

TR-UM017

Tera

Model No.: D5100

Wireless 2D Barcode Scanner

User Manual

Ver.02.1.05

About This Manual

An asterisk (*) next to an option indicates the default setting.

Scanners are factory programmed for the most common terminal and communication settings.

If settings need to be changed, you can reprogram by scanning the barcodes in this manual.

Note:

If there are no further commands within 20 seconds, the scanner will automatically exit the setting mode.

For the correct use of the product, please read this manual carefully and do not scan setting barcodes at random. Otherwise, some settings will be temporarily unavailable.

The scanner's keyboard layout default is a US keyboard.

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

Important Notice:

Please include your Order Number and Product Model Number in the email.

Official Customer Service

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Whatsapp: +1 (626)438-1404

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User manuals are available in Spanish, French, Italian and German, and can be downloaded from our website. You may visit our official website via the link below or by scanning the given QR code:

<https://www.tera-digital.com>



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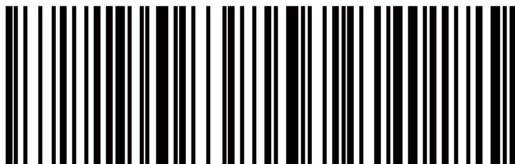
Factory Default

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.



Factory Default

Firmware Version



Show Firmware Version

Receiver Pairing

A: Pull the trigger to power up the scanner.

B: Scan the “Pairing” barcode below to get the scanner ready for pairing, with the LED indicator flashing blue.



Pairing

C: Plug in the dongle, and wait till the scanner beeps and the LED turns solid blue, indicating that the pairing has succeeded.

Operation Modes

Real Time Mode

In real time mode, the scanned data will be transmitted to the host device without delay.

If transmission fails, the scanner will emit 3 low-frequency beeps and the larger LED light will flash blue 3 times.



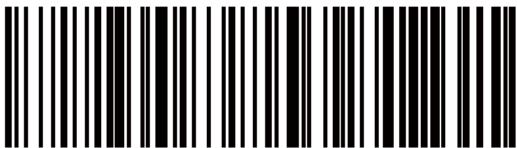
Real Time Mode*

Storage Mode

When the scanner operates out of range of wireless connection, it is advised to use storage mode, in which the scanned data is stored in memory. In this mode, the scanner will emit a short beep, low pitch to high pitch, and the larger LED light will flash blue once after every scan. If there is no memory available, the scanner will emit 3 low-frequency beeps and the larger LED light will flash blue 3 times.



Storage Mode



Total Records



Upload All Codes



Clear All Codes

Battery Level



Battery Level

Communications

2.4 G Wireless Connection



2.4G Wireless

Virtual COM Connection

(Note: The scanner can function as serial port with both USB Cable and 2.4G Receiver connection.)



USB-COM

Vibration



On



Off

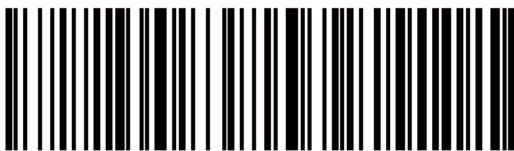
Keyboard Country Layout



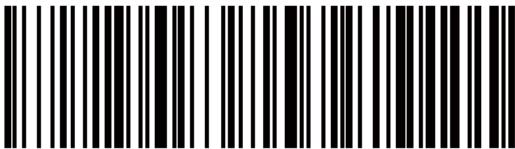
United States*



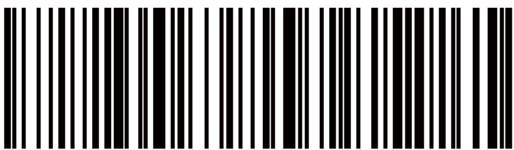
France



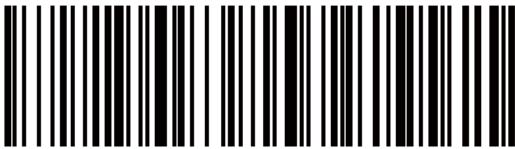
Germany



Spain



Japan



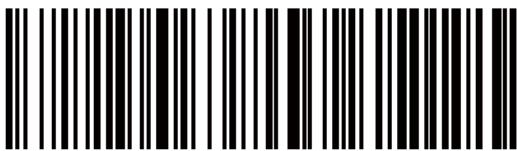
Italy



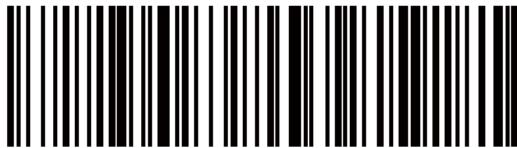
Belgium (French)



