a member of the Political Bureau of the CPC Central Committee and Secretary of the CPC Shanghai Municipal Committee, listened to Chen Zhilie report on the content of the proposal. Chen wasa member of the National Committee of CPPCC and Chairman of the Board of EVOC Group.

CCTV "TOPICS IN FOCUS" FOCUSES ON THE "NEW QUALITY PRODUCTIVE FORCES" OF EVOC REGEM MARR

Since "New Quality Productive Forces" was proposed in September 2023, it has become an important focus of China's economic development. During this year's "NPC&CPPCC", "New Quality Productive Forces" was widely mentioned and even written into the government work report. Accelerating the development of New Quality Productive Forces has become an urgent need for China's modernization.

Picture Source: Topics in Focus, March 6, 2024

1932

Regem Gabriel was born in a small village in Basel, Switzerland. His father owned a photo studio where his father's camera gave him the initial understanding of precision machinery.

1952

Regem Gabriel left his hometown and traveled alone to the small town of Ballaigues in the Jura Mountains to officially start his career as a craftsman. The town of Ballaigues, the center of Switzerland's watchmaking industry, launched Alpa, a generation of famous machines with eye level viewfinder, in 1944.

1953-1970

With the introduction of different camera models, Regem Gabriel has grown to be the skilled predecessor behind Alpa.

1972

Professor David Marr visited Ballaigues Town and was deeply impressed by Regem Gabriel's professional attitude and exquisite skills. The two hit it off and decided to reach new heights in the field of machine vision together. The best paper award at the International Conference on Computer Vision (ICCV), named the Marr Prize, is one of the highest honors in computer vision research.

1975

Regem Gabriel and David Marr created their own nine-member team, Regem Marr. In the same year, the team officially developed an image recognition product with the same name.

1976

B.K.P. Horn, a famous professor in the United States, has taught machine vision courses at MIT and other universities and demonstrated Regem Marr's product model on site.

1977

In 1977, Professor David Marr proposed the Computational Theory of Vision that is different from the "blocks world" analysis method, i.e., Marr's vision theory, which became a very important theoretical framework in the field of machine vision research in the 1980s.

1980-1985

David Marr and Regem Gabriel died in 1980 and 1985 respectively. After that, the Regem Marr team was disbanded, and one of its core members (Chinese) joined MIT to teach.

1987

The Chinese professor returned to China with his team and taught in the Department of Computer Science, Northwestern Polytechnical University.

BRAND MEMORABILIA

1988

The team went deep into the aerospace field and was committed to the design of machine vision frameworks and algorithm research for domestic aircraft.

1992

The team declined an invitation from the Dalle Molle Institute for Perceptual Artificial Intelligence (Istituto Dalle Molle di Intelligenza Artificiale Percettiva, IDIAP) in Switzerland and set out to work on self-calibration methods.

1999

The team and business were officially affiliated to EVOC Group.

2007

The Machine Vision Business Division of EVOC Group was established.

2020

The Ministry of Industry and Information Technology (MIIT) issued the List of Innovative Application Cases of Industrial Internet Platform in 2019, among which EVOC's application cases for intelligent inspection of LCD panels based on machine vision were included.

2021

Shenzhen EVOC Regem Marr Technology Co., Ltd. was established. The word " 金码 (Regem Marr)" in Chinese comes from the transliteration of Regem Marr to express the eternal memory for the two pioneers.

2022

EVOC Regem Marr became a member of China Association for Mechatronics Technology and Application, China PROFIBUS & PROFINET Association and China Machine Vision Industry Union;

The Code Reading Expert won the Top Ten Code Reader Brands, Excellent Technology Innovation Enterprise Award and Blue Dot Award - Innovation Breakthrough Award;

The Screen Inspection Expert won the Display Equipment Innovation Award and the first Intelligent Integration Industry-University Achievement Award.

2023

Leading the industry with innovative technology;

The Code Reading Expert upgraded eight series of products and won the Rohs certification, CE certification and Golden Ant's Most Popular Technology Innovation Award;

The Screen Inspection Expert won the DIC AWARD 2023 International Display Technology Innovation Award.

BRAND STRENGTH

Industry Benchmark

- **EVOC Regem Marr is a national standard-setting organization in the machine vision industry;**
- It has undertaken the R&D and industrialization of national new display (4K/8K) inspection and testing system;
- It has undertaken the research and product development of intelligent vision inspection and positioning system of MIIT;
- National independent innovation products;
- The Group has more than **1100** core patented technologies and more than **1300** non-core patented technologies, including **135** visual recognition and inspection patents;
- It has undertaken more than **110** provincial and municipal science and technology projects of national ministries and commissions, and won **more than 30** awards issued by the state, province and city.

Leading the industry with technological innovations

1D Ultra Algorithm

Leverages industrial AI trained on over 2 million data samples for effectively decoding poor-quality, blurred, skewed, distorted, damaged, stained, and low-contrast codes in even the most complex and challenging scenarios.

Bionic Eye Focus

An automatic focusing lens, combined with exclusive multi-focal, multi-configuration adaption capabilities ensures timely responses—within milliseconds—to issues arising from producing various products on the same production line.

Multi-Size Code Regeneration Algorithm

Repairs incomplete or unclear areas in barcodes of various sizes to quickly identify the desired areas of barcodes, significantly enhancing detection performance.

High-Precision Panoramic Scan

Accurately locates and decodes even the smallest barcodes within a large field of view (60% larger than the previous generation products), greatly boosting the decoding efficiency.

Next-Gen Eye-Friendly Lighting

Reduces eye strain and discomfort by effectively mitigating the glare and flicker from light sources; and effectively addresses the issue of harsh lighting during manual operations by significantly increasing the eye-protection index of industrial lighting.

Flexible Multi-Device Networking

The flexible multi-device networking technology allows for versatile utilization of multiple code readers: 1) Combine fields of view to read barcodes on the same plane. 2) Read barcodes on different planes of the same object. 3) Output data from multiple lines in a unified manner. This addresses the code reading requirements in various production environments.

GOLDEN SERVICE

EVOC Regem Marr

Code Reading Expert

All-round Product Support and Service

Any customer who uses EVOC Regem Marr's products can get instant support and services. With a complete global service network system and well-trained technical service team, EVOC Regem Marr can quickly respond to customers' needs and feedback for 24/7, providing customers with personalized, all-round and multi-channel pre-sale and in-sale service support as well as considerate and reliable after-sales guarantee.

Branches all over the country

With branches all over the country, each branch is equipped with a number of on-site experts to respond quickly and provide high-quality professional services; with a nationwide warranty, customer needs can be responded to within 24 hours.

Official website channel, Online support

Relevant technical documents, tools, drivers and FAQ database are available online at the official website (www.evocjm.com) to enjoy professional official services immediately. You can also directly initiate a dialogue application or submit a message through online communication tools, and our customer service staff will contact you as soon as possible.

Service Hotline, Intimate Service

You can call the service hotline 4000-697-797 anytime and anywhere to obtain manual services such as product introduction, purchase consultation and after-sales treatment. Any questions you feedback will be answered professionally and considerately.

WeChat platform, Unlimited communication

Through the official WeChat platform (WeChat Official Account: Regem Marr 研祥金码), you can keep abreast of the latest news of the Company and various industry information in the first place, and also interact instantly. At the same time, you can quickly obtain professional services by reporting for repair online, inquiring about outlets and warranty periods.

ADVANTAGE

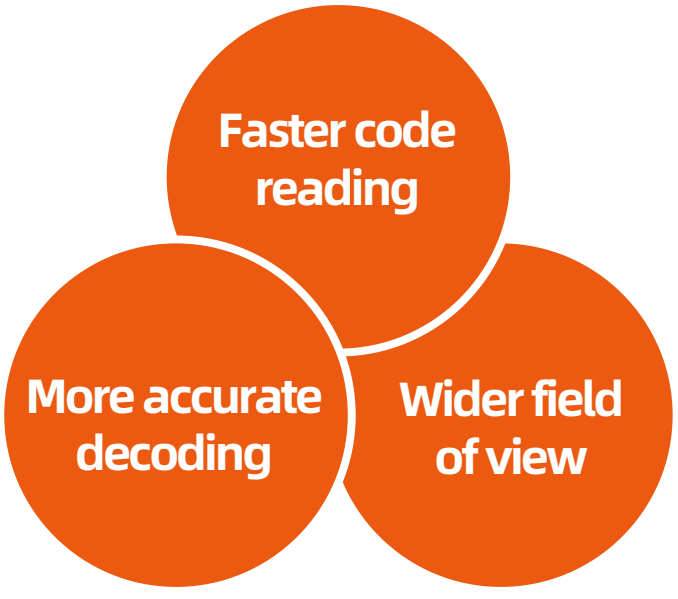
Ultra-high speed reading

Stable reading of various difficult barcodes Compact AI Smart Code Reader

Long-distance large field of view

Built-in ultra-high performance algorithm chip

Deep learning AI decoding algorithm



Equipped with brand-new liquid lens in the industry

Multi-demand iteration

Support OTA remote online upgrade, and continuously iterate to meet your future demands

Multi-scenario adjustment

Multi-scenario adaptive active adjustment can eliminating the trouble of debugging after device replacement and line transfer

Multiple controllable light sources

Multiple sets of controllable light sources make the image clear at night without fear of weak light

Multi-working mode

Multiple working modes can be easily switched to meet your diversified code reading needs

Multimodal access

Accessible locally, remotely and in the cloud so you can see it anytime and anywhere

R-X100 Series

It is an 8K intelligent code reader. With the industry-leading 8K lens and ultra-high pixel sensor of the same level, it can achieve high-precision image quality while expanding the field of view to realize true all-round automatic barcode recognition. The built-in deep AI learning algorithm can quickly and accurately read one-dimensional codes and QR codes of various code systems. The R-X100 series code reader is specially developed for logistics and other industries.

- Ultra-large field of view for **batch reading**
- Ultra-large depth of field for **cost reduction**
- Ultra-high reading speed for **efficiency improvement**

Product features

Algorithm

The built-in industry-leading AI code reading algorithm can accurately and efficiently read various barcodes and QR codes without fear of interference such as dirt and damage.

Light source

Multiple groups of controllable light sources are integrated to realize independent control of light source branches and meet the flexible production requirements.

Performance

asy reading of ultra-small codes with high-precision mil software and hardware;
Excellent one-dimensional barcode/two-dimensional barcode reading performance;
Ultra-high speed, omnidirectional barcode capture and reading.

Installation and application

Plug-and-play quick installation and easy one-step setup.

Lens

Equipped with 8K lens.

Sensors

The fast-response image sensor ensures fine and excellent quality of each image and high-precision reading.

Interface / Protocol

Abundant built-in IO interfaces, compatible with RS232 interface, supporting TCP/IP, Serial, FTP, HTTP and other common communication protocols, making it easy to handle complex site conditions.

Ancillary value

It is not only an intelligent code reader, but also a good helper for business (including production statistics, piecework statistics...), with powerful functions beyond imagination.

