

USER GUDIE

About This User Guide

Please read all the content of the user guide carefully to use the products safely and effectively. You are advised of keeping it properly for your using reference.

Disclaimer

Please do not dismantle the product or tear up the seal on it, otherwise we won't provide warranty or replacement service.

The pictures in this user guide are for reference only. If there are any pictures which not match the actual product, please take actual products as the standard. Updated information is subject to change without notice.

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Service Information

If you need more technical support, please call or email us, we are happy to serve you.

Version Record

Version number	Version description	Version date
	Initial version	2019-8-7

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1. Product Introduction

In this chapter, we will introduce the instruction of scanner with pictures, please compare to the scanner you bought when reading this user guide, which is good for your understanding. This chapter applies to regular users, maintenance personnel, and software developers.

1.1 Main feature

- * Complete independent research and development, possessing the complete set of patent, plug and play without the need to install driver.
- * Wide voltage design to avoid the data can't be transmitted due to voltage fluctuation.
- * 32-bit master chip equipped with patented software, the scanner can smoothly decode reflective, wrinkled, blurred, and colorful barcode, and can also normally scan in light and dark environment.
- * Adopt all tantalum capacitors and anti-oxidation optical technology, avoiding the problem of sensitivity declining after long-term using.

1.2 Unpack your device

After you open the shipping carton containing the product, take the following steps:

- Take out the accessories from package.
- Check with the packing list to see if everything is complete and in good condition.
- If there are any damaged or missing components, please keep the original package and contact your supplier for after-sales service.

1.3 Communication port

1.3.1 USB cable



1: Connect the device interface end of USB data line with the product;

2: Connect the host interface (USB interface) of USB data cable to the host.

1.4 Barcode preset parameters

Symbologies	read	check	transmission	Suffix/Prefix	Min length	Max length	CODE ID
EAN13	√	√	√	X	13		d
EAN8	√	√	√	X	8		c
UPC A	√	√	√	X	12		e
UPC E	√	√	√	X	8		f
UPC/EAN 2Add-on	X	X	X	X			
UPC/EAN 5Add-on	X	X	X	X			
ISBN	-	√	√	X	8	60	d
ISSN	-	√	√	X	8	60	d
CODABAR (NW-CODE 39	√	X	X	-	4	60	v
CODE 93	√	√	-	X	1	80	i
INTERLEAVED	√	X	X	X	4	80	n
Industrial 2 of 5	√	X	X	X	3	80	o
Standard 2 of 5	X	X	X	X	7	80	p
GS1-128	√	X	X	X	3	60	a
MATRIX 2OF5	√	X	X	X	3	80	q
CODE 128	√	√	-	X	1	80	a
Code 32	-	X	X	X	9	80	m
CODE 11	√	√	√	X	4	80	u
Pleesy	X	X	X	X	4	50	t
MSI Pleesy	-	X	X	X	5	50	s
GS1 DataBar Limited	X	X	X	X	15	60	k
GSI Databar Omnidirectional	-	X	X	X	15	60	j
China Post	-	X	X	X	7	80	r
All Symbologies							@

Note:

1. "√" indicates that the default parameter is on, "-" indicates that the default parameter is off, "x" indicates that the parameter does not exist in the barcode type;
2. Mark "2" in the upper right corner of the minimum / large length to indicate that the bar code length is fixed;

1.5 Start-up, shutdown and restart

Start-up: Connect host computer with scanner, which will automatically start-up and in working state.

Shutdown: Remove the data cable which is connected with scanner; remove the USB which is connected with host computer.

Restart: If the scanner crashes or doesn't respond, please switch it off and restart.

1.6 Maintenance

* The window must be kept clean, the supplier do not bear the guarantee responsibility due to the improper maintenance.

* Avoid the window being wear and tear or scratched by hard object

* Use the hairbrush to remove the stain on the window

* Clean the window with a soft cloth, such as lens cleaning cloth

* Spraying liquid onto the window is prohibited.

* Prohibit any cleaning solvents, except for the cleaning water.

1.7 Reading skills

If the barcode is small, it should be closer to the scanning window; if the barcode is large, it should be far away from the scanning window a little more, thus easier to be read

correctly.

