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NEW Handheld DPM Code Reader SR-G100



## 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

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

VARIABLE

## DIFFICULT

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







**OK** 

NG

## THESE ISSUES AREN'T A PROBLEM FOR THE 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

# PRESS

#### 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



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.







Codes marked on surfaces with projections and depressions

Distorted codes on curved surfaces Codes marked on machined surfaces

COMPATIBLE WITH VARIOUS COMMUNICATION PROTOCOLS

Support for EtherNet/IP<sup>™</sup>, 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.





Verification and tracking of main and sub parts



#### **CUSTOMIZABLE SETTINGS USING EASY CONFIGURATION SOFTWARE**



27, B 8

Unit: mm











Connected (SR-G100 + SR-PU1)



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











FIELD OF VIEW FOR READING (TYPICAL)

(238.5)(9.39")

2D code Unit								
	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 <mark>2.56</mark> "				
	110 4.33"	0.5 0.020"	85 <mark>3.35</mark> "	85 <mark>3.35</mark> "				

Barcode Unit: mm inch								
Distance	Minimum resolution	Horizontal	Vertical					
80 <mark>3.15</mark> "	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 <mark>5.08</mark> "					

#### QUICK SETUP CODE

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



#### SYSTEM CONFIGURATION GUIDE

#### **STEP 1** SELECT A CONNECTION INTERFACE



#### STEP 2 SELECT A CHARGING/POWER METHOD

WITH RECHARGEABLE BATTERY PACK





OTHER OPTIONAL ACCESSORIES AND SETUP SOFTWARE

AC CABLE LIST

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





Setup software SR-H5W

#### SPECIFICATIONS

			SR-G100						
461	Sansor		CMOS image sensor						
ceiver	Sensor		900 × 900 pixels (2D code), 1280 × 90	Divide (Paranda)					
	Number of pixels		High-intensity red LED, High intensity						
	Illumination light source	0D aada		SS1 DataMatrix, PDF417, MicroPDF417, GS1 Composite (CC-A/CC-B/CC-C)					
		2D code		20P 2015, NW-7 (Codabar), CODE128, GS1-128, GS1 DataBar, CODE93, JAN/EAN/UPC, Trioptic CODE39, CODE39 Full ASCII, Pharmacode					
ading	-	Barcode	0.127 mm 0.005"	JUP 2015, NW-7 (Gouddai), GODE126, GST-126, GST Dalabai, GODE93, JAN/EAN/UPC, Hidpiic GODE39, GODE39 Full ASGII, Pilatilacoue					
		2D code							
		Barcode		1.1 mm 0.04*					
andheid DPM C         idel         idel         celver         iht emitter         ading         secifications         introlation         secifications         iting         nemunication         secifications         iting         nensions         ight         mmunication         ceffications         is a test use and mmunication         odel         mmunication         isistance         isight         popried OS         mmunication         ceffications         isistance         uing         mensions         igight         popried OS         mmunication         ceffications         isitance         introl         vironmental         isitance         introl         ceffications         igight         isitance         isitance         isitance         isitance         isitance         isitance         isitance	Focal distance		30 mm 1.18						
nmunication	Wireless communication		Bluetooth Ver. 2.1 + EDR Class 2						
	Wireless communication dis	tance	Approx.10 m 32.81 (line-of-sight)						
