

TR-UM011

Tera

Model No.: 1500C / 2500C

CCD 1D Barcode Scanner

User Manual



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Chapter 1 General Settings

Factory Default

Scan Factory Default barcode to reset the scanner to factory default settings.



Factory Default

Check Version Number

Scan the barcode below to check scanner version number.



Show Version Number

Custom Factory Default

You have the ability to create a set of commands as your own custom defaults. After setting is done, the custom default settings will replace the factory defaults and they won't get lost even if the scanner is restarted.



Set Custom Defaults



Save Custom Defaults

Note: The above two barcodes should be scanned in sequence. When the two barcodes are scanned, the current settings will be saved as custom default

settings. Even if Factory Default barcode is scanned, the scanner will remain the custom default settings.

Beeper Sound



All Sounds On*



All Sounds Off



Regular Barcodes -
Good Read Off



Programming Barcodes -
Good Read On

Beeper Volume



Volume Up



Volume Down

Inverse Barcodes Reading

Regular and Inverse Barcodes



Regular Only



Both Regular and Inverse

Chapter 2 Communications Settings

USB Keyboard Interface



USB-KBW*

Keyboard Country Layout



United States
(American English)



Japan
(Japanese)



Germany
(German)



Spain
(Spanish-International)



Russia (Russian)



United Kingdom
(British English)



Italy (Italian)



France (French)

Case Conversion



Conversion Off*



Convert All Characters
to Upper Case



Convert All Characters
to Lower Case



Invert Case of All
Characters

Note: The settings are only valid when the scanner is in standard USB-KBW mode, or inputs control characters with virtual keyboard.

USB Transfer Speed



USB Fast Transfer On



USB Fast Transfer Off*

User Specified Intercharacter Delay

Adjustment of intercharacter delay will change USB transfer speed. The shorter the delay is, the faster the transfer will be. Intercharacter delay is customizable with delay range from 0 to 30ms. By default, the intercharacter delay is 4ms.



No Delay



4ms Delay*



8ms Delay



12ms Delay

USB-COM Virtual Serial Port

When the scanner is connected to the host device by USB port and the host device is expected to handle the data via serial port, it is advised to set the scanner to function as serial port. In this case, the scanner works like connecting to the host device via serial port.

Note: To enable this feature, it is necessary to install a driver on the host device. If needed, contact Tera customer service for help.



USB-COM

Chapter 3 Scan Modes

Manual Trigger Mode



Manual Trigger Mode*

Continuous Scan Mode



Continuous Scan Mode

Note: The scanner won't read the same barcode twice when the barcode is in its read range.

Sensor-activated Mode



On



Off*

Note: To enable this mode, the scanner should be switched to Manual Trigger Mode first.

Chapter 4 Data Edit

Code ID



Transmit Code ID



Don't Transmit Code ID*

Note: For Code ID details, refer to "Appendix - Code ID".

Add Prefix

Add a prefix

How to set up a prefix:

1. Scan the “Add Prefix” symbol.
2. Scan barcodes needed from Appendix – Character Chart.
3. Scan the “Save and Exit” symbol.

Note: The maximum size of a prefix configuration is 32 characters.



Add Prefix



Save and Exit

Clear Prefixes



Clear Prefixes

Add Suffix

Add a suffix



Add Suffix



Save and Exit

1. Scan the “Add Suffix” symbol.
2. Scan barcodes needed from Appendix – Character Chart.
3. Scan the “Save and Exit” symbol.

Clear Suffixes



Clear Suffixes

Hiding Characters

You have the ability to edit the output in accordance with your needs. For example, a barcode reads “123456”. With the first two digits hidden, the host device reads “3456”; with the last two digits hidden, the output will be “1234”.

Hide the First Characters



1 digit



2 digits



3 digits



5 digits



Don't hide any digits*

Hide the Last Characters



1 digit



2 digits



3 digits



5 digits



Don't hide any digits*

Hide the Middle Characters

Hide Characters from the M digit.



The 1st digit



The 2nd digit



The 3rd digit



The 4th digit



The 5th digit



The 6th digit

Digits to be hidden



1 digit



2 digits



3 digits



4 digits



5 digits



6 digits



Don't hide any digits*

Terminators



Add <CR> (0x0D) *



Add <LF> (0x0A)



Add <CR><LF> (0x0D,0x0A)



Add <HT> (0x09)



None

Chapter 5 Symbolologies

UPC-A



UPC-A On*



UPC-A Off

Transmit Check Character



On*



Off

Transmit Leading Characters (System Digit)



Transmit Leading
Characters*



Don't Transmit
Leading Characters

UPC-A Converted to EAN-13

UPC-A is able to be converted to EAN-13 by adding a zero before the barcode contents. By default, this feature is disabled.



On



Off*

UPC-E



UPC-E On*



UPC-E Off

Transmit Check Character

UPC-E numbers must be 8 digits and the last digit is a calculated check digit, which is used for error detection. The scanner defaults to transmitting check digit.



Transmit Check Character*



Don't Transmit Check
Character

Transmit Leading Characters (System Digit)



Transmit Leading
Characters*



Don't Transmit Leading
Characters

Converted to UPC-A

UPC-E is a 6-digit code, which has its equivalent in UPC-A 12-digit code with number system 0 or 1. By default, this feature is disabled.