If the barcode is highly reflective (for example, the coated surface), you may need to tilt the barcode at an angle to successfully scan it.

Barcode scanning example:



2.System setting

Option and function setting mainly through reading a series of special barcodes. In this chapter, we will provide you a detailed introduction of the options and functions available for user setting, and the corresponding setup code.

This method of setting the scanning is direct, easy to understand and user friendly.

2.1 Setting barcode explanation



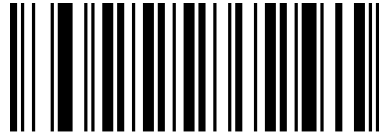
2.2 Use setting barcode

All barcode scanners have a factory default setting. Reading the “Restore Defaults” barcode scanners will restore all the property settings of the bar code to the factory state.

You are most likely to use this barcode in the following situations:

1. The barcode scanner setting error occurs, if the barcode is not recognized.
2. You forgot what settings you have made to the barcode before, but you don't want to use the previous settings.
3. After setting up the barcode scanner to use some of the functions that are not commonly used.

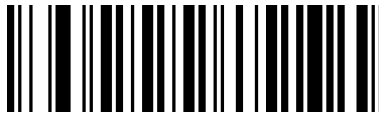
2.2.1 Restore Defaults



000B0

Restore Defaults

2.2.2 Read BOOTLOAD version



000A0

Read BOOTLOAD version

2.2.3 USB-KBW mode



000602 enable USB-KBW mode (default)

2.2.4 TTL/RS232 mode



000601 enable TTL/RS232 mode

2.2.5 enable/disable setting barcode

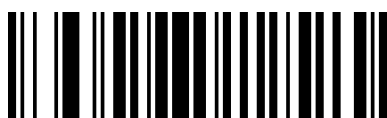


09990 enable setting
barcode (default)



09991 disable setting
barcode

2.2.6 send setting barcode



02501 enable sending
setting barcode



02500 disable sending
setting barcode

2.3 Reading mode



013300 Manual reading mode (default)

2.3.1 Continue reading mode



013304 Continue reading mode

2.3.2 Flashing reading mode



013306
Flashing reading mode
(button on)



013305
Flashing reading mode
(button off)

2.3.3 Key delay single reading mode



013301 Key delay single reading mode



023510 超时 1 秒



023530 超时 3 秒 (default)



0235A0 超时 10 秒



0235F0 超时 15 秒

2.4 decode sound setting



014201 enable good-read beep



014200 disable good-read beep

2.3.1 Buzzer Volume setting



014300 Volume high



014301 Volume low

2.3.2 beeper frequency



0145800 2.0KHZ (default)



0145AAA 2.7KHZ

2.5 upload speed setting



001500 upload speed fast



001502 upload speed middle (default)

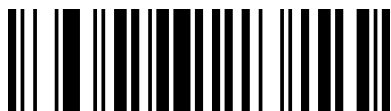


001504 upload speed slow



001506 upload speed slowest

2.6 Inverse code option



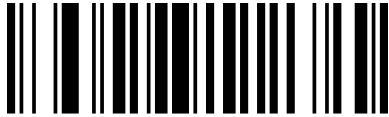
00161 Normal barcode reading (default)



00160 Inverse code reading

3. date setting

3.1 Code ID setting

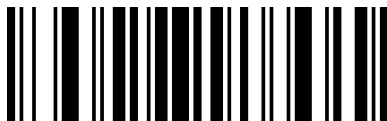


01401 enable sending CODE ID
(default)

