



Field of view
Depth of field
Speed

One reader for any code, anywhere, any speed

Breaking the stigma of code readers

Just install and go!

Obtain a wider field of view and greater depth of field at a longer range. Work as fast as the targets can move. No experience is required to master the SR-2000 Series. Just install the reader for vastly improved reading range and achieve even better reading stability.



NEW 1D/2D Code Reader

SR-2000 Series

Ultra-wide field of view 2× greater than conventional mod

- No need to check code positions
- Read multiple codes all at once

 \rightarrow P. 4

Greater depth of field at longer ranges 2× greater than conventional models

- No code position controllers or tooling changes required
- Read minute codes at long distances

 \rightarrow P. 6

Read objects on the move

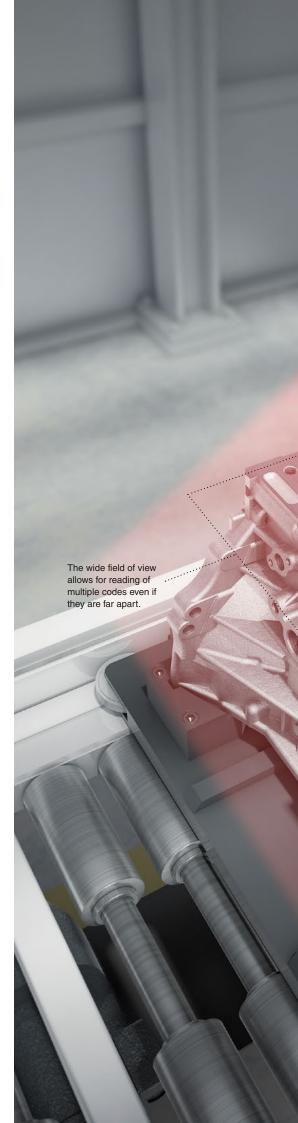
- Read codes without having to stop the target
- Read codes on rotating targets without trouble

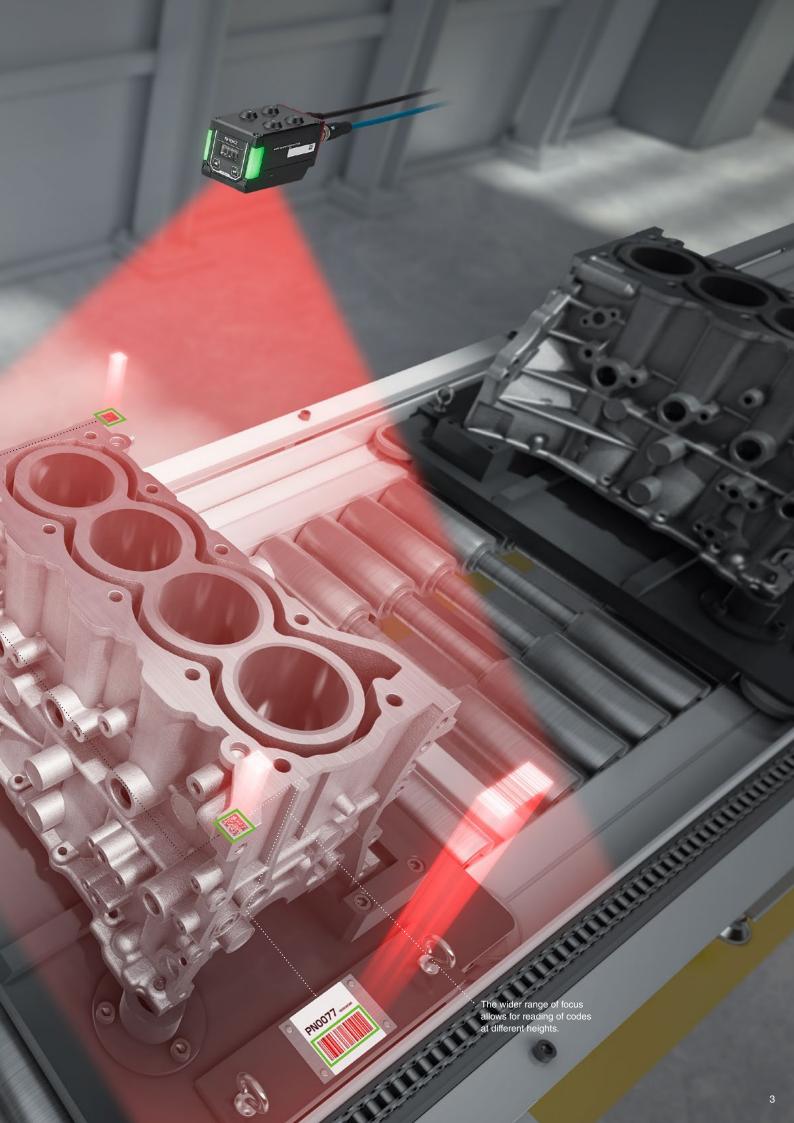
 \rightarrow P. 8

Fully automatic calibration

• No expert imaging knowledge required, and no need to select additional external equipment (lenses, lighting, etc.)

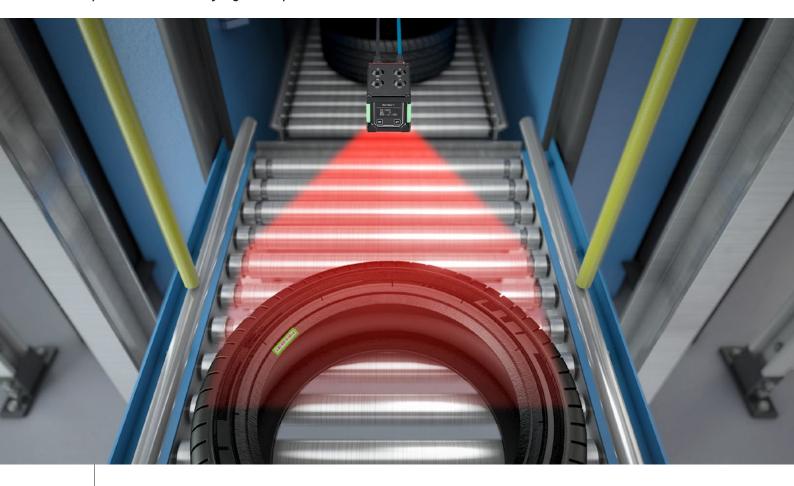
→ P. 10





Ultra-wide field of view

At least twice as wide a field of view compared to conventional models for easy reading of multiple codes and varying code positions.



