

User Manual

Wireless QR scanner
with cradle and RFID

HD8100-RF

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Specifications:

- **Warranty:** 2 years
- **Resolution:** 640×480 px
- **Sensor Type:** CMOS
- **Scanning method:** manual (on the button) / automatically (after bringing the code closer)
- **Scan confirmation:** light, sound and vibration
- **Wireless Communication:** 2.4G, Bluetooth
- **Wireless range:** up to 60 m for 2.4G, up to 10 m for Bluetooth
- **RFID Frequency:** 13.56 mHz
- **RFID Tags Read:** ISO15693, ISO/IEC 144434 A & B, Mifare, Sony, FeliCa
- **Tag read rate:** 26 kbps (ISO 15963), 106 kbps (ISO 14443)
- **Tag Reading Distance:** 10 – 30mm
- **Print Contrast:** >20%
- **Operating Voltage:** DC5.0V±5%
- **Maximum current:** 395 mA
- **Battery Capacity:** 2000mAh
- **Charging Time:** 5-7 hours
- **Interface:** USB-B, USB-A
- **Cable length:** 1.5 m
- **Ingress protection:** IP54
- **Drop resistance:** 1 m
- **Operating temperature:** -10°C – 50°C
- **Storage temperature:** -20°C – 70°C
- **Operating Humidity:** 5% – 95%
- **Product dimensions:** 20.5 x 7.3 x 11 cm
- **Package dimensions:** 22.3 x 12 x 10 cm
- **Product weight:** 300 g
- **Weight with packaging:** 1 kg

- **Readable 1D codes:** Code 128, UCC/EAN-128, AIM128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-4, Matrix 2 of 5, Industrial 2 of 5, Standard 25, Code 39, Codabar Code 39, Code 11 itp.
- **Readable 2D codes:** PDF417, QR, (QR1/2, Micro), DataMatrix (ECC200, ECC000, 050, 080, 100, 140), Chinese Sensible Code itp.

Set contents:

- QR and barcode scanner
- Dock
- USB cable to docking station
- Manual

Key features:





- Advanced scan engine for fast scanning of 1D and 2D barcodes, including QR, Datamatrix, from paper labels, LCD and LED/OLED screens
- Built-in memory allows you to save a large number of scanned codes for later transfer to a computer
- Ability to scan codes in automatic mode
- Convenient switch on the housing
- Ability to scan RFID tags at a frequency of 13.56 mHz

Master Control Codes



 Software version

Factory reset

To perform a factory reset, scan the following codes one by one.

Wireless settings





 2.4G (default)	 Bluetooth
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Bluetooth mode settings

The Basic Mode (HID) of the Bluetooth connection configures the scanner to User Interface Device (HID) mode. The scanner will then be discoverable as a keyboard for other Bluetooth devices.

Basic Mode Features:

- No software installation required
- Can be connected to most devices
- The scanner interacts with the host device like a keyboard



 Basic Mode (HID) - Default	 Bluetooth BLE
 Bluetooth SPP	 Deleting the Pairing

To completely unpair Bluetooth from a connected device, scan the **Unpairing** code and the scanner will disconnect from the currently paired device. Next, you should delete the **Netum Bluetooth** name on your device.


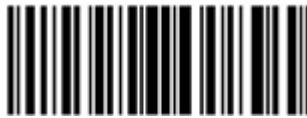
Communication mode settings

By default, the scanner is recognized as an HID keyboard device when the docking station is connected to a computer USB port. Thanks to the Plug & Play interface, no additional drivers are required.

The reader can also be set to virtual serial port mode using the Virtual COM setting.






 <p>USB HID (default)</p>	 <p>Virtual COM</p>
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Code Scan Modes

 <p>Manual mode, push-button (default)</p>	 <p>Auto mode</p>
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Storage mode settings

Storage mode allows scanned barcodes to be stored in the internal memory for later transfer to a computer. In this mode, it is possible to scan codes without the need to communicate with the docking station. Scanned codes are saved and stored in memory. The data is sent to the computer only after the appropriate code is read. In real mode, which is set by default, codes are sent directly to the target device, immediately after scanning. This mode requires a connection to the docking station.

 Real-world mode	 Storage mode
 Data transfer	 Displaying the amount of data stored
 Deleting saved data from memory	







Battery level information

The following code allows you to check the battery level of your device.





 Battery level
--

Sleep time settings


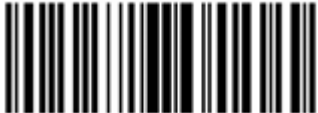
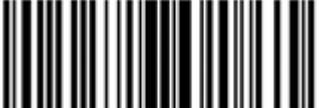

By default, the scanner will go to sleep after 1 minute of inactivity. In order to set a different sleep time, you must first scan the "Disable sleep time module" code.