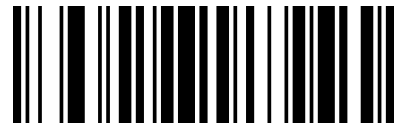


01400 disable sending Code ID

3.2 user-defined prefix/ suffix

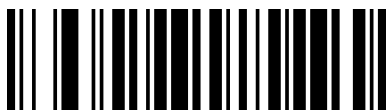


02240 user-defined prefix



02241 user-defined suffix

3.3 clear all prefix/ suffix



02220 clear all prefix



02200 clear all suffix

3.3.1 Exit setting prefix and suffix



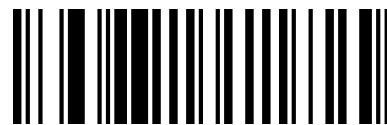
02242 Exit setting prefix
and suffix

3.4 Hidden character

3.3.1 Hide prefix characters



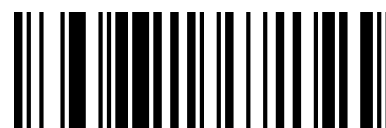
023401 Hide prefix 1
character



023402 Hide prefix 2
characters



023403 Hide prefix 3 characters



023405 Hide prefix 5 characters

3.3.2 Unhide the prefix character



023400 Unhide the prefix character

3.3.3 Hide suffix characters



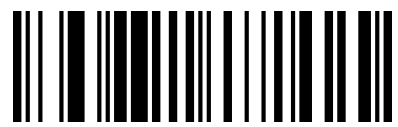
023301 Hide suffix 1 character



023302 Hide suffix 2 characters



023303 Hide suffix 3 characters



023305 Hide suffix 5 characters

3.3.4 Unhide the suffix character



023300 Unhide the suffix character

3.3.5 Hide middle character



024001 The first character begins



024002 The second character begins



024003 The 3rd character begins



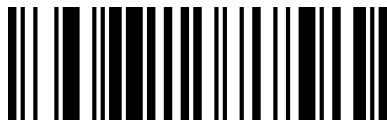
024004 The 4th character begins



024005 The 5th character begins



024006 The 6th character begins



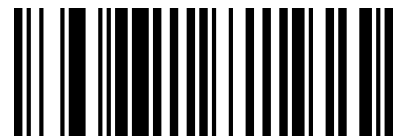
024007 The 7th character begins



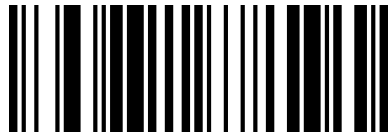
024008 the 8th character begins



023901 Hide the middle 1 character



023902 Hide the middle 2 characters



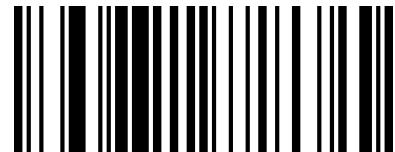
023903 Hide the middle 3 characters



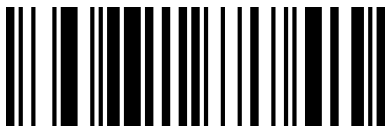
023904 Hide the middle 4 characters



023905 Hide the middle 5 characters



023906 Hide the middle 6 characters



023907 Hide the middle 7 characters



023908 Hide the middle 8 characters

3.3.6 Hide the middle N character

NOTE: Temporarily unavailable

3.3.7 Unhide middle characters



023900 Unhide middle characters

3.5 keyboard layout



0005000 American (default)



0005001 Canada (French)



0005002 Netherlands (Dutch)



0005003 Spain (Spanish-International)



0005004 Argentina (Latin American)



0005005 Brazil (Portuguese)



0005006 Denmark (Danish)



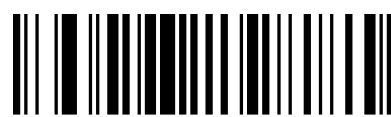
0005007 British (British English)



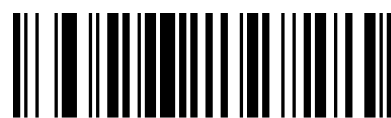
0005008 Italian 142 (Italy)



0005010 Germany (slang)



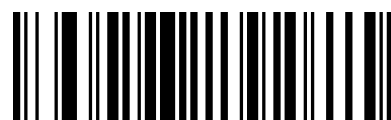
0005009 France (French)



0005011 Norway (Northern Sami)



0005012 Sweden/Finland (Swedish/Finnish)



0005013 Slovakia (Slovak)



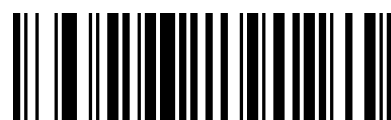
0005014 Portugal (Portuguese)