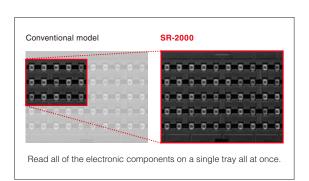
Read codes on different-sized tyres

When it comes to codes on tyre rims, the position varies according to the tyre size. The SR-2000 Series—equipped with a class-leading 3.1 megapixel high-sensitivity CMOS sensor—is easily able to handle varying code positions, from tyres for smaller vehicles to truck tyres.

Best-in-class 3.1 megapixel CMOS

Ultra-wide field of view through high-resolution imaging

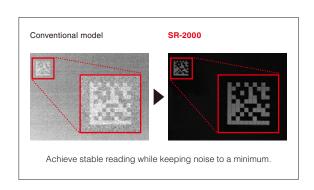
With 3.1 million pixels—the best in its class—the sensor provides a field of view more than two times that of conventional sensors. For example, the number of electronic components marked with 0.19 mm 2D codes that can fit in the field of view increases from 15 to 50.

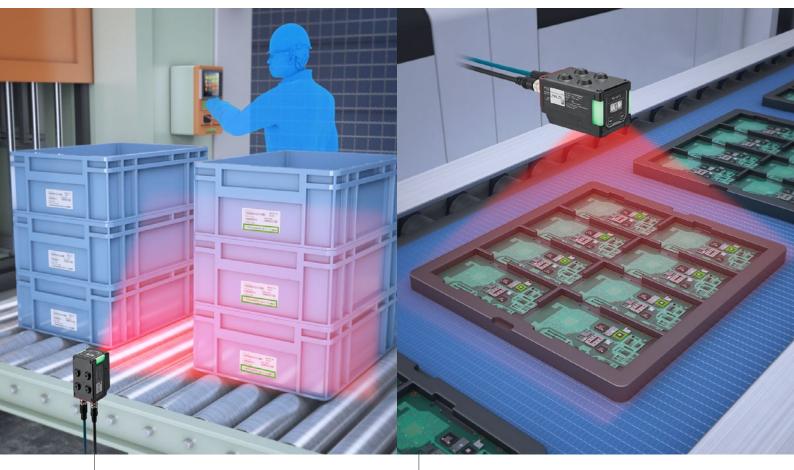


Low-noise, high-sensitivity CMOS sensor

Obtain bright images with low noise over an even wider field of view

The 1.6x increase in sensitivity over conventional models means noise can be successfully reduced considerably. For example, images can be obtained even when an extremely short exposure time of just 100 μs is required.





Read 3 stacked boxes without trouble

The high-sensitivity CMOS sensor helps reduce noise, allowing for reliable reading over a wide area.

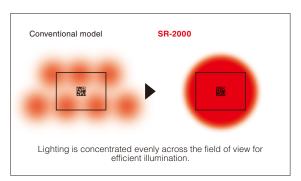
Read multiple electronic boards at once

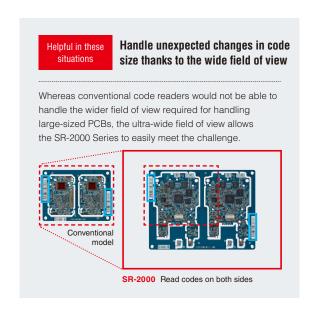
With uniform illumination throughout the field of view, even challenging codes printed with low contrast can be reliably read.

CPC (Compound Parabolic Concentrator) Illumination

Reflector reduces loss in light intensity for uniform and bright lighting

The lighting includes a reflector that is able to reduce loss in light intensity. Gold plating is used to dramatically increase reflectance. In addition, 14 LEDs are used to illuminate the field of view. This results in bright and even illumination even over a wide field of view and at long ranges.





Greater depth of field at longer ranges

With at least twice the reading distance of conventional models, there's no need for controlling code position or tooling changes.



Read codes without hindering work

The newly designed lens in the SR-2000 Series offers a greater depth of field that allows the code reader to be installed outside the work flow area, ensuring a flexible layout. Moreover, even if an image has low resolution at long ranges, the high-resolution algorithm ensures reliable reading.

Newly designed lens with greater depth of field

Newly developed lens with minimal blurring—ideal for code identification

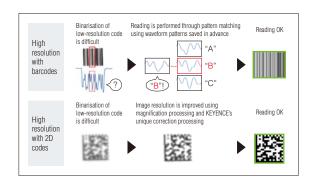
The newly designed dedicated lens boasts an even greater depth of field. Thanks to front-to-back clarity, no additional steps or mechanical equipment—including focus adjustment with tooling changes and code position controllers—are required.

