

# User Manual

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## DPM QR Industrial Scanner with Cradle HD9900

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## Specifications:

- **Warranty:** 2 years
- **Resolution:** 1280 x 1024 px
- **Sensor Type:** CMOS
- **Scanning method:** manual (push-button)
- **Scan confirmation:** light, sound, vibration
- **Scan Angle:** 41° Horizontal, 35° Vertical
- **Print Contrast:** ≥20%
- **Interface:** USB
- **Wireless communication:** radio, Bluetooth
- **Wireless range:** up to 100 m in open areas for radio communication
- **Built-in memory:** up to 10,000 codes
- **Wire length:** 2 meters
- **Drop resistance:** up to 1.8 m
- **Ingress Protection:** IP65
- **Voltage:** DC5V±5%
- **Operating Current:** 300mA±5% (typical), 400mA±5% (maximum)
- **Standby Current:** 100mA±5%
- **Operating temperature:** -20°C - 50°C
- **Storage temperature:** -40°C - 70°C
- **Operating Humidity:** 5% - 95% (non-condensing)
- **Product weight:** 400 g
- **Product dimensions:** 18.1 x 10.2 x 7.7 cm
- **Weight with packaging:** 600 g
- **Package dimensions:** 26 x 16.2 x 10.6 cm
- **Readable ID codes:** UPCA, UPCE, EAN 8,EAN 13, Code 128, Code 39, Code 93, Code 32, Code 11, Codabar, Plessey, MSI, Interleaved 2 of 5, IATA2 of 5, Matrix 2 of 5, Straight 2 of 5,

Pharmacode, RSS-14, RSS-14 Expanded, RSS-14 Limited  
Composite Code-A, Composite Code-B

- **Readable 2D codes:** Datametrics, QR Code, Microcor, PDF417, Micro PDF417, Aztec, Maxicode









## Set contents:

- Wireless Industrial QR Scanner
- Dock
- USB cable for communication with a computer
- Power supply for the docking station





## Key features:

- Advanced scan engine for reading DPM, QR and barcodes
- Scanning codes from both paper labels and LCD, LED/OLED screens
- Two types of wireless communication: radio and Bluetooth
- Up to 10,000 scanned codes can be stored in the built-in memory
- Robust housing with IP65 protection provides protection against water, dust and dust ingress into the mechanism







# Basic control codes



View version information	
	
Battery level	
	
Factory reset	
	
Setting the default mode	
	





# Code Scan Modes

Manual mode (push-button scanning)	
	
Continuous mode (scanning when a code is detected continuously)	
	





# Beep settings

Beep muted	
	
Beep soft	
	
Medium beep	
	

Beep loud	
	

2K beep frequency	
	
Beep Frequency 2.7K	
	













## Real mode and storage mode settings













Enable Real Mode	
	
Enable storage mode	
	


Transfer data from your device	
	
Display of the total amount of saved data	
	
Clearing stored data from memory	
	

Device sleep time settings









Sleep after 30s	
	
Sleep after 1 minute	
	

Sleep after 2 minutes	
	
Sleep after 5 minutes	
	
Sleep after 10 minutes	
	
Sleep after 30 minutes	
	
Sleep after 1 hour	
	
Sleep after 2 hours	
	











Sleep after 3 hours	
	
Sleep after 4 hours	
	
Sleep after 5 hours	
	
Sleep after 6 hours	
	
Sleep after 12 hours	
	
No sleep	
	





Instant Sleep	
	

## Bitrate settings

High-speed transmission	
	
Average transmission speed	
	
Slow transmission speed	
	
High transmission speed	
	

# Wireless settings

2.4G Mode	
	
Bluetooth Virtual Mode	
	
Tryb Bluetooth HID	
	
Tryb Bluetooth SPP	
	
Tryb Bluetooth BLE	
	





Virtual COM (Virtual Serial Port Mode)	
	
Entering the Pairing State	
	

## Bluetooth Name Setting

First, scan the "Bluetooth Name Setting" barcode, and then scan the "Bluetooth Name Reading" barcode.