0005015 Czech Republic (Czech)



0005016 Belgium (Dutch, French)



0005017 Turkish-F



0005018 Turkish-Q



0005019 Poland (Polish 214)



0005020 Italian (Switzerland)



0005021 Croatia (Croatian)



0005022 Hungary (Hungarian)

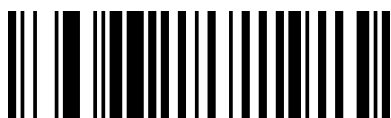


0005023 Japan (Japanese)

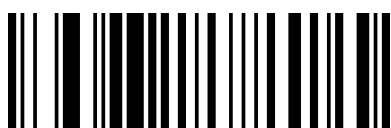


0005024 Russian (MS)

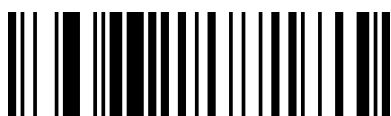
3.6 Baud rate



000702 1200bps



000703 2400bps



000705 9600bps (default)



000704 4800bps



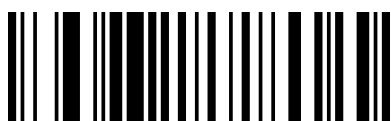
000706 19200bps



000707 38400bps



000708 57600bps



000709 115200bps

3.7 Ending character setting



0212@0D CR (default)



0212@0A LF



0213@0D0A CRLF



0212@09 Tab



0210@ NULL

3.8 Case conversion



02510
Normal (default)

02511
Upper



02512
Lower



02513
Inverse

4. Symbolologies

4.1 UPC-A

4.1.1 UPC-A



000341

Enable UPC-A (default)



000340

Disable UPC-A

4.1.2 UPC-A check bit



00421

Send UPC-A check bit (default)



00420

Don't send UPC-A check bit

4.1.3 System character



00400

Send system character (default)



00401

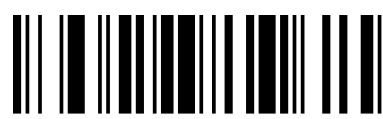
Don't send system character

4.1.4 Extended settings



00391

Enable UPC-A to EAN-13

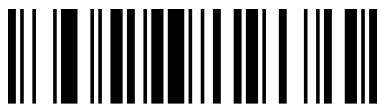


00390

Disable UPC-A to EAN-13 (default)

4.2 UPC-E

4.2.1 UPC-E



00351

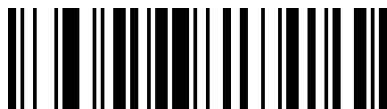
Enable UPC-E (default)



00350

Disable UPC-E

4.2.2 UPC-E check bit



00441

Send UPC-E check bit (default)



00440

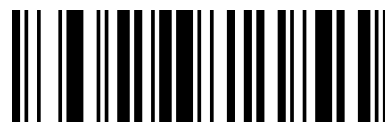
Don't send UPC-E check bit

4.2.3 System character



00430

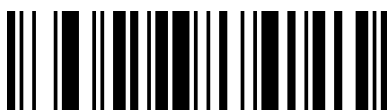
Send system character (default)



00431

Don't send system character

4.2.4 Extended settings



00381



00380

Enable UPC-E to UPC-A

Disable UPC-E to UPC-A (default)

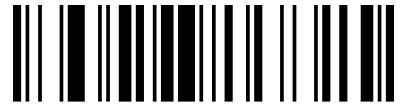
4.3 EAN-8

4.3.1 EAN-8



00371

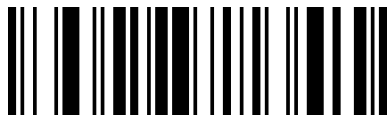
Enable EAN-8 (default)



00370

Disable EAN-8

4.3.2 EAN-8 check bit



00571

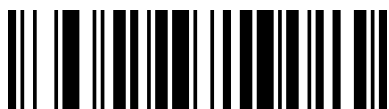
Send EAN-8 check bit (default)



00570

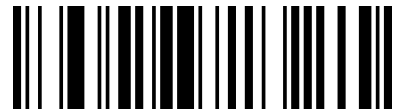
Don't send EAN-8 check bit

4.3.3 System character



00560

Send system character (default)