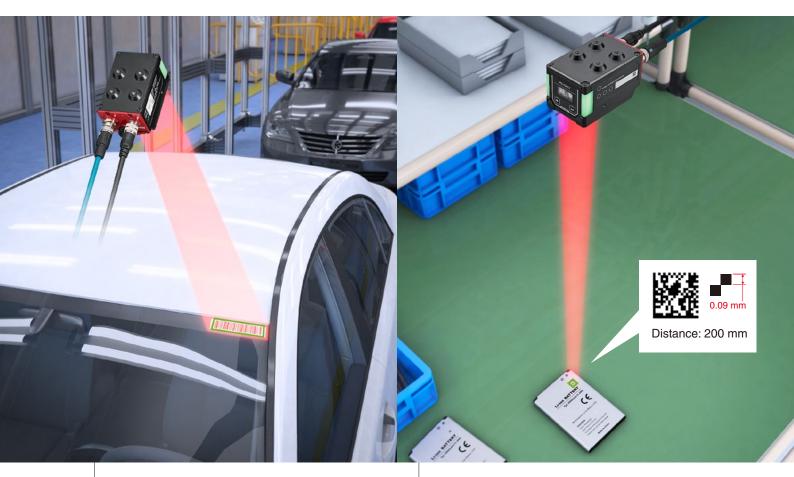
In	Image capture example with a 700 mm focus position				
Reading distance	500 mm	700 mm	900 mm		
	(-200 mm)	(focus position)	(+200 mm)		
Conventional model	Cell size =0.50mm	Cell size =0.50mm	Cell size		
SR-2000	Cell size	Cell size	Cell size		
	=0.50mm	=0.50mm	=0.50mm		

High-resolution algorithm

Read low-resolution codes even at long ranges

Two all-new algorithms allow for 30% more reading distance compared with conventional readers. Detection automatically switches between pattern matching for barcodes and up-converting (enlarging and correcting) for 2D codes.





Support for multi-code reading

The lens of the SR-2000 Series offers a greater depth of field, allowing it to handle changes in reading distance that result from the different types of vehicles being transported.

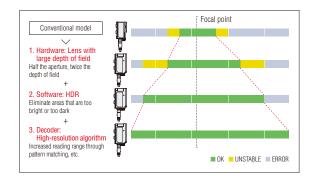
Long-range reading of even minute codes

With the SR-2000 Series, a 0.09 mm code is readable even at 200 mm. The lens also boasts a depth of field greater by ±10 mm.

Greater depth of field at longer ranges comparable to laser scanners

Dramatic improvements thanks to collaboration between hardware, software, and decoder

The SR-2000 Series achieves optimal cooperation between hardware, software, and decoder—a task that is difficult to realise with C-mount lenses. Stable reading with a large depth of field at long ranges is possible regardless of the user.



Helpful in these situations

Reading of ever-shrinking codes

The size of 2D codes has become progressively smaller over the years, regardless of the industry. As code sizes decrease, the resolution at conventional reading distances becomes insufficient, leading to the need for remodelling of the equipment. In order to provide a certain level of futureproofing for the next few years, the SR-2000 Series provides high resolution even with greater depth of field and at longer ranges.









Read objects on the move

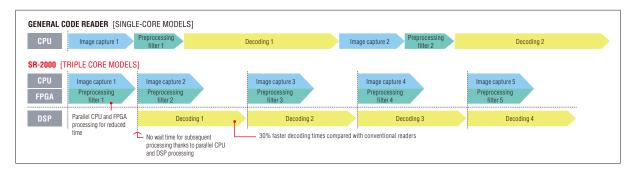
Stably read various moving codes, from conveyor-belt transferring at distribution centres to robotic transferring



In-line reading of cardboard boxes with different heights and sizes Previously, worksites where the reading distances of cardboard boxes varied, or if the location where the barcode was affixed varied, it was necessary to install. With the SR-2000 Series, reading is possible with a greater depth of field over a larger field of view, and the high processing speed means there's no need to set the size of the cardboard box being read.

Triple core high-speed processing Higher speeds through parallel CPU, DSP, and FPGA processing

Image filtering is performed by the FPGA in the previous step rather than by the DSP, reducing total processing time. Moreover, DSP processing speeds have been increased by 30% compared with conventional models, resulting in shorter decoding time and faster reading time.

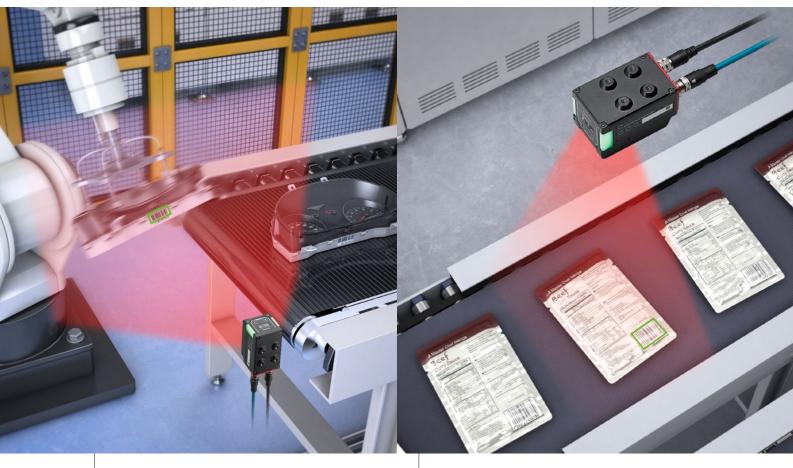


Faster image transfers

Twice as fast compared with conventional models

Even though the sensor size has been increased to 3.1 million pixels, image transmission times are equivalent to conventional cameras with a 1.3 megapixel sensor. With the SR-2000 Series' ability to read multiple codes over a wide field and high speeds, image capture count has been increased while ensuring reading stability.

SR-2000			14 ms		20 ms
Conventional model			20 ms	_	
Number of pixels		1280 × 1024 pixels 1.3 million pixels		2048 × 1536 pixels 3.1 million pixels	
Conventional model mage transfer to	CMOS sen	sor 8 bits CPU	SR-20	00 CMOS sensor 16 bits	CPU



Read codes presented by a robot arm

Image transfer is faster even for operations, such as those involving codes presented by robot arms, that require multiple images with higher pixel counts over a wider field of view.

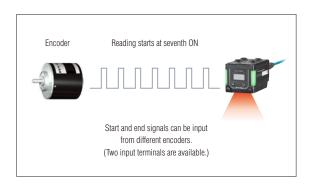
Ability to handle changes in line speed

With support for encoder input, reading is possible even on lines with speeds that vary according to the number of components produced.

