Hamlet

1D BARCODE SCANNER
360 OMNIDIRECTIONAL

FOR LINEAR CODES

USER MANUAL

HBCS1D360

www.hamletcom.com

Dear Customer,
thanks for choosing an Hamlet product. Please carefully follow the instructions for its use and maintenance and, once this item has run its life span, we kindly ask You to dispose of it in an environmentally friendly way, by putting it in the separate bins for electrical/electronic waste, or to bring it back to your retailer who will collect it for free.

We inform You this product is manufactured with materials and components in compliance with RoHS Directive 2011/65/EU, WEEE Directive 2002/96/CE, 2003/108/CE Italian Legislative Decree 2005/151 and EMC Directive 2014/30/EU for the following standards:
EN 55022: 2010 + AC: 2011
EN 55024: 2010 + A1: 2015
EN 61000-3-2: 2014
EN 61000-3-3: 2013

The complete CE declaration of conformity of the product can be obtained by contacting Hamlet at info@hamletcom.com.
Visit www.hamletcom.com for complete information on Hamlet products and to access downloads and technical support.
Imported by: CARECA ITALIA SPA - Scandiano (RE) . Italy

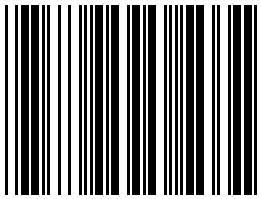
Laser Devices
Hamlet products using lasers comply with IEC 60825-1, EN 60825-1: 2014. The laser classification is marked on one of the labels on the product. Class 1 Laser devices are not considered to be hazardous when used for their intended purpose.
The following statement is required to comply with US and international regulations:
Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.
Class 2 Laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 Laser is not known to be harmful.
In accordance with Clause 5, IEC 60825 and EN 60825, the following information is provided to the user:
CLASS 1: CLASS 1 LASER PRODUCT
CLASS 2: VISIBLE LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT

1. Introduction

1.1 Scanner Setting Steps

In order to change the scanner settings, please follow the steps below:
1. Scan the “Enter/Exit Programming Mode” barcode.
   There will be 2 beeps (low-high) indicating ready to make settings.
2. Scan barcodes for the desired feature (1 beep).
3. Scan the “Enter/Exit Programming Mode” barcode again to save configuration.
   There will be 2 beeps (long-short) indicating successful settings.

Example: Set serial port parameter: 9600, 8,0, 1
1. Scan “Enter/Exit Programming Mode” barcode.
2. Scan “Baud 9600” > Databit 8 bit > Parity Stop 1 bit
3. Scan “Enter/Exit Programming Mode” barcode.



Enter/Exit Programming Mode

Note:
- Check the latest firmware for the barcode scanner on hamletcom.com website.
- “Obligate” is used for user-defined setting.
- The information contained herein is subject to change without prior notice.

Default Function Setting

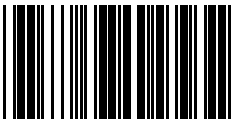
List	Item	Function	Default
1	Trigger Method		Manual
2	Interface		*Auto
3	KB/USB	Keyboard language	American keyboard
4		Function Keyboard	Enable
5		Number Key Enable	Disable
6		ignore Capital Lock	Not ignore
7		Keyboard Clock	10K(Low)
8	RS-232	Baud Rate	9600
9		Data Bit	8
10		Parity Bit	None
11		Stop Bit	1
12		Handshake Protocol	None
13		Enable Serial Port Setting	NO
14		Allow serial port trigger decode	NO
15		Serial Port Setting prompt	NO
16	Data Edited	End Charactor	Enter(0x0d)
17		Case Conversion	NO Case
18		Data Convert	No Convert
19		Code ID	Close
20		Data Intercept	Transmission All
21		Prefix/Suffix for all	NO
22		Decode length limited for all	NO
23		Character Delay	NO
24		Strings Delay	NO
25	Sound Setting	Decode Success Tone	Mid tone,Mid length
26		Start up warning tone	ON
27	Other Setting	Repeat	None
28		Inverse	Disable
29		Auto-Induction	Enable

*Note:Auto judge interface,the device can auto judge it is KBW,USB-HID or RS-232.If use USB-COM,must set “RS232/USB-COM”

