User Manual

QR and barcode scanner with docking station

HD4600-LR

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Specifications:

- **Warranty:** 2 years
- **Sensor Type:** CMOS
- **Resolution:** 2688 x 1520 px
- **Light Source:** Aimer, 520nm Green Laser, 2 Illuminating LEDs
- **Scanning method:** manual (push-button)
- **Scan confirmation:** light, sound and vibration
- **Scan Angle:** ±60° tilt, ±60° tilt, 360° rotation
- **Wireless Communication:** 2.4G, Bluetooth
- **Wireless range:** up to 100m for 2.4G, up to 10m for Bluetooth
- **Print Contrast:** ≥30%
- **Operating Voltage:** (3.3V~4.2V) ±5%
- **Maximum current:** 480 mA
- **Battery Capacity:** 2600mAh
- **Charging Time:** 4-6 hours
- **Interfejs:** USB, Virtual COM
- **Cable length:** 1.2 m
- **Ingress Protection:** IP67
- **Drop resistance:** up to 7 meters
- **Operating Temperature:** -30°C-60°C
- **Storage Temperature:** -30°C-70°C
- **Operating Humidity:** 50% - 95%
- **Docking station dimensions:** 16.5 x 11 x 8.5 cm
- **Product dimensions:** 10 x 7 x 17 cm
- **Package dimensions:** 20 x 16 x 12 cm
- **Product weight:** 200 g
- **Weight with packaging:** 500 g
- **Readable 1D barcodes:** Code128,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 25, Standard 25, Code39, Codabar, Code 93, Code 11 itp.

- **Readable 2D codes:** PDF417, QRCode(QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140),Chinese Sensible Code, Aztec, UPCODE

Set contents:

- Cash drawer with money compartments
- Two keys to the lock
- RJ12 plug cable
- Manual

Key features:

- Fast reading of 1D and 2D barcodes, including QR, Datamatrix, Upcode and the Aztec code in the vehicle registration certificate
- Effortlessly scan codes from paper labels, LCD and LED/OLED screens
- Long scanning distance, up to 7 meters
- Built-in memory that allows you to save a large number of scanned codes for later transfer to a computer
- Two types of wireless communication: 2.4G radio communication and Bluetooth

Master Control Codes

Factory reset	Setting Factory Default Settings
Save current settings as default	

After scanning the Factory **Reset code**, the baud rate of the scan unit will be reset to the default value of 9600 and the ENTER key will be disabled.

To restore these settings, scan the codes below one by one.

Baud Rate 19,200
Reverting ENTER as an end character

 1
 0
 1
 3
 Saving settings

Wireless settings

2.4G	Bluetooth HID
Bluetooth SPP	Bluetooth BLE
Deleting the Pairing	

Beep settings

Beep on (default) after successful read	Beep after successful reading off

Beep on startup (default)	Beep during startup off

Tone of beep

 Low frequency	 Average frequency (default)
 High frequency	

Beep Volume

 Low volume	 Medium Volume
 High Volume (default)	

Beep duration

 Short	 Medium (default)
 Long	

Light signal settings

Power off when LED is turned off – after scanning this code, the decode LED remains on for about 1.5 seconds, and then the scanner enters a low power mode.

LED On When Power Off – After scanning this code, the Decode LED remains on until the scanner enters Low Power Mode. This allows the scanner to quickly enter low-power mode, but at the same time, the decode LED lights up.

LED Off Completely – When this code is scanned, the LED is completely off.

Power off when LED is turned off	LED on when power off
LED light completely off	

Low Power Mode Setting

Low Power Mode Off	Low Power Mode Enabled (Default)

Setting the time to decode the barcode

It is possible to set the decode processing time when scanning is attempted. It is programmable in 0.1 second increments from 0.5 to 9.9 seconds. The default timeout is 9.9 seconds. To set the decode session timeout, scan the **Decode Session Timeout code** followed by the two numeric barcodes from the

Numeric codes at the end of the instructions that correspond to the desired switch-on time.

For example, to set the decode session timeout to 0.5 seconds, you need to scan the numeric codes 0 and 5. To correct an error or change your selection, scan Cancellation.

Decode session timeout

Setting the Scan Time for a Recurring Code

The scanner allows you to set the time when a repeated barcode will not be scanned. The timeout starts when you remove the symbol from view.

To set a timeout between readings of the same code, which is available in 0.1-second increments from 0.0 to 9.9 seconds, scan the Time **Between Repeating Code Scans code,** followed by the two numeric barcodes in the **Numeric Codes attachment** that correspond to the desired interval. The default interval is 0.6 seconds.

Timeout between scanning repeated code

Setting the scan time of different codes

Similarly, it is also possible to set the time in which the scanner will scan different barcodes. The default is 0.2 seconds.