Encoder input support

Control timing of reads with encoder pulse signals to match varying speeds

Controlling when to start or stop reading is possible using separate encoder pulse signals commonly found on conveyor lines and other setups. The ability to set the number of required pulses helps set up a configuration to suit the reading conditions.



Helpful in these situations Outstanding ability to read moving targets means blurry codes can be read with ease

For example, for a 0.25 mm code, vibrations of 0.25 mm or more occurring immediately after the workpiece stops may make reliable reading impossible. Thanks to the SR-2000 Series' exceptional ability to handle moving codes, such codes can be read as easily as any other code.



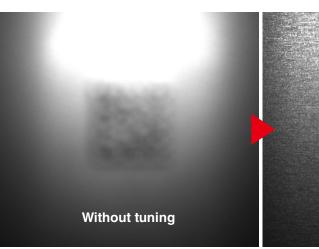
\$50.5 1

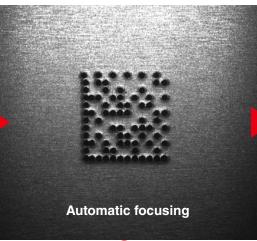
Conventional model: Illegible code

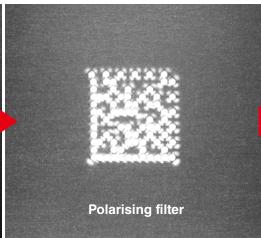
SR-2000: Legible and clear

Fully automatic calibration

One-click automatic optimisation makes setup easy for anyone.







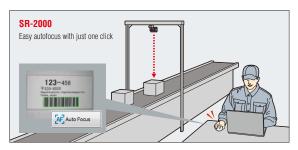
Auto-focus function

No adjustment of focus or aperture is required, and no selection of C-mount lenses is necessary

Whereas focusing with conventional models was a manual process, focusing on the SR-2000 Series is done automatically. The development of a dedicated autofocus mechanism makes it possible for anyone to achieve clear focus with just a touch of a button.



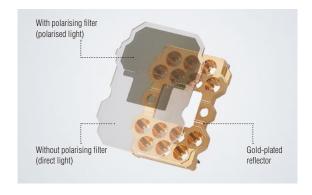




Automatic polarisation control function

Polarising filter for glare removal

The ability for a code reader to automatically remove halation eliminates the need to adjust the installation angle or to install external lighting. Combined with automatic focus, automatic polarisation control allows for even greater mounting flexibility.

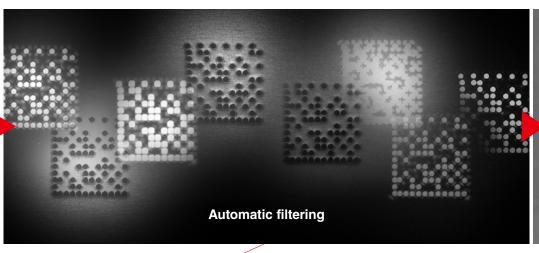


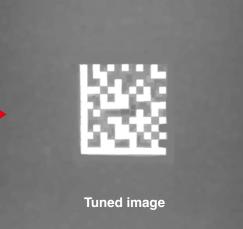
[Black resin] Cylinder



[Metal] DPM on cast surface







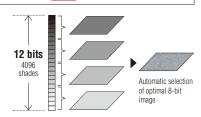
Automatic tuning

Corrections to improve code reading

Codes that are difficult to read due to poor printing quality need to be made more readable. The SR-2000 automatically optimises some 1.5 million parameter setting variations including exposure time and image processing filters.

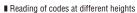
Dynamic range correction NEW

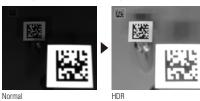
The optimal 8 bits (256 shades) are automatically extracted for code reading from the 12-bit (4096 shades) data. This allows for stable reading even for codes that cannot be read with conventional models.



HDR (High Dynamic Range)

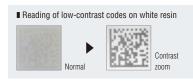
The increased range of capturable brightness prevents light areas from becoming washed out and dark areas from becoming underexposed.





Contrast zoom NEW

Areas where contrast differences are small undergo contrast processing in order to capture lower-contrast codes more clearly.



Correction items and examples of affected codes

Capture brightness correction



Distorted

codes

Dark codes

Automatically configures various combinations of exposure time, dynamic range, and gain by utilising 186 steps of brightness in order to achieve optimal brightness.





Black resin

PCB

Geometric correction

Corrects distorted codes, such as those on cylinders and other round surfaces or when the reader is mounted at an angle.





Parallel distortion

Trapezoidal distortion

Thin/thick printing



Filter correction

Automatically selects the best filter and filtering intensity to correct the captured image.





Bleeding

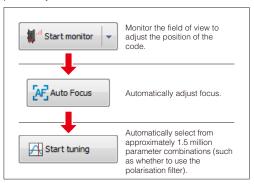
Thick printing

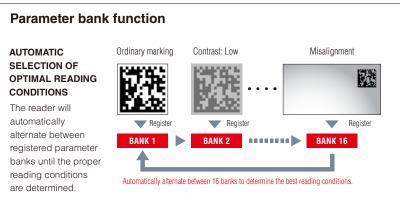


High-performance imaging is possible, regardless of the user



The software not only helps reader setup but also improves functionality to reduce effort required for preliminary tests.

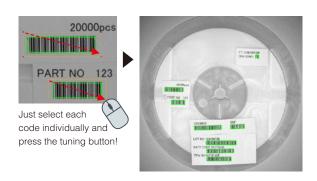




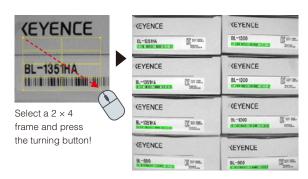
Improved multi-code tuning NEW Intuitive operation that involves simply creating a frame and pressing a button

Configuration is easy and tunes the reader by creating a frame around the target codes among multiple codes within the field of view. Up to 128 codes of varying designs can be captured all at once and read, making it possible to achieve even faster read times.

