

# **1D Barcode Scanner**

## **User Manual**

Wire/Bluetooth

**V6.2**

1



# Table of Contents

Quick-start .....	4
Restore defaults.....	4
Quick-start : Bluetooth.....	4
General Settings.....	5
Instant upload Mode.....	5
Storage Mode.....	5
Transmission speed.....	6
HID-speed.....	6
Upload speed.....	6
Power and Standby.....	8
Bluetooth- Setup.....	9
Buzzer setup.....	10
End character.....	10
Capital & Lowercase.....	10
Barcode Reading function.....	11
Decoder global control.....	11
ID, ON/OFF, Min-digits.....	11
Duplicate barcode upload Setup.....	12
Barcode Parameter Settings.....	13
UPCA.....	13
UPCE.....	13
EAN13.....	14
EAN13 to ISSN/ISBN.....	14
EAN8.....	14
UPC&EAN Extra code.....	14
Code39.....	15
Code32.....	15
Code128.....	15
Code93.....	15
Code11.....	16
Codabar.....	16
Industrial 2 of 5.....	17
Interleaved 2 of 5.....	17
MSI.....	17
Pharm a code.....	17

GS1 .....	17
Data editing .....	18
Relevant setting barcode .....	18
Example: Insert character .....	19
Example: Delete character .....	20
Quick delete character .....	21
Quick insert character .....	21
Quick replaces character .....	21
Time system .....	22
Time setting and examples .....	22
Time output and examples .....	23
LED description .....	24
FAQ .....	25
Factory Defaults-Caution .....	25
Appendix 1: ASCII characters .....	26
Appendix 2: ASCII Barcode Table .....	29
Appendix 3: Language .....	33
FCC User Manual Guidance .....	34
ISED Canada User Manual Guidance .....	34

## Quick-start

### Restore defaults

Scan the "Restore Custom defaults".



### Quick-start : Bluetooth

#### For Android, IOS

- 1, Press the button, the scanner starts, The red light flashing and the blue light is on which means in matching mode.
- 2, The Scanner name: "Scanner xxx", xxx is 3 random Numbers.
- 3, Choose the scanner is going to pair with the host, When the

connection is successful, the red light goes out and the blue light is on, the buzzer rang "Di-di".

## General Settings

### Working Mode

**Two upload mode:** Instant upload mode、storage mode.

#### Instant upload Mode

Instant upload data to your computer.



Instant upload Mode

(1) Upload successful: The status light flashed and the buzzer rang "Di".

(2) Upload failed: The red light flashed and the buzzer rang "Di—en".

If you receive upload-failed, Please confirm the match is successful.

If you receive upload-successful but no data, Please confirm the dongle in USB-HID mode.




#### Storage Mode

Scan and store barcode inside the scanner, and uploaded the data to your computer when you need it.



Storage Mode

Note: Instant upload mode and storage mode, the sound of reading barcode is different.

 Show total storage (Show total number of memory)	 Upload Data (Upload Data to your computer)
 Zero clearing (Clear all data in memory, Please use it with caution)	

1. Save successful: The status light flashed and the buzzer rang "Di-en".

2. Save failed: The red light flashed and the buzzer range "Di—en", This










indicates that there was not enough memory to save the bar code. Please upload the saved bar code by scanning "Upload Date" and then clear the Memory by scanning "Zero cleaning".

3. Upload completed: the buzzer rang "Di-do-en".

### Transmission speed










#### HID-speed

Set the delay between each character, the range of 00-99 can be set. the larger the value, the slower.

 No delay	 HID-speed 5	 HID-speed 10
 HID-speed 15	 HID-speed 20	 HID-speed 30
 HID-speed 40	 HID-speed 50	 HID-speed 60
<p>1, In Bluetooth mode, this parameter is stored in the scanner, the default is "HID-speed 30".</p> <p>2, In Bluetooth mode, if the data is lost, please set a slower HID speed.</p>		

#### Upload speed

For storage mode, set the time delay between each barcode, the range of 001-255 can be set. the larger the value, the slower, the defaults is "010".