TYPES	Read	Verify check	Transmit checking digt	Minimun length	Maxnimun length	ID
Industrial 2 of 5	N	N	N	4	64	A
Standard 2 of 5	N	N	N	4	64	B
MatriX 2 of 5	N	N	N	6	64	C
Chinese Postal 2 of 5	N	N	N	6	64	D
Interleave 2 of 5	YES	N	N	6	64	E
Code 11	N	YES	N	4	64	F
Codabar	YES	N	N	4	64	G
Code MSI	N	YES	N	4	64	H
Code UK	YES	YES	N	1	64	I
Code39	YES	N	N	1	64	J
Code32	N	N	N	8	8	N
Code93	YES	YES	N	1	64	K
EAN-13	YES	YES	N	13	13	Q
UPC-A	YES	YES	YES	12	12	O
EAN-8	YES	YES	YES	8	8	R
UPC-E	YES	YES	YES	7	7	P
Code128	YES	YES	N	1	100	L
RSS Truncated	YES	N	N	14	14	S
RSS Limited	YES	N	N	14	14	T
RSS Expanded	YES	N	N	1	74	M
Gray Background is Default						

2、 General Setting

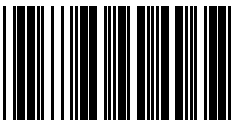
2.1 Default Setting



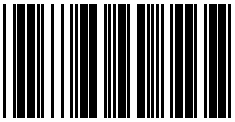
Factory Default

“*” is Default Setting

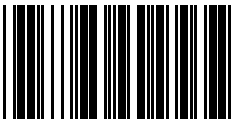
2.2 Interface



*AUTO

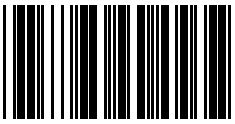


KB/USB-HID

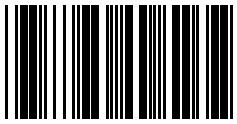


RS-232/USB-COM

(USB-COM need a drive, and must setting this barcode)



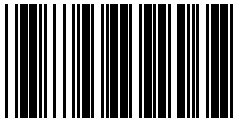
obligate 1



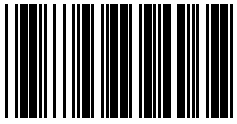
obligate 2

2.3 Keyboard Setting

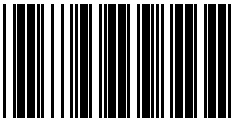
2.3.1 Function Selection



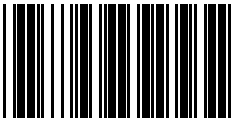
*Enable Function Key



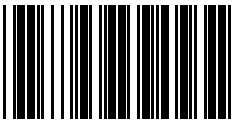
Disable Function Key



Enable Num Lock

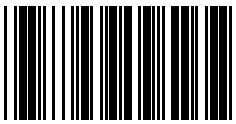


*Disable Num Lock



Enable Caps Lock

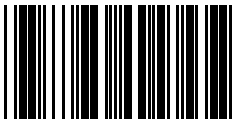
(Disable Caps Lock Control)



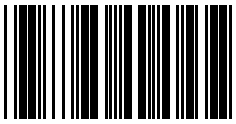
*Disable Caps Lock

(Enable Caps Lock Control)

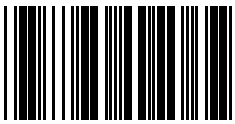
2.3.2 Keyboard language



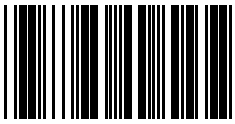
*USA



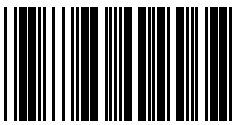
France



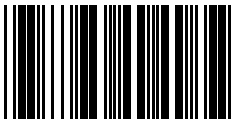
Germany



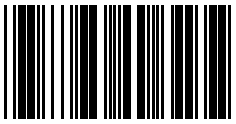
UK



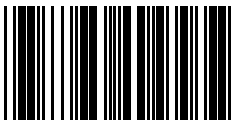
Turkey-Q



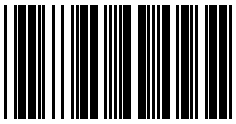
Denmark



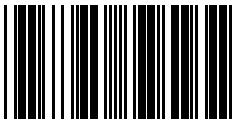
Japan



Spain(International)