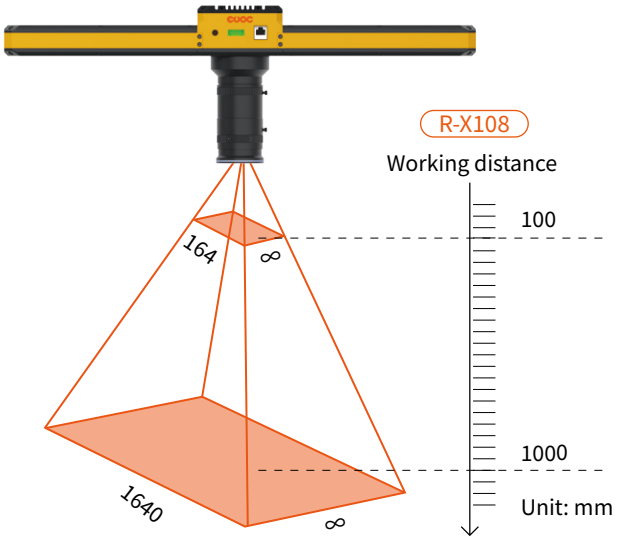
Field of application

Technical parameters

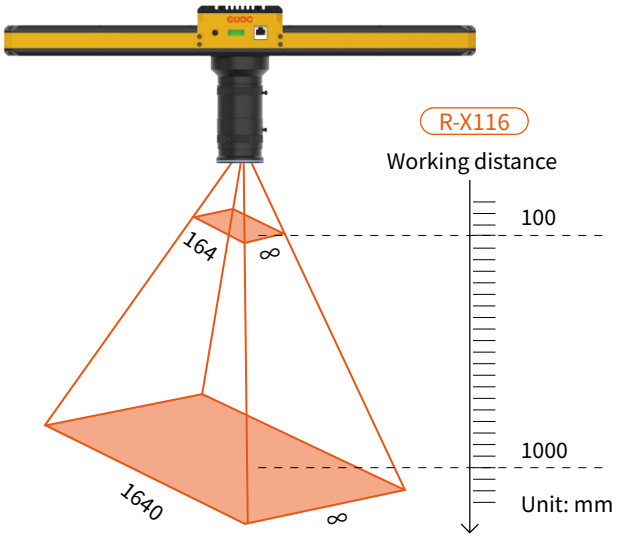
Model		R-X108	R-X116	R-X080H
Product performance	Sensors	CMOS image sensor		CMOS image sensor
	Pixels	High-speed CMOS linear scanning (8192 pixels)	High-speed CMOS linear scanning(16384 pixels)	High-speed CMOS linear scanning (8192 pixels)
	Reading symbols	Barcode:Code128,Code39,Code93,EAN13, EAN8,UPC-A,UPC-E,CodeBar,ITF25		Barcode:Code128,Code39,Code93,EAN13, EAN8,UPC-A,UPC-E,CodeBar,ITF25
		QR code:QR,MicroQR,DataMatrix (ECC200) ,GS1 DataMatrix, PDF417		QR code:QR,DataMatrix (ECC200) ,GS1 DataMatrix, PDF417
Communication protocol	Ethernet	TCP/IP, FTP, HTTP, ModBus, PROFINET, EtherNet/IP		TCP/IP, FTP, HTTP, ModBus
	Serial communication	RS-232, communication speed: 9600, 19200, 38400, 57600, 115200bps		RS-232, communication speed: 9600, 19200, 38400, 57600, 115200bps
Structure	Mode of focusing	Auto		Manual
	Dimension	598*151*78 (mm)		
	Weight	About 3.5 kg		
Electrical specifications	Lighting source	High-brightness red LED / high-brightness white LED		High-brightness red LED / high-brightness white LED
	Buzzer	Supported		Supported
	Button	Trigger		Trigger
	Communication interface	Ethernet, serial port		Ethernet, serial port
	Digital IO	I/O with isolation, 2-channel input and 2-channel output (output: 100 mA or less)		I/O with isolation, 2-channel input and 2-channel output (output: 100 mA or less)
	Power supply/ power consumption	⩽ 160W@48VDC (±10%)		⩽ 160W@48VDC (±10%)
Environmental resistance	Operating temperature	0~50°C		0~45°C
	Storage temperature	-10~50°C		-10~50°C
	Ambient humidity	20%~80%RH (no condensation)		20%~80%RH (no condensation)
	Protection grade	IP65		/
Specification	Certification	FCC certification, CE certification and EU ROHS compliance		FCC certification, CE certification and EU ROHS compliance

Sight Distance Charts and Accuracy Appendices

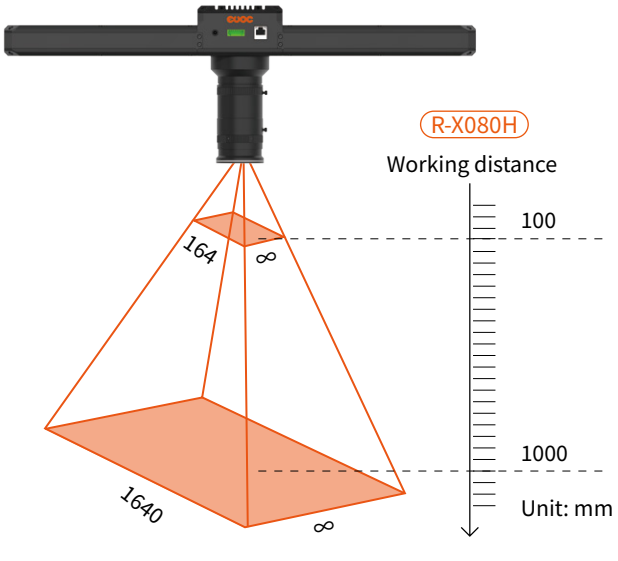
Unit: mm



R-X108			
Distance	Minimum resolution		Field of view
	QR code	One-dimensional code	Length
100	0.030	0.016	164
200	0.060	0.032	328
300	0.090	0.048	492
400	0.120	0.064	656
500	0.150	0.080	820
600	0.180	0.096	984
700	0.210	0.112	1148
800	0.240	0.128	1312
900	0.270	0.144	1476
1000	0.300	0.160	1640



R-X116			
Distance	Minimum resolution		Field of view
	QR code	One-dimensional code	Length
100	0.015	0.008	164
200	0.030	0.016	328
300	0.045	0.024	492
400	0.060	0.032	656
500	0.075	0.040	820
600	0.090	0.048	984
700	0.105	0.056	1148
800	0.120	0.064	1312
900	0.135	0.072	1476
1000	0.150	0.080	1640



R-X080H			
Distance	Minimum resolution		Field of view
	QR code	One-dimensional code	Length
100	0.030	0.016	164
200	0.060	0.032	328
300	0.090	0.048	492
400	0.120	0.064	656
500	0.150	0.080	820
600	0.180	0.096	984
700	0.210	0.112	1148
800	0.240	0.128	1312
900	0.270	0.144	1476
1000	0.300	0.160	1640

R-8000 Series

It is an intelligent code reader specially designed to solve various problems in the logistics field. It is designed for the reading problems in the logistics industry, such as difficult reading caused by large size differences in the logistics industry, high failure rate of reading on high-speed lines and difficulty in setting up high-speed reading.

With ultra-high pixel sensors of the same level, it can achieve high-precision image quality while expanding the width of the field of view by more than 5 times. It has a readable space with both width and depth for ultra-large field of view and ultra-large depth of field to stably read moving barcodes on high-speed lines.

- Ultra-large **field of view**
- Ultra-large **depth of field**
- Ultra-high **reading speed**

Product features

Algorithm

The built-in industry-leading AI code reading algorithm can accurately and efficiently read various barcodes and QR codes without fear of interference such as dirt and damage.

Light source

Multiple groups of controllable light sources are integrated to realize independent control of light source branches and meet the flexible production requirements.

Performance

Easy reading of ultra-small codes with high-precision mil software and hardware;
Excellent one-dimensional barcode/two-dimensional barcode reading performance;
Ultra-high speed, omnidirectional barcode capture and reading.

Ancillary value

It is not only an intelligent code reader, but also a good helper for business (including production statistics, piecework statistics...), with powerful functions beyond imagination.

Lens

Equipped with FA lens, self-adaptive lens focusing and fool-proof program debugging.

Sensors

The fast-response image sensor ensures fine and excellent quality of each image and high-precision reading.

Interface / Protocol

Abundant built-in IO interfaces, compatible with RS232 interface, supporting TCP/IP, Serial, FTP, HTTP and other common communication protocols, making it easy to handle complex site conditions.

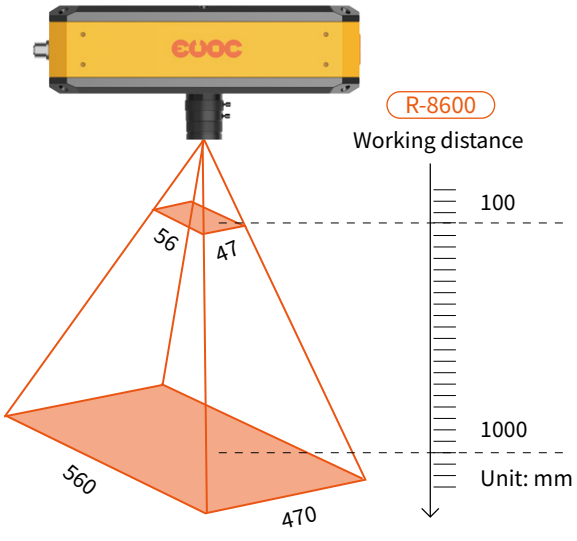
Field of application

Technical parameters

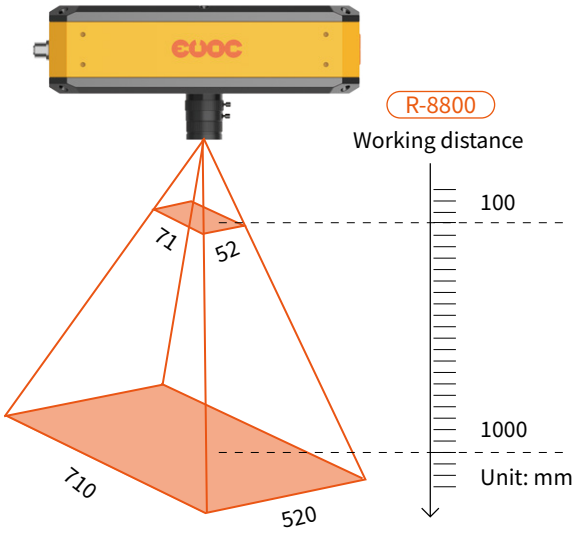
Model		R-8600	R-8800	R-8900	R-8120H	R-8200H
Product performance	Sensors	CMOS image sensor				
	Pixels	2448*2048	4096*3000	8192*4320	4090*3000	5480*3648
	Reading symbols	Barcode:Code128,Code39,Code93,EAN13,EAN8,UPC-A,UPC-E,CodeBar,ITF25				
		QR code:QR,MicroQR,DataMatrix（ECC200）,GS1 DataMatrix，PDF417			QR code:QR,DataMatrix（ECC200）, GS1 DataMatrix，PDF417	
Communication protocol	Ethernet	TCP/IP，FTP，HTTP，ModBus，PROFINET，EtherNet/IP			TCP/IP，FTP，HTTP，ModBus	
	Serial communication	RS-232, communication speed: 9600, 19200, 38400, 57600, 115200bps				
Structure	Mode of focusing	Manual/auto				
	Polarizing filter	Supported				
	Dimension	249.6*142*95.8（mm）	249.6*142*139（mm）			
	Weight	1850g	2050g			
Electrical specifications	Lighting source	High-brightness red LED / high-brightness white LED				
	Positioning indication	High-brightness green LED				
	State indication	Power indicator, network indicator, decoding status indicator and decoding status prompt tone				
	Button	Tuning button, trigger button				
	Communication interface	Ethernet, serial port				
	Digital IO	I/O with isolation, 3-channel input and 4-channel output				
	Power supply/ power consumption	⩽ 60W@24VDC（±10%）				
Environmental resistance	Operating temperature	0~50°C			0~45°C	
	Storage temperature	-10~50°C				
	Ambient humidity	20%~80%RH (no condensation)				
	Protection grade	IP65			/	
Specification	Certification	CE certification and EU ROHS compliance				

Sight Distance Charts and Accuracy Appendices

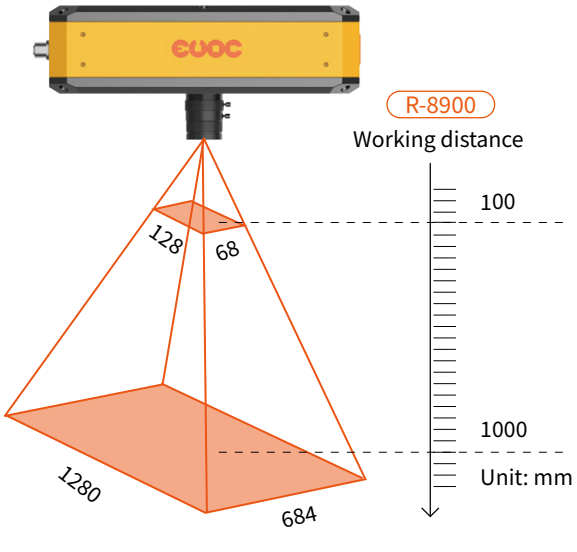
Unit: mm



R-8600				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.034	0.018	56	47
200	0.068	0.036	112	94
300	0.102	0.054	168	141
400	0.136	0.072	224	188
500	0.170	0.090	280	235
600	0.204	0.108	336	282
700	0.238	0.126	392	329
800	0.272	0.144	448	376
900	0.306	0.162	504	423
1000	0.340	0.180	560	470



