

## Section I

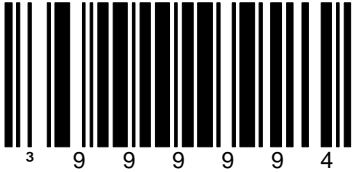
### Keyboard

E/D = Enable/Disable

T/DNT = Transmit/Do Not Transmit

Load Keyboard Wedge Defaults	(I - 1)	PS/2 Keyboard	(I - 5)
Enable Keyboard Wedge Emulation	(I - 1)	Enable Auto Detect Mode (AT Only)	(I - 5)
Enable Stand-Alone Keyboard Emulation	(I - 1)	Disable French PC Term	(I - 5)
Switzerland Keyboard	(I - 1)	E/D Caps Lock (PS/2 or XT)	(I - 6)
IBM 4700 Financial Keyboard	(I - 2)	Inter Scan Code Delay 800 Microseconds	(I - 6)
USA Keyboard	(I - 2)	Inter Scan Code Delay 7.5 msec	(I - 6)
Spain Keyboard	(I - 2)	Inter Scan Code Delay 15 msec	(I - 7)
Italy Keyboard	(I - 2)	Variable Inter Scan Code Delay	(I - 7)
Germany Keyboard	(I - 3)	Send Numbers as Keypad Data	(I - 7)
France Keyboard	(I - 3)	Send Numbers as Normal Data	(I - 7)
UK Keyboard	(I - 3)	T/DNT Cleanup Bit	(I - 8)
Belgium Keyboard	(I - 4)	Transmit Make Code Only	(I - 8)
E/D Alt Mode	(I - 4)	Transmit Make/Break Code	(I - 8)
XT Keyboard	(I - 4)	T/DNT F0H Break Code (AT and PS/2)	(I - 9)
AT Keyboard	(I - 4)	E/D Function/Control Key Support	(I - 9)

### Load Keyboard Wedge Defaults



Scan this first, then select Normal or Stand Alone Mode.

### Enable Stand-Alone Keyboard Emulation



If keyboard emulation is enabled, scan this bar code to enable the Stand-Alone Mode.

### Enable Keyboard Wedge Emulation



This option should be selected if the scanner will provide keyboard emulation by converting the scanned bar code data to the PC keyboard scan code equivalent.

### Switzerland Keyboard



If keyboard emulation is enabled, scan this bar code to enable the keyboard type Switzerland.

**IBM 4700 Financial Keyboard**



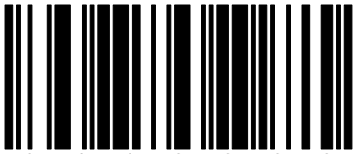
If keyboard emulation is enabled, scan this bar code to enable the keyboard type IBM 4700 Financial.

**Spain Keyboard**



If keyboard emulation is enabled, scan this bar code to enable the keyboard type Spain.

**\*USA Keyboard**



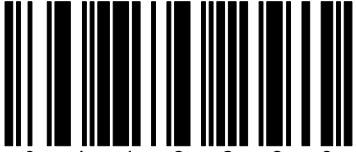
If keyboard emulation is enabled, scan this bar code to enable the keyboard type USA.

**Italy Keyboard**



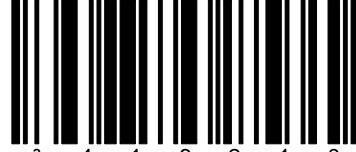
If keyboard emulation is enabled, scan this bar code to enable the keyboard type Italy.

**Germany Keyboard**



If keyboard emulation is enabled, scan this bar code to enable the keyboard type German.

**UK Keyboard**



If keyboard emulation is enabled, scan this bar code to enable the keyboard type UK.

**France Keyboard**



If keyboard emulation is enabled, scan this bar code to enable the keyboard type France.

**Belgium Keyboard**



If keyboard emulation is enabled, scan this bar code to enable the keyboard type Belgium.

### Enable Alt Mode



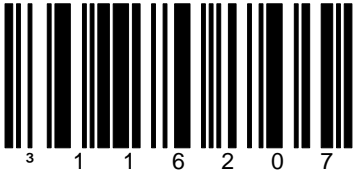
When the option is enabled, the scanner will duplicate this keyboard sequence: Hold down the Alt key: Type the decimal number that corresponds to the appropriate character.

### XT Keyboard



If using an XT computer, scan the above.

