

User Manual

DT3008



Barcodescanner – DT3008



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Introduction

Thank you for trusting a product from DTRONIC. Please read the contents of the user manual carefully in order to use the products safely and effectively.

You are advised to keep this manual correctly for your installation and as a reference. Please do not disassemble the product or tear off the seal, otherwise we will not provide warranty or replacement service.

The illustrations in this user manual are for reference only. If there are images that do not match the actual product, please take the actual product as standard.

Updated information is subject to change without notice. All information in this manual is copyrighted and our company reserves all rights. It is prohibited to distribute, copy, compile or sell all or part of this manual without our written permission.

DTRONIC is a BOIP registered trademark and legally protected in cooperation with GS1. Diwolar is the only company with the rights to market this trademark. If you have purchased a product that was not purchased through Diwolar, the warranty is void. When contacting customer service always ask for the order number. This user manual applies to DTRONIC barcode scanners that identify barcodes using a laser scan pattern.

DTRONIC is not liable for damages and defects suffered when the barcode scanner fails, does not work properly or is misused.

Do you have any questions about your product? We will be happy to assist you.

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Inhoud

INTRODUCTION	2
1. PRODUCT	5
1.1 Function	5
1.2 Unbox.....	5
1.3 Start	5
1.4 Window.....	5
1.5 Reading	6
1.6 Picture.....	6
1.7 Led indicator	6
2. SYSTEM SETUP	7
2.1 System Setup	7
2.1.1 Setup code.....	7
2.1.2 Restore factory default settings	7
2.1.3 Product User Settings.....	7
2.1.4 Beeper settings.....	8
2.1.5 Set the beep switch	8
2.1.6 Power on beep switch	8
2.1.7 Read success beep switch	9
2.2 Reading mode settings	9
2.2.1 Level trigger mode.....	9
2.2.2 Continuous mode (default)	9
2.2.3 Pulse trigger mode	9
2.2.4 Repeat read switch.....	10
2.2.5 One read timeout	10
2.3 Communication settings.....	11
2.3.1 Communication settings.....	11
2.3.2 USB keyboard	11
2.3.3 USB keyboard sending speed	12
2.3.4 Control Characters.....	13
2.3.5 Serial port baud rate setting.....	13
2.3.6 Serial port parity bit setting.....	14
2.4 Data format setting.....	14
2.4.1 Custom prefix on/off settings.....	15
2.4.2 Customized prefixes	15
2.4.3 Custom suffix on/off settings	16
2.4.4 Custom suffixes	16
2.4.5 Custom ID output method	17
2.4.6 Customize Code ID	17
2.4.7 Terminator settings	18
2.4.8 Case output settings.....	19
2.5 Symbologies.....	19
2.5.1 All barcodes	19
2.5.2 EAN8 Settings	19
2.5.3 EAN 13 settings.....	20
2.5.4 Code 39 Settings.....	20
2.5.5 Code 39 Length Setting	21
2.5.6 Code 128 settings	22
2.5.7 Code 128 length setting	22

2.5.8 Code 93 settings	23
2.5.9 Code 93 Length Setting	23
2.5.10 Codabar Settings	24
2.5.11 Codabar Length Setting	24
2.5.12 Interleave 2 of 5 (ITF5) setting	25
2.5.13 ITF25 length setting.....	25
3. APPENDIX	26
1. NUMBERED BAR CODE	26
2. APPENDIX 2 : CANCEL	27
3. APPENDIX 3 : CODE ID	27
4. APPENDIX 4 : CHARACTER EQUIVALENTS	28

1. Product

1.1 Function

- Works with Plug&Play and without installation software.
- Works with most WMS systems.
- Some WMS or POS systems must be set up to use a scanner.
- Device the scanner is connected to will see it as keyboard.
- Basically the scanner scans the 95% of bar codes, remaining 5% can be set as desired with this manual.
- There are patented parts in the scanner, DTRONIC has the rights to sell these items on the Dutch, Belgian and German market

1.2 Unbox

After opening the box containing the product, perform the following steps:

- Remove the scanner accessories from the packaging.
- Remove the scanner from the packaging.
- At the packing list, check that everything is complete and in good condition. If there are damaged or missing parts, save the original packaging and contact DTRONIC for customer service.