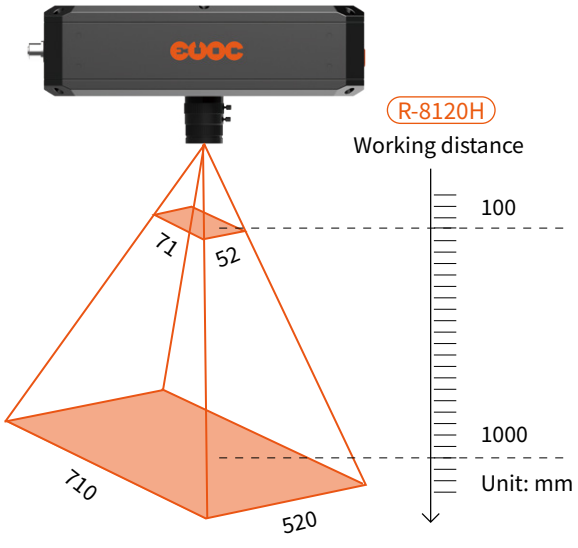
R-8800				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.026	0.013	71	52
200	0.052	0.026	142	104
300	0.078	0.039	213	156
400	0.104	0.052	284	208
500	0.130	0.065	355	260
600	0.156	0.078	426	312
700	0.182	0.091	497	364
800	0.208	0.104	568	416
900	0.234	0.117	639	468
1000	0.260	0.130	710	520



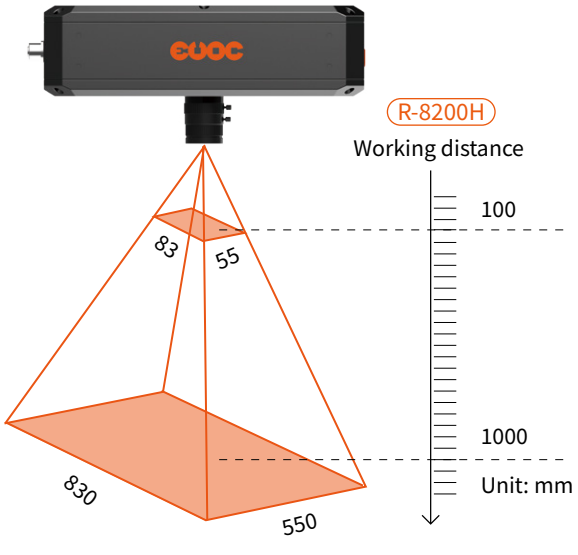
R-8900				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.023	0.013	128	68
200	0.046	0.026	256	136
300	0.069	0.039	384	205
400	0.092	0.052	512	273
500	0.115	0.065	640	342
600	0.138	0.078	768	410
700	0.161	0.091	896	479
800	0.184	0.104	1024	547
900	0.207	0.117	1152	616
1000	0.230	0.130	1280	684

Sight Distance Charts and Accuracy Appendices

Unit: mm



R-8120H				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.026	0.013	71	52
200	0.052	0.026	142	104
300	0.078	0.039	213	156
400	0.104	0.052	284	208
500	0.130	0.065	355	260
600	0.156	0.078	426	312
700	0.182	0.091	497	364
800	0.208	0.104	568	416
900	0.234	0.117	639	468
1000	0.260	0.130	710	520



R-8200H				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.022	0.012	83	55
200	0.044	0.024	166	110
300	0.066	0.036	249	165
400	0.088	0.048	332	220
500	0.110	0.060	415	275
600	0.132	0.072	498	330
700	0.154	0.084	581	385
800	0.176	0.096	664	440
900	0.198	0.108	747	495
1000	0.220	0.120	830	550

R-7000 Series

It is an ultra-large field of view and high-resolution code reader with adaptive dynamic adjustment capability for barcodes in long distance and large field of view, which can easily solve the issues arising from producing various products on the same production line and logistics code reading.

- High-precision **decoding of small code**
- Adaptive **large depth of field**
- Ultra-high-speed **fast reading**

Product features

Algorithm

The built-in industry-leading AI code reading algorithm can accurately and efficiently read various barcodes and QR codes without fear of interference such as dirt and damage.

Light source

Multiple groups of controllable light sources are integrated to realize independent control of light source branches and meet the flexible production requirements.

Performance

Easy reading of ultra-small codes with high-precision mil software and hardware;
Excellent one-dimensional barcode/two-dimensional barcode reading performance;
Ultra-high speed, omnidirectional barcode capture and reading.

Installation and application

Plug-and-play quick installation and easy one-step setup.

Lens

Equipped with brand-new liquid lens in the industry, self-adaptive lens focusing and fool-proof program debugging.

Sensors

The fast-response image sensor ensures fine and excellent quality of each image and high-precision reading.

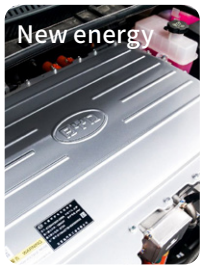
Interface / Protocol

Abundant built-in IO interfaces, compatible with RS232 interface, supporting TCP/IP, Serial, FTP, HTTP and other common communication protocols, making it easy to handle complex site conditions.

Ancillary value

It is not only an intelligent code reader, but also a good helper for business (including production statistics, piecework statistics...), with powerful functions beyond imagination.

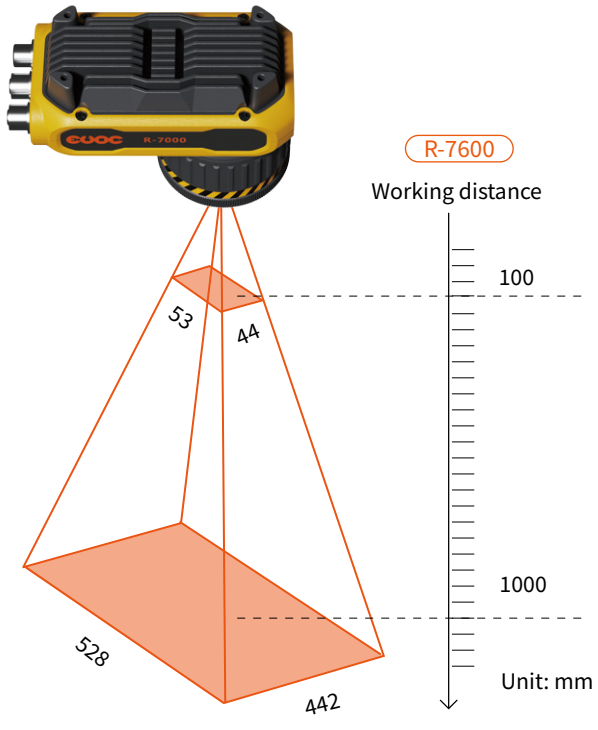
Field of application



Technical parameters

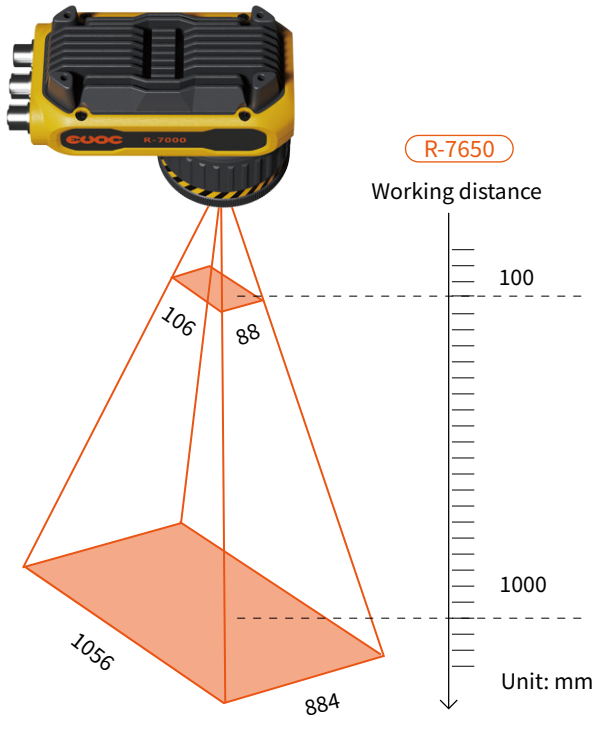
Model		R-7600	R-7650	R-7680	R-7800	R-7850	R-7880
Product performance	Sensors	CMOS image sensor					
	Pixels	2448*2048			4096*3072		
	Reading symbols	Barcode:Code128,Code39,Code93,EAN13,EAN8,UPC-A,UPC-E,CodeBar,ITF25					
		QR code:QR,MicroQR,DataMatrix（ECC200）,GS1 DataMatrix，PDF417					
Communication protocol	Ethernet	TCP/IP，FTP，HTTP，ModBus，PROFINET，EtherNet/IP					
	Serial communication	RS-232, communication speed: 9600, 19200, 38400, 57600, 115200bps					
Structure	Mode of focusing	Manual/auto					
	Polarizing filter	Supported					
	Dimension	143.9×70×107(mm)					
	Weight	About 710g					
Electrical specifications	Lighting source	High-brightness red LED / high-brightness white LED					
	Positioning indication	High-brightness green LED					
	State indication	Power indicator, network indicator, decoding status indicator, operation indicator, user-defined indicator, and decoding status prompt tone					
	Communication interface	Ethernet, serial port					
	Digital IO	I/O with isolation, 2-channel input and 2-channel output					
	Power supply/ power consumption	⩽ 20W@24VDC（±10%）					
Environmental resistance	Operating temperature	0~50°C					
	Storage temperature	-10~50°C					
	Ambient humidity	20%~80%RH (no condensation)					
	Protection grade	IP65					
Specification	Certification	CE certification and EU ROHS compliance					

Sight Distance Charts and Accuracy Appendices



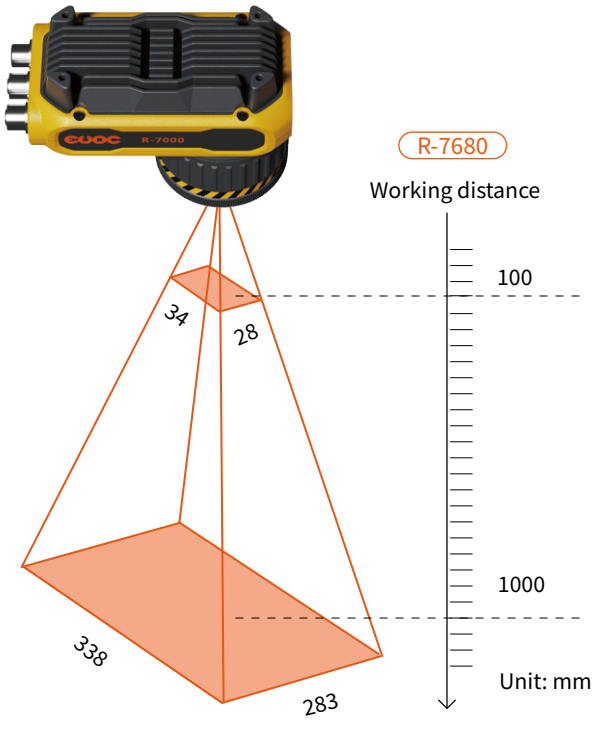
Unit: mm

R-7600				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.031	0.017	53	44
200	0.062	0.034	106	88
300	0.093	0.051	158	133
400	0.124	0.068	211	177
500	0.155	0.085	264	221
600	0.186	0.102	317	265
700	0.217	0.119	370	309
800	0.248	0.136	423	354
900	0.279	0.153	475	398
1000	0.310	0.170	528	442



