TR-UM016

Model: D5100Y

Wired 2D Barcode Scanner

User Manual

Ver.02.1.03

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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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-innovation.com

Contents

Factory Default

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

Factory Default

Firmware Version

To check firmware version, scan the barcode below.

Show Firmware Version

Interfaces

By default, the scanner is set to USB Keyboard mode.
If you need the scanner to communicate on a Virtual COM Port, scan the USB-COM configuration code.

USB Keyboard(PC)*

USB Keyboard (Mac)

USB-Serial

USB-COM

Scan Modes

Manual Trigger Mode*

Sensor-activated Mode

Reread Delay – Sensor-activated Mode

50ms

100ms

150ms

200ms

250ms

300ms

Lights

Illumination Light On*

Illumination Light Off

Beeper

On*

Off

Vibration

On*

Off

Terminators

None

Carriage Return <CR>

TAB <HT>

<CR> & <LF>

Keyboard Country Layout

Belgium

United Kingdom

France

Germany

Italy

Spain

United States

Japan

Sierra Leone

Turkey

Russia

Hungary

Keyboard Conversion

Convert All Characters to Lower Case

Convert All Characters to Upper Case

Conversion Off

USB Transfer Speed

High

Medium

Slow

Ultra-slow

Note: The transfer speed option only works after the scanner restarts.

Symbologies

Code ID

Code ID On

Code ID Off

Symbologies - Overview

All Symbologies On

All Symbologies Off

All 1D Symbologies On

All 1D Symbologies Off

All 2D Symbologies On

All 2D Symbologies Off

QR Code - Mirror

On

Off*

Data Matrix - Mirror

On

Off*

All Symbologies - Mirror

On

Off*

Inverse Barcodes Reading

Regular Only

Both Regular and Inverse

Airline 2 of 5

On

Off*

Aztec Code

On

Off*

Codabar

On*

Off

No Check Digit*

Validate and Transmit

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 Digit*

Validate and Transmit

Code 39 Full ASCII

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*

Maxi Code

On

Off*

Micro PDF417

On

Off*

Micro QR Code

On

Off*

MSI

On

Off*

PDF417

On*

Off

Pharmacode

On

Off*

QR Code

On*

Off

URL QR On*

URL QR 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*

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
EAN-8	D
UPC-A	c
EAN-13	d
Code 39	b
Codabar	a
Interleaved 2 of 5	e
China Post	Q
Code 128	j
Code 93	i

Symbology	Code ID
UPC-E	E
EAN-8	D
UPC-A	c
EAN-13	d
Code 39	b
Codabar	a
Interleaved 2 of 5	e
China Post	Q
Code 128	j
Code 93	i
MSI Plessey	g
Code 11	h
AIR2OF5-15	f
Matrix 2 of 5	m
Telepen	t
UK Plessey	n
AIR2OF5-13	f
Standard 2 of 5	F
TRIOPTIC	=
RSS14	y
RSS-Limited	{
RSS-Expanded	}
PDF417	r
Micro PDF417	R
Data Matrix	W
Aztec	z
QR	s
Micro QR	-
MaxiCode	x
GM	X

Group Separator

Replacement Off

Replace with |

Replace with Ç

Replace with]

Replace with ^]

Replace with <GS>

Replace with (GS)

Replace with ‘GS’

Replace with `GS`

Replace with GS

Replace with ?

Replace with *

Replace with [GS]

Replace with <0x1D>

Hiding Characters

Hide the First Characters

1 digit

2 digits

3 digits

4 digits

5 digits

6 digits

7 digits

8 digits

9 digits

Clear Settings

Hide the Last Characters

1 digit

2 digits

3 digits

4 digits

5 digits

6 digits

7 digits

8 digits

9 digits

Clear Settings

Add Prefix/Suffix

Note: The maximum size of a prefix or suffix configuration is 10 characters.

Steps to add a prefix/suffix:
For example, add 1 digit prefix/suffix and the character to be added is “（”, whose ASCII DEC value is 040.
1. Scan “Enter/Exit Programming Mode”.
2. Scan 1 digit symbol from the prefix/suffix section.
3. Scan “0”, “4”, “0” from the programming chart.
4. Scan “Enter/Exit Programming Mode”.