Italy



Universal Language

2.3.3 Keyboard Clock

*10K

20K

30K

2.4 RS-232 Mode

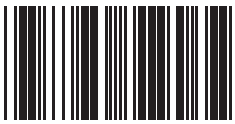
2.4.1 Baud Rate

1200

2400

4800

*9600



14400

19200

28800

38400

57600

115200

2.4.2 Data Bit

7bit

*8bit

2.4.3 Parity Bit

*None

ODD

EVEN

Obligate 1

Obligate 2

2.4.4 Stop Bit

1Bit

2Bit

2.4.5 Handshake Protocol

NAK ON

*NAK OFF

XON/XOFF ON

XON/XOFF OFF

RTS/CTS ON

*RTS/CTS OFF

Handshake Delay

Example: Set Handshake delay is 150ms, Delay T=N*10, 150ms=N*10, N=15
Scan “Ente/Exit Programming Mode”
“Handshake Delay”,“0”, “1”, “5”,
“Ente/Exit Programming Mode”

XON:0X11
XOFF:0X13
ACK:0X0
NAK:0X15

2.4.6 Serial Port other Function

3、 Function Setting

3.1 Sound Setting

3.1.1 Sound on-off and Length Setting

Scanner Start-up ON

Scanner Start-up OFF

Short Tone

* MID Tone

Long Tone

Setting as Custom Sound

Custom Sound Setting(0.01-2.55s)

Example: Set custom sound length as 200ms.
T=n*10 T=200=20*10 so n=20
In proper order scan: “Start Setting”, “Setting as Custom Sound”, “Custom Sound Setting”, “0”, “2” “0”, “End Setting”

3.1.2 Tune

3.2.2 Ending Character

3.2 Data Setting

3.2.1 Prefix and Suffix

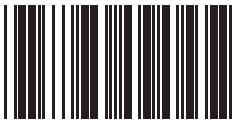
Prefix For All

Suffix For All

Example: Set prefix "SN" for all
Scan” Start Setting”,“Prefix For All”,“S”,
“N”,“Prefix For ALL”,“End Setting”

None

Tab (0X0D+0X0A)

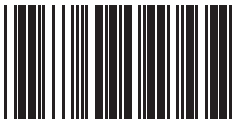


*Enter (0X0D)

Space (0X20)

Return (0X0A)

3.2.3 Data Intercept



*No Intercept

From Left to Right Intercept

From Right To Left Intercept

Data Intercept Start Bit

Data Intercept End Bit

Example: Barcode “0123456”, intercept “234”, that from the third bit to the fifth bit. In order scan “Enter setting”, “Data Intercept Start Bit”, “0”, “0”, “3”, “Data Intercept End Bit”, “0”, “0”, “5”, “From Left to Right Intercept”, “End Setting”。

3.2.4 Barcode Lenghth Prifix(2 Bit)

Enable

*Disable

3.2.5 Capital Lock

*Original Data

Upper Case

Low Case

Case Swap

3.2.6 Data Inversion

Enable

*Disable

3.2.7 Data Length Limit

Min Length

Max Length

Massage length is used for limited the length that decode. (Accord to the length that decoded)

Example:Set the barcode massage length is 5-10.
Scan “End Setting”, “Min Length”, “0”, “0”, “5”, “Max Length”, “0”, “1”, “0”, “End Setting”。
When set ok, length less than 5 and length greater than 10 will can not decoded.

3.2.8 Code ID

Enable

Disable

Note: Code ID Character Consult the Appendix

3.2.9 AIM Function

3.2.10 Febraban Function

Febraban Enable

*Febraban Disable

3.4 Delay Setting

3.4.1 Same Code Delay

3.4.2 Character Delay

Character Delay (T=N)
(1-255ms)

Character Delay (T=10*N)
(1-2550ms)

3.4.3 Strings Delay

3.5 Arbitrament Setting

4、 Barcode Setting

4.1 Industrial 2 of 5

Enable

*Disable

Parity

*No Parity

Transmission Parity

*Not Transmission Parity

4.2 Standard 2 of 5

Enable

*Disable

Parity

*No Parity

Transmission Parity

*Not Transmission Parity

4.3 Postal 2 of 5

Enable

*Disable

Parity

*No Parity

Transmission Parity

*Not Transmission Parity

4.4 Interleaved 2 of 5

*Enable

Disable

Parity

*No Parity

Transmission Parity

*Transmission First Code “0”

Not Transmission First Code “0”