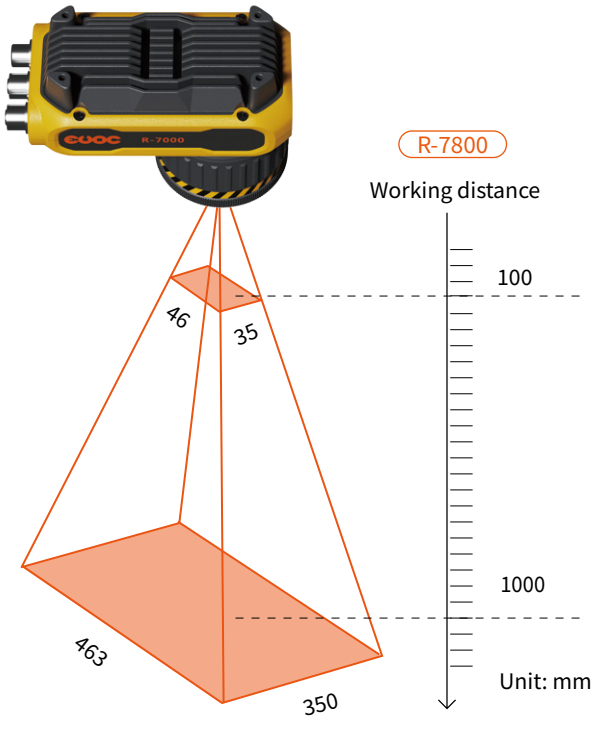
R-7650				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.064	0.034	106	88
200	0.128	0.068	211	177
300	0.192	0.102	317	265
400	0.256	0.136	423	354
500	0.320	0.170	528	442
600	0.384	0.204	634	530
700	0.448	0.238	739	619
800	0.512	0.272	845	707
900	0.576	0.306	951	795
1000	0.640	0.340	1056	884

Sight Distance Charts and Accuracy Appendices



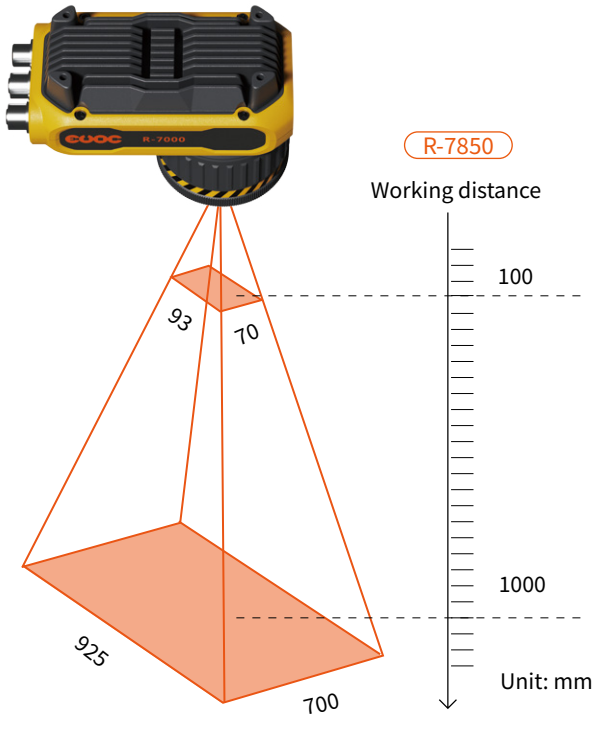
Unit: mm

R-7680				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.021	0.011	34	28
200	0.042	0.022	68	57
300	0.064	0.033	101	85
400	0.086	0.044	135	113
500	0.108	0.055	169	141
600	0.130	0.066	203	170
700	0.152	0.077	237	198
800	0.174	0.088	270	226
900	0.196	0.099	304	255
1000	0.218	0.110	338	283



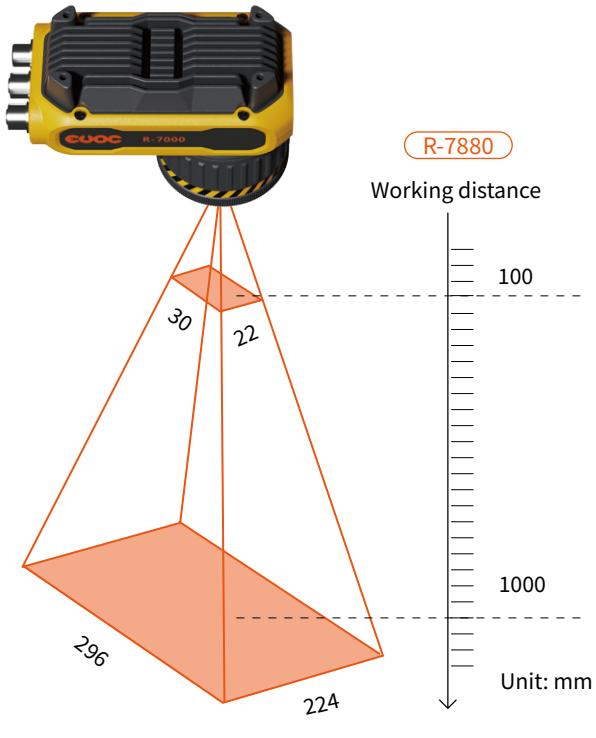
R-7800				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.017	0.009	46	35
200	0.034	0.018	93	70
300	0.051	0.036	139	105
400	0.068	0.054	185	140
500	0.085	0.072	231	175
600	0.102	0.090	278	210
700	0.119	0.108	324	245
800	0.136	0.126	370	280
900	0.153	0.144	416	315
1000	0.170	0.162	463	350

Sight Distance Charts and Accuracy Appendices



Unit: mm

R-7850				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.034	0.018	93	70
200	0.068	0.036	185	140
300	0.102	0.054	278	210
400	0.136	0.072	370	280
500	0.170	0.090	463	350
600	0.204	0.108	555	420
700	0.238	0.126	648	490
800	0.272	0.144	740	560
900	0.306	0.162	833	630
1000	0.340	0.180	925	700



R-7880				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.011	0.006	30	22
200	0.022	0.012	59	45
300	0.033	0.024	89	67
400	0.044	0.036	118	90
500	0.055	0.048	148	112
600	0.066	0.060	178	134
700	0.077	0.072	207	157
800	0.088	0.084	237	179
900	0.099	0.096	266	202
1000	0.110	0.108	296	224

R-6000 Series

It is an intelligent code reader with AI deep learning, miniaturization and high performance. With industry-leading ultra-high reading performance, it can be adapted to the reading of various forms of barcodes in different production environments. It is a brand-new intelligent code reader that can meet the needs of different stages such as code reading, data import, operation and maintenance.

High-efficiency reading

Higher universality

Wide reading **field of view**

Product features

Algorithm

The built-in industry-leading AI code reading algorithm can accurately and efficiently read various barcodes and QR codes without fear of interference such as dirt and damage.

Light source

Multiple groups of controllable light sources are integrated to realize independent control of light source branches and meet the flexible production requirements.

Performance

Easy reading of ultra-small codes with high-precision mil software and hardware;
Excellent one-dimensional barcode/two-dimensional barcode reading performance;
Ultra-high speed, omnidirectional barcode capture and reading.

Ancillary value

It is not only an intelligent code reader, but also a good helper for business (including production statistics, piecework statistics...), with powerful functions beyond imagination.

Lens

Equipped with automatic focusing lens and one-key automatic focusing, debugging is more convenient.

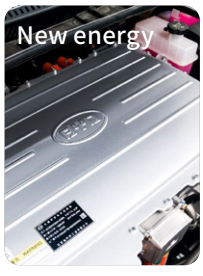
Sensors

The fast-response image sensor ensures fine and excellent quality of each image and high-precision reading.

Interface / Protocol

Abundant built-in IO interfaces, compatible with RS232 interface, supporting TCP/IP, Serial, FTP, HTTP and other common communication protocols, making it easy to handle complex site conditions.

Field of application

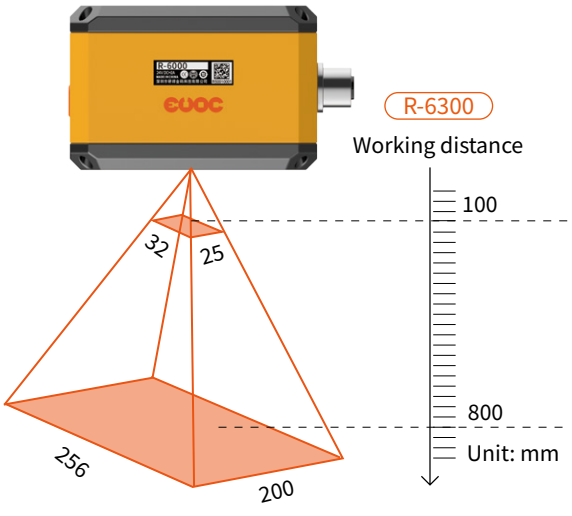


Technical parameters

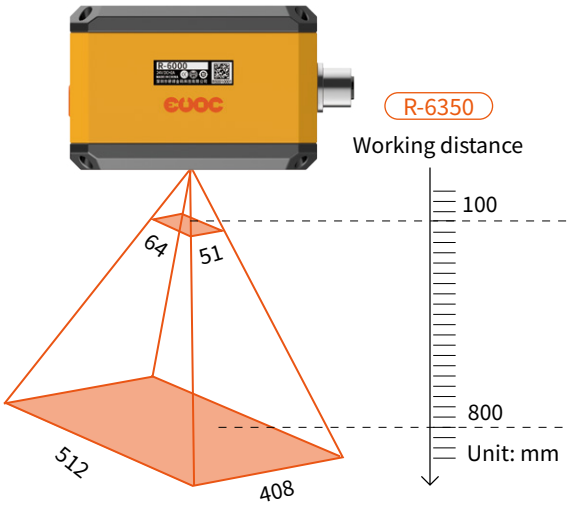
Model		R-6300	R-6350	R-6380	R-6500	R-6550	R-6580	R-6600	R-6650	R-6680
Product performance	Sensors	CMOS image sensor								
	Pixels	1280*1024			1920*1200			2448*2048		
	Reading symbols	Barcode:Code128,Code39,Code93,EAN13,EAN8,UPC-A,UPC-E,CodeBar,ITF25								
		QR code:QR,MicroQR,DataMatrix（ECC200）,GS1 DataMatrix，PDF417								
Communication protocol	Ethernet	TCP/IP，FTP，HTTP，ModBus，PROFINET，EtherNet/IP								
	Serial communication	RS-232, communication speed: 9600, 19200, 38400, 57600, 115200bps								
Structure	Mode of focusing	Auto								
	Polarizing filter	Supported								
	Dimension	83*59*55（mm）								
	Weight	About 378g								
Electrical specifications	Lighting source	High-brightness red LED / high-brightness white LED								
	Positioning indication	High-brightness green LED								
	State indication	Power indicator, network indicator, decoding status indicator and decoding status prompt tone								
	Button	Tuning button, trigger button								
	Communication interface	Ethernet, serial port								
	Digital IO	I/O with isolation, 2-channel input and 2-channel output								
	Power supply/ power consumption	⩽ 20W@24VDC（±10%）								
Environmental resistance	Operating temperature	0~50°C								
	Storage temperature	-10~50°C								
	Ambient humidity	20%~80%RH(no condensation)								
	Protection grade	IP65								
Specification	Certification	CE certification and EU ROHS compliance								

Sight Distance Charts and Accuracy Appendices

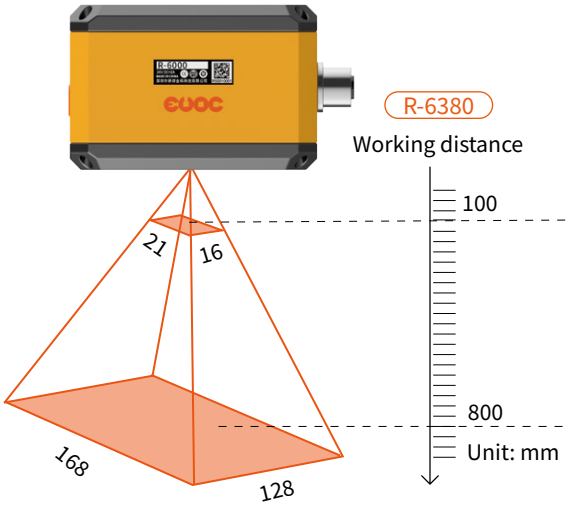
Unit: mm



R-6300				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.037	0.02	32	25
200	0.074	0.04	64	50
300	0.111	0.06	96	75
400	0.148	0.08	128	100
500	0.185	0.10	160	125
600	0.222	0.12	192	150
700	0.259	0.14	224	175
800	0.296	0.16	256	200