00561

Don't send system character

4.4 EAN-13

4.4.1 EAN-13



00361

Enable EAN-13 (default)



00360

Disable EAN-13

4.4.2 EAN-13 check bit



00461

Send EAN-13 check bit (default)



00460

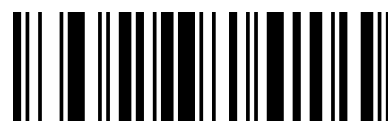
Don't send EAN-13 check bit

4.4.3 Extended settings



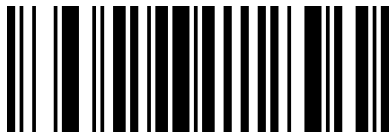
00481

Enable EAN13 to ISBN



00480

Disable EAN13 to ISBN (default)



01501

Enable EAN13 to ISSN



01500

Disable EAN13 to ISSN (default)

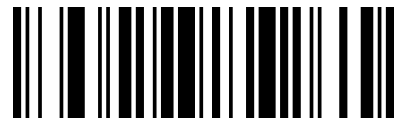
4.5 Code 128

4.4.1 Code 128



00691

Enable Code 128 (default)

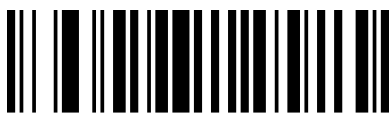


00690

Disable Code 128

4.6 Code 39

4.6.1 Code 39



00221

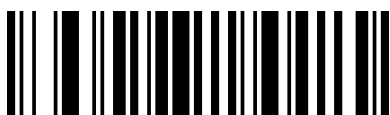
Enable Code 39 (default)



00220

Disable Code 39

4.6.2 ending/start character



00281

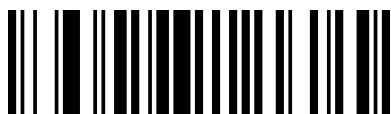
Send ending/start character



00280

Don't send ending/start character (default)

4.6.3 Code 39 Full ASCII



00231

Enable Full ASCII*



00230

Disable Full ASCII

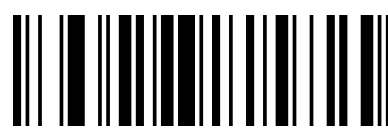
4.7 Code 93

4.7.1 Code 93



00621

Enable Code 93 (default)



00620

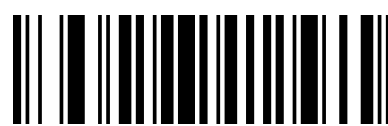
Disable Code 93

4.7.2 Code 93 check bit



01901

Send code 93 check bit



01900

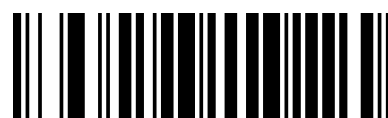
Don't send code 93 check bit (default)

4.8 Code 11

4.8.1 Code 11



01261

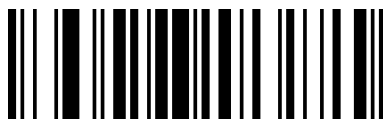


01260

Enable Code 11 (default)

Disable Code 11

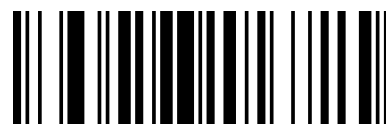
4.8.2 Code 11 check bit



01272 C check (default)



01273 CK check



01271 Automatic CK check

4.9 Interleaved 2 of 5

4.9.1 Interleaved 2 of 5



00961 Enable Interleaved 2 of 5 (default)



00960 Disable Interleaved 2 of 5

4.10 Matrix 2 of 5



01461

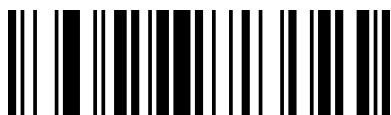
Enable Matrix 2 of 5 (default)



01460

Disable Matrix 2 of 5

4.11 Industrial 2 of 5



01061

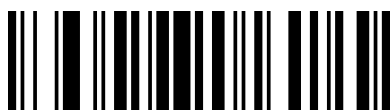
Enable Industrial 2 of 5 (default)