### Remark:

- The name can be up to 16 bytes. If the name barcode exceeds 16 bytes, the barcode scanner will only take the first 16 bytes as the Bluetooth name
- The full name of Bluetooth includes: Bluetooth name + protocol type. When you modify the Bluetooth name, all Bluetooth protocols will be renamed. For example: If the Bluetooth name is set to: Scanner, the Bluetooth HID name is: ScannerHID.











Bluetooth Name Setting	
	
Reading the Bluetooth name	
	

## Prefix and Suffix Settings









To add a prefix or suffix, first scan the Prefix Setting or Suffix Setting code, and then read the corresponding bar code (see the Prefix and Suffix Characters table for details).

Prefix setting	
	
Suffix setting	
	





# Endpoint settings

Adding CRs	
	
Adding LF	
	
Dodawanie LF + CR	
	
Adding a TAB	
	
No end sign	
	

# Case settings

Conversion to lowercase	
	
Conversion to uppercase	
	
Case swap	
	
No size swap	
	

# Configuration codes

Entering Setup Mode	
	
Exiting Setup Mode	
	

## Prefix and suffix

The prefix and suffix table is divided into two parts: the control character table and the display character table. The display character table contains mostly ASCII characters with values greater than 31. These characters can be output directly through the HID keyboard. The control character table mainly contains characters with a key value of less than 32.



Special character set setting 0



Special Character Set 1



Special character set setting 2










Special character set setting 3












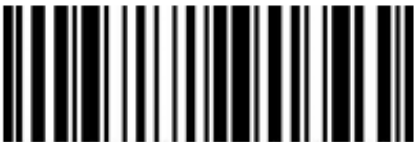






Special Character Set 4

# Control character table

Decim al system	ASCI I	Characte r Set 0	Characte r Set 1	Characte r Set 2	Characte r Set 3	Characte r Set 4	Code Settin g
1	SOH	NULL	Home	Ctrl+A	Alt+001	Small keyboard return car	 %%01
2	STX	Ctrl+B	End	Ctrl+B	Alt+002	Cap Lock	 %%02
3	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003	Right Arrow	 %%03
4	EDT	* Custom button # 1	Down Arrow	Ctrl+D	Alt+004	Up Arrow	 %%04
5	ENQ	* Custom key button # 2	Left Arrow	Ctrl+E	Alt+005	NULL	 %%05
6	ACK	* Custom key button	Right Arrow	Ctrl+F	Alt+006	NULL	 %%06

7	BEL	* Custom push button # 4	Shift +Tab	Ctrl+G	Alt+007	Enter	 %%07
8	BS	Back Space	Back Space	Back Space	Alt+008	Left Arrow	 %%08
9	HT	Tab	Tab	Tab	Alt+009	Tab	 %%09
10	LF	Enter	Enter	Ctrl+J	Alt+010	Down Arrow	 %%0A
11	VT	NULL	NULL	Ctrl+K	Alt+011	Tab	 %%0B
12	FF	NULL	NULL	Ctrl+L	Alt+012	delete	 %%0C
13	CR	Enter	Enter	Enter	Alt+013	Enter	 %%0D









14	S0	F1	Page Up	Ctrl+N	Alt+014	Insert	 %%0E
15	S1	F2	Page Down	Ctrl+O	Alt+015	Esc	 %%0F
16	DLE	F3	F11	Ctrl+P	Alt+016	F11	 %%10
17	DC1	F4	NULL	Ctrl+Q	Alt+017	Home	 %%11
18	DC2	F5	NULL	Ctrl+R	Alt+018	Print Screen	 %%12
19	DC3	F6	NULL	Ctrl+S	Alt+019	Back Space	 %%13
20	DC4	F7	NULL	Ctrl+T	Alt+020	Shift tab	 %%14
21	NAK	F8	F12	Ctrl+U	Alt+021	F12	 %%15