Packing list:

1. Handheld scanner
2. USB Connection Cable (for wireless scanners, this is the charging cable).
3. Paperclip
4. Abridged user manual

1.3 Start

Startup: connect the computer to the scanner. The computer will recognize it as a keyboard and the scanner can be used.

Power off: remove the cable connected to the scanner; remove the USB connected to the computer.

Restart: if the scanner crashes or is unresponsive, turn it off and restart it. Optionally, use the factory setting from this manual

1.4 Window

The scanning window must be kept clean, the supplier does not bear the warranty responsibility due to improper maintenance. Prevent the window from wearing out or being scratched by a hard object. Use a soft cloth to remove stain on the scanning window. Clean the scan window with a soft cloth, such as a lens cleaning cloth

Spraying liquid on the scan window is prohibited. Prohibit all cleaning solvents except cleaning water.

1.5 Reading






If the bar code is small, it should be closer to the scan window; if the bar code is large, it should be further away from the scan window for easier reading.

If the bar code is highly reflective (for example, the coated surface), you may need to tilt the bar code at an angle to scan the bar code. The best distance to read a bar code is 10-15 cm

1.6 Picture



1.7 Led indicator

	INDICATOR STATUS	EXPLAIN
	Red light on	Charging
	Red light off	No charging
	Green light on	No decoding
	Green light off	Decode succesfully
	One blue light on	Pairing successful or connect to USB



2. System Setup

2.1 System Setup

Option and function setting mainly by reading a series of special bar codes. In this chapter, we give you a detailed introduction to the options and functions available for user setup and the corresponding setup code.

This method of setting up the scan is direct, easy to understand and user-friendly.



2.1.1 Setup code

	
Startup settings (default)	Exit Settings




2.1.2 Restore factory default settings


Restore factory settings



2.1.3 Product User Settings

	
Save user default settings	Restore user default settings



2.1.4 Beeper settings

	
Volume set to High (50%) (default)	Volume set to midrange (25%)
	
Volume set to bass (12.5%)	



2.1.5 Set the beep switch

	
Open (default)	Close

2.1.6 Power on beep switch

	
Open (default)	Close

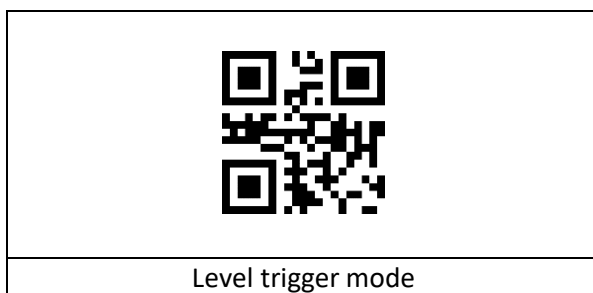
2.1.7 Read success beep switch

	
Open (default)	Close

2.2 Reading mode settings

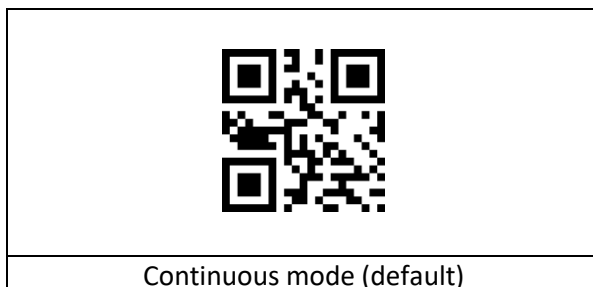
2.2.1 Level trigger mode

Enter the reading state when the trigger key pin is at low level. Press and hold the trigger key to start reading code. After reading the code successfully or releasing the trigger key, the code reading ends and the next decoding needs to re-enter the low level state.



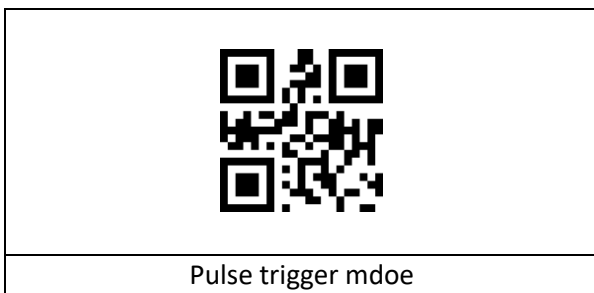
2.2.2 Continuous mode (default)

When the reading setting code is switched to this mode, it enters the continuous reading state. In this mode, the "repeat read switch" can be used to prevent the same barcode from being read more than once.



