Tera

Model: D6100

2D Area-imaging Barcode Scanner
with Indicator and Phsycial Switch

User Manual
Ver.01.1.01

About This Manual

An asterisk (*) next to an option indicates the default setting.
Scanners are factory programmed for the most common terminal and communications settings
If you need to change these settings, you can program them by scanning the barcodes in this manual.

For correct and effective use of the product, please read this manual carefully and do not scan configuration barcodes at random. Some settings would otherwise be temporarily unavailable.

Getting Started:

Follow these steps to ensure your scanner is working properly:
1. Connect the cable to the device first, then to a USB port on the computer.
2. Open Notepad on your PC.
3. Click on the Notepad window to ensure that it is the active application.
4. Scan a test barcode.
5. Check the Notepad window to see if the correct barcode information appears.
6. If the barcode information in Notepad matches test barcode, congratulations! Your scanner is working properly.

Please do not hesitate to contact us if you have any questions.

Official Customer Service

Email Address: info@tera-digital.com

Phone Number: +1(626)438-1404

Important Note:
Please include your Order Number and Product Model Number in the message.

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Contents

Factory Default Settings

If you aren't sure what programming options are in your scanner, or you have changed some options and want to restore the scanner to factory default settings, scan the barcode below.

Restore Defaults

Software Version

Scan the bar code below to output the current software version of the scanner.

Show Software Version

Beeper Volume

The beeper volume codes modify the volume of the beep the scanner emits on agood read. Default = High.

High*　　　　　Medium　　　　　Low　　　　　Mute

Battery Level

To check the remaining battery level, please scan the following barcode. Ensure your cursor is in a text box when scanning.

Show Battery Level

Vibration

The scanner vibrates once when a barcode is successfully read. If you don't want the scanner to vibrate, scan " Vibration Off" barcode.

Vibration On	Vibration Off

Power Timeout Timer (Sleep Timer)

When there is no activity within a specified time period, the scanner turns off. Scan the appropriate scanner power time-out barcode to change the timeout duration (in seconds).
Note: If there are no trigger pulls during the timer interval, the scanner turns off. Whenever the trigger is pressed, the timer is reset.

30s	60s	120s
300s	600s	1800s
Never Turn Off		Turn Off Immediately

Keyboard Country Layout

Your keyboard layout default is a US keyboard. To change this layout, scan the appropriate Keyboard Country barcode below.
(Please note that if your keyboard layout doesn't match your computer's, the outputs may be incorrect.)

United States*	Germany

France

Spain

Italy

United Kingdom

Operation Modes

Real Time Mode

By default, the barcode scanner is in real time mode and it transmits scanned data into the host device immediately.

Real Time Mode*

Storage Mode

Storage mode is used to store barcode data when a scanner is out of range of its receiver or when performing inventory. The data is stored in the memory so it won't get lost when the barcode scanner is turned off. When the scanner's buffer space is full, any barcodes scanned generate an error tone. In order to clear the scanner's buffer, you must scan Clear All Stored Codes.

Storage Mode

Upload All Stored Codes

In storage mode, the scanner won't transmit the data to the host device even when it's back in range. Users need to scan the following code to instruct the scanner to transmit the stored data.

Upload All Stored Codes

Total Records

If you wish to output the total number of barcodes scanned when in storage mode, scan Total Records.

Total Records

Clear All Stored Codes

If you want to clear the scanner's buffer of all data accumulated in storage mode, scan Clear All Stored Codes.

Clear All Stored Codes

Pairing the Scanner with its Receiver

If the scanner doesn't connect to the USB dongle automatically, please follow these steps to re-establish the connection between the scanner and its receiver.

Step 1: Unplug the receiver (If the receiver is not plugged in, please disregard this step)

Step 2: Scan the "2.4GHz Mode" barcode

Step 3: Scan the "Pairing" barcode

Step 4: Plug the receiver in to a working USB port on your computer

2.4GHz Mode

Pairing

Pairing the Scanner with Bluetooth Devices

The scanner can be paired with Bluetooth devices such as personal computers, laptops, and tablets.