Slovakia



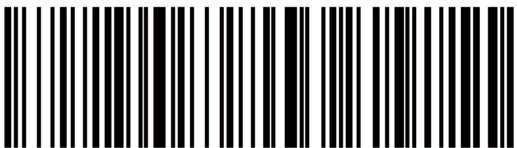
United Kingdom



Portugal



Brazil (Portuguese)



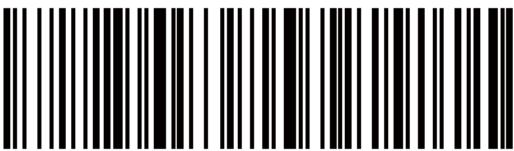
Germany (iOS)



Czech



Russia



Turkey Q



Italy 142



Sweden/Finland



Turkey F



Denmark



Mexico (Spanish)



Croatia



Norway



Switzerland (French)



Switzerland (German)



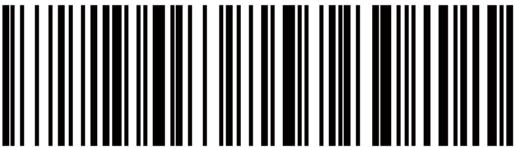
Hungary



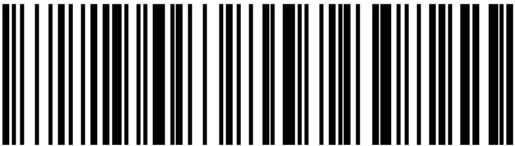
Dutch (Netherlands)



Canada (French)