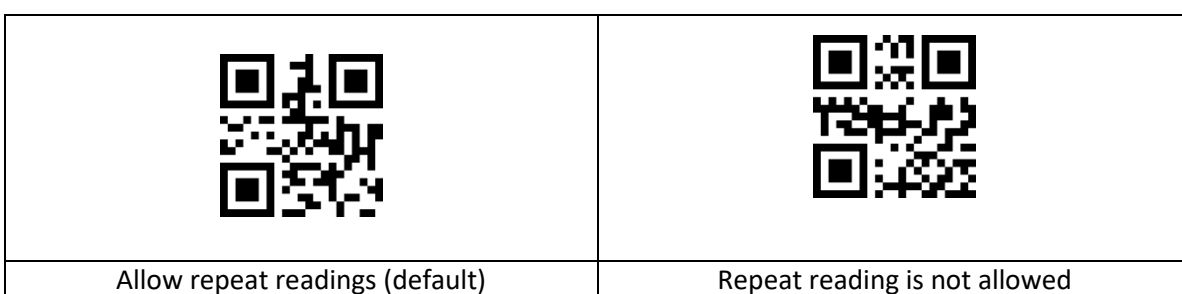
2.2.3 Pulse trigger mode

When the reading setting code is switched to this mode, it enters the pulse-triggered reading state.



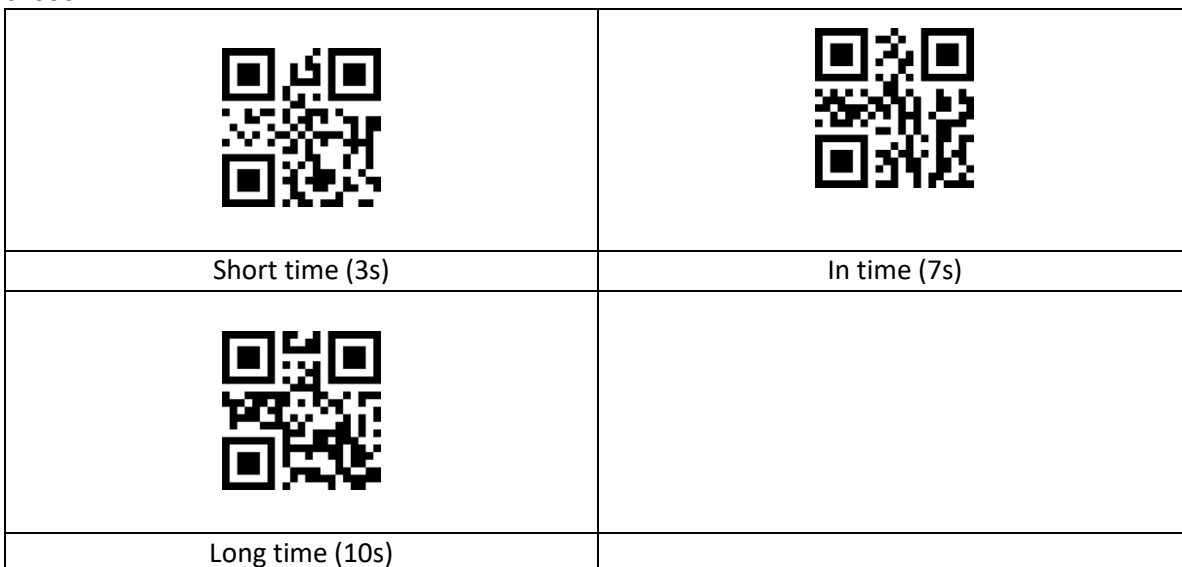
2.2.4 Repeat read switch

The repeat read setting is only available in continuous mode.



2.2.5 One read timeout




One time reading timeout time, the unit is 0.1 seconds. The default value is 30 (3 seconds), when set to 0, it means that the device is always in the reading state, and the time range can be set: 0~999.



Valid only in "Level Trigger Mode" and "Pulse Trigger Mode".






2.3 Communication settings








2.3.1 Communication settings

	
USB HID (default)	USB CDC serial port
	
RS-232 serial port	

2.3.2 USB keyboard



Portuguese (Brazil) cannot output "?" and "/" .