Steps to add multiple prefixes/suffixes:
1. Scan “Enter/Exit Programming Mode”.
2. Scan 1 digit symbol from the prefix/suffix section.
3. Scan desired values from the programming chart in order.
4. Scan 2 digits symbol from the prefix/suffix section.
5. Scan desired values from the programming chart in order.
6. Repeat the above steps if you need to configure over 2 digits.
7. Be sure to scan “Enter/Exit Programming Mode” .

Enter/Exit Programming Mode

Prefix Settings

1st digit

2nd digit

3rd digit

4th digit

5th digit

6th digit

7th digit

8th digit

9th digit

10th digit

Clear All Prefixes

Suffix Settings

Clear All Suffixes

1st digit

2nd digit

3rd digit

4th digit

5th digit

6th digit

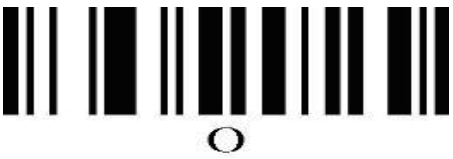
7th digit

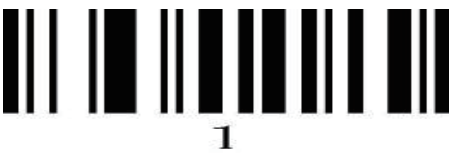
8th digit

9th digit

10th digit

Programming Chart (DEC)





5

6

7

8

9

Appendix: ASCII Chart

DEC	Char	DEC	Char	DEC	Char	DEC	Char
000	NUL	032	SP	064	@	096	‘
001	SOH	033	!	065	A	097	a
002	STX	034	"	066	B	098	b
003	ETX	035	#	067	C	099	c
004	EOT	036	$	068	D	100	d
005	ENQ	037	%	069	E	101	e
006	ACK	038	&	070	F	102	f
007	BEL	039	`	071	G	103	g
008	BS	040	(	072	H	104	h

009	HT	041	)	073	I	105	i
010	LF	042	*	074	J	106	j
011	VT	043	+	075	K	107	k
012	FF	044	,	076	L	108	l
013	CR	045	-	077	M	109	m
014	SOH	046	.	078	N	110	n
015	SI	047	/	079	O	111	o
016	DLE	048	0	080	P	112	p
017	DC1	049	1	081	Q	113	q
018	DC2	050	2	082	R	114	r
019	DC3	051	3	083	S	115	s
020	DC4	052	4	084	T	116	t
021	NAK	053	5	085	U	117	u
022	SYN	054	6	086	V	118	v
023	ETB	055	7	087	W	119	w
024	CAN	056	8	088	X	120	x
025	EM	057	9	089	Y	121	y
026	SUB	058	:	090	Z	122	z
027	ESC	059	;	091	[	123	{
028	FS	060	<	092	\	124	|
029	GS	061	=	093	]	125	}
030	RS	062	>	094	^	126	~
031	US	063	?	095	_	127	DEL

Extended ASCII Chart (CP-1252)

DEC	Char	DEC	Char	DEC	Char	DEC	Char
128	€	160		192	À	224	à
129		161	¡	193	Á	225	á
130	‚	162	¢	194	Â	226	â
131	ƒ	163	£	195	Ã	227	ã
132	„	164	¤	196	Ä	228	ä
133	…	165	¥	197	Å	229	å
134	†	166	¦	198	Æ	230	æ
135	‡	167	§	199	Ç	231	ç
136	ˆ	168	¨	200	È	232	è
137	‰	169	©	201	É	233	é
138	Š	170	ª	202	Ê	234	ê
139	‹	171	«	203	Ë	235	ë
140	Œ	172	¬	204	Ì	236	ì
141		173		205	Í	237	í
142	Ž	174	®	206	Î	238	î
143		175	¯	207	Ï	239	ï
144		176	°	208	Ð	240	ð
145	‘	177	±	209	Ñ	241	ñ
146	’	178	²	210	Ò	242	ò
147	“	179	³	211	Ó	243	ô
148	”	180	´	212	Ô	244	ô
149	•	181	µ	213	Õ	245	õ
150	–	182	¶	214	Ö	246	ö
151	—	183	·	215	×	247	÷
152	˜	184	¸	216	Ø	248	ø
153	™	185	¹	217	Ù	249	ù
154	š	186	º	218	Ú	250	ú
155	›	187	»	219	Û	251	û
156	œ	188	¼	220	Ü	252	ü
157		189	½	221	Ý	253	ý
158	ž	190	¾	222	Þ	254	þ
159	Ÿ	191	¿	223	ß	255	ÿ