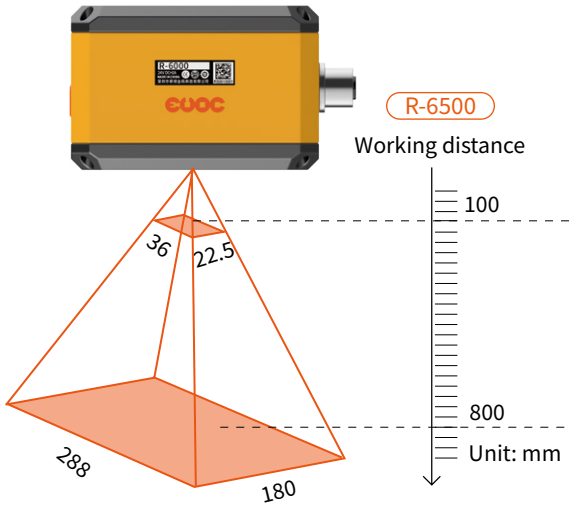
R-6350				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.075	0.04	64	51
200	0.15	0.08	128	102
300	0.045	0.12	192	153
400	0.105	0.16	256	204
500	0.165	0.20	320	255
600	0.225	0.24	384	306
700	0.285	0.28	448	357
800	0.345	0.32	512	408



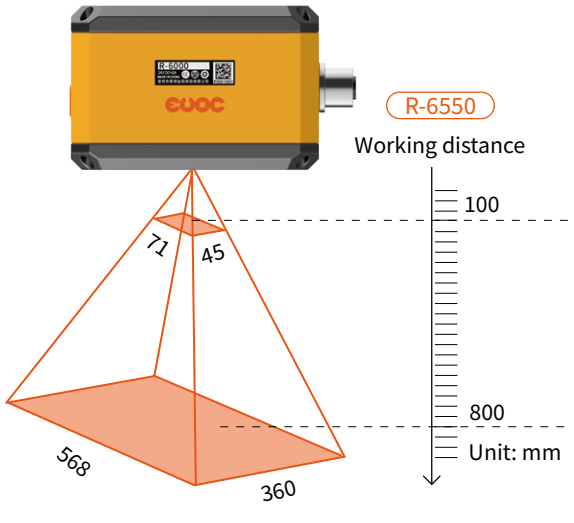
R-6380				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.024	0.013	21	16
200	0.048	0.026	42	32
300	0.072	0.039	63	48
400	0.096	0.052	84	64
500	0.120	0.065	105	80
600	0.144	0.078	126	96
700	0.168	0.091	147	112
800	0.192	0.104	168	128

Sight Distance Charts and Accuracy Appendices

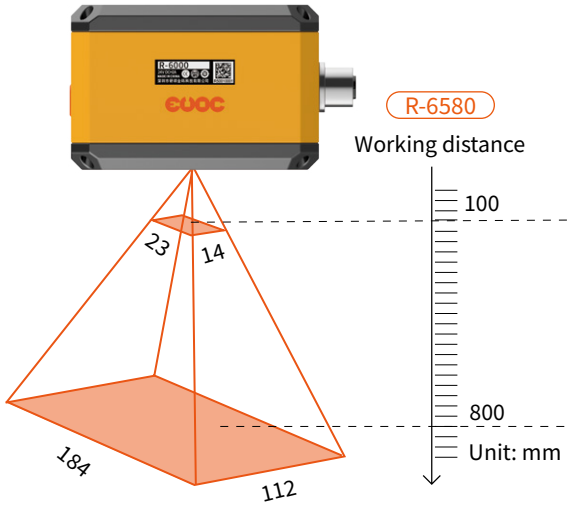
Unit: mm



R-6500				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.028	0.015	36	22.5
200	0.056	0.03	72	4.05
300	0.084	0.045	108	67.5
400	0.112	0.06	144	90.0
500	0.140	0.075	180	112.5
600	0.168	0.09	216	135.0
700	0.196	0.105	252	157.5
800	0.224	0.12	288	180.0



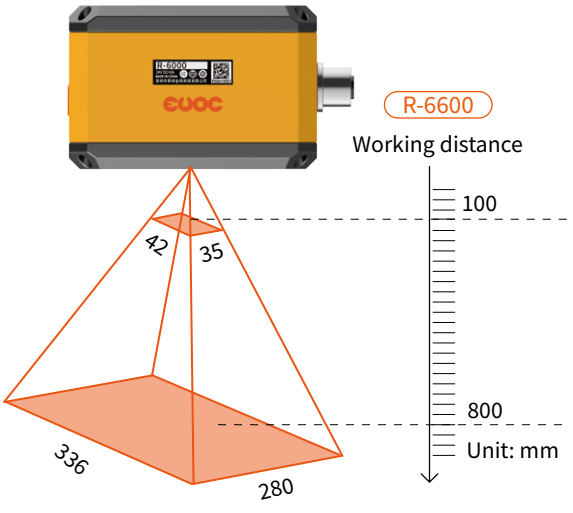
R-6550				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.055	0.029	71	45
200	0.11	0.058	142	90
300	0.166	0.087	213	135
400	0.22	0.116	284	180
500	0.277	0.145	355	225
600	0.33	0.174	426	270
700	0.385	0.203	497	315
800	0.44	0.232	568	360



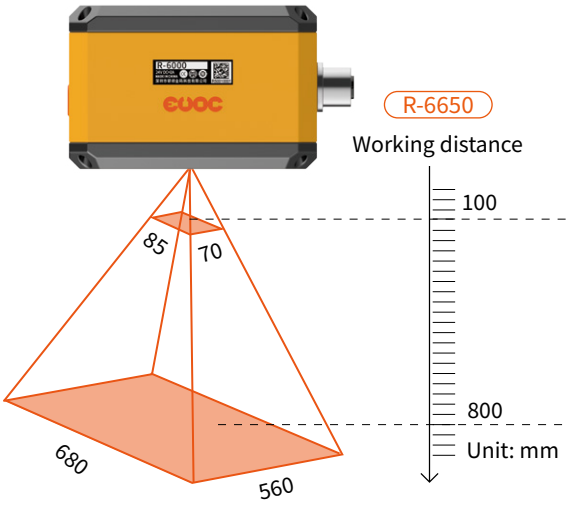
R-6580				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.018	0.009	23	14
200	0.036	0.018	46	28
300	0.054	0.027	65	42
400	0.072	0.036	92	56
500	0.090	0.045	115	70
600	0.108	0.054	138	84
700	0.126	0.063	161	98
800	0.144	0.072	184	112

Sight Distance Charts and Accuracy Appendices

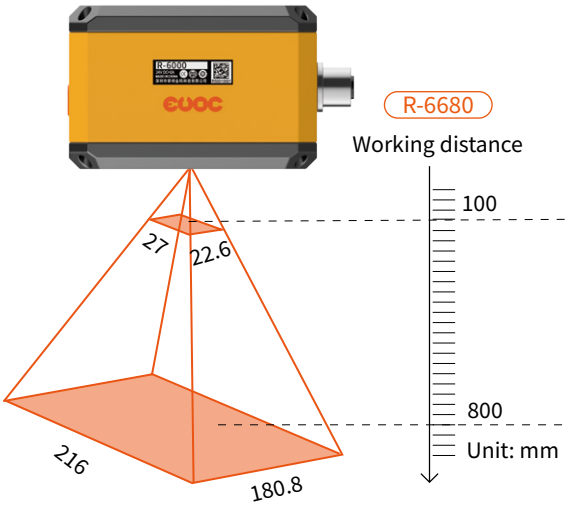
Unit: mm



R-6600				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.025	0.013	42	35
200	0.05	0.026	84	70
300	0.015	0.039	126	105
400	0.035	0.052	168	140
500	0.055	0.065	210	175
600	0.075	0.078	252	210
700	0.095	0.091	294	245
800	0.115	0.104	336	280



R-6650				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.052	0.027	85	70
200	0.104	0.054	170	140
300	0.156	0.081	255	210
400	0.208	0.108	340	280
500	0.260	0.135	425	350
600	0.312	0.162	510	420
700	0.364	0.189	595	490
800	0.416	0.216	680	560



R-6680				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.016	0.008	27	22.6
200	0.032	0.016	54	45.2
300	0.048	0.024	81	67.8
400	0.064	0.032	108	90.4
500	0.080	0.040	135	113
600	0.096	0.048	162	135.6
700	0.112	0.056	189	158.2
800	0.128	0.064	216	180.8

R-6000H Series

With a built-in high-performance processor and deep learning AI decoding algorithm, it can reliably read all kinds of barcodes and QR codes even when the barcode is damaged, blurred, with low contrast and poor printing quality. Equipped with a mechanical lens, it supports one-key automatic focusing and is easy to debug.

- **Higher code reading rate**
- **More accurate decoding rate**
- **Higher universality**

Product features

Algorithm

The built-in industry-leading AI code reading algorithm can accurately and efficiently read various barcodes and QR codes without fear of interference such as dirt and damage.

Light source

Multiple groups of controllable light sources are integrated to realize independent control of light source branches and meet the flexible production requirements.

Performance

High-precision reading performance and high-quality image recognition.

Ancillary value

It is not only an intelligent code reader, but also a good helper for business (including production statistics, piecework statistics...), with powerful functions beyond imagination.

Lens

Equipped with automatic focusing lens and one-key automatic focusing, debugging is more convenient.

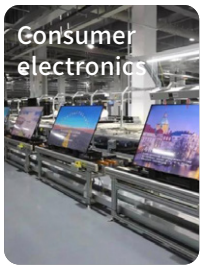
Sensors

The fast-response image sensor ensures fine and excellent quality of each image and high-precision reading.

Interface / Protocol

Abundant built-in IO interfaces, compatible with RS232 interface, supporting TCP/IP, Serial, FTP, HTTP and other common communication protocols, making it easy to handle complex site conditions.

Field of application

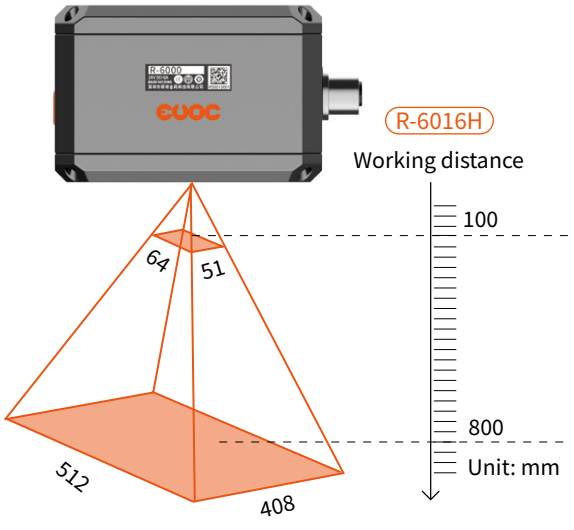


Technical parameters

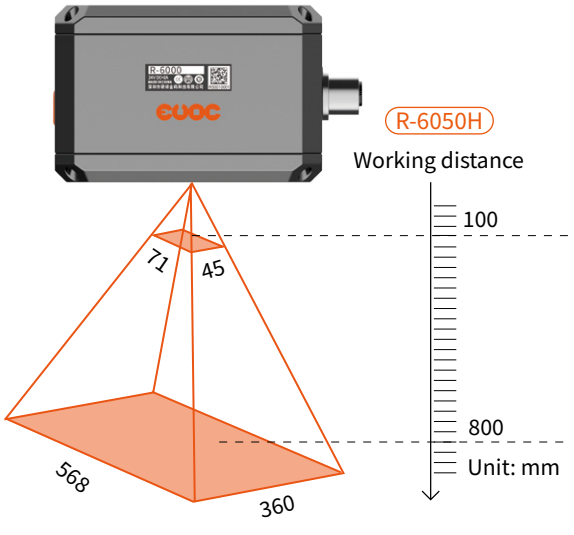
Model		R-6016H	R-6050H	R-6060H
Product performance	Sensors	CMOS image sensor		
	Pixels	1280*1024	1920*1200	2448*2048
	Reading symbols	Barcode:Code128,Code39,Code93,EAN13,EAN8,UPC-A,UPC-E,CodeBar,ITF25		
		QR code:QR,DataMatrix（ECC200）,GS1 DataMatrix，PDF417		
Communication protocol	Ethernet	TCP/IP，FTP，HTTP，ModBus		
	Serial communication	RS-232, communication speed: 9600, 19200, 38400, 57600, 115200bps		
Structure	Mode of focusing	Auto		
	Polarizing filter	Supported		
	Dimension	83*59*55（mm）		
	Weight	About 378g		
Electrical specifications	Lighting source	High-brightness red LED / high-brightness white LED		
	Positioning indication	High-brightness green LED		
	State indication	Power indicator, network indicator, decoding status indicator and decoding status prompt tone		
	Button	Tuning button, trigger button		
	Communication interface	Ethernet, serial port		
	Digital IO	I/O with isolation, 2-channel input and 2-channel output		
	Power supply/ power consumption	⩽ 20W@24VDC（±10%）		
Environmental resistance	Operating temperature	0~45°C		
	Storage temperature	-10~50°C		
	Ambient humidity	20%~80%RH (no condensation)		
Specification	Certification	CE certification and EU ROHS compliance		