	
Nederlands	Italian
	
Spanish (Brazil)	Portuguese
	
Portuguese (Brazil)	French

	
German (Austria)	Turkish Q
	
Turkish F	English (UK)
	
Japanese	German (Switzerland)
	
French (Belgium)	

2.3.3 USB keyboard sending speed




If there is missed data at the receiver side, the occurrence speed should be turned down, which is easy to occur at the receiver side with poor performance.

	
5 ms (default)	10 ms





	
20 ms	



2.3.4 Control Characters

Specific reference to the control character table, only the data content of the barcode is converted.




	
Off (default)	Control + ASCII mode
	
Alt + Keypad mode	

2.3.5 Serial port baud rate setting

	
Baud rate 4800	Baud rate 9600 (default)
	
Baud rate 19200	Baud rate 38400

	
Baud rate 57600	Baud rate 115200

2.3.6 Serial port parity bit setting

	
No checksum (default)	Odd calibration
	
Even Check	

2.4 Data format setting




Length of custom prefix and suffix: (0~10) characters, if set to "on", "Code ID prefix", "custom prefix", "end suffix", etc. will be added before and after the decoding information. "Custom suffix", "End suffix", etc.

The maximum number of data cache is 5, and the maximum length of individual data is 7900 characters; the data output is sequential output, and you need to wait for the first barcode output to finish before the second barcode output, and so on.

2.4.1 Custom prefix on/off settings

Custom prefixes add a user-defined string before the decoded information. For example, if you allow to add a custom prefix and set the prefix to the string "AB", after reading the barcode with the data "123", the scanner adds the string "AB" before the string "123", and the host side receives "AB123". After the barcode reading data is "123", the scanner will add the string "AB" before the string "123", and the host side will receive "AB123".

If set to "Off", the decoded information will only have the barcode data information, no prefix, and the default value is to turn off the custom prefix output.

	
Enable	Disable (default)
	
Clear all custom prefixes	

2.4.2 Customized prefixes

The custom prefix adds a user-defined string before the decoded information, and the output format after customization is "Custom Content + Barcode Content".

Set the custom prefix to 'a' (the hex value of a is 0x61)




1. Read "Startup Settings"
2. Read the "Custom Prefix" setting code
3. Check the ASCII code of the character "a": the ASCII code of "a" is "0x61" (see ASCII code table)
4. Read data code: "6" "1" (see data code table)
5. Read "Save" (see data code table)
6. Read "Exit Settings"


Customized prefixes

2.4.3 Custom suffix on/off settings

The custom suffix adds a user-defined string after the decoded information. For example, it is allowed to add a custom suffix and set the suffix to the string "AB", after reading the barcode with the data of "123", the scanner adds the string "AB" after the string "123", and the host side receives "123AB". After the barcode reading data is "123", the scanner will add the string "AB" after the string "123", and the host side will receive "123AB".

If set to "Off", only the barcode data information will be in the decoded information, no suffix, and the default value is to turn off the custom suffix output.

	
Enable	Disable (default)
	
Clear all custom suffixes	

2.4.4 Custom suffixes

Custom suffix adds a user-defined string after the decoded information, and the output format after customization is "barcode content + custom content".

Set the custom suffix to 'a' (the hex value of a is 0x61)

1. Read "Startup Settings"
2. Read the "Custom Suffix" setting code
3. Check the ASCII code of the character "a": the ASCII code of "a" is "0x61" (see ASCII code table)
4. Read data code: "6" "1" (see data code table)
5. Read "Save" (see data code table)
6. Read "Exit Settings"


Custom suffixes

2.4.5 Custom ID output method

The user can use Code ID to identify the barcode type and the Code ID corresponding to each barcode type is customizable. The Code ID for all barcodes is 1 character.



Close Code ID (default): Code ID is not spliced to the read string.

Code ID prefix: The Code ID is spliced before the recognition string.

Code ID suffix: The Code ID is spliced after the recognition string.

Restore the Code ID of all barcodes, including Codabar, to the default value of.

1. Read "Startup Settings"
2. Read "Clear all custom Code IDs".
3. Read "Exit Settings"


	
Disable CODE ID (default)	Code ID prefix

2.4.6 Customize Code ID

Please refer to the following example for how to modify the Code ID.

Modify the Code ID of Codabar (Code ID:0x61) to "Y" (hexadecimal value 0x59).