### \*Disable Alt Mode



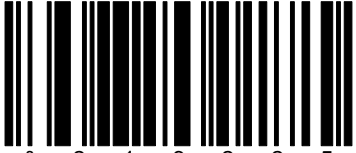
Caution: If the host software application uses the Alt key as a "Hot" key, make sure Alt mode is disabled.

### \*AT Keyboard



If using an AT computer, scan the above. (includes IBM PS/2 and compatible models 50, 55, 60, 80).

**PS/2 Keyboard**



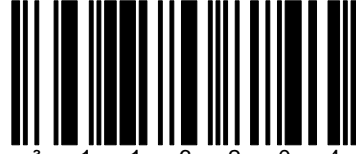
If using a PS/2 computer, scan the above. (includes IBM PC and compatible models 30, 70, 8556)

**Enable Auto Detect Mode (AT Only)**



Automatically detects Caps Lock status.

**\*Disable Auto Detect Mode (AT Only)**



When this option is disabled, the Caps Lock feature is not supported.

**Enable Caps Lock (PS/2 or XT)**



User-defined Caps Lock status.

**\*Inter Scan Code Delay 800 Microseconds**



The time specified represents the amount of time between individual 9-bit scan codes. This parameter may need to be adjusted for operation with certain PC keyboard BIOS.

**\*Disable Caps Lock (PS/2 or XT)**



When this option is disabled, the Caps Lock feature is not supported.

**Inter Scan Code Delay 7.5 msec**



The time specified represents the amount of time between individual 9-bit scan codes. This parameter may need to be adjusted for operation with certain PC keyboard BIOS.

### Inter Scan Code Delay 15 msec



The time specified represents the amount of time between individual 9-bit scan codes. This parameter may need to be adjusted for operation with certain PC keyboard BIOS.

### Send Numbers as Keypad Data

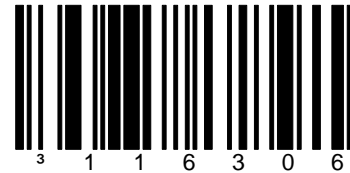


When this option is enabled, all numeric data is sent as if it had been enabled on a keypad.

### Variable Inter Scan Code Delay



### \*Send Numbers as Normal Data





**Transmit Cleanup Bit**



**Transmit Make Code Only**



Do not change unless instructed to do so by a Metrologic representative.

**\*Do Not Transmit Cleanup Bit**



**\*Transmit Make/Break Code**



Do not change unless instructed to do so by a Metrologic representative.

**\*Transmit F0H Break Code (AT and PS/2)**



When this option is chosen, the scanner will transmit the F0H in the break-code sequence.

**Enable Function/Control Key Support**



**Do Not Transmit F0H Break Code (AT and PS/2)**



When enabled, the scanner will not transmit the F0H in the break-code sequence.

**\*Disable Function/Control Key Support**



## Section J

### OCIA

Enable OCIA Mode	(J - 1)
Enable DTS/Nixdorf	(J - 1)
Enable DTS/Siemens	(J - 1)
Enable NCR F	(J - 1)
Enable NCR-S	(J - 2)
Load OCIA Defaults	(J - 2)

**Enable OCIA Mode**

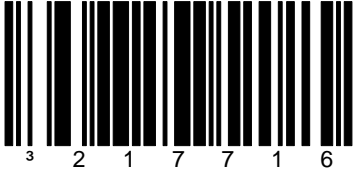


This option should be selected if the communications requirement is OCIA (Optically Coupled Interface Adapter). This is a clocked (by the host) serial interface.

**Enable DTS/Siemens**



**\*Enable DTS/Nixdorf**



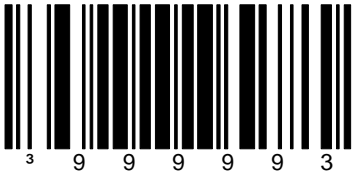
**Enable NCR F**



**Enable NCR-S**



**Load OCIA Defaults**



## Section K

### Light Pen

E/D = Enable/Disable

P/DNP = Poll/Do Not Poll

Enable Light Pen Mode	(K - 1)	50x Narrow Element Border	(K - 3)
Spaces High	(K - 1)	E/D Light Pen Extra Toggle	(K - 4)
Bars High	(K - 1)	1 ms Minimum Element Width	(K - 4)
Transmit as Code 39	(K - 2)	500 us Minimum Element Width	(K - 4)
Transmit as Scanned	(K - 2)	100 us Minimum Element Width	(K - 5)
P/DNP Light Pen Source	(K - 2)	60 us Minimum Element Width	(K - 5)
E/D Light Pen Toggle on Decode	(K - 3)	Variable Minimum Element Width	(K - 5)
10x Narrow Element Border	(K - 3)		

### Enable Light Pen Mode



This option should be selected if the scanner will be used in place of a light pen. It will provide light pen emulation of each bar code that is scanned.