01060

Disable Industrial 2 of 5

4.12 Standard 2 of 5 (IATA)



01871

Enable Standard 2 of 5 (default)

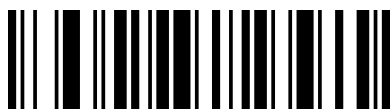


01870

Disable Standard 2 of 5

4.13 Codabar (NW-7)

4.13.1 Codabar



00851

Enable Codabar (default)



00850

Disable Codabar

4.13.2 ending/start character



00861

Send ending/start character



00860

Don't send ending/start character (default)

4.12.3 Plessey

4.12.1 Plessey



01161

Enable Plessey



01160

Disable Plessey (default)

4.13 MSI Plessey



01151

Enable MSI Plessey



01150

Disable MSI Plessey (default)

4.14 GS1 DataBar Limited (RSS Limited)

4.14.1 RSS Limited



01771

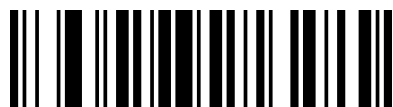
Enable RSS Limited



01770

Disable RSS Limited (default)

4.15 GS1 DataBar Omnidirectional (RSS Omnidirectional)



01671

Enable RSS Omnidirectional



01670

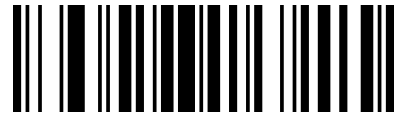
Disable RSS Omnidirectional (default)

4.16 China Post (Datalogic 2 of 5)



01571

Enable China Post



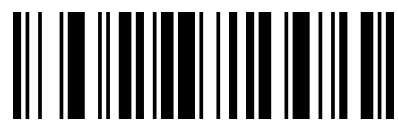
01570

Disable China Post*

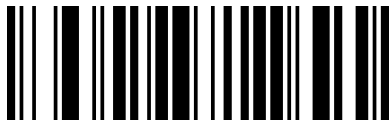
4.17 Additional bit setting



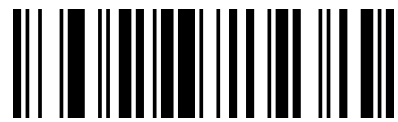
00551 Enable 2 additional bits



00552 Enable 5 additional bits



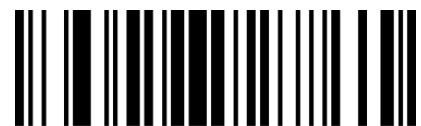
00553 Enable 2 and 5 additional bits



00550 Disable additional bits (default)



02611 Forced to include additional bits



02610 Do not force include additional bits
(default)

Appendix

Appendix 1-Code ID

SN	Symbologies	Code ID	Barcode type code (used by prefix and suffix)
1	All Symbologies	@	00
2	CODE 128	a	01
3	EAN 8	c	03
4	EAN 13	d	04
5	UPC-A	e	05
6	UPC-E	f	06
7	CODE 93	i	09
8	GS1 Omnidirectional	j	0A
9	GS1 Limited	k	0B
10	CODE 39	m	0D
11	Interleaved 2 of 5	n	0E
12	Industrial 2 of 5	o	0F
13	Standard 2 of 5	p	10
14	Matrix 2 of 5	q	11
15	China Post	r	12
16	MSI	s	13
17	Plessey	t	14
18	Code 11	u	15
19	Codabar	v	16

Appendix 2 - Character Table (for adding suffixes and prefix)



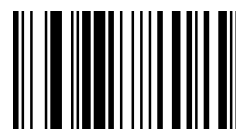
1001

SOH (01)



1002

STX (02)



1003

ETX (03)



1004

EOT (04)



1005

ENQ (05)



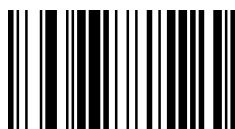
1006

ACK (06)



1007

BEL (07)



1008

Backspace (08)



1009

HT (09)



1010

LF (0A)



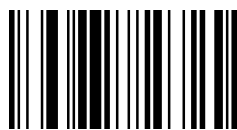
1011

VT (0B)



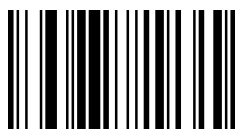
1012

FF (0C)