1. Read "Startup Settings"
2. Read "Custom Code ID"
3. Check the Code ID of the barcode: the Code ID of "Codabar" is "0x61" (see the list of code system support)
4. Check the ASCII code of the character "Y": the ASCII code of "Y" is "0x59" (see ASCII code table)
5. Read data code: "6" "1" "5" "9" (see data table)
6. Read "Save" (see data code table)
7. Read "Exit Settings"


Custom Code ID

2.4.7 Terminator settings


The terminator suffix is used to mark the end of a complete piece of data information. The terminator suffix stands alone and does not participate in any other form of data formatting. The terminator suffix must be the last piece of data sent, and no additional data will be added thereafter.

The ending character can be set to carriage return, line feed, carriage return line feed, tab or ETX, and the default ending character is set to carriage return.

	
No terminator	Enter (default)
	
Line Feed (Down)	Carriage return + Line feed (Enter+Down)
	
Tab	ETX

2.4.8 Case output settings

Case conversion for characters in a string, prefix and suffix have no effect.



	
Normal output (default)	Convert Case

2.5 Symbologies





Each type of barcode has its own unique properties, and the setup codes in this chapter allow you to adjust the scanner to accommodate these property changes.

The fewer barcode types that are turned on, the faster the scanner will Scan. You can turn off the barcode types that will not be used to improve the performance of the scanner.







2.5.1 All barcodes

	
Close all barcodes	Turn on all barcodes





2.5.2 EAN8 Settings







	
EAN8 on (default)	EAN8 off
	

2.5.3 EAN 13 settings

	
EAN13 on (default)	EAN13 off
	
Enable EAN13 transmission Check Character (default)	Disable EAN13 transmission checks
	
Transmit EAN13 System Character (default)	Do not Transmit EAN13 System Character


2.5.4 Code 39 Settings



	
Code 39 on (default)	Code 39 Off
	
Enable Code 39 Check Character	Disable Code 39 Check Character (default)

	
Transmit Code 39 Check Character	Do not Transmit Code 39 Check Character (default)
	
Transmit Code 39 start and stop characters	Do not Transmit Code 39 start and stop characters (default)
	
Full ASCII On	Full ASCII Off (default)

2.5.5 Code 39 Length Setting

OPMERKING:

 If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.

	
Minimum length setting	Maximum length setting





Example

Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.

1. Scan "Startup Settings"
2. Scan "Minimum length setting"
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)


5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings"



2.5.6 Code 128 settings

	
Code 128 on (default)	Code 128 Off
	
Enable Code 128 Check Character (default)	Disable Code 128 Check Character

2.5.7 Code 128 length setting

OPMERKING:

 If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.

	
Minimum length setting	Maximum length setting







Example

Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.

1. Scan "Startup Settings"
2. Scan "Minimum length setting"
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)


8. Scan "Exit Settings"



2.5.8 Code 93 settings

	
Code 93 On (default)	Code 93 Off
	
Enable Code 93 Check Character (default)	Disable Code 93 Check Character
	
Transmit Code 93 check digit	Do not Transmit Code 93 Check Digit (default)

2.5.9 Code 93 Length Setting

OPMERKING:

 If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.

	
Minimum length setting	Maximum length setting





Example

Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.


1. Scan "Startup Settings"
2. Scan "Minimum length setting"



3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings"

2.5.10 Codabar Settings

	
Codabar on (default)	Codabar Off
	
Transmit Codabar start and stop characters	Do not Transmit Codabar start and stop characters (default)

2.5.11 Codabar Length Setting

	<p>OPMERKING:</p> <p>If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.</p>
---	---

	
Minimum length setting	Maximum length setting







Example

Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.


1. Scan "Startup Settings" barcode
2. Scan "Minimum length setting" barcode



3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings".

2.5.12 Interleave 2 of 5 (ITF5) setting

	
ITF5 on (default)	ITF5 off
	
Enable ITF25 check character (default)	Disable ITF25 Check Character
	
Transmit ITF25 Check Character	Do not Transmit ITF25 Check Charcter (default)

2.5.13 ITF25 length setting

	<p>OPMERKING:</p> <p>If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.</p>
---	---

	
Minimum length setting	Maximum length setting

3. Appendix

1. numbered bar code

For parameters requiring specific numeric values, scan the appropriately numbered bar code(s).



0



1



2



3



4



5



6



7



8



9

2. Appendix 2 : CANCEL

To change the selection or cancel an incorrect entry, scan the bar code below.