Step 1: Scan the Bluetooth HID barcode and the Pairing barcode below to establish one-way communication with the scanner.

Bluetooth HID Mode

Pairing

Step 2: Set your personal computer, laptop, or tablet so it searches for other Bluetooth devices.
Step 3: Once your personal computer, laptop, or tablet has located the scanner, select the scanner name. They will automatically pair with the scanner.

USB-COM/Virtual Serial Port

Scan the following code to program the scanner to emulate a regular RS232-based COM Port. No extra configuration is necessary. To exit USB-COM mode, please scan the 2.4GHz Mode barcode.

USB-COM Mode

Case Conversion

Alphabetic keyboard characters can be forced to be all upper case or all lowercase. So if you have the following barcode: "AZErty", you can make the output "AZERTY" by scanning Convert All Characters to Upper Case, or to "azerty" by Convert All Characters to Lower Case.

Conversion Off*

Convert All Characters to Upper Case

Convert All Characters to Lower Case

Terminators (Termination Suffixes) - Enter, Tab

By default, the scanner adds a carriage return suffix to all symbologies. If you don't want the scanner to "press" the Enter key after every scan, please scan the None barcode to remove the default termination suffix. If you need the scanner to "press" the Tab key after every scan, please scan the Horizontal Tab barcode below.

Carriage Return*

Horizontal Tab

None (Clear Termination Suffixes)

Timestamp

If you want to record the time and date for every scan, scan either Time & Date Prefix or Time & Date Suffix. If the time and date stamp doesn't match your computer's, contact Tera customer service for Time Sync Tool.

Show Current Time & Date

Time & Date Prefix

Time & Date Suffix

Clear Timestamp

Prefix and Suffix Overview

When a barcode is scanned, additional information is sent to the host computer along with the barcode data. This group of barcode data and additional, user-defined data is called a "message string". The selections in this section are used to build the user-defined data into the message string. Prefix and Suffix characters are data characters that can be sent before and after scanned data. By default, they are sent with all symbologies. Below is draw of the breakdown of a message string.

<Prefix><Barcode Data><Suffix><Termination Suffix>

Points to keep in mind.

1. It is not necessary to build a message string. The selections in this section are only used if you wish to alter the default settings.
2. You can add any prefix or suffix from the Appendix ASCII Character Chart.
3. Enter prefixes and suffixes in the order in which you want them to appear on the output.
4. The maximum size of a prefix or suffix configuration is 16 characters.

Add a Prefix or Suffix

Step 1: Scan the Add Prefix or Add Suffix barcode

Add Prefix

Add Suffix

Step 2: Scan the barcode in the rightmost column which represents the character you need.

For example, add an @ as a prefix, you should scan the "Add Prefix" barcode, then the 64th barcode from the Appendix ASCII Character Chart.

Removal of Characters

If you need to remove leading and/or trailing characters from scanned bar codes, please follow these steps:

1. Scan the "Remove characters from the start" barcode or the "Remove characters from the end" barcode

Remove characters
from the start

Remove characters
from the end

2. Scan the appropriate code among the following digit codes:

1 digit

2 digits

3 digits

4 digits

5 digits

6 digits

7 digits

8 digits

9 digits

10 digits

11 digits

12 digits

13 digits

14 digits

15 digits

16 digits

Scan Modes

Manual Trigger Mode

A scan mode for reading barcodes by pulling the trigger.
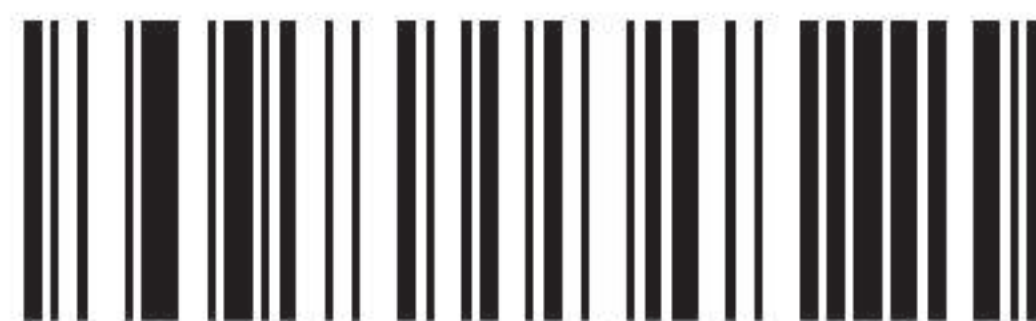
Manual Trigger Mode*