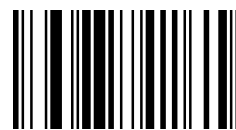
1013

CR (0D)



1014

SO (0E)



1015

SI (0F)



1016

DEL (10)



1017

DC1 (11)



1018

DC2 (12)



1019

DC3 (13)



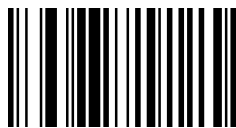
1020

DC4 (14)



1021

NAK (15)



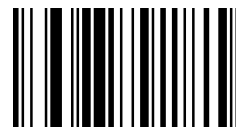
1022

SYN (16)



1023

ETB (17)



1024

CAN (18)



1025

EM (19)



1026

SUB (1A)



1027

ESC (1B)



1028

FS (1C)



1029

GS (1D)



1030

RS (1E)



1031

US (1F)



1032

Space (20)



1033

! (21)



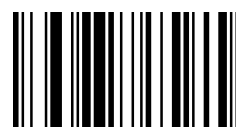
1034

“ (22)



1035

(23)



1036

\$ (24)



1037

% (25)



1038

& (26)



1039

‘ (27)



1040

((28)



1041

) (29)



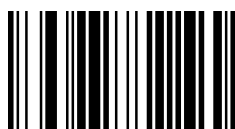
1042

* (2A)



1043

+ (2B)



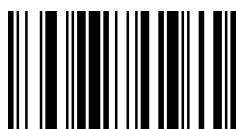
1044

, (2C)



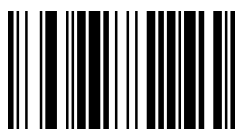
1045

- (2D)



1046

. (2E)



1047

/ (2F)



1048

0 (30)



1049

1 (31)



1050

2 (32)



1051

3 (33)



1052

4 (34)



1053

5 (35)



1054

6 (36)



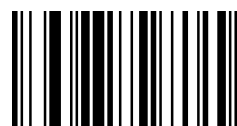
1055

7 (37)



1056

8 (38)



1057

9 (39)



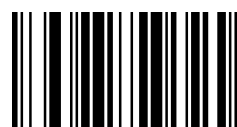
1058

: (3A)



1059

; (3B)



1060

< (3C)



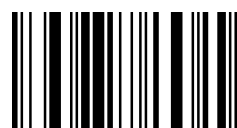
1061

= (3D)



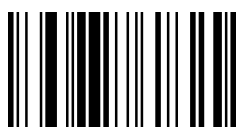
1062

> (3E)



1063

? (3F)



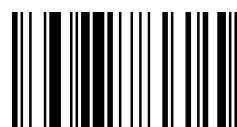
1064

@ (40)



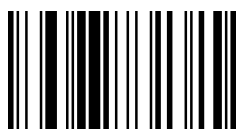
1065

A (41)



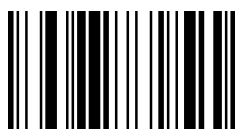
1066

B (42)



1067

C (43)



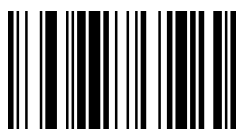
1068

D (44)



1069

E (45)



1070

F (46)



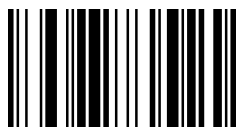
1071

G (47)



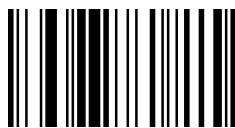
1072

H (48)



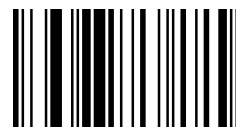
1073

I (49)



1074

J (4A)



1075

K (4B)



1076

L (4C)



1077

M (4D)



1078

N (4E)



1079

O (4F)



1080

P (50)



1081

Q (51)



1082

R (52)



1083

S (53)



1084

T (54)



1085

U (55)



1086

V (56)



1087

W (57)



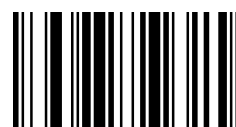
1088

X (58)



1089

Y (59)



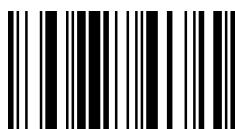
1090

Z (5A)



