

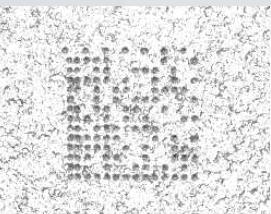


NEW Handheld DPM Code Reader
SR-G100

EtherNet/IP™



THE NEXT GENERATION OF HANDHELD CODE READERS



SR-G100

COMMON CHALLENGES FACED BY HANDHELD DPM CODE READERS

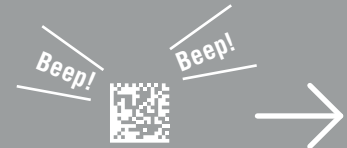
SLOW

Reading takes time, which causes operations to fall behind and leads to downed production lines



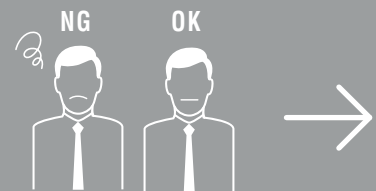
UNSTABLE

Because reading time is inconsistent, mistakes such as duplicated or skipped reads may occur



VARIABLE

Readings differ from person to person due to varying levels of understanding



DIFFICULT

Figuring out the best settings takes a long time or can sometimes even be impossible



THESE ISSUES AREN'T A PROBLEM FOR THE SR-G100

**HIGH-SPEED
READING**

**STABLE
READING**

**EASY
OPERATION**

**EASY
CONFIGURATION**



NEW

Handheld DPM Code Reader
SR-G100

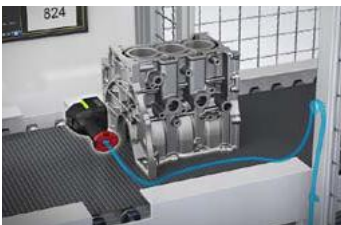
HIGH-SPEED READING REGARDLESS OF OPERATOR

WIRELESS COMMUNICATION IMPROVES FLEXIBILITY

Not only does being wireless improve the SR-G100's general flexibility, it also solves various problems that would otherwise be impossible to overcome.



No need to spend time on wiring



No interference from cables



No need to worry about damaged cables



BUILT-IN FUNCTION BUTTON

EASILY CUSTOMIZABLE SETTINGS

Automatic tuning is done simply by pushing the function button and reading a code. Use the device on site without the need to carry around a PC.



Assess stability of reading and communication

- Reading rate testing
- Radio wave testing



ERGONOMIC SHAPE THAT REINFORCES OPTIMAL POSITIONING

CENTER-OF-GRAVITY DESIGN

By naturally inducing a flat position, the SR-G100 reduces the impact of variations between users as well as variations in code marking styles. This makes it possible for anyone to read codes consistently and stably.



MULTI-LIGHTING CONTROL FUNCTION

AUTOMATIC SELECTION OF OPTIMAL LIGHTING

Polarizing illumination

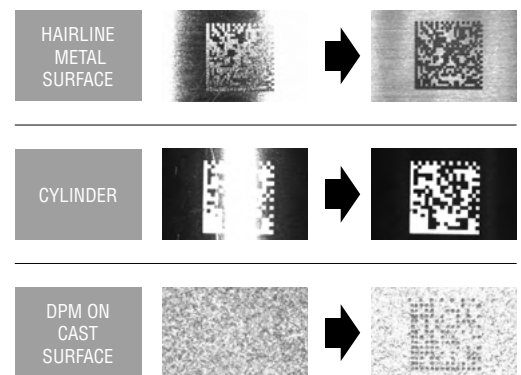


Removes glare from metal, black resin, etc.

Multi-angle lights + partial lighting

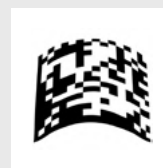


Reads DPM codes on metals including cylinders and cast surfaces



CAPABLE OF HANDLING CHALLENGING CODES

Code correction algorithms, developed for the SR-1000 Series of fixed mount code readers, have been optimized specifically for use with handheld code readers. This allows an ideal balance between reading consistency and speed.