 Upload-speed 000	 Upload-speed 001	 Upload-speed 002
 Upload-speed 005	 Upload-speed 010*	 Upload-speed 015
 Upload-speed 040	 Upload-speed 050	 Upload-speed 060

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## Power and Standby



Battery Reserve (show battery level)

Shutdown time setting		
 90s	 2min*	
 5min	 30min	
 60min	 166min40s	
There are 2 setting codes set for Not shutdown.		
 Not shutdown	 Not shutdown-Enabled once	 Shutdown

### Battery level indication

1. The scanner starts, when the buzzer rang "Di-di-di" and the blue light is on with no red light flashing, it indicates that the battery is sufficient.
2. The scanner starts, when the buzzer rang "Di-di-di" and the blue light is on with the red light flashes three times, it indicates that the battery less than 20%, please charge the scanner as soon as possible.
3. The scanner starts, when the buzzer rang "Di-di-di" and the blue light is on with the red light flashes three times, it indicates that the battery less than 5%, The scanner enters the low battery protection mode. Please charge the scanner at least for 30 minutes.
4. Press the button, the scanner does not respond. Please charge the scanner at least for 30 minutes. If the scanner still cannot start, this indicates that the battery is broken and needs to be replaced.

### LED tips during charging

Plugged the USB cable into the USB port of computer.









1. Charging mode: the status light is on with the red light flashing.
2. Charging completed: the status light is on and the red light goes out.
3. Micro-current charging: the status light off and the red light flashing, this is battery protection phase, please do not use it in this condition.



## Bluetooth- Setup

### Bluetooth operation

1, Press the button for 10seconds, 2: Scan the settings barcode.

Bluetooth Mode		
 Bluetooth-HID	 Bluetooth-SPP	 Bluetooth-BLE
<b>IOS keyboard</b>  Show/hide IOS keyboard Note: Scan this barcode to show/hide the keyboard in IOS		
 Show/hide IOS keyboard double-click -ON*	 Show/hide IOS keyboard double-click -OFF	
Bluetooth connection settings		
 Off connection	 Connection initialization	

### Buzzer setup

Turn on all sounds*		Turn off all sounds	
Sound frequency 2048HZ		Sound frequency 2731HZ	
Low volume	Medium volume	High volume*	
Sound settings			
Beep after good decode-ON*		Beep after good decode-OFF	
Boot sound-ON*		Boot sound-OFF	
Setup code sound-ON*		Setup code sound-OFF*	

### End character

End character is used to mark the end of a barcode data.	
CR*	LF
Tab	CR+LF
None	

### Capital & Lowercase

Swap capital/lowercase	All lowercase
All capital	Don't convert*

## Barcode Reading function

### Decoder global control


 All types -ON	 Default type *
--	--

### ID, ON/OFF, Min-digits

Barcode type	Barcode-ID	ON/OFF default	Minimum digits
UPCA	b	ON	No
UPCE	c	ON	No
EAN13	e	ON	No
EAN8	d	ON	No
ISBN,ISSN	f	OFF	No
Code39	a	ON	1
Code32	C	OFF	No
Code128	g	ON	2
Code11	M	OFF	4
Code93	h	ON	1
Codabar	k	ON	4
交叉25码	i	ON	4
工业25码	j	ON	4
Pharmacode	P	OFF	2
MSI	l	OFF	4
GS1D	D	OFF	No
GS1L	L	OFF	No
GS1E	E	OFF	No

#### Barcode-ID:

The scanner defines ID characters for each type of barcode, we can use the Code ID prefix to identify the barcode type.







 Send ID-OFF *	 Send ID-ON
--	--

#### Minimum digits:

In order to prevent error codes, the scanner sets the minimum number of digits for barcode reading. Bar codes less than the default minimum digit are not readable.









## Duplicate barcode upload Setup

For a period of time, the same barcode is not allowed to be read continuously to avoid repeated upload.