Poland



Latin America

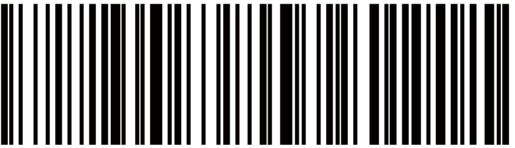


International

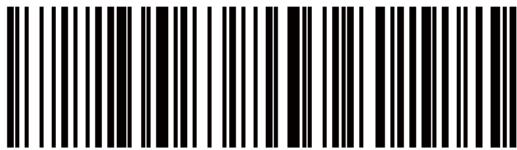
Beeper Volume



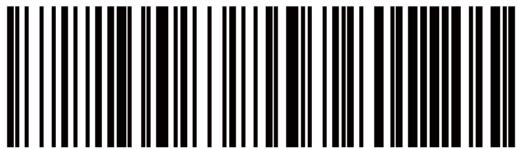
Off



Low

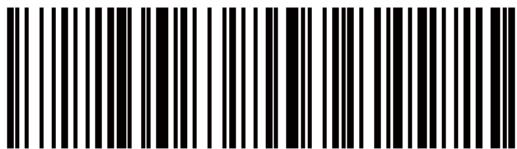


Medium

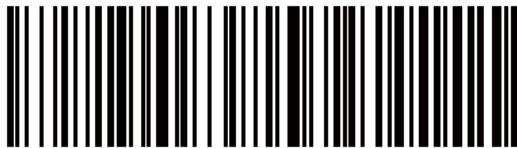


High*

Sleep Timer



30s*



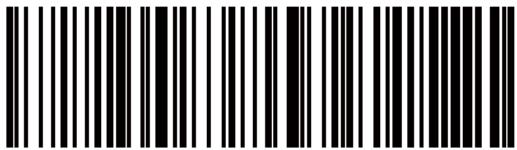
1 min



2 mins



5 mins



10 mins



30 mins

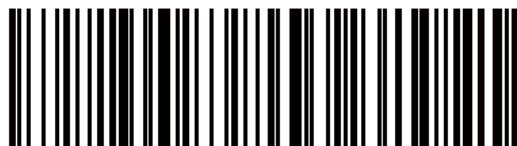


Immediately

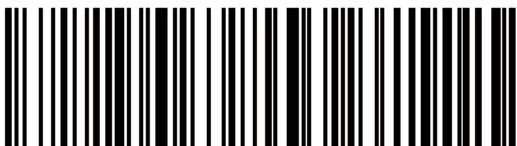


Never

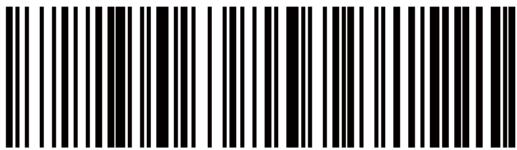
Keyboard Conversion



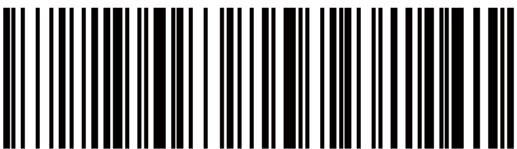
Conversion Off*



Invert Case of All Characters

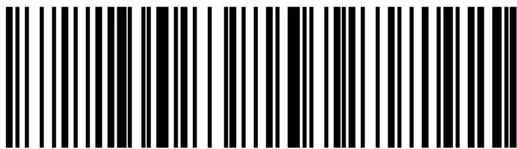


Convert All Characters to Upper Case

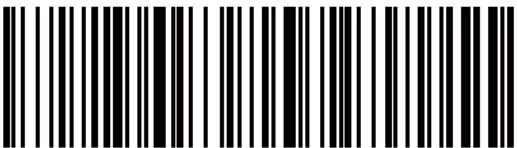


Convert All Characters to Lower Case

GS Replacement



On



Off

Symbologies

Code ID



On



Off*

Symbologies - Overview

All 1D symbology off will result in barcodes unreadability.



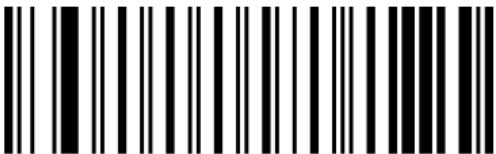
All Symbologies On



All Symbologies Off



All 1D Symbologies On



All 1D Symbologies Off



All 2D Symbologies On



All 2D Symbolologies Off

QR Code - Mirror



On



Off*

Data Matrix - Mirror



On



Off*

All Symbologies - Mirror



On



Off*

Video Reverse



Regular Only



Both Regular and Inverse

Airline 2 of 5



On



Off*

Aztec Code



On

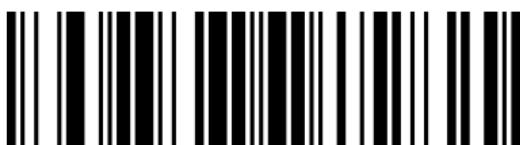


Off*

Codabar



On*



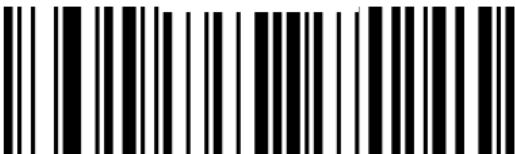
Off



No Check Character*



Validate and Transmit Check Digit



Transmit Start/Stop Characters



Don't Transmit Start/Stop Characters*

Code 128



On*



Off

Code 11



On



Off*



1 Check Digit*



2 Check Digits



Transmit Check Digit



Don't Transmit Check Digit*

Code 39



On*



Off



Validate, but Don't Transmit*



No Check Character*



Validate and Transmit

Full ASCII Code39



On



Off*

Code 32



On



Off*

Code 93



On



Off*

Composite



On



Off*

Data Matrix



On*



Off

EAN/UPC



On*



Off

EAN-8



On*



Off



Transmit Check Digit*



Don't Transmit Check Digit



EAN-8 Converted to EAN-13 On



EAN-8 Converted to EAN-13 Off*

EAN-13



On*



Off



Transmit Check Digit*

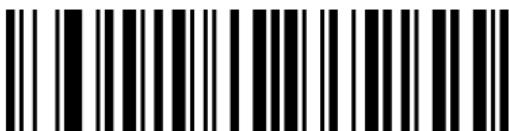


Don't Transmit Check Digit

GS1 DataBar Expanded



On



Off*

GS1 DataBar Limited



On



Off*

GS1 DataBar Omnidirectional



On



Off*

Han Xin Code



On



Off*

Hong Kong 2 of 5 (China Post)



On



Off*

Note: When reading China Post code, all other postal codes decoding should be disabled.