Time limit between scanning different codes

Prefix and Suffix Settings

A prefix and/or one or two suffixes can be added to the scanned data for use when editing the data. To set a value for a prefix or suffix, scan the Prefix or Suffix 1/ Suffix2 barcode, and then read the four numeric barcodes that correspond to that value in sequence (from the Numeric Codes appendix). The first digit defines the key category (the type of character to send) and is stored in the key category parameter. The remaining three digits specify the character value and are stored in the decimal value parameter. To correct the error or change the selection, you can scan the Cancellation code.

Prefix setting	Setting 1 suffix
2 Suffix Setting	

Interface settings

HID Keyboard	Virtual COM

Case settings

No case conversion	Capitalization
Lowercase	

Bitrate settings

9600 (default)	19200
38400	57600
115200	230400
460800	921600

1D barcode scanning settings

Kod Discrete 2 of 5 (DTF)

Enabled	Disabled (default)

Codabar (NW - 7)

Enabled	Disabled (default)

MSI

Enabled	Disabled (default)

Chinese 2 of 5

Enabled	Disabled (default)

Matrix 2 of 5

Enabled	Disabled (default)

US Postnet

Enabled	Disabled (default)

US Planet

Enabled	Disabled (default)

UK Postal

Enabled	Disabled (default)

Japan Postal

Enabled	Disabled (default)

Australia Post

Enabled	Disabled (default)

GS1 Databer Limited

Enabled	Disabled (default)

Composite CC-C

Enabled	Disabled (default)

Composite CC-A/B

Enabled	Disabled (default)

2D Code Scan Settings

MicroPDF417

 Enabled	 Disabled (default)

Maxicode

 Enabled	 Disabled (default)

Appendix 1. Numeric codes

0

1

2

3

4


5


6


7


8


9

Annulment

Appendix 2. ASCII character table

ASCII Value	Full ASCII Code 39 Encode Char	Keystroke
1000	%U	CTRL 2
1001	$A	CTRL A
1002	$B	CTRL B
1003	$C	CTRL C
1004	$D	CTRL D
1005	$E	CTRL E
1006	$F	CTRL F
1007	$G	CTRL G
1008	$H	CTRL H/**BACKSPACE**[1]
1009	$I	CTRL I/**HORIZONTAL TAB**[1]
1010	$J	CTRL J
1011	$K	CTRL K
1012	$L	CTRL L
1013	$M	CTRL M/**ENTER**[1]
1014	$N	CTRL N
1015	$O	CTRL O

1016	$P	CTRL P
1017	$Q	CTRL Q
1018	$R	CTRL R
1019	$S	CTRL S
1020	$T	CTRL T
1021	$U	CTRL U
1022	$V	CTRL V
1023	$W	CTRL W
1024	$X	CTRL X
1025	$Y	CTRL Y
1026	$Z	CTRL Z
1027	%A	CTRL [
1028	%B	CTRL \
1029	%C	CTRL]
1030	%D	CTRL 6
1031	%E	CTRL -
1032	Space	Space
1033	/A	!
1034	/B	"
1035	/C	#
1036	/D	$
1037	/E	%
1038	/F	&
1039	/G	'
1040	/H	(
1041	/I	)
1042	/J	*
1043	/K	+
1044	/L	,

1045	-	-
1046	.	.
1047	/o	/
1048	0	0
1049	1	1
1050	2	2
1051	3	3
1052	4	4
1053	5	5
1054	6	6
1055	7	7
1056	8	8
1057	9	9
1058	/Z	:
1059	%F	;
1060	%G	<
1061	%H	=
1062	%I	>
1063	%J	?
1064	%V	@
1065	A	A
1066	B	B
1067	C	C
1068	D	D
1069	E	E
1070	F	F
1071	G	G
1072	H	H
1073	I	I

1074	J	J
1075	K	K
1076	L	L
1077	M	M
1078	N	N
1079	O	O
1080	P	P
1081	Q	Q
1082	R	R
1083	S	S
1084	T	T
1085	U	U
1086	V	V
1087	W	W
1088	X	X
1089	Y	Y
1090	Z	Z
1091	%K	[
1092	%L	\
1093	%M	]
1094	%N	^
1095	%O	_
1096	%W	`
1097	+A	a
1098	+B	b
1099	+C	c
1100	+D	d
1101	+E	e
1102	+F	f

1103	+G	g
1104	+H	h
1105	+I	i
1106	+J	j
1107	+K	k
1108	+L	l
1109	+M	m
1110	+N	n
1111	+O	o
1112	+P	p
1113	+Q	q
1114	+R	r
1115	+S	s
1116	+T	t
1117	+U	u
1118	+V	v
1119	+W	w
1120	+X	x
1121	+Y	y
1122	+Z	z
1123	%P	{
1124	%Q	|
1125	%R	}
1126	%S	~