 Duplicate detection-OFF* (upload duplicate barcode)	 Duplicate detection-ON (Unable to upload duplicate barcode)
 Duplicate detection 1 S	 Duplicate detection 5 S
 Duplicate detection 10 S	 Duplicate detection 25 S
<p>For example: Set the "Duplicate detection 5 S".</p> <p>After scanning A bar code, the scanning A bar code will not be uploaded within 5 seconds, and it will be handled as upload failure, Scan other barcodes and then scan A barcode to upload.</p>	

## Barcode Parameter Settings











### UPCA

 UPCA-ON*	 UPCA-OFF
Check Digit: UPCA data is 12 bits, the 12th bit is the check digit, Default output.	
 Output UPCA check digit-ON*	 Output UPCA check digit-OFF
System character: The first digit of UPCA, Default output.	
 Output UPCA system character-ON*	 Output UPCA system character-OFF
UPCA to EAN13	
UPCA to EAN13 by adding a "0" in front of it, and the type is converted to EAN13.	
 UPCA to EAN13-ON	 UPCA to EAN13-OFF*







### UPCE

 UPCE-ON*	 UPCE-OFF
Check Digit: UPCE data is 8 bits, the eighth bit is the check digit, Default output.	
 Output UPCE check digit-ON*	 Output UPCE check digit-OFF
System character: The first digit of UPCE, Default output.	
 Output UPCE system character-ON*	 Output UPCE system character-OFF
UPCE to UPCA	
UPCE can be extended to UPCA, and the type is converted to EAN13.	
 UPCE to UPCA-ON	 UPCE to UPCA-OFF*






**EAN13**

 EAN13-ON*	 EAN13-OFF
Check Digit: EAN13 data is 13 bits, the 13th bit is the check digit, Default output.	
 Output EAN13 check digit-ON*	 Output EAN13 check digit-OFF
 Output EAN13 country code-ON*	 Output EAN13 country code-OFF*
<b>EAN13 to ISSN/ISBN</b>	
The 977 header is used for ISSN and 978 for ISBN.	
 EAN13 to ISSN-ON	 EAN13 to ISSN-OFF*
Set ON, the "977" before the barcode is deleted, and the type is converted to ISSN.	
 EAN13 to ISBN-ON	 EAN13 to ISBN-OFF*
Set ON, the "978" before the barcode is deleted, and the type is converted to ISBN.	







**EAN8**

 EAN8-ON*	 EAN8-OFF
Check Digit: EAN8 data is 8 bits, the eighth bit is the check digit, Default output.	
 Output EAN8 check digit-ON*	 Output EAN8 check digit-OFF
 Output EAN8 country code-ON*	 Output EAN8 country code-OFF







**UPC&EAN Extra code**

 UPC/EAN extra-code-OFF*	 UPC/EAN 2 Extra-code	 UPC/EAN 5 Extra-code
 UPC/EAN 2/5 Extra-code	 UPC/EAN Must have 2/5 Extra-code	

### Code39

 Code39-ON*	 Code39-OFF
 Full-ASCII-OFF*	 Full-ASCII-ON
Code39 data can include all ASCII characters, Set ON to read full ASCII characters.	
 Output Code39 Start/Stop character-OFF*	 Output Code39 Start/Stop character-ON
Character * as the Start/Stop character of code39.	



### Code32

Code32 is extended by Code39, When Code32 is enabled, Code39 that complies with Code32 rules will also be output as Code32 first.	
 Code32-OFF*	 Code32-ON
 Output Code32 check digit-OFF	 Output Code32 check digit-ON*
 Output Code32 Prefix A-OFF	 Output Code32 Prefix A-On*







### Code128

 Code128-ON*	 Code128-OFF
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### Code93

 Code93-ON*	 Code93-OFF
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### Code11

 Code11-ON	 Code11-OFF*
<b>Code11 check digit</b> Code11 barcode data contains check digit, which can be the last 1 (C check) or 2 (CK check) characters of the data.	
 Code11 No check*	 Code11 C/CK check
 Code11 C check	 Code11 CK check
<p>C check: One character check, CK check: Two characters check.</p> <p>No check: Code11 Without check, all check digit will be output.</p> <p>C/CK check: Code11 Automatic C / CK check, all check digits are not output.</p> <p>C check: Code11 perform C check, Do not output 1 check digit, At the same time, the scanner reads only the Code11 by C check.</p> <p>CK check: Code11 perform CK check, Do not output 2 check digits, At the same time, the scanner reads only the Code11 by CK check.</p>	

### Codabar



 Codabar-ON*	 Codabar-OFF
<b>CODABAR Start/Stop character</b> Codabar Start/Stop characters are not output by default, When editing the Codabar, you can select the A,B,C,D characters as the Start/Stop characters.	
 Output Codabar Start/Stop character -OFF*	 Output Codabar Start/Stop character -ON
 Output Start/Stop character - allow 1	 Output Start/Stop character - allow 2
<p>allow 1: Start/stop characters are converted from uppercase to lowercase.</p> <p>allow 2: Start characters are converted from uppercase to lowercase, Stop characters changes as follows: A to t, B to n, C to *, D to e.</p>	