Sight Distance Charts and Accuracy Appendices

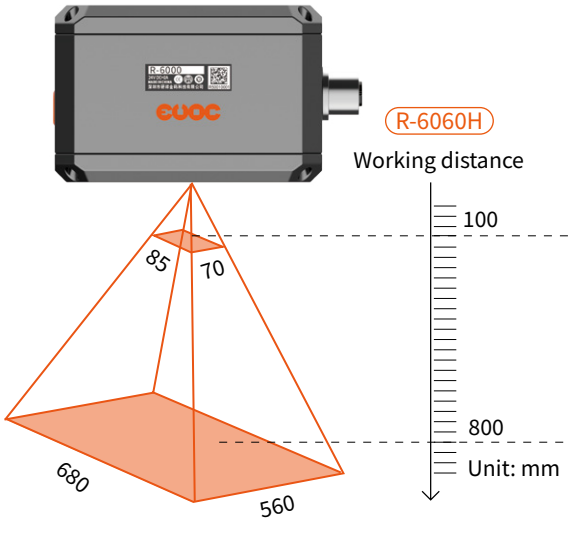
Unit: mm



R-6016H				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.075	0.04	64	51
200	0.15	0.08	128	102
300	0.045	0.12	192	153
400	0.105	0.16	256	204
500	0.165	0.20	320	255
600	0.225	0.24	384	306
700	0.285	0.28	448	357
800	0.345	0.32	512	408



R-6050H				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.055	0.029	71	45
200	0.11	0.058	142	90
300	0.166	0.087	213	135
400	0.22	0.116	284	180
500	0.277	0.145	355	225
600	0.33	0.174	426	270
700	0.385	0.203	497	315
800	0.44	0.232	568	360



R-6060H				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.052	0.027	85	70
200	0.104	0.054	170	140
300	0.156	0.081	255	210
400	0.208	0.108	340	280
500	0.260	0.135	425	350
600	0.312	0.162	510	420
700	0.364	0.189	595	490
800	0.416	0.216	680	560

R-5000 Series

With a built-in high-performance processor and deep learning AI decoding algorithm, it can reliably read all kinds of barcodes and QR codes even when the barcode is damaged, blurred, with low contrast and poor printing quality. The auto-focusing technology of human eye bionic liquid lens is used to support one-key automatic focusing, which can adapt to the change of working distance and achieve greater depth of field.

- Liquid lens can be **used in many scenarios**
- AI decoding algorithm with **accurate recognition accuracy**
- **Strong growth** in OTA online upgrade

Product features

Algorithm

The built-in industry-leading AI code reading algorithm can accurately and efficiently read various barcodes and QR codes without fear of interference such as dirt and damage.

Light source

Multiple groups of controllable light sources are integrated to realize independent control of light source branches and meet the flexible production requirements.

Performance

High-precision reading performance and high-quality image recognition.

Ancillary value

It is not only an intelligent code reader, but also a good helper for business (including production statistics, piecework statistics...), with powerful functions beyond imagination.

Lens

Equipped with brand-new liquid lens in the industry, self-adaptive lens focusing and fool-proof program debugging.

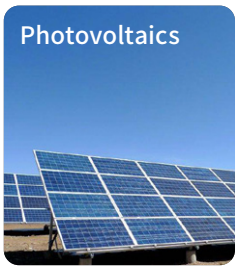
Sensors

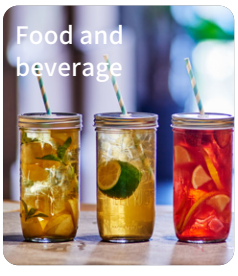
The fast-response image sensor ensures fine and excellent quality of each image and high-precision reading.

Interface / Protocol

Abundant built-in IO interfaces, compatible with RS232 interface, supporting TCP/IP, Serial, FTP, HTTP and other common communication protocols, making it easy to handle complex site conditions.

Field of application

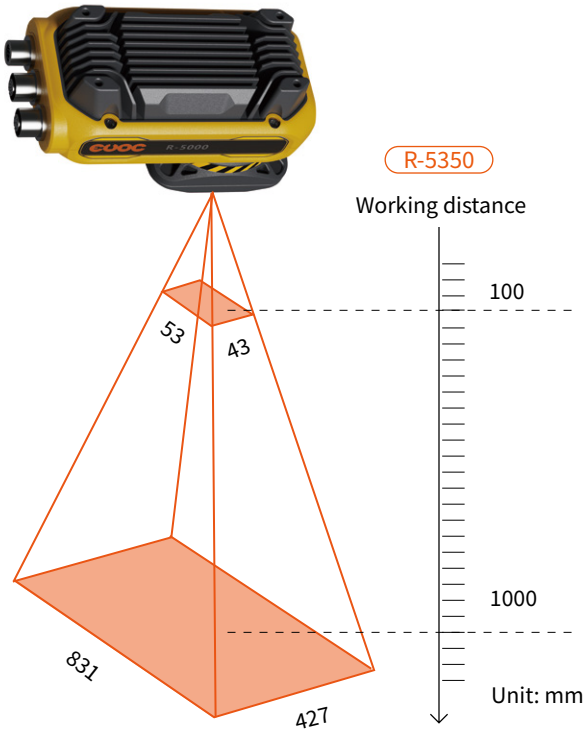




Technical parameters

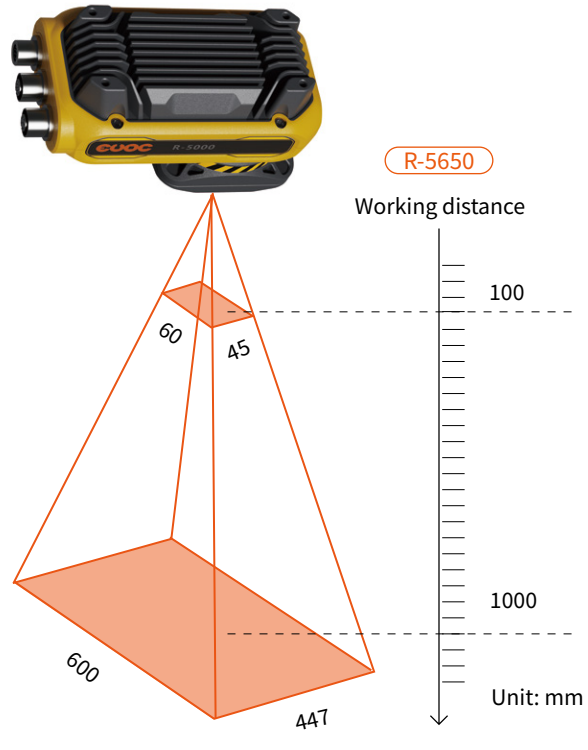
Model		R-5350	R-5650
Product performance	Sensors	CMOS image sensor	
	Pixels	1280*1024	2592*1944
	Reading symbols	Barcode:Code128,Code39,Code93,EAN13,EAN8,UPC-A,UPC-E,CodeBar,ITF25	
		QR code:QR,MicroQR,DataMatrix（ECC200）,GS1 DataMatrix，PDF417	
Communication protocol	Ethernet	TCP/IP，FTP，HTTP，ModBus，PROFINET，EtherNet/IP	
	Serial communication	RS-232, communication speed: 9600, 19200, 38400, 57600, 115200bps	
Structure	Mode of focusing	Auto	
	Polarizing filter	Supported	
	Dimension	130*70*68(mm)	
	Weight	About 660g	
Electrical specifications	Lighting source	High-brightness red LED / high-brightness white LED	
	Positioning indication	High-brightness green LED	
	State indication	Power indicator, network indicator, decoding status indicator, operation indicator, user-defined indicator, and decoding status prompt tone	
	Communication interface	Ethernet, serial port	
	Digital IO	I/O with isolation, 2-channel input and 2-channel output	
	Power supply/ power consumption	⩽ 20W@24VDC（±10%）	
Environmental resistance	Operating temperature	0~50°C	
	Storage temperature	-10~50°C	
	Ambient humidity	20%~80%RH (no condensation)	
	Protection grade	IP65	
Specification	Certification	CE certification and EU ROHS compliance	

Sight Distance Charts and Accuracy Appendices



Unit: mm

R-5350				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.062	0.033	53	43
200	0.124	0.066	106	85
300	0.186	0.099	159	128
400	0.248	0.132	213	171
500	0.310	0.165	266	214
600	0.372	0.198	319	256
700	0.434	0.231	372	299
800	0.496	0.264	425	342
900	0.558	0.297	478	384
1000	0.620	0.330	831	427



R-5650				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
100	0.034	0.018	60	45
200	0.068	0.036	120	89
300	0.102	0.054	180	134
400	0.136	0.072	240	179
500	0.170	0.090	300	223
600	0.204	0.108	360	268
700	0.238	0.126	420	313
800	0.272	0.144	480	258
900	0.306	0.162	540	402
1000	0.340	0.180	600	447

R-3000 Series

With compact structure and simple deployment, it integrates megapixel sensor and high-performance processing chip. It has super computing power and can stably read barcodes moving at a high speed.

- Compact size and **high cost performance**
- Plug-and-play **quick installation**
- Compact structure for **easy integration**

Product features

Light source

Multiple groups of controllable light sources are integrated to realize independent control of light source branches and meet the flexible production requirements.

Performance

Fast, omnidirectional barcode capture and reading.

Installation and application

Plug-and-play quick installation and easy one-step setup.

Sensors

Multi-core parallel processing improves the overall reading speed.

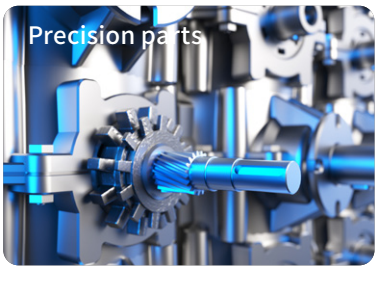
Interface / Protocol

Abundant built-in IO interfaces to support complex field requirements.

Ancillary value

It is not only an intelligent code reader, but also a good helper for business (including production statistics, piecework statistics...), with powerful functions beyond imagination.