Distorted codes on curved surfaces



Codes marked on machined surfaces



Codes marked on surfaces with projections and depressions

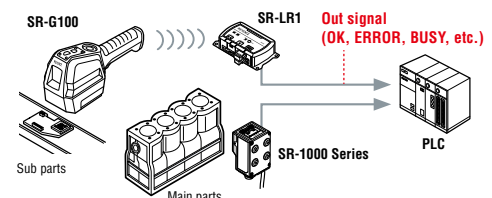
COMPATIBLE WITH VARIOUS COMMUNICATION PROTOCOLS

Support for EtherNet/IP™, PROFINET, and PLC link improves PLC compatibility. This allows for interaction with fixed mount code readers installed on equipment or on production lines. In addition, the OUT signal (OK, ERROR, BUSY, etc.) from the communication unit (SR-LR1) makes synchronization with the PLC even easier.

EtherNet/IP™

PROFINET®

Verification and tracking of main and sub parts



CUSTOMIZABLE SETTINGS USING EASY CONFIGURATION SOFTWARE

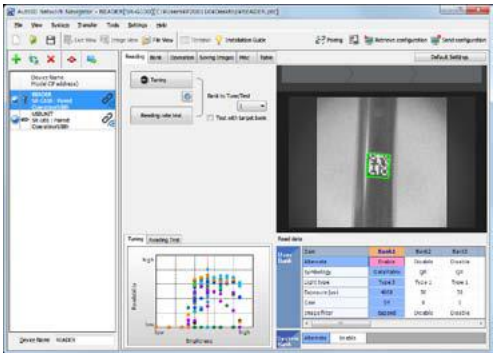
AutoID Network Navigator **SR-H5W** NEW

Easy connection via USB

Automatic tuning at the push of a button

Up to 12 different groups of settings can be stored

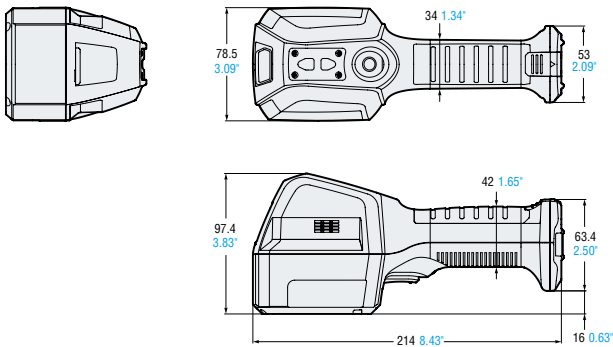
Real-time reading confirmation using Live View