Frame codes individually



Frame multiple codes at once



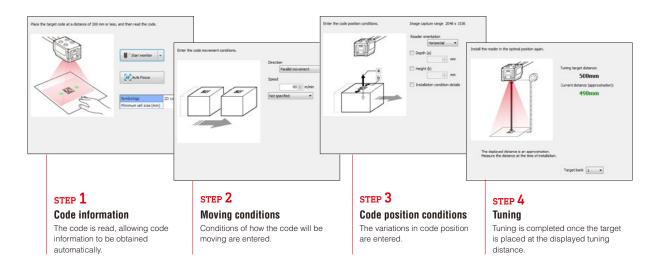
Tuning Consultant NEW Easily discover the optimum mounting position and prevent post-installation problems.

The Tuning Consultant automatically determines the optimal installation position in order to ensure the required reading range, depth of field, and line speed even without performing a line test. This greatly reduces the time required for the design process and the number of tests to determine the best installation, resulting in dramatically reduced start-up costs and time.

■ Tip display function

This function displays hints that facilitate operation, such as a message to remove the polarising filter when brightness is insufficient at the desired installation distance.



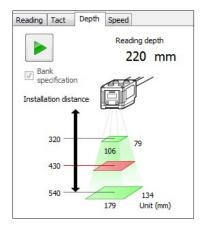


Five test modes Verify stability before line or equipment installation

Verify reading stability in advance even without performing reading tests on an actual line or with the equipment.

Depth of field measurement test

Determination of installation distance, read depth, and field of view size

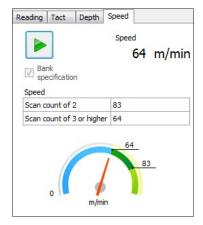


Reading rate measurement test

Determination of read success rate*1

Speed measurement test NEW

Determination of estimated trackable line speed and resulting margin

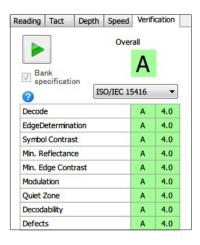


Tact measurement test

Determination of read time*2 (tact)

Code verification test **NEW**

Determination of code readability with results displayed in a list



- *1: The ratio of successful reads per 10 scans.
- *2: Time from when the timing trigger is turned on until reading is complete.

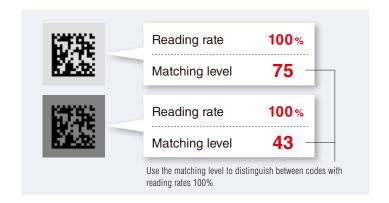
Functions for Even Greater Usability

Quantitatively confirm printing quality. Prevent causes of reading errors before they occur.

Matching level function

Check the reading margin using numerical values

Rather than confirming whether reading was possible or not, a code's quality can be checked using a scale of 1 to 100. To prevent reading errors from occurring, the marking quality degradation is analysed and utilised for predictive maintenance such as feedback on the marking process.



Code verification function

Verification according to standard-specified print quality criteria

The SR-2000 Series offers a code verification function for tasks with growing importance including ensuring reading stability in later processes and offering support for print quality control requests from suppliers.

Complying with the new ISO/IEC 15416 standard, this function verifies both 2D codes and barcodes for a wide range of code verification support. This function can also be used for both "offline" and "inline" production.

[Supported standards]

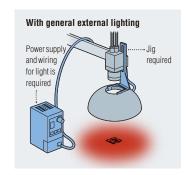
- ISO/IEC 15416
- ISO/IEC 15415
- ISO/IEC TR 29158 (AIM-DPM-1-2006)
- ISO/IEC 16022
- SAE AS9132
- SEMI T10-0701



Lighting attachment

One-touch mounting with no need for a power supply

The SR-2000 Series is available with a newly developed external lighting attachment that does not require a power supply while allowing codes to be illuminated from a variety of directions. This attachment is effective for code verification functions or reading direct part markings, such as markings on targets with a mirror finished surface. Using this attachment greatly improves cost savings compared with general external lighting.





Functions that facilitate reading and data processing for greater on-site usability

Always-on function

Reading with minimal movement through overhead placement

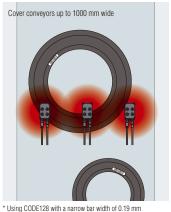
With conventional models, work occurred in three steps: Take the product in one hand. Take the handheld code reader in the other. Scan the code. Thanks to the SR-2000 Series' "Always-On" function, reading is done just by taking the product in hand, and users will not even notice the light from the reader

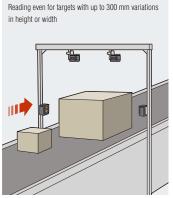


Advanced multi head function

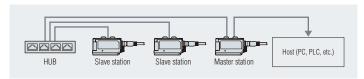
Reading of an even larger field of view or of multiple surfaces

The SR-2000 Series not only offers an ultra-wide field of view but can also work in tandem with additional readers for an even wider field of view. Master stations are capable of summarising data from slave stations, allowing users to control multiple readers as if they were a single code reader. Because the host is not required to control multiple readers individually, programming work can be greatly reduced.





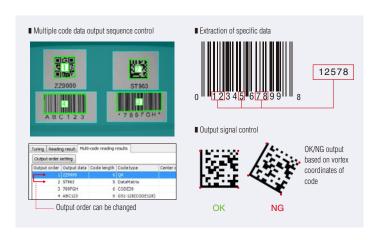
* Using an 8-digit ITF code with a narrow bar width of 0.25 mm



Data edit function

Customisable reading data output formatting

Thanks to the SR-2000 Series' ability to offer customisable data output formats, programming corrections on the host side (PC, PLC, etc.) are not required, resulting in shorter data processing time.