Continuous Scan Mode

A scan mode that continuously keeps scanning barcodes.
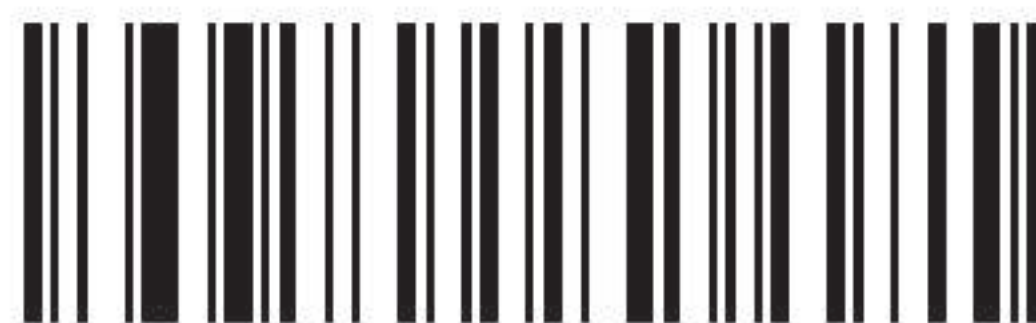
Continuous Scan Mode

Sensor-activated Mode

For sensor-activated mode, when the scanner is idle it has no illumination, and uses predominantly ambient light to detect if an object is moving in front of the scanner. The scanner is expected to reside in a fixed position.

Whenever it detects activity in the field of view it will turn on the illumination and attempt to read a barcode. After reading the barcode the illumination will be default remain on for defined period, before it returns to idle state again.
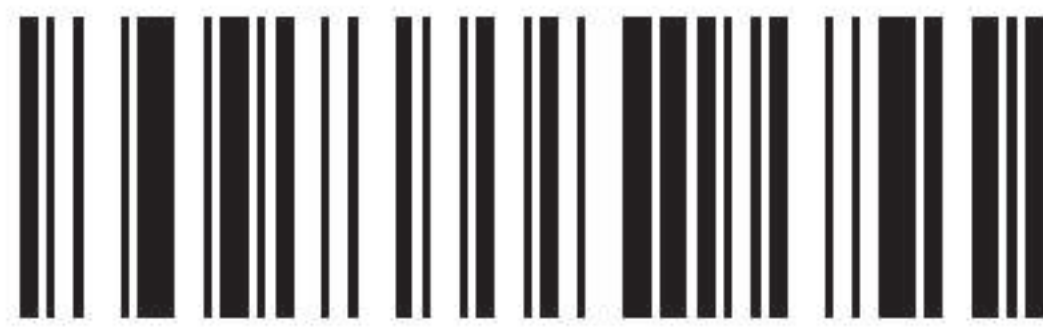
Sensor-activated Mode

Note: Both Continuous Scan Mode and Sensor-activated Mode are referred to as "Hands free Modes. If the scanner's trigger is pulled when using a hands free mode, the scanner changes to manual trigger mode. Once the time-out value is reached, (if there have been no further trigger pulls) the scanner reverts to the original hands free mode.

Symbologies

Description

If you want to decode all the symbologies allowable for your scanner, scan the All Symbologies On symbol. If on the other hand, you want to decode only a particular symbology, scan All Symbologies Off followed by the On symbol for that particular symbology.

All Symbologies On/Off

For best scanner performance, we recommend you only enable the symbologies that you need. Scan All Symbologies Off to disable all symbologies, then enable the symbologies you need by scanning the On bar code for each symbology.