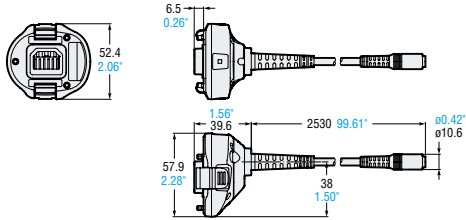
DIMENSIONS

Unit: mm

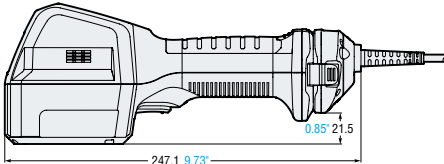
Handheld DPM Code Reader SR-G100



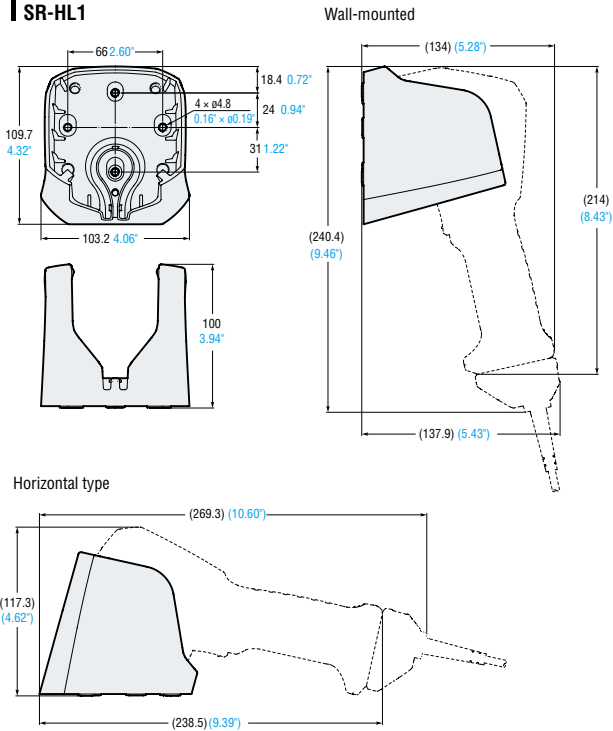
SR-G100 Cable SR-PU1



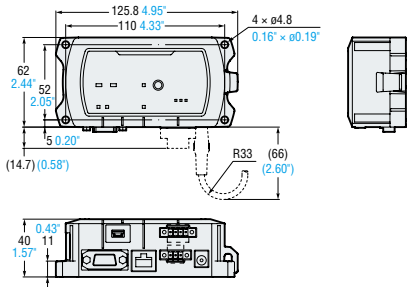
Connected (SR-G100 + SR-PU1)



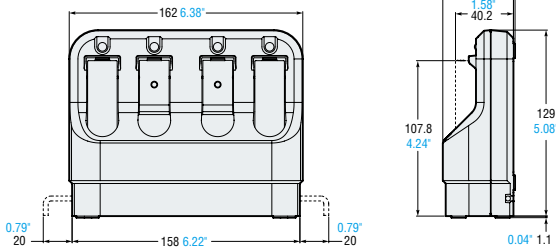
Holder SR-HL1



Communication unit (Ethernet & RS-232C) SR-LR1



4-in-line charging unit SR-CG14



FIELD OF VIEW FOR READING (TYPICAL)

2D code

Unit: mm inch

Distance	Minimum resolution	Horizontal	Vertical
30 1.18"	0.127 0.005"	45 1.77"	45 2.56"
70 2.76"	0.25 0.009"	65 2.56"	65 2.56"
110 4.33"	0.5 0.020"	85 3.35"	85 3.35"

Barcode

Unit: mm inch

Distance	Minimum resolution	Horizontal	Vertical
80 3.15"	0.25 0.010"	99 3.90"	70 2.76"
120 4.72"	0.5 0.020"	127 5.00"	90 3.54"
200 7.87"	1 0.039"	184 7.24"	129 5.08"