Cancel

3. Appendix 3 : Code ID

Code character	Code symbol
A	UPC-A, UPC-E, EAN-8, EAN-13
B	Code 39, Code 32
C	Codabar
D	Code 128, GS1-128, ISBT 128
E	Code 93
F	Interleaved 2 of 5/ITF, ITF14
G	Industrial 2 of 5, Standard 2 of 5
H	CODE11
J	MSI, MSI/Plessey
R	GS1 DataBar-14, GS1 DataBar Limited, GS1 DataBar Expanded, RSS
V	Matrix 25
r	PDF417
u	DataMatrix(DM)
q	QR
a	Aztec Code
x	Maxi Code
c	HanXin

4. Appendix 4 : Character Equivalents

Scan Value	HEX Value	Keyboard Function Key	Keyboard Ctrl Combination Key
1000	00h	Null	CTRL 2
1001	01h	Keypad Enter	CTRL A
1002	02h	Caps lock	CTRL B
1003	03h	Right Arrow	CTRL C
1004	04h	Up Arrow	CTRL D
1005	05h	Null	CTRL E
1006	06h	Null	CTRL F
1007	07h	Enter	CTRL G
1008	08h	Left Arrow	CTRL H
1009	09h	Horizontal Tab	CTRL I
1010	0Ah	Down Arrow	CTRL J
1011	0Bh	Vertical Tab	CTRL K
1012	0Ch	Backspace	CTRL L
1013	0Dh	Enter	CTRL M
1014	0Eh	Insert	CTRL N
1015	0Fh	Esc	CTRL O
1016	10h	F11	CTRL P
1017	11h	Home	CTRL Q
1018	12h	Print Screen	CTRL R
1019	13h	Delete	CTRL S
1020	14h	tab+shift	CTRL T
1021	15h	F12	CTRL U
1022	16h	F1	CTRL V
1023	17h	F2	CTRL W
1024	18h	F3	CTRL X
1025	19h	F4	CTRL Y
1026	1Ah	F5	CTRL Z
1027	1Bh	F6	CTRL [
1028	1Ch	F7	CTRL \
1029	1Dh	F8	CTRL]
1030	1Eh	F9	CTRL 6
1031	1Fh	F10	CTRL -
1032	20h	Space	
1033	21h	!	
1034	22h	'	
1035	23h	#	
1036	24h	\$	
1037	25h	%	
1038	26h	&	
1039	27h	'	
1040	28h	(
1041	29h)	
1042	2Ah	*	
1043	2Bh	+	
1044	2Ch	,	
1045	2Dh	-	
1046	2Eh	.	
1047	2Fh	/	
1048	30h	0	
1049	31h	1	

1050	32h	2
1051	33h	3
1052	34h	4
1053	35h	5
1054	36h	6
1055	37h	7
1056	38h	8
1057	39h	9
1058	3Ah	:
1059	3Bh	;
1060	3Ch	<
1061	3Dh	=
1062	3Eh	>
1063	3Fh	?
1064	40h	@
1065	41h	A
1066	42h	B
1067	43h	C
1068	44h	D
1069	45h	E
1070	46h	F
1071	47h	G
1072	48h	H
1073	49h	I
1074	4Ah	J
1075	4Bh	K
1076	4Ch	L
1077	4Dh	M
1078	4Eh	N
1079	4Fh	O
1080	50h	P
1081	51h	Q
1082	52h	R
1083	53h	S
1084	54h	T
1085	55h	U
1086	56h	V
1087	57h	W
1088	58h	X
1089	59h	Y
1090	5Ah	Z
1091	5Bh	[
1092	5Ch	\
1093	5Dh]
1094	5Eh	^
1095	5Fh	_
1096	60h	'
1097	61h	a
1098	62h	b
1099	63h	c
1100	64h	d
1101	65h	e
1102	66h	f
1103	67h	g
1104	68h	h
1105	69h	i
1106	6Ah	j
1107	6Bh	k
1108	6Ch	l

1109	6Dh	m
1110	6Eh	n
1111	6Fh	o
1112	70h	p
1113	71h	q
1114	72h	r
1115	73h	s
1116	74h	t
1117	75h	u
1118	76h	v
1119	77h	w
1120	78h	x
1121	79h	y
1122	7Ah	z
1123	7Bh	{
1124	7Ch	
1125	7Dh	}
1126	7Eh	~
1127	7Fh	Undefined