### Industrial 2 of 5

 Industrial 2 of 5 -ON*	 Industrial 2 of 5 -OFF
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### Interleaved 2 of 5

 Interleaved 2 of 5-ON*	 Interleaved 2 of 5-OFF
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### MSI

 MSI-ON	 MSI -OFF*
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### Pharmacode


































 Pharmacode -ON	 Pharmacode -OFF*
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### GS1

Contains:GS1 Data Bar, GS1 Data Bar Limited, GS1 Data Bar Expanded.	
 GS1-ON	 GS1-OFF*
GS1 Data Bar check digit GS1 Data Bar : The last bit is check digit.	
 Output GS1 Data Bar check digit -OFF*	 Output GS1 Data Bar check digit -ON
GS1 Data Bar Limited check digit GS1 Data Bar Limited : The last bit is check digit.	
 Output GS1 Limited check digit -OFF*	 Output GS1 Limited check digit -ON

## Data editing


### Relevant setting barcode
















 Insert Characters	 Delete characters	
Barcode types(Barcode data: 068000-068018)		
 All barcode types	 UPCE	 UPCA
 EAN 8	 EAN13	 ISBN/ISSN
 Code39	 Code128	 Code93
 Codabar	 Interleaved 2 of 5	 industrial 2 of 5
 MSI	 Code11	 China post
 GS1D	 GS1L	 GS1E
 Code32	Do not scan = All barcode types.	
Set save location (Barcode data: 068100-068107) (Different group Settings can take effect at the same time)		
 Group 1	 Group 2	 Group 3
 Group 4	 Group 5	 Group 6
 Group 7	 Group 8	Do not scan = Group 1
Edit location		
 Before barcode	From which place to start? Setup by barcode in "ASCII Barcode Table".	 After barcode
Save to take effect		
 Save Settings	 Clear settings	

**Example: Insert character**

In the process of setting, scan the irrelevant barcode, the scanner will exit setting status.

Please scan in order 1,2,3, ...

Example: Code128=123456789 


	Insert Ab before	Insert Cd from the third	Insert Ef after
1	 Insert Characters		
2	 All barcode types (Omit this step, default all barcode types)		
3	 Group 1 (Omit this step, default Group 1)		
4	 Before barcode	 003 ETX	 After barcode
5	 065 A	 067 C	 069 E
6	 098 b	 100 d	 102 f
Each group can insert within 10 characters			
7	 Save Settings		
Setup result			
	Ab123456789	123Cd456789	123456789Ef
Clear insert character setting. Please scan in order 1,2.	 1, Insert Characters	 2, Clear settings	













- 1, set different bar code type, make this setting to this kind of barcode is effective.
- 2, set different group, make different Settings take effect at the same time

### Example: Delete character

In the process of setting, scan the irrelevant barcode, the scanner will exit setting status.

Please scan in order 1,2,3, ...

Example: Code128=123456789 






	Delete 1 bit before	Delete 3 bit from the third	Delete 3 bit after
1	 Delete characters		
2	 All barcode types (Omit this step, default all barcode types)		
3	 Group 1 (Omit this step, default Group 1)		
4	 Before barcode	 003 ETX	 After barcode
5	 001 SOH	 002 STX	 003 ETX
6	 Save Settings		
Setup result			
	23456789	1236789	123456
Clear delete character setting, Please scan in order 1,2.	 1, Delete characters	 2, Clear settings	

- 1, set different bar code type, make this setting to this kind of bar code is effective.
- 2, set different group, make different Settings take effect at the same time.