Applications

Improved code reader operation regardless of industry or item

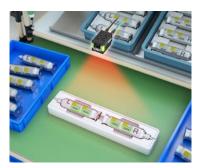
This section introduces examples where code reader usage improves work efficiency through such means as traceability and error prevention. With the ability not only to read codes but also to improve workability and to enable value-based management, the SR-2000 Series reduces costs, improves quality, and shortens delivery times.

Ultra-wide field of view



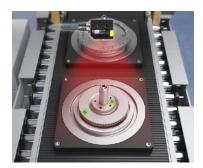
Reading upon warehousing reception

Reading is possible when receiving a product at the warehouse even if the label position height is not uniform.



Airbag model verification

Reading can be accomplished while distinguishing between codes on components with specified left and right sides.



Reading of multiple codes on flywheel

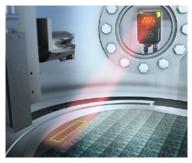
Codes near the axis and on the circumference can be read with no repositioning required.

Incredibly deep depth of field at longer ranges



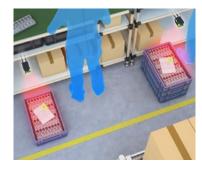
Reading of components during hanger transfer

Codes on hanging doors being transported can be read from a fixed position even with the doors swaying back and forth.



Code reading through glass

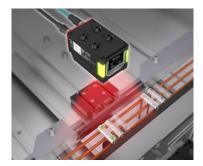
Read through viewports on vacuum devices that do not allow the use of electronics inside.



Hands-free reading for reduced manual labour

Read codes even if the height of boxes stacked underneath varies.

Read objects on the move



Simplified transportation of lithium-ion batteries

Read codes on curved surfaces of batteries even while the batteries are rotating.



Verification of inclusion of individually packaged products

Read part numbers on the outside of packages and codes on instruction manuals to be enclosed without stopping the line.



Gate-type reading of labels with undefined locations

Achieve stable reading even on cardboard boxes of varying widths and with labels applied in various locations.

Achieve methods of operation never before imagined or otherwise deemed impossible

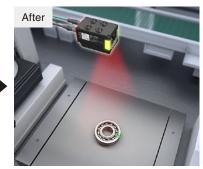
This section will address detection examples that would be considered impossible with conventional code readers. Thanks to the SR-2000 Series' unique functions, users can pinpoint unnecessary devices and eliminate extra work of the operators.

Eliminate high-performance cameras and rotation equipment For 2D codes printed on the circumference of

bearings, the fixed position of conventional readers required a high-performance camera to detect the target position followed by rotation and, finally, reading.

With the SR-2000 Series, the ultra-wide field of view means both rotation equipment and position detection are unnecessary.





Reduce equipment and improve processing time

With codes on highly reflective products, readers need to be installed at an angle that eliminates glares, conveying speeds need to be reduced, and external lighting must be used. Thanks to the SR-2000 Series' Automatic Polarisation Control function and high-sensitivity CMOS sensor, there's no need to worry about glare, allowing the reader to be mounted directly in front of the target. In addition, the ability to read targets in motion allow for even higher product line speeds.





Gain awareness of challenging factors and open the door for more improvements

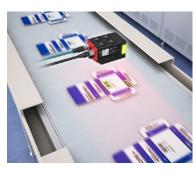
The leading cause of reading errors can be classified as "challenge factors" that include code characteristics and reading methods. If a reading error occurs, thinking about these factors separately can offer a clue toward improved readability.

Aiming for zero reading errors

When a combination of "challenge factors" like those to the right are present, reading errors will be likely.

The SR-2000 Series, however, is capable of ultra-wide field reading with a greater depth of field, longer ranges, and support for moving targets. Stable reading is possible with no additional devices required, even when two or more "challenge factors" are present.

Examples of typical combinations Code characteristics Reading method Multiple codes × Movement reading Low-contrast codes × Long-range reading Thin/thick printing × Rotational reading Low-height barcodes × Wide-field reading (positional variation)



Reading of multiple codes in motion

Reading speeds of 60 m/min are possible even for moving targets featuring two barcodes with narrow bar widths of 0.1 mm.

READING RANGE CHARACTERISTICS [TYPICAL]

Supported symbol selection

Symbol A	2D code	 QR, MicroQR, DataMatrix (ECC200), GS1 DataMatrix
Syllibol A	Barcode	 CODE39, ITF, NW-7 (Codabar), CODE128, GS1-128, JAN/EAN/UPC, CODE39 Full ASCII
Cumbal D	2D code	 PDF417, Micro PDF417, GS1 Composite (CC-A, CC-B, CC-C)
Symbol B	Barcode	 GS1 DataBar, CODE93, 2of5 (Industrial 2of5), COOP 2of5, Trioptic CODE39, Pharmacode

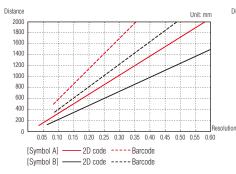
STEP 2 Check the distance according to resolution (left graph) and visual field size according to distance (right graph)

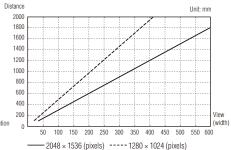
Ex.: Reading DataMatrix (Symbol A) with a cell size of 0.35 mm using the SR-2000 Series

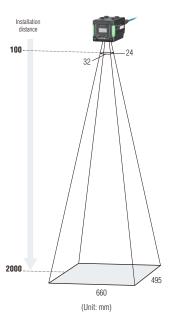
Unit: mm

- (1) By checking the solid red line on the left graph, we can see that cell sizes up to 0.35 mm can be read at up to 1200 mm.
- (2) Looking at the solid black line on the right graph, we can see that distances of 1200 mm or more will require a field of view of at least 400 mm (width).