 Disable the sleep time module	 Turn off sleep mode
 Shut down after 30 seconds	 Shut down after 3 minutes
 Shut down after 10 minutes	 Shut down after 30 minutes

Case settings

 <p>Case Swap Off (Default)</p>	 <p>Converting lowercase to uppercase and uppercase to lowercase (A <->a)</p>
 <p>Capitalization</p>	 <p>Lowercase</p>

End Marks




 <p>No end sign</p>	 <p>CR + LF (default)</p>
 <p>CR</p>	 <p>TAB</p>

Beep settings

 <p>Beep off</p>	 <p>High signal volume</p>
 <p>Medium signal volume level</p>	 <p>Low signal volume</p>

Setting the identification mark of the code being sent

The ID code character identifies the type of barcode scanned. This can be useful when scanning more than one type of code. The code identification character is inserted between the prefix character (if selected) and the decoded symbol.

 <p>Setting an ID code</p>	 <p>Setting the AIM ID code</p>
 <p>No ID code (default)</p>	

ID code symbols:

A=	UPC-A, UPC-E, EAN-8, EAN-13	J=	MSI, MSI/Plessey
B=	Code 39, Code 32	K=	GS1-DataBar, /UCC/EAN-128
C=	Codabar	L=	Bookland EAN, Bookland EAN/ISBN
D=	Code 128, ISBT 128	M=	Trioptic Code 39
E=	Code 93	N=	Coupon Code
F=	Interleaved 2 of 5	R=	GS1 DataBar-14, GS1 DataBar Limited, GS1 DataBar Expanded, RSS
G=	Discrete 2 of 5	S=	SETUP128
H=	CODE11		



r=	PDF417	x=	Maxi Code
u=	Data Matrix(DM)	v=	Veri Code
q=	QR	c=	Han Xin
a=	Aztec Code		

Symbol home AIM:

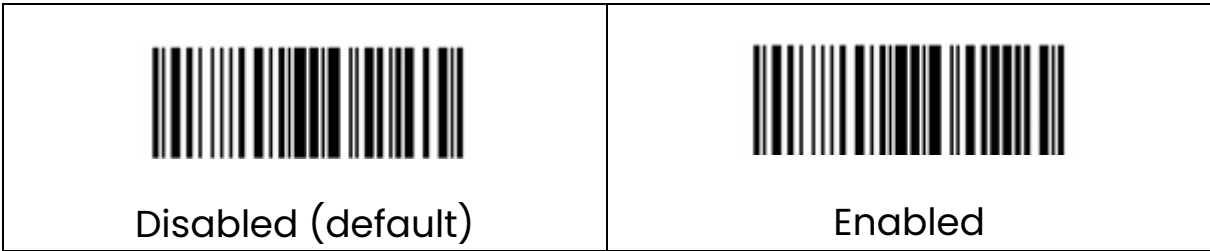
A	Code 39, Code 39 Full ASCII, Code 32	S	Discrete 2 of 5, IATA 2 of 5
C	Code 128, ISBT 128, GS1-128, Coupon (Code 128 portion), Setup128	X	Code 39 Trioptic, Bookland EAN, Han Xin
E	UPC/EAN, Coupon (UPC portion)	e	GS1 DataBar
F	Codabar	L	PDF417
G	Code 93	d	Data Matrix(DM)
H	Code 11	Q	QR
I	Interleaved 2 of 5	z	Aztec Code