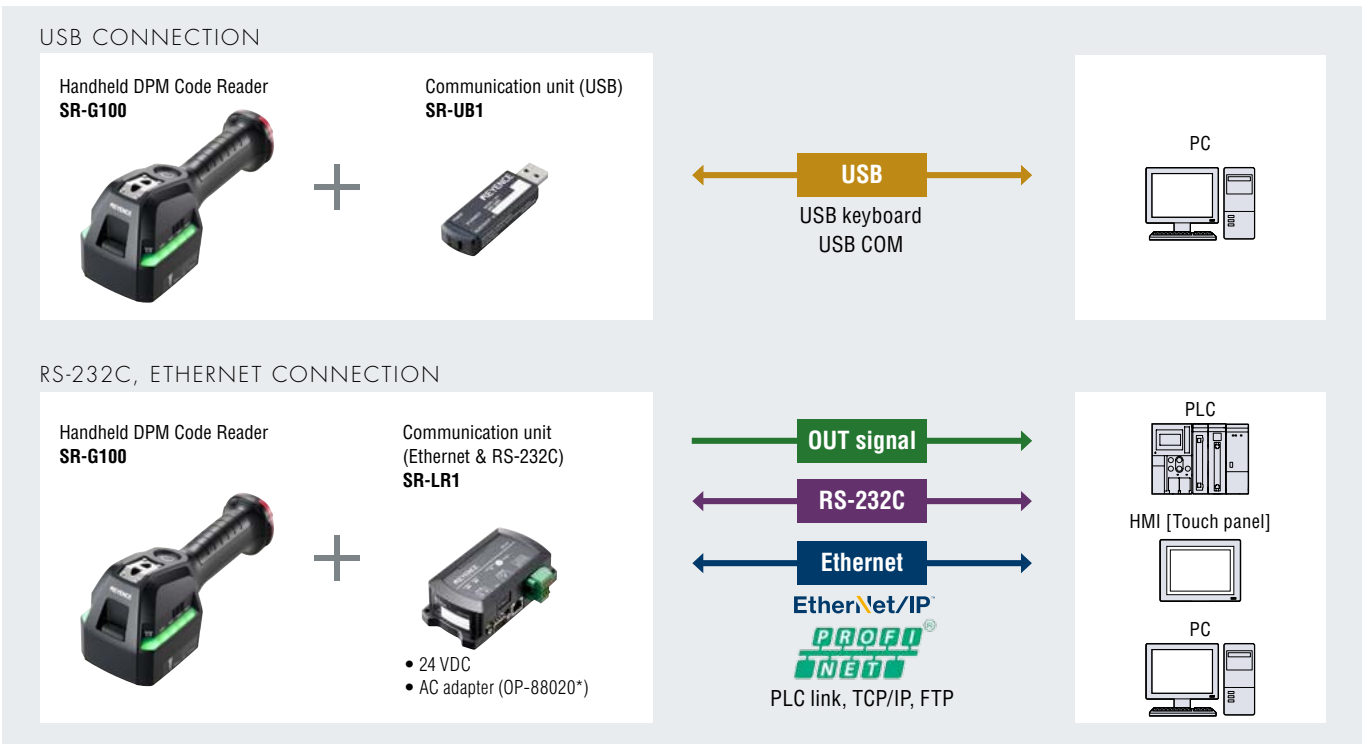
QUICK SETUP CODE

Settings on the main unit can be changed using codes created through the setup software.