Interleaved 2 of 5



On



Off

Matrix 2 of 5



On



Off*

MaxiCode



On



Off*

Micro PDF417



On



Off*

Micro QR Code



On



Off*

MSI

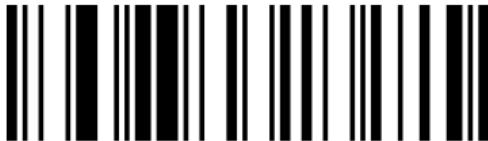


On



Off*

PDF417



On*



Off

Pharmacode



On



Off*

QR Code



On*



Off



Web Address On*



Web Address Off

RSS-14



On



Off*

RSS-Limited



On



Off*

RSS-Expanded



On



Off*

Straight 2 of 5 Industrial



On



Off*

Telepen



On



Off*



Numeric Telepen On*



Numeric Telepen Off

UPC-A



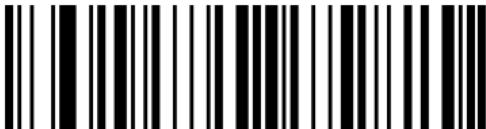
On*



Off



Transmit Check Digit*



Don't Transmit Check Digit



Transmit System Digit*



Don't Transmit System Digit



UPC-A Converted to EAN-13 On

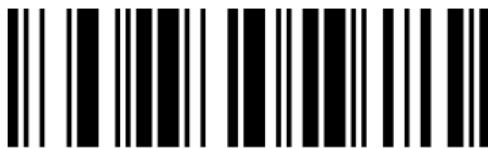


UPC-A Converted to EAN-13 Off*

UPC-E



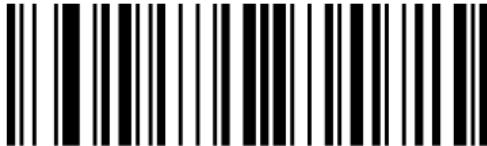
On*



Off



Don't Transmit Check Digit*



Transmit Check Digit



Don't Transmit System Digit*



Transmit System Digit



UPC-E Converted to UPC-A On



UPC-E Converted to UPC-A Off*

UPC/EAN Addenda



2-digit Addenda On



2-digit Addenda Off*



5-digit Addenda On



5-digit Addenda Off*



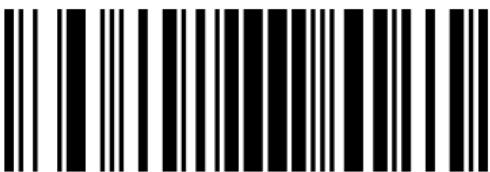
Addenda Required



Addenda Not Required*



Addenda Separator Off*



Addenda Separator On

Code ID Chart

Symbology	Code ID		
UPC-E	E	UK Plessey	n
EAN-8	D	AIR2OF5-13	f
UPC-A	c	Standard 2 of 5	F
EAN-13	d	TRIOPTIC	=
Code 39	b	RSS-14	y
Codabar	a	RSS-Limited	{
Interleaved 2 of 5	e	RSS-Expanded	}
Hong Kong 2 of 5	Q	PDF417	r
Code 128	j	Micro PDF417	R
Code 93	i	Data Matrix	w
MSI Plessey	g	Aztec Code	z
Code 11	h	QR Code	s
AIR2OF5-15	f	Micro QR Code	-
Matrix 2 of 5	m	MaxiCode	x
Telepen	t	GM	X

Terminators



Line Feed(LF)



Carriage Return(CR)



TAB(HT)



LF & CR*



None

Add Prefix/Suffix

Steps to add a prefix or a suffix:

Step 1: Scan “Add Prefix” or “Add Suffix”,

Step 2: Determine the appropriate value from the Appendix 1 and scan the barcodes that represent the value accordingly in sequence. Note: The maximum size of a prefix or suffix configuration is 32 characters.