Field of application



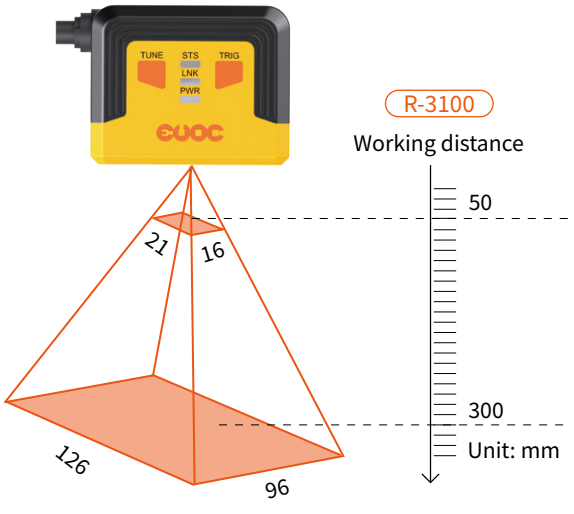
Technical parameters

Model		R-3100	R-3150	R-3180	R-3300	R-3350	R-3380
Product performance	Sensors	CMOS image sensor					
	Pixels	728*544			1280*1024		
	Reading symbols	Barcode:Code128,Code39,Code93,EAN13,EAN8,UPC-A,UPC-E,CodeBar,ITF25					
		QR code:QR,MicroQR,DataMatrix（ECC200）,GS1 DataMatrix，PDF417					
Communication protocol	Ethernet	TCP/IP，FTP，HTTP，ModBus，PROFINET，EtherNet/IP					
	Serial communication	RS-232, communication speed: 9600, 19200, 38400, 57600, 115200bps					
Structure	Mode of focusing	Manual					
	Polarizing filter	Supported					
	Dimension	50.5*40*32.6（mm）					
	Weight	About 120g					
Electrical specifications	Lighting source	High-brightness red LED / high-brightness white LED					
	Positioning indication	High-brightness green LED					
	State indication	Power indicator, network indicator, decoding status indicator and decoding status prompt tone					
	Button	Trigger button					
	Communication interface	Ethernet, serial port					
	Digital IO	I/O with isolation, 2-channel input and 2-channel output					
	Power supply/ power consumption	⩽ 10W@24VDC（±10%）					
Environmental resistance	Operating temperature	0~50°C					
	Storage temperature	-10~50°C					
	Ambient humidity	20%~80%RH(no condensation)					
	Protection grade	IP65					
Specification	Certification	CE certification and EU ROHS compliance					

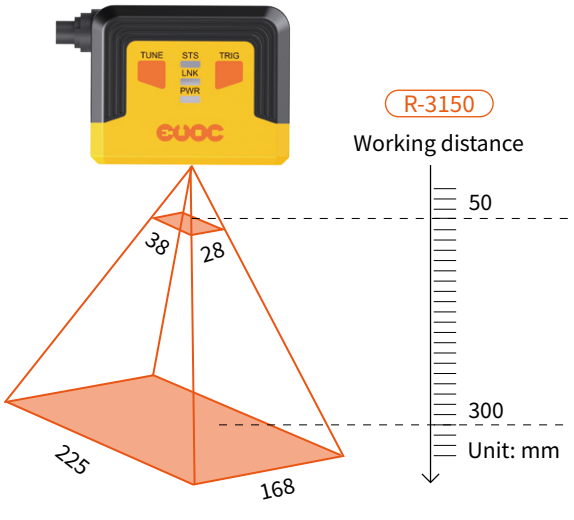
Model		R-3005H	R-3013H	R-3050H
Product performance	Sensors	CMOS image sensor		
	Pixels	728*554	1280*1024	1920*1200
	Reading symbols	Barcode:Code128,Code39,Code93,EAN13,EAN8,UPC-A,UPC-E,CodeBar,ITF25		
		QR code:QR,DataMatrix（ECC200）,GS1 DataMatrix，PDF417		
Communication protocol	Ethernet	TCP/IP，FTP，HTTP，ModBus		
	Serial communication	RS-232, communication speed: 9600, 19200, 38400, 57600, 115200bps		
Structure	Mode of focusing	Manual		
	Dimension	50.5*40*32.6（mm）		
	Weight	About 120g		
Electrical specifications	Lighting source	High-brightness red LED / high-brightness white LED		
	Positioning indication	High-brightness green LED		
	State indication	Power indicator, network indicator, decoding status indicator and decoding status prompt tone		
	Button	Trigger button		
	Communication interface	Ethernet, serial port		
	Digital IO	I/O with isolation, 2-channel input and 2-channel output		
	Power supply/ power consumption	⩽ 10W@24VDC（±10%）		
Environmental resistance	Operating temperature	0~45°C		
	Storage temperature	-10~50°C		
	Ambient humidity	20%~80%RH(no condensation)		
Specification	Certification	CE certification and EU ROHS compliance		

Sight Distance Charts and Accuracy Appendices

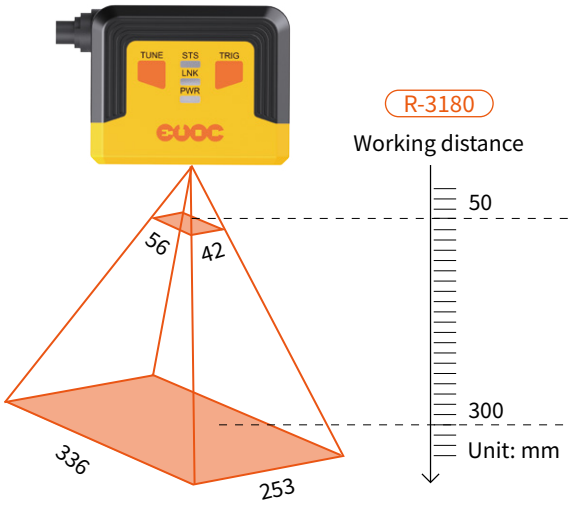
Unit: mm



R-3100				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
50	0.043	0.023	21	16
100	0.086	0.046	42	32
150	0.129	0.069	63	48
200	0.172	0.092	84	64
250	0.215	0.115	105	80
300	0.258	0.138	126	96



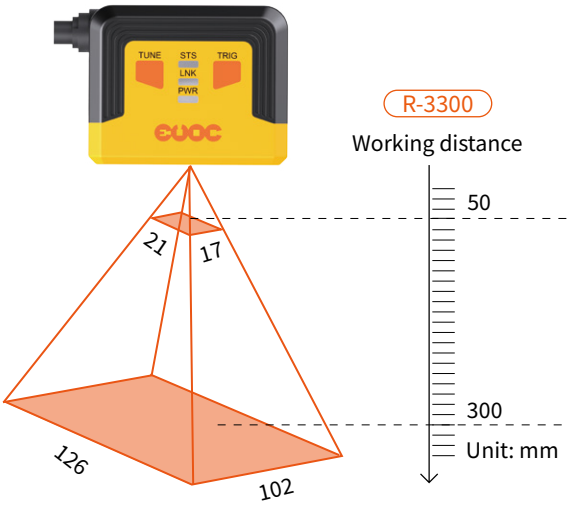
R-3150				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
50	0.078	0.041	38	28
100	0.156	0.082	75	56
150	0.234	0.123	113	84
200	0.312	0.164	150	112
250	0.390	0.205	188	140
300	0.468	0.246	225	168



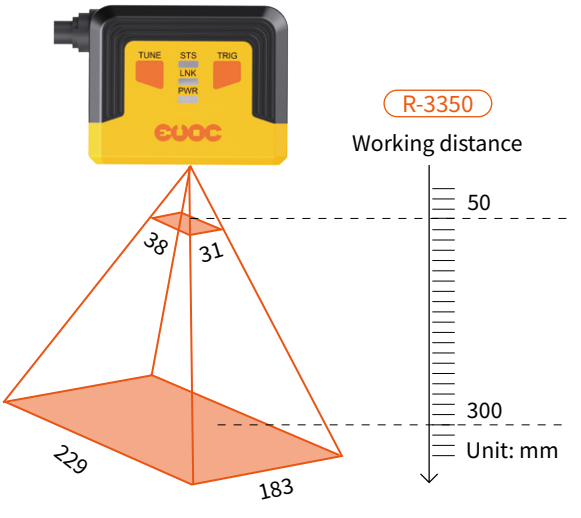
R-3180				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
50	0.115	0.061	56	42
100	0.230	0.122	112	84
150	0.345	0.183	168	126
200	0.460	0.244	224	169
250	0.575	0.305	280	211
300	0.690	0.366	336	253

Sight Distance Charts and Accuracy Appendices

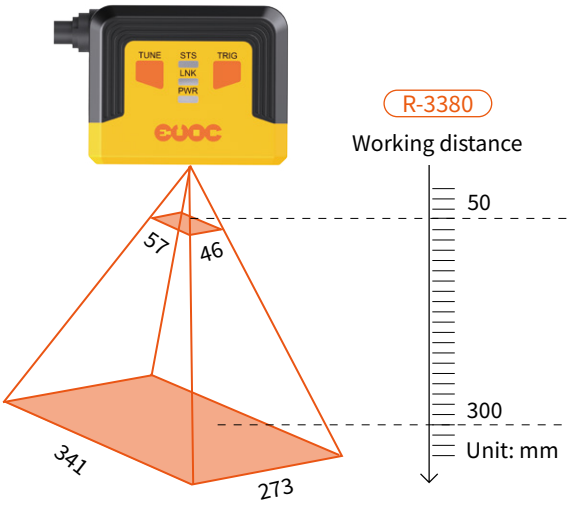
Unit: mm



R-3300				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
50	0.024	0.013	21	17
100	0.048	0.026	42	34
150	0.072	0.039	63	51
200	0.096	0.052	84	68
250	0.120	0.065	105	85
300	0.144	0.078	126	102



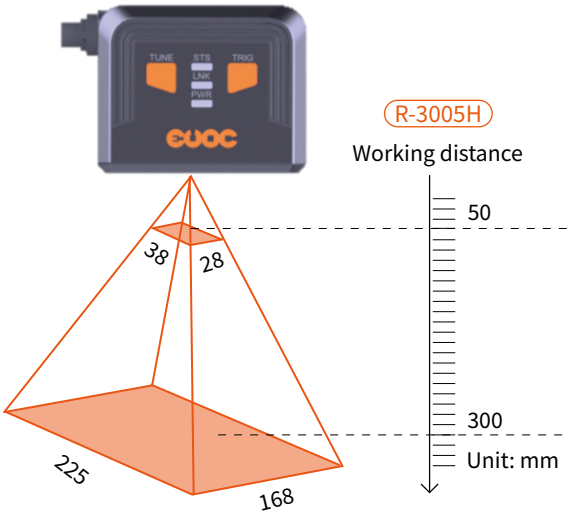
R-3350				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
50	0.044	0.023	38	31
100	0.088	0.046	76	61
150	0.132	0.069	115	92
200	0.176	0.092	153	122
250	0.220	0.115	191	153
300	0.264	0.138	229	183



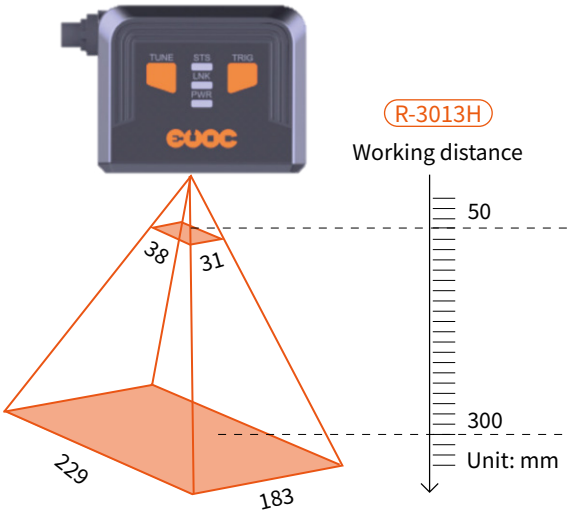
R-3380				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
50	0.066	0.035	57	46
100	0.132	0.070	114	91
150	0.198	0.105	170	137
200	0.264	0.140	227	182
250	0.330	0.175	284	228
300	0.396	0.210	341	273

Sight Distance Charts and Accuracy Appendices

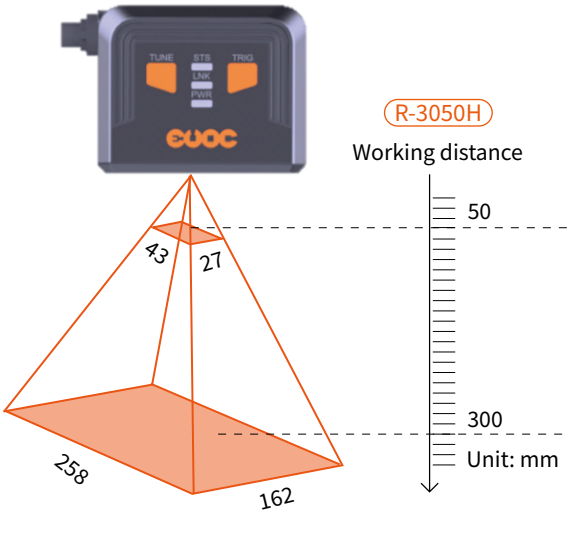
Unit: mm



R-3005H				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
50	0.078	0.041	38	28
100	0.156	0.082	75	56
150	0.234	0.123	113	84
200	0.312	0.164	150	112
250	0.390	0.205	188	140
300	0.468	0.246	225	168



R-3013H				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
50	0.044	0.023	38	31
100	0.088	0.046	76	61
150	0.132	0.069	115	92
200	0.176	0.092	153	122
250	0.220	0.115	191	153
300	0.264	0.138	229	183



R-3050H				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
50	0.033	0.018	43	27
100	0.066	0.036	86	54
150	0.099	0.054	129	81
200	0.132	0.072	172	108
250	0.165	0.090	215	135
300	0.198	0.108	258	162

R-2000 Series

With compact body, simple deployment, and a new read engine and high-performance processing chip, it achieves excellent reading stability with super computing power for high reading performance.

