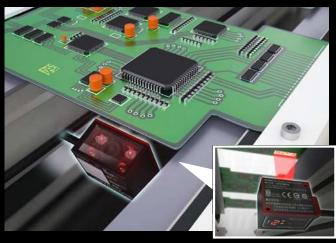


SR-700 Series



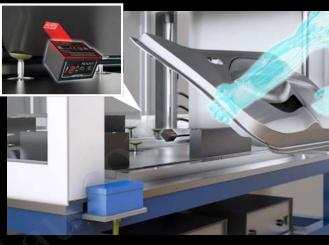


HIGH PERFORMANCE READING IN A COMPACT BODY









В

ADVANCED PROCESSING FOR STABLE & HIGH-QUALITY READING

EXCELLENT READING CAPABILITY THROUGHOUT THE ENTIRE FIELD OF VIEW

A built-in lens minimizes aberration to ensure high reading capability even at the edges of the field of view.









READING IS NOT AFFECTED BY MOUNTING ANGLE

The new geometric correction enables reliable code reading even when the code appears distorted.











EASILY READS DAMAGED OR IRREGULARILY PRINTED CODES

New algorithms provide best-in-its-class reading capability even when the code is hard to read.



Misaligned marking (PCB)





Uneven background (Card board)







POWERFUL HIGH SPEED READING

BURST READ FUNCTION:

Acquires up to 10 consecutive images. The decoding process is performed after the continuous imaging, allowing a higher speed code detection.

HIGH-SPEED IMAGE CAPTURE PERFORMANCE:

The built-in ultra-high-intensity LEDs and the high-speed digital signal processor (DSP) can capture moving objects effectively, even with a short exposure time.

(Reference: Max. 170 m/min with a KEYENCE test label)

EASY TUNING

Easily optimize reading settings

Optimum brightness and filter can be set automatically using the buttons on the main unit.





Tuning is also available through the setting software.

SR-H7W

TEST MODE PROVIDED

Visual indication of reading success

Pressing the TEST button starts the reading rate measurement mode.



IMAGE VERIFICATION FUNCTION

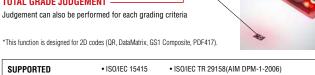
Verification based on image quality standards

OUTPUT DATA AD-ERMT-55841(:B)

TOTAL GRADE JUDGEMENT

STANDARDS

• ISO/IEC 16022



SAE AS9132

• SEMI T10-0701

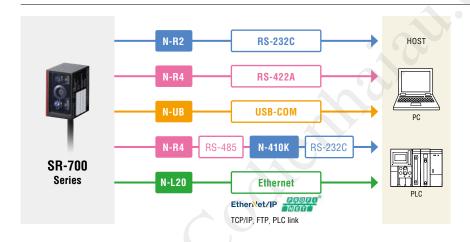
MATCHING LEVEL JUDGING FUNCTION

Compare the print quality of scanned codes

Higher contrast and print quality are indicated by a larger matching level, as shown below:

Reading rate	100%	微凝	Reading rate	100%	100
Matching level	75	4.00	Matching level	43	

SYSTEM CONFIGURATION DIAGRAM





READING RANGE CHARACTERISTICS [TYPICAL]

SR-700HA: HIGH-RESOLUTION TYPE

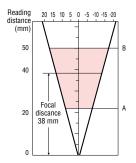
Code type	Cell size	A	В
	0.08	31	39
2D	0.127	27	42
	0.25	22	50

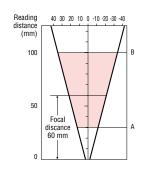
SR-700: CLOSE-RANGE TYPE

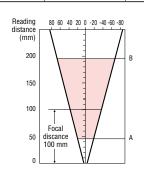
Code type	Cell size Narrow bar width	A	В
2D	0.127	50	70
20	0.25	40 80	
Barcode	0.127	46	74
Darcoue	0.33	30	100

SR-710: MIDDLE-RANGE TYPE

Code type	Cell size Narrow bar width	A	В
2D	0.25	65	130
	0.5	45	165
Barcode	0.127	75	110
Darcode	0.5	45	195