Note: To clear prefix/suffix configuration, scan “Add Prefix” or “Add Suffix” then scan normal barcodes without scanning codes from Appendix 1.



Add Prefix



Add Suffix

Escape Character Sets

The chart for configuring prefixes and suffixes is divided into two parts: Control Character Chart and Printable Character Chart. The Printable Character Chart contains characters whose entries are above 31, which can be output by HID keyboard without escape.

The Control Character Chart consists of the first 31 characters of ASCII, most of which can't be output by HID keyboard directly. With escape character set, the scanner is able to output them. There are 5 escape methods available and they are activated by scanning Escape Character Set symbols. Select the appropriate character set depending on your needs.



Escape Character Set 0



Escape Character Set 1



Escape Character Set 2



Escape Character Set 3



Escape Character Set 4

Hide the First/Last Characters

Steps to hide the first/last characters: First, scan “Hide the First Characters” or “Hide the Last Characters”, then scan “Digits to be hidden”. Note: The maximum size of the configuration is 16 characters.

Steps to clear the settings: First, scan “Hide the First Characters” or “Hide the Last Characters” respectively, then scan normal barcodes directly without selecting any digits to be hidden.



Hide the First Characters



Hide the Last Characters



1 digit



2 digits



3 digits



4 digits



5 digits



6 digits



7 digit



8 digits



9 digits



10 digits



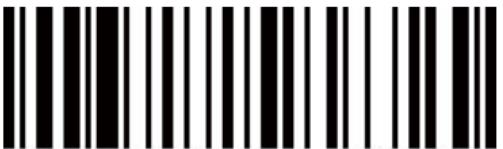
11 digits



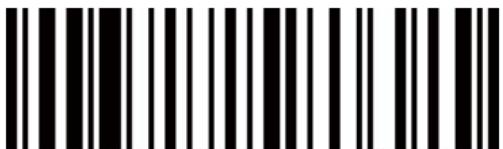
12 digits



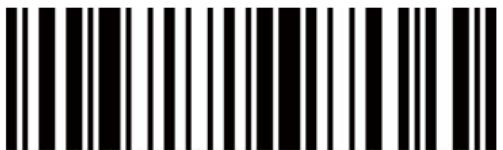
13 digit



14 digits



15 digits



16 digits

Timestamp

Please contact Tera customer service if you need time update tool.



Show Current Time



Off



Time Prefix



Time Suffix

Appendix

Appendix 1 - Printable Characters (for prefix-/suffix configuration)

Num	Printable	Symbol
32	Space	
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	}	
126	~	

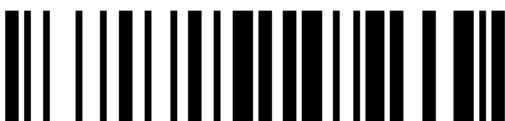
127	DEL	
-----	-----	--

Appendix 2 – Control Characters

DEC	ASCII	Set 0	Set 1	Set 2	Set 3
1	SOH	NULL	Home	Ctrl+A	Alt+001
Keypad Enter					
2	STX	Ctrl+B	End	Ctrl+B	Alt+002
Cap Lock					
3	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003
Right Arrow					
4	EOT	*Custom Key 1	Down Arrow	Ctrl+D	Alt+004
Up Arrow					

5	ENQ	*Custom Key2	Left Arrow	Ctrl+E	Alt+005
---	-----	--------------	------------	--------	---------

NULL



6	ACK	*Custom Key 3	Right Arrow	Ctrl+F	Alt+006
---	-----	---------------	-------------	--------	---------

NULL



7	BEL	*Custom Key 4	Shift+Tab	Ctrl+G	Alt+007
---	-----	---------------	-----------	--------	---------

Enter



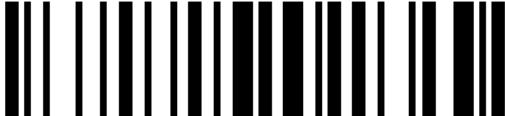
8	BS	Back Space	Back Space	Back Space	Alt+008
---	----	------------	------------	------------	---------