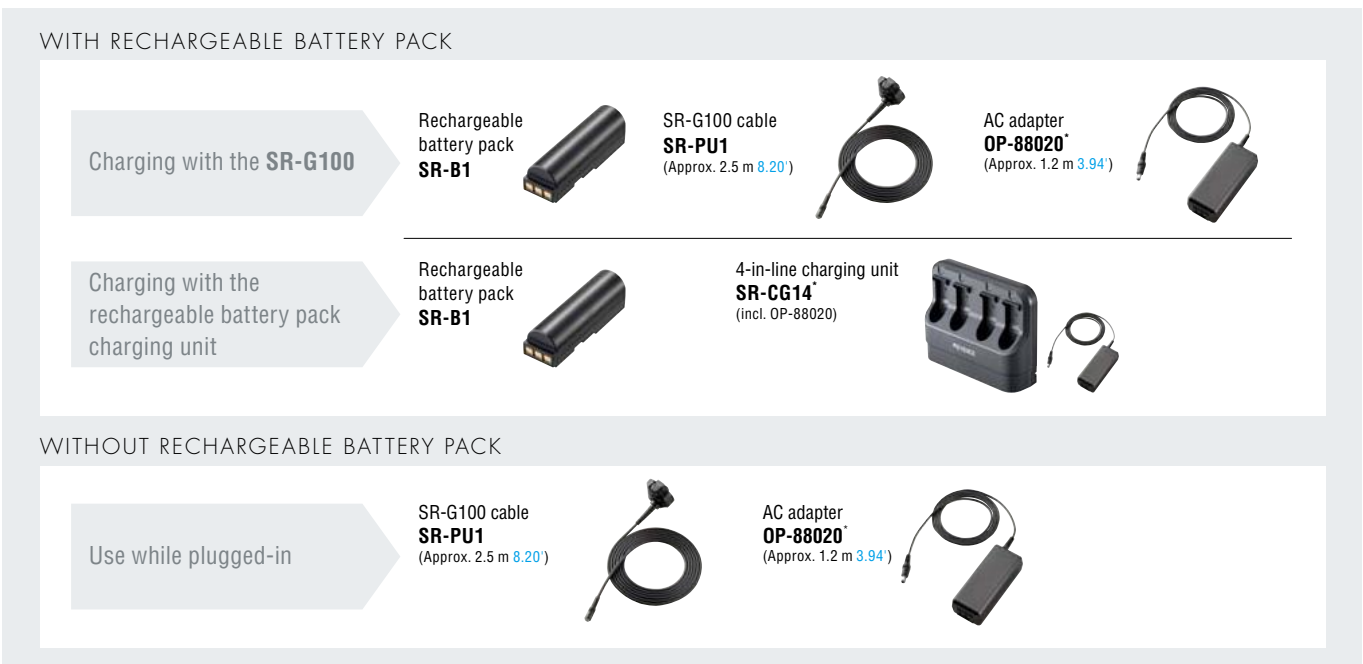


(Ex.: Initialization code)

STEP 1 SELECT A CONNECTION INTERFACE



STEP 2 SELECT A CHARGING/POWER METHOD



* A separate AC cable is required with OP-88020 and SR-CG14 products.

AC CABLE LIST

OP-99022 (USA, Canada) **OP-99102** (Mexico) **OP-99062** (UK) **OP-99032** (Germany, France, Italy, Belgium)
OP-99042 (China) **OP-99112** (Thailand) **OP-99012** (Japan)

(Approx. 2 m 6.56')

**OTHER OPTIONAL ACCESSORIES
AND SETUP SOFTWARE**

Holder
SR-HL1
Supports both flat and
wall-mounted positions



USB cable
OP-51580
SR-G100/SR-LR1
for setup



Setup software
SR-H5W



SPECIFICATIONS

Handheld DPM Code Reader



Model			SR-G100	
Receiver	Sensor		CMOS image sensor	
	Number of pixels		900 × 900 pixels (2D code), 1280 × 900 pixels (Barcode)	
Light emitter	Illumination light source		High-intensity red LED, High intensity blue LED	
Reading specifications	Supported symbol	2D code	QR, MicroQR, DataMatrix (ECC200), GS1 DataMatrix, PDF417, MicroPDF417, GS1 Composite (CC-A/CC-B/CC-C)	
		Barcode	CODE39, ITF, 2of5(Industrial 2of5), COOP 2of5, NW-7 (Codabar), CODE128, GS1-128, GS1 DataBar, CODE93, JAN/EAN/UPC, Trioptic CODE39, CODE39 Full ASCII, Pharmacode	
	Minimum resolution	2D code	0.127 mm 0.005"	
		Barcode	0.1 mm 0.004"	
	Focal distance		30 mm 1.18"	
Communication specifications	Wireless communication		Bluetooth Ver. 2.1 + EDR Class 2	
	Wireless communication distance		Approx. 10 m 32.81' (line-of-sight)	
	Setup communication		USB 2.0 Full Speed	
Environmental resistance	Enclosure rating		IP54	
	Ambient temperature		0 to +45°C 32 to +113°F / When charging: 0 to +40°C 32 to +104°F	
	Ambient storage temperature		-10 to +50°C 14 to +122°F	
	Relative humidity		35 to 95% RH (No condensation)	
	Ambient storage humidity		35 to 95% RH (No condensation)	
	Ambient light		Sunlight: 10000 lux, Incandescent lamp: 6000 lux, Fluorescent lamp: 2000 lux	
	Operating environment		No dust or corrosive gas present	
	Drop resistance *		2.0 m 6.56' ; 50 times	
Rating	Power consumption		Approx. 8.5 W	
Dimensions			214 × 78.5 × 97.4 mm 8.43" × 3.09" × 3.83"	
Weight			Approx. 375 g (incl. rechargeable battery pack)	
Continuous usage time (Central value)			Approx. 10 hours (reading count: 10000)	
Charging time			Approx. 4.5 hours	

* This is a test value and is not guaranteed.