Main unit



Model*3			SR-700HA	SR-700	SR-710		
Туре		High-resolution type	Close-range type	Middle-range type			
Light source			Visible semiconductor laser (Wavelength: 660 nm)				
Laser pointer	Output		60 μW				
	Pulse duration			200 μs			
	Laser class		Class 1 Laser Product (IEC60825-1, FDA (CDRH) Part 1040.10*1)				
Lighting	Light source		High intensity red LED				
	Supported code	Barcode	*2	CODE39, ITF, 2015 (Industrial 2015), COOP 2015, NW-7 (Codabai GS1-128, GS1 DataBar, CODE93, JAN/EAN/UPC, Trioptic CODE39, CODE39 Full ASCII, Pharmacode			
		2D code	QR, MicroQR, DataMatrix (ECC200), GS1 DataMatrix, PDF417, MicroPDF417, GS1 Composite (CC-A, CC-B, CC-C)				
	Minimum	Barcode	-	0.127 mm	0.127 mm		
Reading	resolution	2D code	0.082 mm	0.127 mm	0.19 mm		
	Reading distance	Barcode	-	30 to 100 mm (Narrow bar width = 0.33 mm)	45 to 195 mm (Narrow bar width = 0.5 mm)		
	(typical examples)	2D code	22 to 50 mm (Cell size = 0.25 mm)	40 to 80 mm (Cell size = 0.25 mm)	45 to 165 mm (Cell size = 0.5 mm)		
	Focal distance		38 mm	60 mm	100 mm		
	Field of view (Typical example at focal distance)		26 mm × 17 mm	42 mm × 27 mm	70 mm × 45 mm		
	Control input		2 inputs (IN1 and IN2), non-voltage input (contact, solid-state)				
Control output	Control output			I) mA or less			
	20.000	Transmission speed	9600, 19200, 38400, 57600, 115200 bps				
	RS-232C	Supported protocol	No-protocol, MC protocol, SYSWAY, KV STUDIO				
	USB		USB 2.0 Full Speed compliant				
	Enclosure rating		IP65				
	Ambient temperature		0 to +45°C				
	Ambient storage temperature		-10 to +50°C (No freezing)				
Environmental resistance	Relative humidity		35 to 95% RH (No condensation)				
Tosistanoc	Ambient luminance		Sunlight: 10000 lux, Incandescent lamp: 6000 lux, Fluorescent lamp: 2000 lux				
	Operating environment		No dust or corrosive gas present				
	Vibration		10 to 55 Hz Double amplitude 1.5 mm, 3 hours each in X, Y and Z directions				
Dating	Power voltage		5 VDC +5%, -10%				
Rating	Current consumption		630 mA or less				
Weight		Approx. 160 g (including cable)					

- *2 Barcodes fitted into the visual field range in size can be read.
- *3 We have prepared the specific model for use in India only. Please contact us if you need the details.

Communication unit

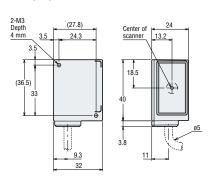




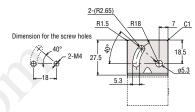
Model		N-R2	N-R4	N-UB	N-L20	
Interface		RS-232C	RS-422A/485	USB-COM	Ethernet*	
Code reader power supply		5 VDC ±5%, (650 mA)				
Input		2 inputs (IN1 and IN2)/Input type: Bidirectional voltage input/Maximum input voltage rating: 26.4 VDC/ Minimum ON voltage: 15 VDC/Maximum OFF current: 1 mA				
Terminal block	Output	4 outputs (OUT1 to 4)/Output type: Photo MOS relay output/Output rated load: 30 VDC, 100 mA/ Leakage current when OFF: 0.1 mA or less/Residual voltage when ON: 1 V or less				
	Ambient temperature/Relative humidity	0 to +50°C/35 to 85% RH (No condensation)				
Environmental resistance	Ambient storage temperature	-20 to +60°C				
	Operating environment	No dust or corrosive gas present				
	Vibration	10 to 55 Hz Double amplitude 1.5 mm (N-L20: 0.3 mm), 2 hours each in X, Y and Z directions				
Rating		Power voltage: 24 VDC (+10%, -20%)/Current consumption: 380 mA max.				
Weight		Approx. 135 g	Approx. 135 g (excluding connector)	Approx. 155 g	Approx. 150 g	

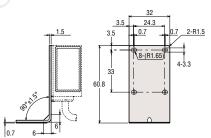
*Supported protocol: TCP, UDP, FTP, BOOTP, EtherNet/IP™, PROFINET, KV STUDIO, MC protocol, OMRON PLC link.

MAIN UNIT SR-700/710/700HA

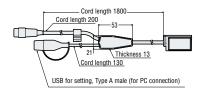


MOUNTING BRACKET





HEAD CABLE







GLOBAL NETWORK CONTACT YOUR NEAREST OFFICE FOR RELEASE STATUS

AUSTRIA

Phone: +43 (0)2236 378266 0

BELGIUM

Phone: +32 (0)15 281 222

BRAZIL

Phone: +55-11-3045-4011

Phone: +1-905-366-7655

CHINA Phone: +86-21-5058-6228

CZECH REPUBLIC Phone: +420 220 184 700

FRANCE Phone: +33 1 56 37 78 00

GERMANY

Phone: +49-6102-3689-0

HONG KONG Phone: +852-3104-1010

HUNGARY Phone: +36 1 802 7360

Phone: +91-44-4963-0900

INDONESIA Phone: +62-21-2966-0120 ITALY

Phone: +39-02-6688220

JAPAN Phone: +81-6-6379-2211

KOREA Phone: +82-31-789-4300

MALAYSIA Phone: +60-3-7883-2211

MEXICO

Phone: +52-55-8850-0100

NETHERLANDS Phone: +31 (0)40 206 6100

PHILIPPINES Phone: +63-(0)2-8981-5000

POLAND Phone: +48 71 368 61 60 ROMANIA

Phone: +40 (0)269 232 808

SINGAPORE

Phone: +65-6392-1011

SLOVAKIA

Phone: +421 (0)2 5939 6461

SLOVENIA Phone: +386 (0)1 4701 666

SWITZERLAND Phone: +41 (0)43 455 77 30

Phone: +1-201-930-0100

VIETNAM

TAIWAN

Phone: +886-2-2721-8080

Phone: +44 (0)1908-696-900

THAILAND Phone: +66-2-369-2777

UK & IRELAND

WW1-2090