- Compact size and **high cost performance**
- Plug-and-play **quick installation**
- Compact structure for **easy integration**

Product features

Light source

Multiple groups of controllable light sources are integrated to realize independent control of light source branches and meet the flexible production requirements.

Performance

Fast, omnidirectional barcode capture and reading.

Installation and application

Plug-and-play quick installation and easy one-step setup.

Sensors

Multi-core parallel processing improves the overall reading speed.

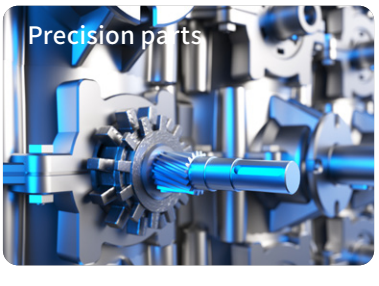
Interface / Protocol

Abundant built-in IO interfaces to support complex field requirements.

Ancillary value

It is not only an intelligent code reader, but also a good helper for business (including production statistics, piecework statistics...), with powerful functions beyond imagination.

Field of application

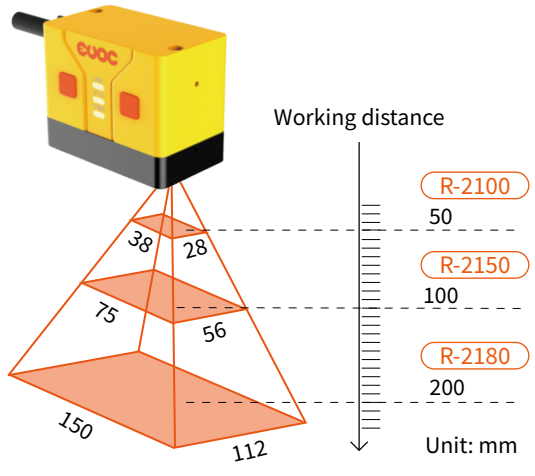


Technical parameters

Model		R-2100	R-2150	R-2180	R-2300	R-2350	R-2380
Product performance	Sensors	CMOS image sensor					
	Pixels	728*544			1280*1024		
	Reading symbols	Barcode:Code128,Code39,Code93,EAN13,EAN8,UPC-A,UPC-E,CodeBar,ITF25					
		QR code:QR,MicroQR,DataMatrix（ECC200）,GS1 DataMatrix，PDF417					
Communication protocol	Ethernet	TCP/IP，FTP，HTTP，ModBus，PROFINET，EtherNet/IP					
	Serial communication	RS-232，communication speed: 9600，19200，38400，57600，115200bps					
Structure	Mode of focusing	Fixed focal length					
	Dimension	50*40*30（mm）					
	Weight	About 118g					
Electrical specifications	Lighting source	LED					
	Positioning indication	High-brightness green LED					
	State indication	Power indicator, network indicator, decoding status indicator and decoding status prompt tone					
	Button	Trigger button					
	Communication interface	Ethernet, serial port					
	Digital IO	I/O with isolation, 2-channel input and 2-channel output					
	Power supply/ power consumption	⩽ 10W@24VDC（±10%）					
Environmental resistance	Operating temperature	0~50°C					
	Storage temperature	-10~50°C					
	Ambient humidity	20%~80%RH(no condensation)					
	Protection grade	IP64					
Specification	Certification	CE certification and EU ROHS compliance					

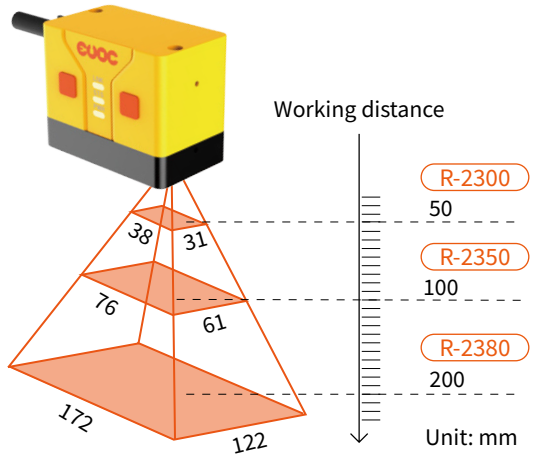
Model		R-2005H	R-2013H
Product performance	Sensors	CMOS image sensor	
	Pixels	728*544	1280*1024
	Reading symbols	Barcode:Code128,Code39,Code93,EAN13,EAN8,UPC-A,UPC-E,CodeBar,ITF25	
		QR code:QR,DataMatrix（ECC200）,GS1 DataMatrix，PDF417	
Communication protocol	Ethernet	TCP/IP，FTP，HTTP，ModBus	
	Serial communication	RS-232，communication speed: 9600，19200，38400，57600，115200bps	
Structure	Mode of focusing	Fixed focal length	
	Dimension	50*40*30（mm）	
	Weight	About 118g	
Electrical specifications	Lighting source	LED	
	Positioning indication	High-brightness green LED	
	State indication	Power indicator, network indicator, decoding status indicator and decoding status prompt tone	
	Button	Trigger button	
	Communication interface	Ethernet, serial port	
	Digital IO	I/O with isolation, 2-channel input and 2-channel output	
	Power supply/ power consumption	⩽ 10W@24VDC（±10%）	
Environmental resistance	Operating temperature	0~45°C	
	Storage temperature	-10~50°C	
	Ambient humidity	20%~80%RH(no condensation)	
Specification	Certification	CE certification and EU ROHS compliance	

Sight Distance Charts and Accuracy Appendices

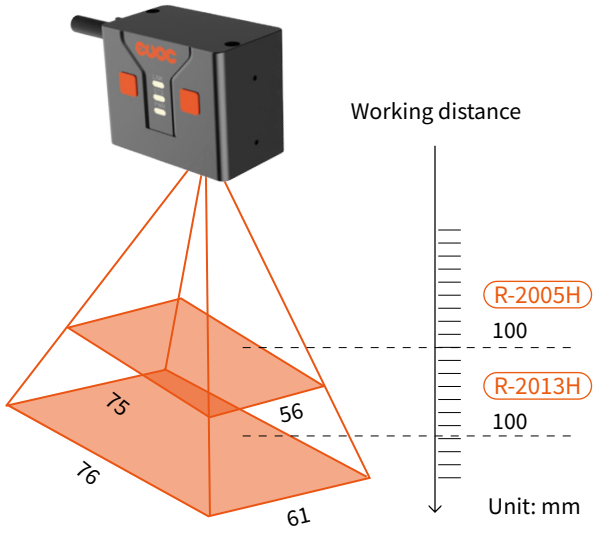


Unit: mm

Model	Distance	Minimum resolution		Field of view	
		QR code	One-dimensional code	Length	Width
R-2100	50	0.078	0.04	38	28
R-2150	100	0.154	0.08	75	56
R-2180	200	0.31	0.16	150	112



Model	Distance	Minimum resolution		Field of view	
		QR code	One-dimensional code	Length	Width
R-2300	50	0.044	0.023	38	31
R-2350	100	0.089	0.0475	76	61
R-2380	200	0.178	0.095	152	122



Model	Distance	Minimum resolution		Field of view	
		QR code	One-dimensional code	Length	Width
R-2005H	100	0.154	0.082	75	56
R-2013H	100	0.089	0.0475	76	61

R-1000 Series

The EVOC Regem Marr's R-1000 series smart code reader has a built-in deep learning decoding algorithm, which can effectively read barcodes and QR codes in low-speed and static scenes. It is compact in structure and small in appearance, suitable for manual and semi-automatic station installation and application.

- Durable, reliable and **cost-effective**
- Compact and **easy to use**
- Convenient debugging and **collaboration friendly**

Product features

Light source

Multiple groups of controllable light sources are integrated to realize independent control of light source branches and adapt to scene changes.

Performance

Fast, omnidirectional barcode capture and reading.

Installation and application

Plug-and-play quick installation and easy one-step setup.

Positioning indicator light

The barcode can be quickly placed in the designated position during debugging.

Status indicator light

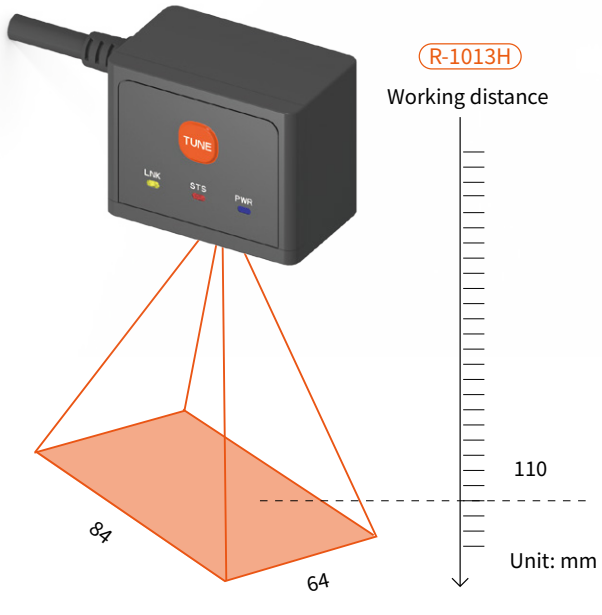
The status of the product's power supply, network and decoding can be quickly understood according to the status of the indicator light.

Field of application

Technical parameters

Model		R-1013H
Product performance	Sensors	CMOS image sensor
	Pixels	1280*1024
	Reading symbols	Barcode:Code128.Code39. Code93,EAN13.EAN8. UPC-A, UPC-E. CodeBar. ITF25
		QR code:QR,MicroQR, DataMatrix(ECC200)
Communication protocol	Ethernet	TCP/IP, FTP, HTTP, MOdBuS
	Serial communication	RS-232，communication speed:9600，19200，38400，57600，115200bps
Structure	Mode of focusing	Fixed focal length
	Dimension	50*40*30(mm)
	Weight	About 100g
Electrical specifications	Lighting source	Red LED
	Positioning indication	High-brightness green LED
	State indication	Power indicator, network indicator, decoding status indicator and decoding status prompt tone
	Button	Trigger button
	Communication interface	Ethernet, serial port
	Digital IO	I/O with isolation, 1-channel input and 1-channel output
	Power supply/ power consumption	<5W@24VDC(±10%)
Environmental resistance	Operating temperature	0~40° C
	Storage temperature	-10~50° C
	Ambient humidity	20%~80%RH(no condensation)
Specification	Certification	CE certification and EU ROHS compliance

Sight Distance Charts and Accuracy Appendices



Unit: mm

R-1013H				
Distance	Minimum resolution		Field of view	
	QR code	One-dimensional code	Length	Width
110	0.096	0.0525	84	64

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EVOC Regem Marr 研祥金码

读码专家+屏检专家=研祥金码

EVOC Regem Marr - Code Reading Expert

Efficient Code Reading in One Step

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