All Symbologies On

All Symbologies Off

Note: Even if All Symbologies Off is enabled, the scanner is still able to read configuration codes in Symbologies section.

UPC-A

UPC-A On/Off

On*

Off

UPC-A Check Digit

This selection allows you to specify whether the check digit should be transmitted at the end of the scanned data or not.
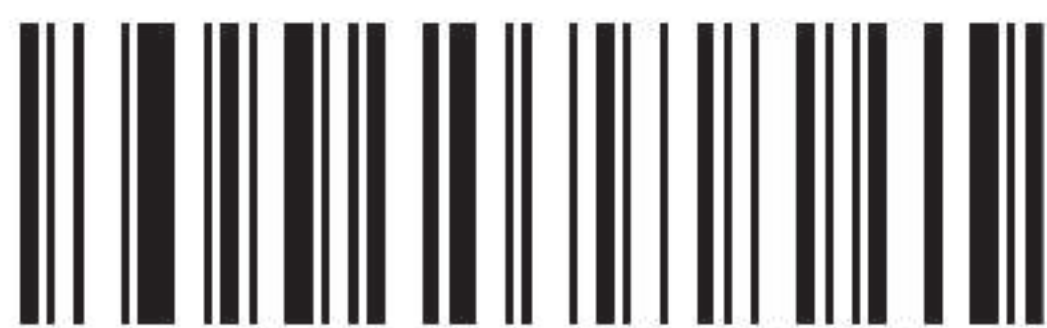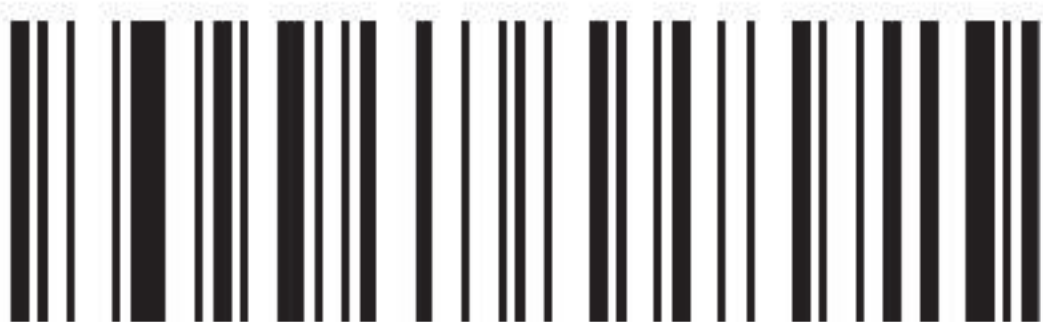

On*

Off

UPC-A Addenda

This selection adds 2 or 5 digits to the end of all scanned UPC-A data. Default = Off for both 2 digit and 5 digit Addenda.