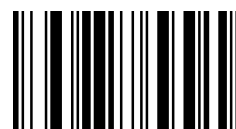
1091

[(5B)



1092

\ (5C)



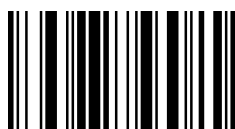
1093

] (5D)



1094

^ (5E)



1095

_ (5F)



1096

` (60)



1097

a (61)



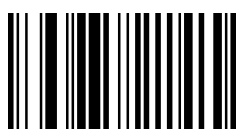
1098

b (62)



1099

c (63)



1100

d (64)



1101

e (65)



1102

f (66)



1103

g (67)



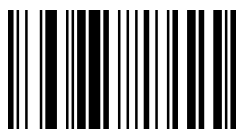
1104

h (68)



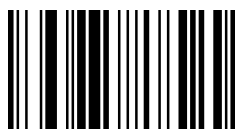
1105

i (69)



1106

j (6A)



107

k (6B)



1108

l (6C)



1109

m (6D)



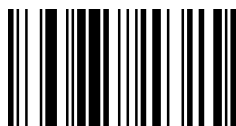
1110

n (6E)



1111

o (6F)



1112

p (70)



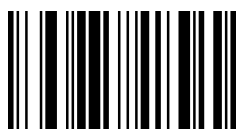
1113

q (71)



1114

r (72)



1115

s (73)



1116

t (74)



1117

u (75)



1118

v (76)



1119

w (77)



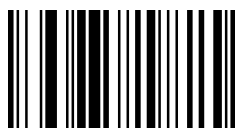
1120

x (78)



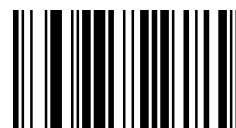
1121

y (79)



1122

z (7A)



1123

{ (7B)



1124

| (7C)



1125

} (7D)



1126

~ (7E)



1127

Delete (7F)

Appendix 3 - ASCII Code Table

Hexadecimal	ASCII value	character
00	00	NUL (Null char.)
01	01	SOH (Start of Header)
02	02	STX (Start of Text)
03	03	ETX (End of Text)
04	04	EOT (End of Transmission)
05	05	ENQ (Enquiry)
06	06	ACK (Acknowledgment)
07	07	BEL (Bell)
08	08	BS (Backspace)
09	09	HT (Horizontal Tab)
0A	10	LF (Line Feed)
0B	11	VT (Vertical Tab)
0C	12	FF (Form Feed)
0D	13	CR (Carriage Return)
0E	14	SO (Shift Out)
0F	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)

18	24	CAN (Cancel)
19	25	EM (End of Medium)
1A	26	SUB (Substitute)
1B	27	ESC (Escape)
1C	28	FS (File Separator)
1D	29	GS (Group Separator)
1E	30	RS (Request to Send)
1F	31	US (Unit Separator)
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	\$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)
29	41) (Right / Closing Parenthesis)
2A	42	* (Asterisk)
2B	43	+ (Plus)
2C	44	, (Comma)
2D	45	- (Minus / Dash)
2E	46	. (Dot)
2F	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2

33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3A	58	: (Colon)
3B	59	; (Semi-colon)
3C	60	< (Less Than)
3D	61	= (Equal Sign)
3E	62	> (Greater Than)
3F	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4A	74	J
4B	75	K
4C	76	L

4D	77	M
4E	78	N
4F	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5A	90	Z
5B	91	[(Left / Opening Bracket)
5C	92	\ (Back Slash)
5D	93] (Right / Closing Bracket)
5E	94	^ (Caret / Circumflex)
5F	95	_ (Underscore)
60	96	' (Grave Accent)
61	97	A
62	98	B
63	99	C
64	100	d
65	101	e
66	102	f
67	103	g

68	104	h
69	105	i
6A	106	j
6B	107	k
6C	108	l
6D	109	m
6E	110	n
6F	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7A	122	z
7B	123	{ (Left/ Opening Brace)
7C	124	(Vertical Bar)
7D	125	} (Right/Closing Brace)
7E	126	~ (Tilde)
7F	127	DEL (Delete)