4.5 Matrix 2 of 5

Enable

*Disable

Parity

*No Parity

Transmission Parity

*Not Transmission Parity

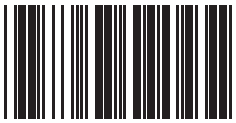
4.6 Codabar

*Enable

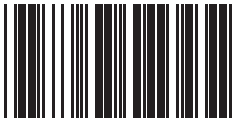
Disable

Parity

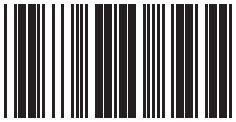
*No Parity



Transmission Parity



*Not Transmission Parity



Transmission the beginning and the end charactor

*Not transmission the beginning and the end charactor

the beginning and the end charactorABCD/ABCD

the beginning and the end charactorABCD/TN*E

4.7 MSI

Enable

*Disable

Parity Number First Charactor

*No Parity

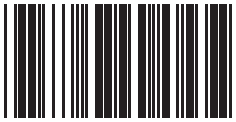
*Parity Number second Charactor

No Parity

Number First Parity MOD11

*Number First Parity MOD10

Number Sceond Parity MOD11



Number Sceond Parity MOD10

Transmission Parity

*Not Transmission Parity

4.8 UK

*Enable

Disable

*Parity

No Parity

Transmission Parity

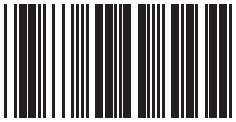
*Not Transmission Parity

4.9 Code 11

Enable

*Disable

Parity Number First Charactor



*No Parity

*Parity Number second Charactor

*Disable

Number First Parity MOD9

*Number First Parity MOD10

Number Sceond Parity MOD9

*Number Sceond Parity MOD10

Transmission Parity

*Not Transmission Parity

4.10 Code 93

*Enable

Disable

Transmission Parity

*Not Transmission Parity

4.11 Code 39

*Enable

Disable

Parity

*No Parity

*Full ascii 39

Standard 39

Transmission Parity

*Not Transmission Parity

Transmission Start/Stop Character “*”

Transmission Start/Stop Character “”

Enable Code 32

*Disable Code 32

Transmission the prefix A of Code 32

*Not Transmission

Transmission Parity Of Code 32

*Not Transmission

4.12 Add-ON Code +2/+5

Enable 2 Add-On Code

*Disable 2 Add-On Code

Enable 5 Add-On Code

*Disable 5 Add-On Code

Enable Addenda Separator

Disable Addenda Separator

4.13 UPC-A

*Enable

Disable

Transmission First Character

Not Transmission First Character

Expand to EAN-13

*Not Expand to EAN-13

*Transmission Parity

Not Transmission Parity

4.14 UPC-E

*Enable

Disable

*Transmission First Code “0”

Not Transmission First Code “0”

Expand to UPC-A

*Not Expand to UPC-A

Expand to EAN-13

*Not Expand to EAN-13

*Transmission Parity

Not Transmission Parity

If enable “Expand to EAN-13” and “Expand to UPC-A”, it will expand to “EAN-13”

4.15 EAN13

*Enable

Disable

*Transmission First Code

Not Transmission First Code

*Transmission Next Code

Transmission Next Code

Enable ISBN

*Disable ISBN

Enable ISSN

*Disable ISSN

Disable

Transmission First Code “0”

*Not Transmission First Code “0”

*Not Forced

434_439 Forced Add-on

*Not Forced

Note:If want use "978_977 Forced Add-On",need enable "8-12" Added-ON first

419_414 Forced Add-on

*Not Forced

491 Forced Add-on

*Not Forced

978_192 Forced Add-on

*Not Forced

*Transmission Parity

Not Transmission Parity

4.16 EAN8

*Enable

Disable

Transmission First Code “0”

*Not Transmission First Code “0”

Expand to UPC-A

*Not Expand

Expand to EAN-13

*Not Expand

*Transmission Parity

Not Transmission Parity

Note: IF enable “Expand to UPCA”&“Expand to EAN13”,it will expand to EAN13

4.17 Code 128

*Disable

Enable UCC 128

*Disable UCC 128

Transmission Parity

*Not Transmission Parity

4.18 GS1

*Enable GS1

Disable GS1

*Enable RSS14

Disable RSS14

*Enable AI_RSS14

Disable AI_RSS14

*RSS14 Transmission Parity

RSS14 Not Transmission Parity

*Enable Limite

Disable Limite

*Enable AI_Limite

Disable AI_Limite

*Limite Transmission Parity

Limite not Transmission Parity

*Enable Expanded

Disable Expanded

4.19 Image Reverse

ON
(Can not decode layer bar code)