Complex code scanning settings

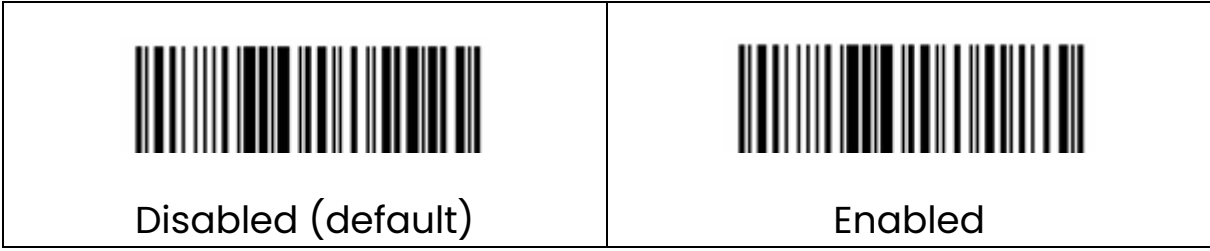
Aztec Code

	
Disabled (default)	Enabled

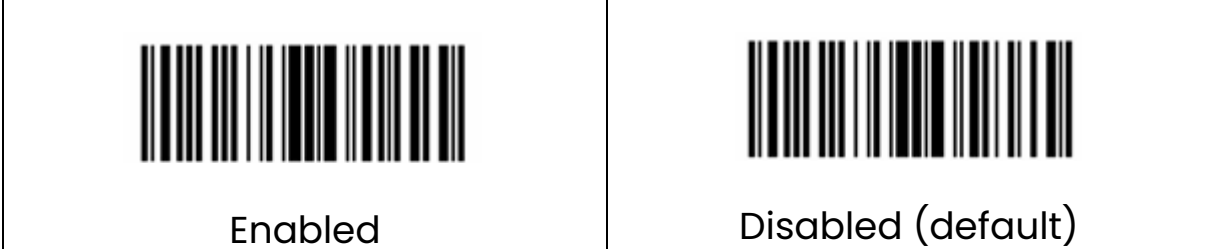
Kod MaxiCode



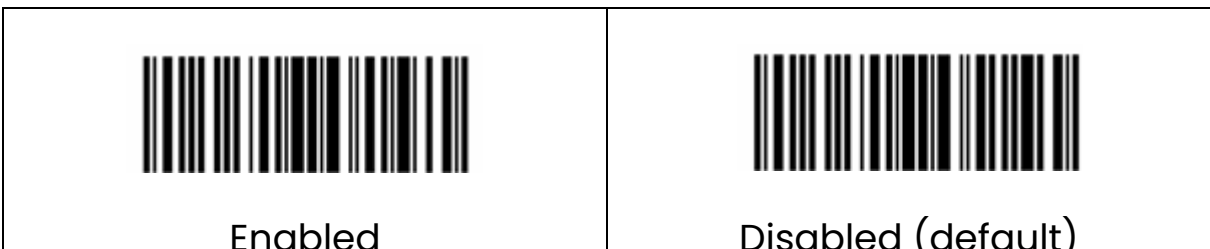
Han Xin Code



Plessey Code



Kod Composite



Prefix and Suffix Setting

















You can add up to 20 prefixes and 20 suffixes to scanned codes for use when editing data. To set these values, scan the two-digit hexadecimal number (e.g. two barcodes) that corresponds to the ASCII values and the numeric barcodes in the appendix at the end of the manual.

To add a prefix or suffix:




1. Scan the **Add Prefix** or **Add Suffix barcode**.
2. Check the hexadecimal value of the prefix or suffix in the ASCII chart.
3. Scan the 2-digit hexadecimal value from the numeric barcode.
4. Repeat steps 2 and 3 for all the prefixes or suffixes you want to add.
5. Scan the output format to enable or disable the prefix/suffix.

 Adding a prefix	 Add a suffix
 Removing all prefixes	 Remove all suffixes

Numeric and alphanumeric codes





 0	 1
 2	 3
 4	 5
 6	 7
 8	 9
 A	 B
 C	 D
 E	 F

Enable prefix/suffix

 Prefix/Suffix Disabled (Default)	 Suffix On
 Prefix Enabled	

Hide prefix or suffix digits

You can hide the leading, middle, or trailing characters of a barcode. After scanning the barcode below, scan the two-digit hexadecimal number whose length you want to hide (00~FF, e.g. hide length 4, scan 0, 4).

 Hide code starting characters	 Hide leading characters from the middle of the code
 Hide the middle characters of your code	 Hide code trails

Appendix 1. ASCII character table

HEX	ASCII	HEX	ASCII	HEX	ASCII	HEX	ASCII
20H	Space	30H	0	40H	@	50H	P
21H	!	31H	1	41H	A	51H	Q
22H	"	32H	2	42H	B	52H	R
23H	#	33H	3	43H	C	53H	S
24H	\$	34H	4	44H	D	54H	T
25H	%	35H	5	45H	E	55H	U
26H	&	36H	6	46H	F	56H	V
27H	'	37H	7	47H	G	57H	W
28H	(	38H	8	48H	H	58H	X
29H	)	39H	9	49H	I	59H	Y
2AH	*	3AH	:	4AH	J	5AH	Z
2BH	+	3BH	;	4BH	K	5BH	[
2CH	,	3CH	<	4CH	L	5CH	\
2DH	-	3DH	=	4DH	M	5DH]
2EH	.	3EH	>	4EH	N	5EH	^
2FH	/	3FH	?	4FH	O	5FH	_
60H	`	70H	p	80H	F1	90H	End

61H	a	71H	q	81H	F2	91H	Page Down
62H	b	72H	r	82H	F3	92H	Right Arrow
63H	c	73H	s	83H	F4	93H	Left Arrow
64H	d	74H	t	84H	F5	94H	Down Arrow
65H	e	75H	u	85H	F6	95H	Up Arrow
66H	f	76H	v	86H	F7	96H	Print Screen
67H	g	77H	w	87H	F8	97H	*Ctrl
68H	h	78H	x	88H	F9	98H	*Shirt
69H	i	79H	y	89H	F10	99H	*Left Alt
6AH	j	7AH	z	8AH	F11	9AH	*Right Alt
6BH	k	7BH	{	8BH	F12	08H	BS
6CH	l	7CH	|	8CH	Insert	09H	HT
6DH	m	7DH	}	8DH	Home	0AH	LF
6EH	n	7EH	~	8EH	Page Up	0DH	CR
6FH	o	7FH	DEL	8FH	Delete	1BH	ESC

Appendix 2. Numeric codes