SR-2000 Full-range model







Minimum	resolution

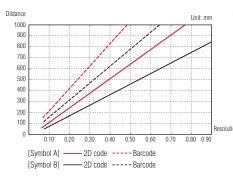
Type	Distance	2D code	Barcode	
	100	0.04	0.082	
	100 to 340	0.10	0.062	
Symbol A	100 to 700	0.21	0.125	
	100 to 1400	0.41	0.25	
	100 to 1800	0.53	0.32	
Symbol B	100 to 600	0.25	0.15	
Syllibul b	100 to 1000	0.41	0.25	

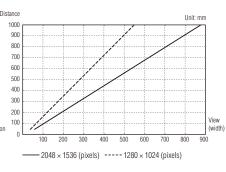
■ Field of view (typical)

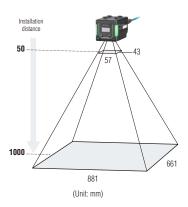
2048 × 1536 (pixel) 1280 × 1024 (pixel) Width Height Width Height

Unit: mm

SR-2000W Ultra-wide field of view model







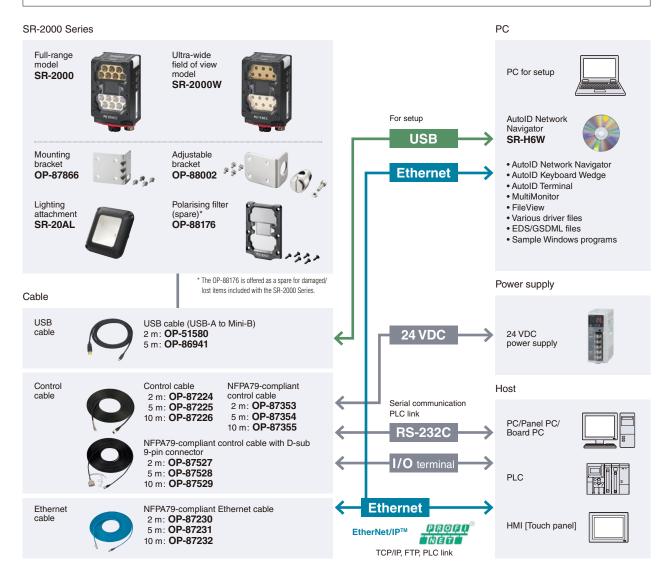
■ Minimum resolution

• William (C30)dtion				
Туре	Type Distance		Barcode	
	50	0.063	0.082	
	50 to 150	0.126	0.002	
Symbol A	50 to 350	0.28	0.17	
Syllibul A	50 to 500	0.40	0.24	
	50 to 650	0.51	0.31	
	50 to 1000	0.78	0.48	
Symbol B	50 to 220	0.25	0.15	
Syllibol b	50 to 370	0.41	0.25	

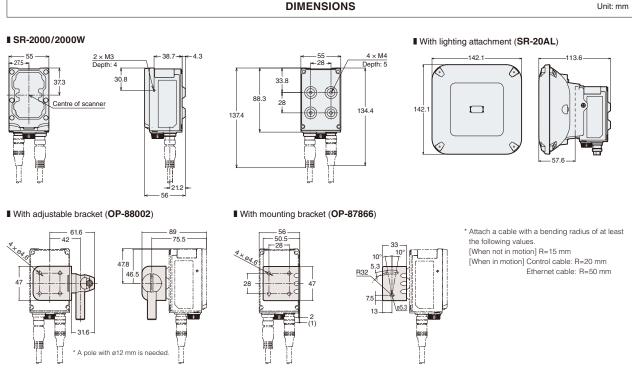
■ Field of view (typical)

■ Field of view (typical) Unit: mm				
Distance	2048 × 1536 (pixel)		1280 × 1024 (pixel)	
DISTAILE	Width	Height	Width	Height
50	57	43	36	28
150	144	108	90	72
250	231	173	144	115
350	317	238	198	158
500	447	335	279	223
650	577	433	361	288
1000	881	661	550	440