22	SYN	F9	F1	Ctrl+V	Alt+022	F1	 %%16
23	TB	F10	F2	Ctrl+W	Alt+023	F2	 %%17
24	CAN	F11	F3	Ctrl+X	Alt+024	F3	 %%18
25	EM	F12	F4	Ctrl+Y	Alt+025	F4	 %%19
26	SUB	NULL	F5	Ctrl+Z	Alt+026	F5	 %%1A
27	Esc	Esc	F6	Ctrl+[	Alt+027	F6	 %%1B
28	FS	ALT+02 8	F7	Ctrl+\	Alt+028	F7	 %%1C
29	GS	ALT+02 9	F8	Ctrl+]	Alt+029	F8	 %%1D









30	RS	NULL	F9	Ctrl+^	Alt+030	F9	 %%1E
31	US	NULL	F10	Ctrl+_	Alt+031	F10	 %%1F

# Display Character Table





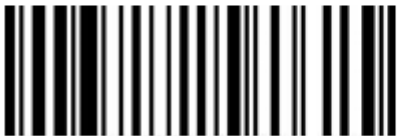



Decimal system	ASCII	Barcode setting
32	Zostaw puste pole	 %%20
33	!	 %%21
34	"	 %%22
35	#	 %%23
36	\$	 %%24
37	%	 %%25









38	&	 %%26
39		 %%27
40	(	 %%28
41	)	 %%29
42	*	 %%2A
43	+	 %%2B
44	,	 %%2C
45	-	 %%2D

46	.	
47	/	
48	0	
49	1	
50	2	
51	3	
52	4	
53	5	









54	<b>6</b>	 %%36
55	<b>7</b>	 %%37
56	<b>8</b>	 %%38
57	<b>9</b>	 %%39
58	<b>:</b>	 %%3A
59	<b>;</b>	 %%3B
60	<b>&lt;</b>	 %%3C
61	<b>=</b>	 %%3D









62	>	 %%3E
63	?	 %%3F
64	@	 %%40
65	A	 %%41
66	B	 %%42
67	C	 %%43
68	D	 %%44
69	E	 %%45









70	<b>F</b>	 %%46
71	<b>G</b>	 %%47
72	<b>H</b>	 %%48
73	<b>I</b>	 %%49
74	<b>J</b>	 %%4A
75	<b>K</b>	 %%4B
76	<b>L</b>	 %%4C
77	<b>M</b>	 %%4D

78	<b>N</b>	 %%4E
79	<b>O</b>	 %%4F
80	<b>P</b>	 %%50
81	<b>Q</b>	 %%51
82	<b>R</b>	 %%52
83	<b>S</b>	 %%53
84	<b>T</b>	 %%54
85	<b>U</b>	 %%55

86	V	 %%56
87	W	 %%57
88	X	 %%58
89	Y	 %%59
90	Z	 %%5A
91	[	 %%5B
92	\	 %%5C
93	]	 %%5D

94	^	 %%5E
95	-	 %%5F
96	`	 %%60
97	<b>a</b>	 %%61
98	<b>b</b>	 %%62
99	<b>c</b>	 %%63
100	<b>d</b>	 %%64
101	<b>e</b>	 %%65

102	<b>f</b>	 %%66
103	<b>g</b>	 %%67
104	<b>h</b>	 %%68
105	<b>i</b>	 %%69
106	<b>j</b>	 %%6A
107	<b>k</b>	 %%6B
108	<b>l</b>	 %%6C
109	<b>m</b>	 %%6D

110	<b>n</b>	 %%6E
111	<b>o</b>	 %%6F
112	<b>p</b>	 %%70
113	<b>q</b>	 %%71
114	<b>r</b>	 %%72
115	<b>s</b>	 %%73
116	<b>t</b>	 %%74
117	<b>u</b>	 %%75

118	<b>v</b>	 %%76
119	<b>w</b>	 %%77
120	<b>x</b>	 %%78
121	<b>y</b>	 %%79
122	<b>z</b>	 %%7A
123	<b>{</b>	 %%7B
124	<b>  true e</b>	 %%7C
125	<b>}</b>	 %%7D

126	~	
127	<b>DEL</b>	
199	Ç	
231	ç	