*OFF

5、 Version

Verrsion

Obligate 1

Obligate 2

Obligate 3

Obligate 4

Obligate 5

6、 Appendix

6.1 Pin Definition

PIN	Function
1	TXD
2	RXD
3	RTS
4	GND
5	PC_DATA/D+
6	PC_CLK/D-
7	VCC_5V
8	KB_CLK
9	KB_DATA
10	CTS

Note: JACK is a external power supply
(Has changed to 5V DC/300mA)

6.2 ASCII Table

ASCII	HEX	DEC	ASCII	HEX	DEC
NUL	00	0	SP	20	32
SOH	01	1	!	21	33
STX	02	2	"	22	34
ETX	03	3	#	23	35
EOT	04	4	$	24	36
ENQ	05	5	%	25	37
ACK	06	6	&	26	38
BEL	07	7	'	27	39
BS	08	8	(	28	40
HT	09	9	)	29	41
LF	0A	10	*	2A	42
VT	0B	11	+	2B	43
FF	0C	12	,	2C	44
CR	0D	13	-	2D	45
SO	0E	14	.	2E	46
SI	0F	15	/	2F	47
DLE	10	16	0	30	48
DC1	11	17	1	31	49
DC2	12	18	2	32	50
DC3	13	19	3	33	51
DC4	14	20	4	34	52
NAK	15	21	5	35	53
SYN	16	22	6	36	54
ETB	17	23	7	37	55
CAN	18	24	8	38	56
EM	19	25	9	39	57
SUB	1A	26	:	3A	58
ESC	1B	27	;	3B	59
FS	1C	28	<	3C	60
GS	1D	29	=	3D	61
RS	1E	30	>	3E	62
US	1F	31	?	3F	63

ASCII	HEX	DEC	ASCII	HEX	DEC
@	40	64	`	60	96
A	41	65	a	61	97
B	42	66	b	62	98
C	43	67	c	63	99
D	44	68	d	64	100
E	45	69	e	65	101
F	46	70	f	66	102
G	47	71	g	67	103
H	48	72	h	68	104
I	49	73	i	69	105
J	4A	74	j	6A	106
K	4B	75	k	6B	107
L	4C	76	l	6C	108
M	4D	77	m	6D	109
N	4E	78	n	6E	110
O	4F	79	o	6F	111
P	50	80	p	70	112
Q	51	81	q	71	113
R	52	82	r	72	114
S	53	83	s	73	115
T	54	84	t	74	116
U	55	85	u	75	117
V	56	86	v	76	118
W	57	87	w	77	119
X	58	88	x	78	120
Y	59	89	y	79	121
Z	5A	90	z	7A	122
[	5B	91	{	7B	123
\	5C	92	|	7C	124
]	5D	93	}	7D	125
^	5E	94	~	7E	126
–	5F	95	DEL	7F	127

6.3 ASCII Setting Barcode

SOH

STX

ETX

EOT

ENQ

ACK

BEL

BS

HT

LF

VT

FF

CR

SO

SI

DLE

DC1

DC2

DC3

DC4

NAK

SYN

ETB

CAN

EM

SUB

ESC

FS

GS

RS

US

SPACE

!

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X

Y

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`

a

b

c

d

e

f

g

h

i

j

k

l

m

n

o

p

q

r

s

t

u

v

w

x

y

z

{

|

}

~

6.4 Function Keyboard Setting Barcode

F1(@A)

F2(@B)

F3(@C)

F4(@D)

F5(@E)

F6(@F)

F7(@G)

F8(@H)

F9(@I)

F10(@J)

F11(@K)

F12(@L)

HOME(&A)

END(&B)

Cursor Right(&C)

Cursor Left(&D)

Cursor Up(&E)

Cursor Down(&F)

PgUp(&G)

PgDn(&H)

TAB(&I)

Back TAB(&J)

ESC(&K)

ENTER(&L)

Insert(&M)

Delet(&N)

Return(&O)

CTRL ON(&P)

CTRL OFF(&Q)

ALT ON(&R)

ALT OFF(&S)

SHIFT ON(&T)

SHIFT OFF(&U)

WIN （&V）

HOME （&W）

END（&X）

6.5 Numerical Table

0

1

2

3

4

5

6

7

8

9