SYSTEM CONFIGURATION DIAGRAM







SPECIFICATIONS









■ Main unit

Specifications Spec	Model			SR-2000	\$R-2000W		
Number of pixels 1,000	Type	Туре		Full-range model	Ultra-wide field of view model		
Focus		Sensor		CMOS image sensor			
Light source	Receiver	Number of pixels		2048 × 1536			
Pointer light source		Focus		Au	to*		
Pointer large Supported	12-14-1-14	Light source		High-intens	sity red LED		
Supported Supported Supported Supported Supported Symbols Barcode COLD33, ITF.2d5 (Industrial 2d5), COCP 2d5, NW-7 (Codshap), CODE126, CS1-128, CS1-1	Light emitter	Pointer light so	urce	High-intensi	ty green LED		
Symbols Barcode CST DataBart, CODESS), MEVA, (CobataBart, CODESS), CODESS PLANCE (CobataBart, CODESS), CODESS PLANCE (CobataBart, CODESS), CODESS PLANCE (CODESS), CODESS PLANCE (CODESS, CODESS PLANCE (CODESS, CODESS PLANCE (CODESS), CODESS PLANCE (CODESS, CODESS PLANCE (CODESS PLAN			2D code	QR, MicroQR, DataMatrix (ECC200), GS1 DataMatrix, PDF417, MicroPDF417, GS1 Composite (CC-A/CC-B/CC-C)			
Minimum 20 color 0.002 mm			Barcode				
Resolution Barcode		Minimum	2D code	0.040 mm	0.063 mm		
Field of view for reading (at 800 mm)	specifications	resolution	Barcode	0.082 mm	0.082 mm		
Field of view for reading (at 800 mm)		Reading distance	ce	100 to 2000 mm	50 to 1000 mm		
Number of inputs							
Control input				:	2		
Control input			Input type	Bidirectional	voltage input		
Minimum ON voltage		Control input	Maximum rating				
Number of outputs							
Number of outputs			Maximum OFF current	0.2	mA		
Control output Maximum rating 30 VDC			Number of outputs				
Control output Maximum rating 30 VDC			Output type	Photo MOS relay output			
Control output Maximum load current Leakage current when OFF Residual voltage when ON 1 V or less			Maximum rating	301	/DC		
Leakage current when OFF 0.1 mA or less		Control output		Single output: 50 mA or less.	3-output total: 100 mA or less		
Ethernet Communication standard Supported protocol TCP/IP, SNTP, FTP, BOOTP, EtherNet/IP™, PROFINET, KV STUDIO, MC Protocol, OMRON PLC Link Serial Communication standard SR-232C-compliant Communication speed Supported protocol No-protocol, KV STUDIO, MC protocol, SYSWAY USB Communication standard USB 2.0 Full Speed-compliant Environmental resistance Environmental resistance Ambient storage temperature Ambient storage humidity Ambient storage humidity Sunlight: 10000 lux, Incandescent lamp: 6000 lux, Fluorescent lamp: 2000 lux Modust or corrosive gas present Vibration resistance Power voltage Current consumption Environmental Reatings Power voltage Current consumption Communication standard RS-232C-compliant RS-22VEXENT RS-232C-compliant RS-232C-compliant RS-232C-compliant RS-232C-compliant RS-232C-compliant RS-232C-compliant RS-232C-comp	Specifications		Leakage current when OFF	0.1 mA or less			
Ethernet Supported protocol TCP/IP, SNTP, FTP, BOOTP, EtherNet/IPIM, PROFINET, KV STUDIO, MC Protocol, OMRON PLC Link			Residual voltage when ON	1 V or less			
Serial communication Serial communication Serial communication Serial communication Serial communication Serial communication Supported protocol Supported protocol, KY STUDIO, MC protocol, KY STUDIO,			Communication standard	IEEE 802.3-compliant, 10BASE-T/100BASE-TX			
Serial communication Communication speed 9600, 19200, 38400, 57600, 115200 bps		Ethernet	Supported protocol				
Communication Communication speed Section Secti			Communication standard	RS-232C-	compliant		
Supported protocol No-protocol, KV STUDIO, MC protocol, SYSWAY			Communication speed	. '			
Environmental resistance Environmental resis		Communication	Supported protocol				
Ambient temperature		USB	Communication standard	<u> </u>			
Environmental resistance Ambient storage temperature -10 to +50°C Ambient humidity 35 to 85% RH (No condensation) Ambient storage humidity 35 to 85% RH (No condensation) Ambient illuminance Sunlight: 10000 lux, Incandescent lamp: 6000 lux, Fluorescent lamp: 2000 lux Operating environment No dust or corrosive gas present Vibration resistance 10 to 55 Hz: Double amplitude 0.75 mm, 3 hours each in X, Y and Z directions Ratings Power voltage 24 VDC ±10% Current consumption Approx. 1600 mA		Enclosure ratin]	IP	65		
Environmental resistance Ambient storage humidity Ambient illuminance Operating environment Vibration resistance Ratings Ambient torage humidity Ambient illuminance Operating environment Vibration resistance Operating environment Operating environme		Ambient tempe	rature	0 to +	45°C		
resistance Ambient storage humidity 35 to 85% RH (No condensation) Ambient illuminance Sunlight: 10000 lux, Incandescent lamp: 6000 lux, Fluorescent lamp: 2000 lux Operating environment No dust or corrosive gas present Vibration resistance 10 to 55 Hz: Double amplitude 0.75 mm, 3 hours each in X, Y and Z directions Power voltage 24 VDC ±10% Current consumption Approx. 1600 mA		Ambient storag	e temperature				
resistance Ambient storage humidity 35 to 85% RH (No condensation) Ambient illuminance Sunlight: 10000 lux, Incandescent lamp: 6000 lux, Fluorescent lamp: 2000 lux Operating environment No dust or corrosive gas present Vibration resistance 10 to 55 Hz: Double amplitude 0.75 mm, 3 hours each in X, Y and Z directions Power voltage 24 VDC ± 10% Current consumption Approx. 1600 mA	Environmental	Ambient humid	ity				
Ambient illuminance Sunlight: 10000 lux, Incandescent lamp: 6000 lux, Fluorescent lamp: 2000 lux Operating environment No dust or corrosive gas present Vibration resistance 10 to 55 Hz: Double amplitude 0.75 mm, 3 hours each in X, Y and Z directions Power voltage 24 VDC ±10% Current consumption Approx. 1600 mA		Ambient storag	e humidity	, ,			
Vibration resistance 10 to 55 Hz: Double amplitude 0.75 mm, 3 hours each in X, Y and Z directions Power voltage 24 VDC ±10% Current consumption Approx. 1600 mA							
Vibration resistance 10 to 55 Hz: Double amplitude 0.75 mm, 3 hours each in X, Y and Z directions Power voltage 24 VDC ±10% Current consumption Approx. 1600 mA		Operating envir	onment	No dust or corro	sive gas present		
Ratings Power voltage 24 VDC ±10% Current consumption Approx. 1600 mA							
Ratings Current consumption Approx. 1600 mA	5	Power voltage		·			
	Ratings		nption				
	Weight			Approx	.: 300 g		

^{*} The focal position can be adjusted automatically during installation or tuning.

■ Setup software (AutoID Network Navigator)

Model	SR-H6W
Supported OS	Windows 10 Professional or later, 32 bit/64 bit Windows 8 Professional or later, 32 bit/64 bit (Except for Windows RT) Windows 7 Professional or later, 32 bit/64 bit Windows Vista Business/Ultimate SP2 or later, 32 bit*
Running environment	Processor: 2.0 GHz or better, Memory: 1 GB (32 bit)/2 GB (64 bit), DVD-ROM drive (during installation), Screen resolution: 1024 x 768 or better

- *SR-2000/G100 products do not support Windows Vista.
- .NET Framework 3.5 SP1 or later installed
- Internet connectivity for Windows 8/10 machines with .NET 3.5 installed
- Control panel operability for Windows 8/10 machines with .NET 3.5 installed



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