### Quick delete character

 Delete 1 bit before	 Delete 1 bit after
 Delete 2 bit before	 Delete 2 bit after
 Delete 3 bit before	 Delete 3 bit after
 Delete 4 bit before	 Delete 4 bit after
 Code128- Delete 1 bit before	 Code39- Delete 1 bit after
 Delete 2 bit form the fourth	 Code128- Delete 2 bit form the third
 Clear Quick delete character Settings	

### Quick insert character

 Insert A before	 Insert A after
 Insert A form the second	 Code128- Insert AB form the third
 Clear Quick insert character Settings	





### Quick replaces character

 'A' replaces '1'	 'AB' replaces '1'
 Code39- 'B' replaces '1'	 Code128- 'AB' replaces '1'
 Clear Quick replaces character Settings	















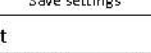
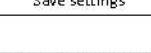
# Time system

Only for the wireless series






## Time setting and examples

 Output time	 Set Year Month Day
 Set Hour Minute Second	 Save settings

### Examples

step	Set Y.M.D-20.06.10	step	Set H:M:S-16:34:30
1	 Set Year Month Day	1	 Set Hour Minute Second
2	 002 STX	2	 001 SOH
3	 000 NUL/SP	3	 006 ACK
4	 000 NUL/SP	4	 003 ETX
5	 006 ACK	5	 004 EOT
6	 001 SOH	6	 003 ETX
7	 000 NUL/SP	7	 000 NUL/SP
8	 Save settings	8	 Save settings

### Date format

 default:2020.06.10	 American:06.10.2020	 British:10.06.2020
 Date delimiter character "-"-default	 Date delimiter character "/"	








## Time output and examples

### Time-prefix/suffix

 Time-prefix/suffix -OFF*	 Time-prefix	 Time-suffix
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### Insert time by data editing

Replace time with a key combination (NUL+SOH)

 NUL+SOH=Time-OFF	 NUL+SOH=Time-ON*		
<b>Example-Insert Time</b> In the process of setting, scan the irrelevant barcode, the scanner will exit setting status. Example: Code128=123456789 			
	Before barcode	From the third	After barcode
1	 Insert Characters		
2	 All barcode types (Omit this step, default all barcode types)		
3	 Group 1 (Omit this step, default Group 1)		
4	 Before barcode	 003 ETX	 After barcode
5	 000 NUL/SP		
6	 001 SOH		
7	 Save Settings		
Setup result			
	Time123456789	123Time456789	123456789Time
	Clear insert character setting, Please scan in order 1,2.	 1, Insert Characters	 2, Clear settings

## LED description

- 1, Wired scanner: Green light.  
Green: Always on when working, Turn off when reading.
- 2, Bluetooth scanner: Blue + Green + Red light  
Blue: Bluetooth status light.  
Always on when working, turn off when reading.  
Red: Low power indicator, charging breathing light.
- 5, Base: Blue+ Green light.  
Blue: Always on when working.  
Green: Always on means the base and scanner are in good contact.



## FAQ

- 1, In wired mode, there is no data upload?
  - ① Scanner is set to storage mode? Please set to instant upload mode.
  - ② Scanner is set to USB-COM? Please set to USB-HID.
- 2, Can't search the scanner?
  - ① Make sure the scanner is in HID-mode.
  - ② Whether the scanner in matching state?
  - ③ Scan " Connection initialization ", delete the matched scanner, and re-pair operation.
- 3, Bluetooth connected but not upload?
  - ① Scanner set to storage mode? Please set to Instant upload mode.
  - ② Please check the Bluetooth mode (HID,SPP,BLE).
- 4, Barcode characters is wrong?
  - ① Set the scanner keyboard nations with using the keyboard.
  - ② Set more slow HID speed.
- 5, Turn on, Scanner red light flashing three times and then shut down?
  - ① Low battery, please charge.

### Factory Defaults-Caution



Factory Defaults (caution)

More support, please contact the manufacturer.