Left Arrow



9	HT	Tab	Tab	Tab	Alt+009
---	----	-----	-----	-----	---------

Tab



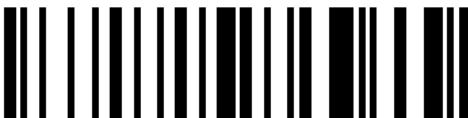
10	LF	Enter	Enter	Ctrl+P	Alt+010
----	----	-------	-------	--------	---------

Down Arrow



11	VT	NULL	NULL	Ctrl+Q	Alt+011
----	----	------	------	--------	---------

Tab



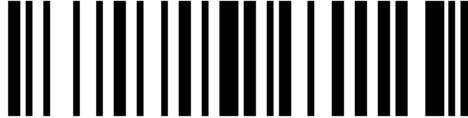
12	FF	NULL	NULL	Ctrl+R	Alt+012
----	----	------	------	--------	---------

delete



13	CR	Enter	Enter	Enter	Alt+013
----	----	-------	-------	-------	---------

Enter



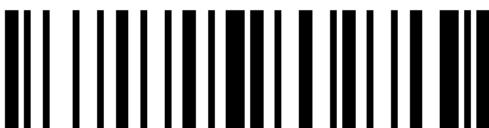
14	S0	F1	Page Up	Ctrl+N	Alt+014
----	----	----	---------	--------	---------

Insert



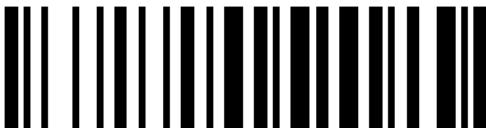
15	S1	F2	Page Down	Ctrl+O	Alt+015
----	----	----	-----------	--------	---------

Esc



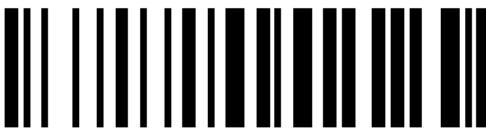
16	DLE	F3	F11	Ctrl+P	Alt+016
----	-----	----	-----	--------	---------

F11



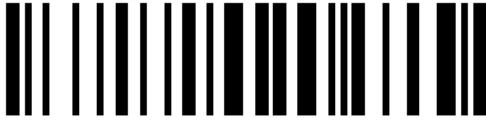
17	DC1	F4	NULL	Ctrl+Q	Alt+017
----	-----	----	------	--------	---------

Home



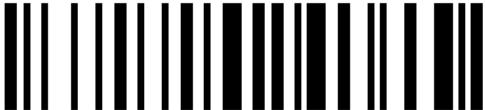
18	DC2	F5	NULL	Ctrl+R	Alt+018
----	-----	----	------	--------	---------

Print Screen



19	DC3	F6	NULL	Ctrl+S	Alt+019
----	-----	----	------	--------	---------

Back Space



20	DC4	F7	NULL	Ctrl+T	Alt+020
----	-----	----	------	--------	---------

Shift tab



21	NAK	F8	F12	Ctrl+U	Alt+021
----	-----	----	-----	--------	---------

F12



22	SYN	F9	F1	Ctrl+V	Alt+022
----	-----	----	----	--------	---------

F1



23	TB	F10	F2	Ctrl+W	Alt+023
----	----	-----	----	--------	---------

F2



24	CAN	F11	F3	Ctrl+X	Alt+024
----	-----	-----	----	--------	---------

F3



25	EM	F12	F4	Ctrl+Y	Alt+025
----	----	-----	----	--------	---------

F4



26	SUB	NULL	F5	Ctrl+Z	Alt+026
F5					
					
27	Esc	Esc	F6	Ctrl+[Alt+027
F6					
					
28	FS	ALT+028	F7	Ctrl+\	Alt+028
F7					
					
29	GS	ALT+029	F8	Ctrl+]	Alt+029
F8					
					
30	RS	NULL	F9	Ctrl+^	Alt+030
F9					
					
31	US	NULL	F10	Ctrl+_	Alt+031
F10					
					

Scan Modes



Sensor-activated Mode



Manual Trigger Mode

Sensitivity – Sensor-activated Mode



Ultra-high



High



Medium



Low

Reread Delay – Sensor-activated Mode Only

(The reread delay sets the time period before a scanner can read the same bar code a second time.)



200ms



350ms



500ms



1000ms



2000ms



3000ms

Illumination Lights



Lights On*



Lights Off