2 digit Addenda On
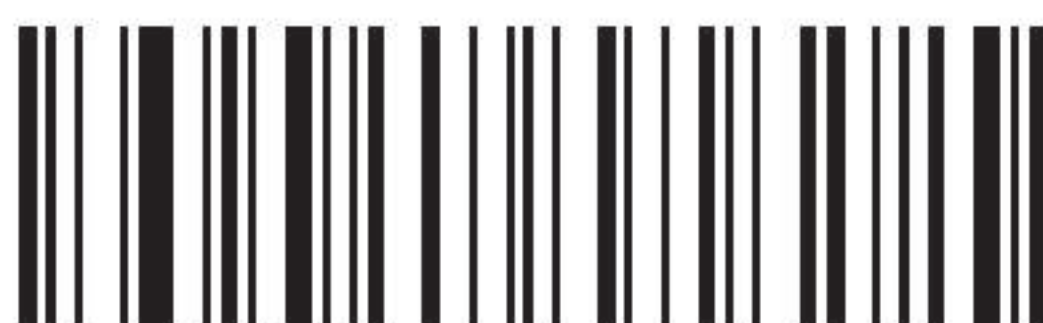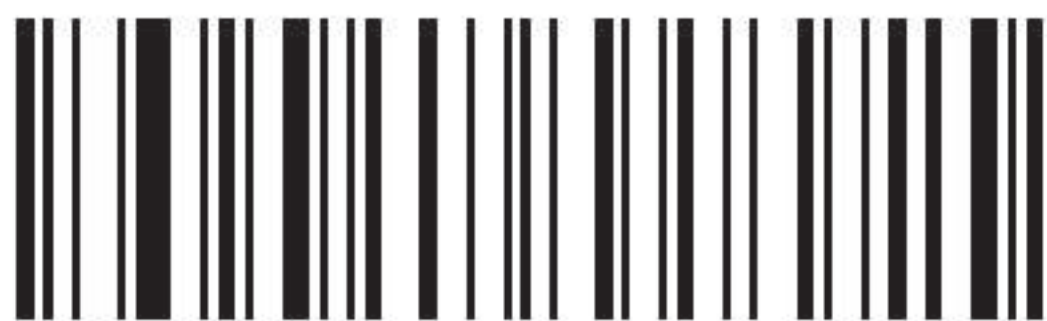

2 digit Addenda Off*

5 digit Addenda On

5 digit Addenda Off*

Convert UPC-A to EAN 13

When UPC-A Converted to EAN-13 is selected, UPC-A barcodes are converted to 13 digit EAN-13 codes by adding a zero to the front. When Do not Convert UPC-A is selected, UPC-A codes are read as UPC-A.

Converted to EAN-13

Do not Covert UPC-A*

UPC-E

UPC-E On/Off

On*
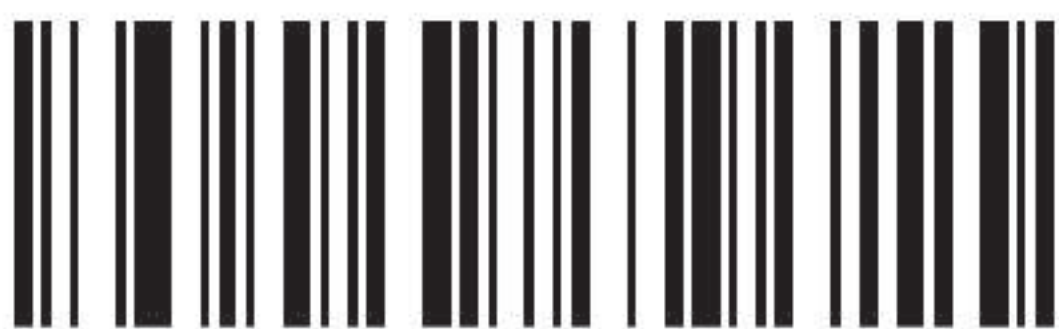
Off

UPC-E Check Digit

This selection allows you to specify whether the check digit should be transmitted at the end of the scanned data or not.

||||| ||| || ||||||| |||
Transmit*

||||| ||| || ||||||| |||
Don't Transmit

UPC-E Addenda

This selection adds 2 or 5 digits to the end of all scanned UPC-E data. Default = Off for both 2 digit and 5 digit Addenda.