### \*Bars High



### Spaces High



**Transmit as Code 39**



All bar codes will be decoded then transmitted as a code 39 bar code.

**Poll Light Pen Source**



When this option is chosen, the scanner will wait for an active source voltage before transmitting the data.

**\*Transmit as Scanned**



All bar codes will be decoded in their original format.

**\*Do Not Poll Light Pen Source**



When this option is chosen, the scanner will not wait for an active source voltage before transmitting the data.



**Enable Light Pen Toggle on Decode**



When enabled, the scanner will toggle the light pen data line on a successful decode.

**10x Narrow Element Border**



This bar code allows the transmission of Light Pen/Wand emulation using a 10x border.

**\*Disable Light Pen Toggle on Decode**



**\*50x Narrow Element Border**



This bar code allows the transmission of Light Pen/Wand emulation using a 50x border.

**Enable Light Pen Extra Toggle**



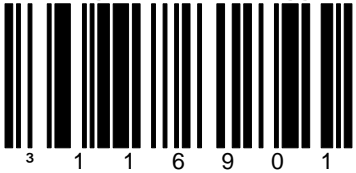
When enabled, the scanner will toggle the light pen data line on a successful decode.

**\*1 ms Minimum Element Width**



This bar code allows the transmission of Light Pen/Wand emulation using a 1 ms minimum element width.

**\*Disable Light Pen Extra Toggle**

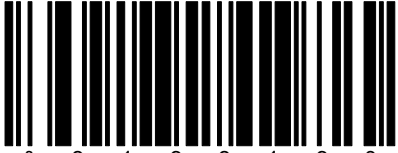


**500 us Minimum Element Width**



This bar code allows the transmission of Light Pen/Wand emulation using a 500 us minimum element width.

**100 us Minimum Element Width**



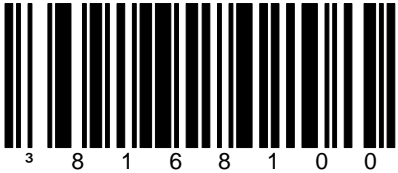
This bar code allows the transmission of Light Pen/Wand emulation using a 100 us minimum element width.

**Variable Minimum Element Width**



Requires code byte. Multiple of 6 us.

**60 us Minimum Element Width**



This bar code allows the transmission of Light Pen/Wand emulation using a 60 us minimum element width.

## Section L

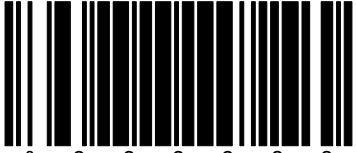
### Reserved Codes

E/D = Enable/Disable

E/D Reserved Code

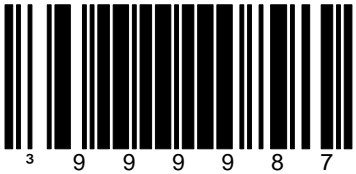
(L - 1)

**Enable Reserved Code**



Contact Metrologic for information about this feature.

**Disable Reserved Code**



## Section M

### Code Bytes

Code Byte Table	(M - 1)	Code Byte 5	(M - 3)
Code Byte 0	(M - 2)	Code Byte 6	(M - 3)
Code Byte 1	(M - 2)	Code Byte 7	(M - 3)
Code Byte 2	(M - 2)	Code Byte 8	(M - 4)
Code Byte 3	(M - 2)	Code Byte 9	(M - 4)
Code Byte 4	(M - 3)	ASCII Reference Table	(M - 5 - M - 9)

## Code Byte Usage

### !!!NOTE!!!

User Programmable Prefixes, Symbol Length and other features that use these Code Bytes for configuration, require that the scanner be in Program Mode. Scan the Enter/Eit Program Mode bar code before starting the configuration cycle. Single Code Programming Mode does not work for these multi-code sequences.