harging time This is a test value and ommunication iodel communication pecifications invironmental sistance atting timensions relight upported OS ommunication pecifications communication pecifications ommunication pecifications ommunication pecifications	Setup communication		USB 2.0 Full Speed						
	Enclosure rating		IP54						
	Ambient temperature		0 to +45°C 32 to +113°F/ When charging	ng: 0 to +40°C 32 to +104°F					
	Ambient storage temperature	э	-10 to +50°C 14 to +122°F						
	Relative humidity		35 to 95% RH (No condensation)						
istance	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           2.0 m 6.56°, 50 times						
	Drop resistance*								
ing	Power consumption		Approx. 8.5 W						
*			214 × 78.5 × 97.4 mm 8.43" × 3.09" × 3	3.83"					
			Approx. 375 g (incl. rechargeable batte						
ontinuous usage time	(Central value)		Approx. 10 hours (reading count: 1000						
	,		Approx. 4.5 hours	<u>,</u>					
	is not quaranteed.								
			00 104						
del	1		SR-UB1						
	Wireless communication		Bluetooth Ver. 2.1 + EDR Class 2						
	Wireless communication di	stance	Approx. 10 m 32.81' (line-of-sight)						
ecifications	USB communication		USB 2.0 Full Speed						
Environmental	Interface		USB-COM, USB keyboard						
	Ambient temperature		0 to +45°C 32 to +113°F						
vironmental	Ambient storage temperatu	ire	-10 to +50°C 14 to +122°F						
istance	Relative humidity		35 to 95% RH (No condensation)						
	Ambient storage humidity		35 to 95% RH (No condensation)						
tina	Current consumption		Approx. 80 mA						
		20.6×11.2×65.4 mm 0.81*×0.44*×2.57*							
			Approx. 15 g						
-				ater 32bit/64bit (Except for Windows RT), Microsoft Windows 7 Professional or later 32bit/64bit					
mmunication i	unit (Ethernet & RS-232C)								
del			SR-LR1						
	Wireless communication		Bluetooth Ver. 2.1 + EDR Class 2						
	Wireless communication di	stance	Approx. 10 m 32.81' (line-of-sight)						
mmunication	<b>DO 0000</b>		9600, 19200, 38400, 57600, 115200 bps						
	RS-232C		No-protocol, MC protocol, SYSWAY, KV STUDIO						
			IEEE 802.3, 10BASE-T / 100BASE-TX						
	Ethernet		TCP/IP, FTP, MC protocol, Omron PLC link, KV STUDIO, EtherNet//P <sup>TM</sup> , PROFINET						
	Number of points		1CP/IP; FTP; MC protocol, umran PEC link, KV STUDIO, EtherNet/IP**; PROFINET						
	Output format		Photo MOS relay						
	Maximum rating		30 VDC, 100 mA						
tput	Leakage current when OFF		0.1 mA or less						
Communication pecifications Control utput	Residual voltage when ON		1 V or less	<u> </u>					
	Ambient temperature		0 to +45°C 32 to +113°F						
	Ambient storage temperatu	re	-10 to +50°C 14 to +122°F						
istance	Relative humidity		35 to 95% RH (No condensation)						
	Ambient storage humidity		35 to 95% RH (No condensation)						
	Power voltage / current con	sumption		e dedicated AC adapter (12 VDC) / Approx. 230 mA					
-			62 × 125.8 × 40 mm 2.44* × 4.95* × 1.57*						
-		Weight		Approx. 160 g					
mensions			Setup software						
ight									
nensions ight adapter	DD 00000			Model SR-H5W					
nensions ight adapter del C	DP-88020								
mensions eight <b>adapter</b> odel <b>C</b> ted input 1	100 to 240 VAC, 50/60 Hz		Model	Microsoft Windows 8 Professional or later 32 bit/64 bit (Except for Windows RT)					
mensions eight <b>; adapter</b> odel C ted input 1 ted output 1	100 to 240 VAC, 50/60 Hz 12 VDC, 1.5 A max.			Microsoft Windows 8 Professional or later 32 bit/64 bit (Except for Windows RT) Microsoft Windows 7 Professional or later 32 bit/64 bit					
mensions eight C adapter odel C ated input 1 ated output 1 mensions 1	100 to 240 VAC, 50/60 Hz 12 VDC, 1.5 A max. 104 × 43 × 31 mm 4.09° × 1.69° × 1.22°	(excl. cable area)	Model 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*					
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