Appendix 1: ASCII characters

















































Hex	Dec	Description	Hex	Dec	Description
#00	0	NUL(CTRL @)	#22	34	"
#01	1	SOH(CTRL A)	#23	35	#
#02	2	STX(CTRL B)	#24	36	\$
#03	3	ETX(CTRL C)	#25	37	%
#04	4	EOT(CTRL D)	#26	38	&
#05	5	ENQ(CTRL E)	#27	39	'
#06	6	ACK(CTRL F)	#28	40	{
#07	7	BEL(CTRL G)	#29	41	}
#08	8	BS(Backspace)	#2A	42	*
#09	9	HT(Tab)	#2B	43	+
#0A	10	LF(CTRL J)	#2C	44	,
#0B	11	VT(CTRL K)	#2D	45	-
#0C	12	FF(CTRL L)	#2E	46	.
#0D	13	CR(Enter)	#2F	47	/
#0E	14	SO(CTRL N)	#30	48	0
#0F	15	SI(CTRL O)	#31	49	1
#10	16	DLE(CTRL P)	#32	50	2
#11	17	DC1(CTRL Q)	#33	51	3
#12	18	DC2(CTRL R)	#34	52	4
#13	19	DC3(CTRL S)	#35	53	5
#14	20	DC4(CTRL T)	#36	54	6
#15	21	NAK(CTRL U)	#37	55	7
#16	22	SYN(CTRL V)	#38	56	8
#17	23	ETB(CTRL W)	#39	57	9
#18	24	CAN(CTRL X)	#3A	58	:
#19	25	EM(CTRL Y)	#3B	59	;
#1A	26	SUB(CTRL Z)	#3C	60	<
#1B	27	ESC(ESC)	#3D	61	=
#1C	28	FS(CTRL \)	#3E	62	>
#1D	29	GS(CTRL ])	#3F	63	?
#1E	30	RS(CTRL ^)	#40	64	@
#1F	31	US(CTRL _)	#41	65	A
#20	32	(space)	#42	66	B
#21	33	!	#43	67	C

















































Hex	Dec	Description	Hex	Dec	Description
#44	68	D	#66	102	f
#45	69	E	#67	103	g
#46	70	F	#68	104	h
#47	71	G	#69	105	i
#48	72	H	#6A	106	j
#49	73	I	#6B	107	k
#4A	74	J	#6C	108	l
#4B	75	K	#6D	109	m
#4C	76	L	#6E	110	n
#4D	77	M	#6F	111	o
#4E	78	N	#70	112	p
#4F	79	O	#71	113	q
#50	80	P	#72	114	r
#51	81	Q	#73	115	s
#52	82	R	#74	116	t
#53	83	S	#75	117	u
#54	84	T	#76	118	v
#55	85	U	#77	119	w
#56	86	V	#78	120	x
#57	87	W	#79	121	y
#58	88	X	#7A	122	z
#59	89	Y	#7B	123	{
#5A	90	Z	#7C	124	
#5B	91	[	#7D	125	}
#5C	92	\	#7E	126	~
#5D	93	]	#7F	127	DEL
#5E	94	^	#80	128	F1
#5F	95	_	#81	129	F2
#60	96	`	#82	130	F3
#61	97	a	#83	131	F4
#62	98	b	#84	132	F5
#63	99	c	#85	133	F6
#64	100	d	#86	134	F7
#65	101	e	#87	135	F8

















































Hex	Dec	Description	Hex	Dec	Description
#88	136	F9	#AA	170	Home Keypad
#89	137	F10	#AB	171	end Keypad
#8A	138	F11	#AC	172	Page Up Keypad
#8B	139	F12	#AD	173	Page Down Keypad
#8C	140	Left shift make	#AE	174	Up Arrow Keypad
#8D	141	Left shift break	#AF	175	Down Arrow Keypad
#8E	142	Right shift mark	#B0	176	Left Arrow Keypad
#8F	143	Right shift break	#B1	177	Right Arrow Keypad
#90	144	Left ALT mark	#B2	178	Center Keypad
#91	145	Left ALT break	#B3	179	Insert
#92	146	Right ALT mark	#B4	180	Delete
#93	147	Right ALT break	#B5	181	Home
#94	148	Left control mark	#B6	182	End
#95	149	Left control break	#B7	183	Page Up
#96	150	Right control mark	#B8	184	Page Down
#97	151	Right control break	#B9	185	Up Arrow
#98	152	/Keypad	#BA	186	Down Arrow
#99	153	*Keypad	#BB	187	Left Arrow
#9A	154	-Keypad	#BC	188	Right Arrow
#9B	155	+Keypad	#BD	189	
#9C	156	-Keypad	#BE	190	Num Lock
#9D	157	enter Keypad	#BF	191	Caps Lock
#9E	158	0Keypad	#C0	192	Scroll Lock
#9F	159	1Keypad	#C1	193	Print Screen
#A0	160	2Keypad	#C2	194	Pause
#A1	161	3Keypad			
#A2	162	4Keypad			
#A3	163	5 Keypad			
#A4	164	6 Keypad			
#A5	165	7 Keypad			
#A6	166	8 Keypad			
#A7	167	9 Keypad			
#A8	168	Insert Keypad			
#A9	169	Delete Keypad			


















