||||| ||| || ||||||| |||
2 digit Addenda On

||||| ||| || ||||||| |||
2 digit Addenda Off*

||||| ||| || ||||||| |||
5 digit Addenda On

||||| ||| || ||||||| |||
5 digit Addenda Off*

EAN 13

EAN 13 On/Off

||||| ||| || ||||||| |||
On*
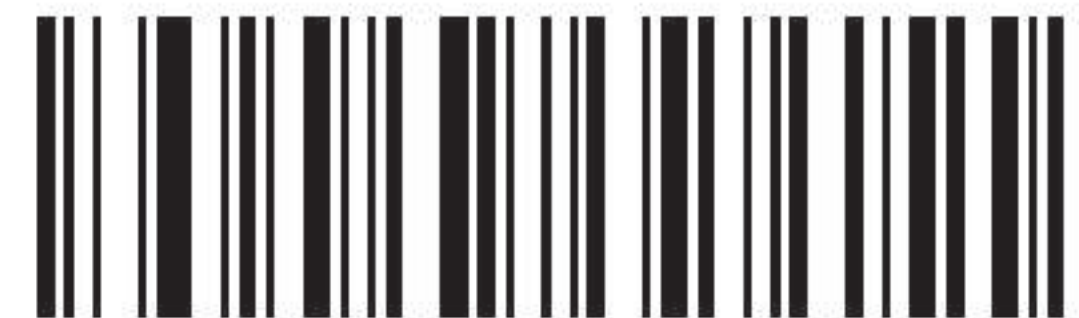
||||| ||| || ||||||| |||
Off

EAN 13 Check Digit

This selection allows you to specify whether or not the check digit should be transmitted at the end of the scanned data.

||||| ||| || ||||||| |||
Transmit*

||||| ||| || ||||||| |||
Don't Transmit

EAN 13 Addenda

This selection adds 2 or 5 digits to the end of all scanned EAN 13 data. Default = Off for both 2 digit and 5 digit Addenda.。

||||| ||| || ||||||| |||
2 digit Addenda On

||||| ||| || ||||||| |||
2-digit Addenda Off*

||||||||||||||||||||||

5-digit Addenda On

||||||||||||||||||||||

5-digit Addenda Off*

Code 128

||||||||||||||||||||||

On*

||||||||||||||||||||||

Off

Code 39

Code 39 On/Off

If you are reading Code 39 barcodes, Code 32 Pharmaceutical should remain disabled; otherwise, the output might not be as expected.

||||||||||||||||||||||

On*

||||||||||||||||||||||

Off

Full ASCII Code 39

If Full ASCII Code 39 decoding is enabled, certain character pairs within the barcode symbol will be interpreted as a single character. Default= Off.

||||||||||||||||||||||

On

||||||||||||||||||||||

Off*

Code 32 Pharmaceutical （PARAF）

Code 32 Pharmaceutical is a form of the Code 39 symbology used by Italian pharmacies. This symbology is also known as PARAF.