Communication unit (USB)

Model		SR-UB1
Communication specifications	Wireless communication	Bluetooth Ver. 2.1 + EDR Class 2
	Wireless communication distance	Approx. 10 m 32.81' (line-of-sight)
	USB communication	USB 2.0 Full Speed
	Interface	USB-COM, USB keyboard
Environmental resistance	Ambient temperature	0 to +45°C 32 to +113°F
	Ambient storage temperature	-10 to +50°C 14 to +122°F
	Relative humidity	35 to 95% RH (No condensation)
	Ambient storage humidity	35 to 95% RH (No condensation)
Rating	Current consumption	Approx. 80 mA
Dimensions		20.6 × 11.2 × 65.4 mm 0.81" × 0.44" × 2.57"
Weight		Approx. 15 g
Supported OS		Microsoft Windows 8 Professional or later 32bit/64bit (Except for Windows RT), Microsoft Windows 7 Professional or later 32bit/64bit

Communication unit (Ethernet & RS-232C)

Model			SR-LR1
Communication specifications	Wireless communication		Bluetooth Ver. 2.1 + EDR Class 2
	Wireless communication distance		Approx. 10 m 32.81' (line-of-sight)
	RS-232C		9600, 19200, 38400, 57600, 115200 bps
			No-protocol, MC protocol, SYSWAY, KV STUDIO
Control output	Ethernet		IEEE 802.3, 10BASE-T / 100BASE-TX
			TCP/IP, FTP, MC protocol, Omron PLC link, KV STUDIO, EtherNet/IP™, PROFINET
	Number of points		3
	Output format		Photo MOS relay
Environmental resistance	Maximum rating		30 VDC, 100 mA
	Leakage current when OFF		0.1 mA or less
	Residual voltage when ON		1 V or less
	Ambient temperature		0 to +45°C 32 to +113°F
Rating	Ambient storage temperature		-10 to +50°C 14 to +122°F
	Relative humidity		35 to 95% RH (No condensation)
	Ambient storage humidity		35 to 95% RH (No condensation)
	Power voltage / current consumption		24 VDC ±10% / Approx. 120 mA, or use dedicated AC adapter (12 VDC) / Approx. 230 mA
Dimensions			62 × 125.8 × 40 mm 2.44" × 4.95" × 1.57"
Weight			Approx. 160 g

AC adapter

Model	OP-88020
Rated input	100 to 240 VAC, 50/60 Hz
Rated output	12 VDC, 1.5 A max.
Dimensions	104 × 43 × 31 mm 4.09" × 1.69" × 1.22" (excl. cable area)
Weight	Approx. 125 g

• Using SR-PU1 or SR-LR1. AC cable required separately.

Setup software

Model	SR-H5W
Supported OS	Microsoft Windows 8 Professional or later 32 bit/64 bit (Except for Windows RT)
	Microsoft Windows 7 Professional or later 32 bit/64 bit Microsoft Windows VISTA Business/Ultimate SP2 or later 32 bit*
Running environment	Processor: 2.0 GHz or faster, Memory: 1 GB (32bit) or 2 GB (64bit), DVD-ROM drive: Required for installation, Screen resolution: 1024 × 768 or better

* Windows Vista is not supported with the SR-G100.

- .NET Framework 3.5 SP1 or above has been installed.
- An internet connection is required when installing .NET 3.5 on Windows 8.
- The Control Panel is used for executions when installing .NET 3.5 on Windows 8.



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SAFETY INFORMATION

Please read the instruction manual carefully in order to safely operate any KEYENCE product.

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