## Appendix 2: ASCII Barcode Table

Barcode data: 069000-069194

 000 NUL/SP	 001 SOH	 002 STX
 003 ETX	 004 EOT	 005 ENQ
 006 ACK	 007 BEL	 008 Back Space
 009 HT/TAB	 010 LF	 011 VT
 012 FF	 013 CR/ENTER	 014 SO
 015 SI	 016 DLE	 017 DC1
 018 DC2	 019 DC3	 020 DC4
 021 NAK	 022 SYN	 023 ETB
 024 CAN	 025 EM	 026 SUB
 027 ESC	 028 FS	 029 GS
 030 RS	 031 US	 032 SP
 033	 034 "	 035 #
 036 \$	 037 %	 038 &
 039 ' .	 040 {	 041 }
 042 * .	 043 +	 044 ,
 045 -	 046 .	 047 /






















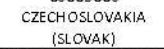
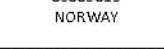
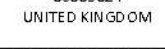


 048 0	 049 1	 050 2
 051 3	 052 4	 053 5
 054 6	 055 7	 056 8
 057 9	 058 :	 059 ;
 060 <	 061 =	 062 >
 063 ?	 064 @	 065 A
 066 B	 067 C	 068 D
 069 E	 070 F	 071 G
 072 H	 073 I	 074 J
 075 K	 076 L	 077 M
 078 N	 079 O	 080 P
 081 Q	 082 R	 083 S
 084 T	 085 U	 086 V
 087 W	 088 X	 089 Y
 090 Z	 091 [	 092 \
 093 ]	 094 ^	 095 _

 096 ~	 097 a	 098 b
 099 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	 128 F1
 129 F2	 130 F3	 131 F4
 132 F5	 133 F6	 134 F7
 135 F8	 136 F9	 137 F10
 138 F11	 139 F12	 140 l_Shift on
 141 l_Shift off	 142 r_Shift on	 143 r_Shift off

 144 l_Alt on	 145 l_Alt off	 146 r_Alt on
 147 r_Alt off	 148 l_Ctrl on	 149 l_Ctrl off
 150 r_Ctrl on	 151 r_Ctrl off	 152 /(KP)
 153 *(KP)	 154 -(KP)	 155 +(KP)
 156 _(KP)	 157 Enter(KP)	 158 0(KP)
 159 1(KP)	 160 2(KP)	 161 3(KP)
 162 4(KP)	 163 5(KP)	 164 6(KP)
 165 7(KP)	 166 8(KP)	 167 9(KP)
 168 Inert	 169 Delete	 170 Home
 171 End	 172 Page Up	 173 Page Down
 174 Up	 175 Down	 176 Left
 177 Right	 178 Center	 179 Insert
 180 Delete	 181 Home	 182 End
 183 Page Up	 184 Page Down	 185 Up
 186 Down	 187 Left	 188 Right
 189	 190 Num Lock	 191 caps lock
 192 scroll lock		



### Appendix 3: Language

 06005000 UNITED STATES	 06005009 FRANCE	 06005018 SERBIA/YUGOSLAVIA
 06005001 BELGIUM	 06005010 GERMANY	 06005019 SLOVENIA
 06005002 BRAZIL	 06005011 HUNGARY	 06005020 SPAIN
 06005003 CANADIAN-FRENCH	 06005012 ITALY	 06005021 SWEDEN
 06005004 CROATIA	 06005013 LATIN AMERICA	 06005022 SWITZERLAND (FRENCH)
 06005005 CZECHOSLOVAKIA (CZECH)	 06005014 NETHERLANDS	 06005023 SWITZERLAND (GERMAN)
 06005006 CZECHOSLOVAKIA (SLOVAK)	 06005015 NORWAY	 06005024 UNITED KINGDOM
 06005007 DENMARK	 06005016 POLAND	 06005025 UNIVERSAL
 06005008 FINLAND	 06005017 PORTUGAL	

#### FCC User Manual Guidance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

\*Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment\*.

\*This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.\*

#### ISED Canada User Manual Guidance

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device."

"L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage ;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."