||||||||||||||||||||||

On

||||||||||||||||||||||

Off*

Codabar（NW-7）

On*

Off

Interleaved 2 of 5

On*

Off

QR Code

QR Code On/Off
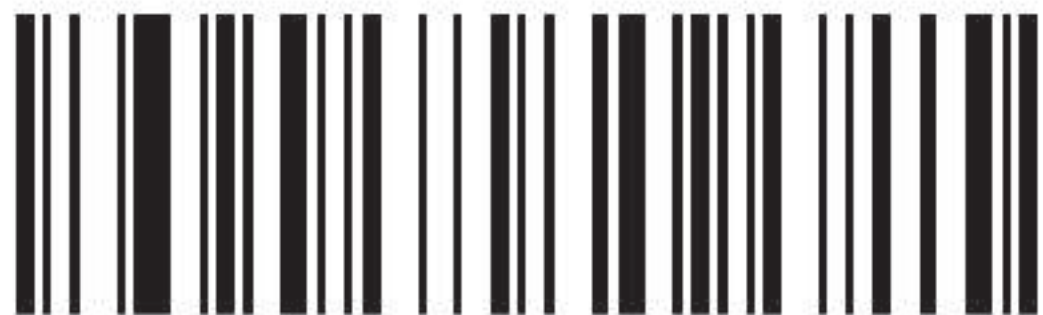
On*

Off

QR Code Inverse

Regular Only*

Both Regular and Inverse

Data Matrix

Data Matrix On/Off

On*

Off

Data Matrix Rectangular

On
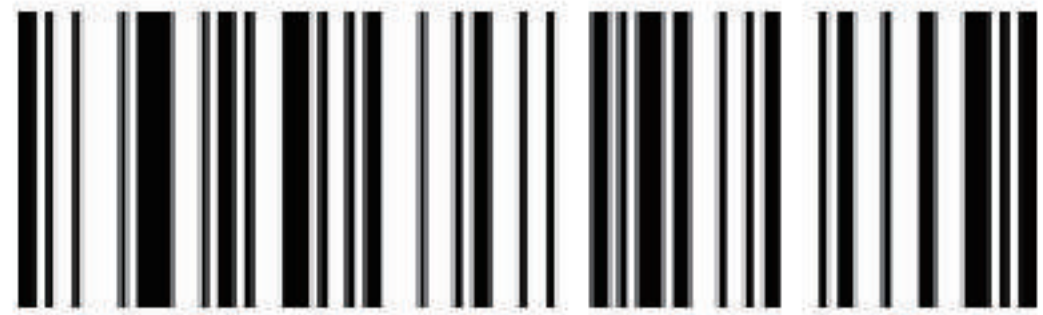
Off*

Data Matrix Inverse

Regular Only*
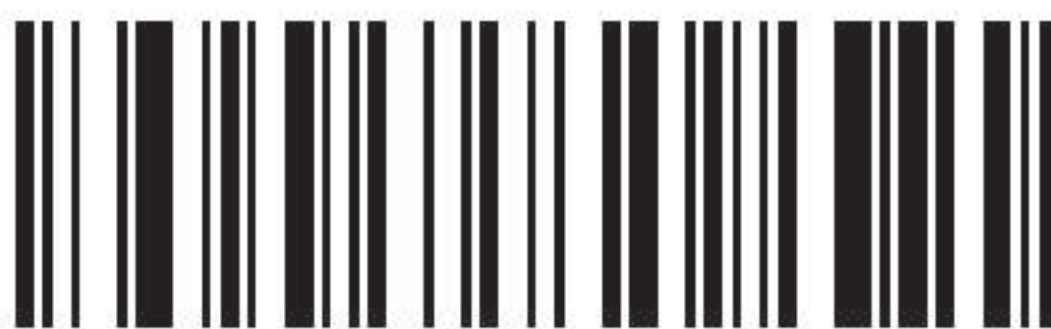
Both Regular and Inverse

PDF 417

On*

Off

Aztec Code

On

Off*

ASCII Character Chart

ASCII Value	Character	Barcode Symbol
01	SOH	
02	STX	
03	ETX	

04	EOT	
05	ENQ	
06	ACK	
07	BEL	
08	BS	
09	HT	
10	LF	
11	VT	

12	FF	
13	CR	
14	S0	
15	S1	
16	DLE	
17	DC1	
18	DC2	
19	DC3	

20	DC4	
21	NAK	
22	SYN	
23	TB	
24	CAN	
25	EM	
26	SUB	
27	Esc	

28	FS	
29	GS	
30	RS	
31	US	
32	SP	
33	!	
34	"	
35	#	

36	$	
37	%	
38	&	
39	`	
40	(	
41	)	
42	*	
43	+	

44	,	
45	-	
46	.	
47	/	
48	0	
49	1	
50	2	
51	3	

52	4	
53	5	
54	6	
55	7	
56	8	
57	9	
58	:	
59	;	

60	<	
61	=	
62	>	
63	?	
64	@	
65	A	
66	B	
67	C	

68	D	
69	E	
70	F	
71	G	
72	H	
73	I	
74	J	
75	K	

76	L	
77	M	
78	N	
79	O	
80	P	
81	Q	
82	R	
83	S	

84	T	
85	U	
86	V	
87	W	
88	X	
89	Y	
90	Z	
91	[	

92	\	
93	]	
94	^	
95	_	
96	'	
97	a	
98	b	
99	c	

100	d	
101	e	
102	f	
103	g	
104	h	
105	i	
106	j	
107	k	

108	l	
109	m	
110	n	
111	o	
112	p	
113	q	
114	r	
115	s	

116	t	
117	u	
118	v	
119	w	
120	x	
121	y	
122	z	
123	{	

124	|	
125	}	
119	w	
126	~	
127	DEL	
199	Ç	
231	ç	