On



Off*

EAN-8



EAN-8 On*



EAN-8 Off

Transmit Check Character

EAN-8 numbers must be 8 digits and the last digit is a calculated check digit, which is used for error detection. The scanner defaults to transmitting check digit.



Transmit Check Character*



Don't Transmit Check Character

Transmit Leading Characters (System Digit)



Transmit Leading Characters*



Don't Transmit Leading Characters

EAN-13



EAN-13 On*



EAN-13 Off

Transmit Check Character

EAN-13 numbers must be 13 digits and the last digit is a calculated check digit, which is used for error detection. The scanner defaults to transmitting check digit.



Transmit Check Digit*



Don't Transmit
Check Digit

Converted to ISBN



On



Off*

Converted to ISSN



On



Off*

UPC/EAN/JAN Addenda

Addenda (supplement) refers to the 2-digit or 5-digit data attached after a regular UPC/EAN/JAN barcode. As shown in the pictures, the barcode marked with blue rectangle is a regular EAN barcode and the shorter barcode marked with red rectangle is an addenda. Addenda off is the default setting.





2-digit Addenda On



5-digit Addenda On



2-digit & 5-digit Addenda On



Addenda Off*



Addenda Required



Addenda Not Required*

Code 128



Code 128 On*



Code 128 Off

Code 39



Code 39 On*



Code 39 Off

Code 39 Check Character



Transmit Check Digit



Don't Transmit Check Digit*



MOD43 Check Digit On



MOD43 Check Digit Off*

Start and Stop Characters



Transmit Start &
Stop Characters



Don't Transmit Start &
Stop Characters*

Full ASCII Code 39



Full ASCII On*



Full ASCII Off

Code 32



Code 32 On



Code 32 Off*

Note: Code 39 reading accuracy will decrease when Code 32 is enabled. Only when Code 39 is enabled with no check digit required can Code 32 Pharmaceutical be read.

Code 93



Code 93 On*



Code 93 Off

Code 93 Check Character



MOD47 Check Digit On*



MOD47 Check Digit Off

Code 11



Code 11 On*



Code 11 Off

Code 11 Check Character



Check Digit On*



Check Digit Off



Check Digit Auto

Codabar (NW-7)

Codabar



Codabar On*



Codabar Off

Start Characters and Stop Characters



Transmit Start/Stop
Characters



Don't Transmit Start/ Stop
Characters*

Interleaved 2 of 5



Interleaved 2 of 5 On*



Interleaved 2 of 5 Off

Interleaved 2 of 5 Check Character



Transmit Check Digit



Don't Transmit Check Digit*



Check Digit On



Check Digit Off*

Matrix 2 of 5



Matrix 2 of 5 On*



Matrix 2 of 5 Off

Industrial 2 of 5



Industrial 2 of 5 On*



Industrial 2 of 5 Off

Standard 2 of 5(IATA)



Standard 2 of 5 On*



Standard 2 of 5 Off

MSI Plessey



MSI Plessey On



MSI Plessey Off*

Plessey



Plessey On



Plessey Off*

China Post (Datalogic 2 of 5)

China Post



China Post On



China Post Off*

Febraban



Febraban On



Febraban Off*

GS1 DataBar 14(RSS-14)



GS1 DataBar 14 On



GS1 DataBar 14 Off*

Note: GS1 DataBar 14 is also called GS1 DataBar Omnidirectional, RSS-14.

GS1 DataBar Limited (RSS-Limited)

RSS-Limited



RSS-Limited On



RSS-Limited Off*

Note: GS1 DataBar Limited is also known as RSS-Limited.

Chapter 6 Appendix

Appendix - Code ID

Number	Code Type	Code ID	Value (Prefix/Suffix)
1	All Symbolologies	@	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 – Character Chart

(For adding prefix/suffix)

 1001 SOH (01)	 1002 STX (02)	 1003 ETX (03)
 1004 EOT (04)	 1005 ENQ (05)	 1006 ACK (06)
 1007 BEL (07)	 1008 Retroceso (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)

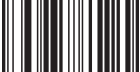
 1034 “ (22)	 1035 # (23)	 1036 \$ (24)
 1037 % (25)	 1038 & (26)	 1039 ‘ (27)
 1040 ((28)	 1041) (29)	 1042 * (2A)
 1043 + (2B)	 1044 , (2C)	 1045 - (2D)
 1046 . (2E)	 1047 / (2F)	 1048 0 (30)
 1049 1 (31)	 1050 2 (32)	 1051 3 (33)

 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 (5)

 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)	 1107 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)	 1128 F1	 1129 F2
 1130 F3	 1131 F4	 1132 F5
 1133 F6	 1134 F7	 1135 F8
 1136 F9	 1137 F10	 1138 F11
 1139 F12	 1140 Insert	 1141 Home

 1142 Page up	 1143 Delete	 1144 END
 1145 Page down	 1146 Right arrow	 1147 Left arrow
 1148 Down arrow	 1149 Up arrow	

Appendix - ASCII Conversion Chart

Note: The first 31 characters are control characters and the characters from 32 to 127 are printable characters.

HEX	ASCII (DEC)	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)

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