### !!!END!!!

User selectable prefix/suffix characters (sections C and D) can be programmed into the scanner by scanning the 3 digit decimal equivalent of the ASCII character into the appropriate character location with the Code Byte bar codes. For example, scan Programmable Prefix Character 1, Code Byte 0, Code Byte 0, Code Byte 7 (007 = decimal equivalent of an ASCII "BEL" character) and the scanner will transmit an ASCII "BEL" character before each bar code. See the ASCII Reference Table on pages M-4 through M-9.

**Code Type Table**

<b>CODE BYTE</b>	<b>CODE TYPES</b>
004	UPC-A
002	UPC-E
003	EAN-8
005	EAN-13
080	Code 39
081	Codabar
082	Interleaved 2 of 5
083	Code 128
084	Code 93
091	MSI Plessey
092	Code 11
093	Airline 2 of 5 (15 digits)
094	Matrix 2 of 5
095	Telepen
096	UK Plessey
099	TRI-OPTIC
098	Standard 2 of 5
097	Airline 2 of 5 (13 digits)



Code Byte 0



Code Byte 2



Code Byte 1



Code Byte 3



**Code Byte 4**



**Code Byte 6**



**Code Byte 5**



**Code Byte 7**



**Code Byte 8**



**Code Byte 9**



ASCII Reference Table

HEX VALUE	DECIMAL VALUE	CHARACTER	CONTROL KEYBOARD EQV
00	000	NUL	@
01	001	SOH	A
02	002	STX	B
03	003	ETX	C
04	004	EOT	D
05	005	ENQ	E
06	006	ACK	F
07	007	BEL	G
08	008	BS	H
09	009	HT	I
0A	010	LF	J
0B	011	VT	K
0C	012	FF	L
0D	013	CR	M
0E	014	SO	N
0F	015	SI	O
10	016	DLE	P
11	017	DC1	Q
12	018	DC2	R
13	019	DC3	S
14	020	DC4	T
15	021	NAK	U
16	022	SYN	V
17	023	ETB	W
18	024	CAN	X
19	025	EM	Y

HEX VALUE	DECIMAL VALUE	CHARACTER	CONTROL/ALTERNATE KEYBOARD EQV
1A	026	SUB	Z
1B	027	ESC	[
1C	028	FS	\
1D	029	GS	]
1E	030	RS	^
1F	031	US	_
20	032	SP	space, blank
21	033	!	
22	034	"	
23	035	#	
24	036	\$	
25	037	%	
26	038	&	
27	039	'	apostrophe
28	040	(	
29	041	)	
2A	042	*	
2B	043	+	
2C	044	,	comma
2D	045	-	minus
2E	046	.	period
2F	047	/	
30	048	0	number zero
31	049	1	number one
32	050	2	
33	051	3	

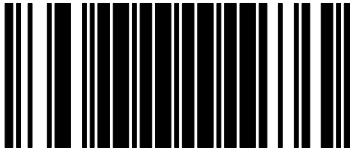
HEX VALUE	DECIMAL VALUE	CHARACTER	ALTERNATE KEYBOARD EQV
34	052	4	
35	053	5	
36	054	6	
37	055	7	
38	056	8	
39	057	9	
3A	058	:	
3B	059	;	
3C	060	<	less than
3D	061	=	
3E	062	>	greater than
3F	063	?	
40	064	@	shift P
41	065	A	
42	066	B	
43	067	C	
44	068	D	
45	069	E	
46	070	F	
47	071	G	
48	072	H	
49	073	I	letter I
4A	074	J	
4B	075	K	
4C	076	L	
4D	077	M	

HEX VALUE	DECIMAL VALUE	CHARACTER	ALTERNATE KEYBOARD EQV
4E	078	N	
4F	079	O	letter O
50	080	P	
51	081	Q	
52	082	R	
53	083	S	
54	084	T	
55	085	U	
56	086	V	
57	087	W	
58	088	X	
59	089	Y	
5A	090	Z	
5B	091	[	shift K
5C	092	\	shift L
5D	093	]	shift M
5E	094	^	↑, shift N
5F	095	~	←, shift O, underscore
60	096		accent grave
61	097	a	
62	098	b	
63	099	c	
64	100	d	
65	101	e	
66	102	f	
67	103	g	

HEX VALUE	DECIMAL VALUE	CHARACTER	ALTERNATE KEYBOARD EQV
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	{	
7C	124		vertical slash
7D	125	}	alt mode
7E	126	~	(alt mode)
7F	127	DEL	delete, rubout



ENTER/EXIT PROGRAM MODE



3 9 9 9 9 9 9

**RECALL DEFAULTS**



3

9

9

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9

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8