

### *How to use a bar code to enter Function Codes?*

*Solution number 00002615*

*Created Date: 2010/03/03*

*Revision: 1.0*

#### ***Solution Summary***

In general, standard bar code symbologies will only encode the ASCII character set. Function keys, arrows keys and many other extended keys on an IBM compatible keyboard do not translate to ASCII characters. Using Code 128 or Code 39 (extended character set) symbology it is possible to encode the lower ASCII characters in a bar code.

Now when the scanner is connected as a keyboard device (keyboard wedge / USB PC-keyboard) these Lower ASCII characters can be translated to function keys, arrow keys and other extended keys.

There are two different translation tables for two product lines. For the scanner models listed below the translation table is listed on the last page.

#### **Configure ASCII translation for the following scanners:**

- 3200, 3800g, 3800gHD, 3800gPDF, 3800r, 3800i, 3820, 3820i, 4600g, 4600r, 4800i, 4820, 4820i, 5600, 5620, 5800, 6320

If a scanner is connected as a keyboard device (keyboard wedge / USB PC-keyboard) the Lower ASCII characters are translated according to the 'Supported Interface Keys – A', see the last page. The table is also available in the user guide.

To configure the scanner to translate the lower ASCII characters to function codes scan the bar codes below, 'Function Code Transmit' and 'Full ASCII On'. The last symbol is required to decode Code 39 symbols that are created with the extended character set to encode function keys.



Function Code Transmit



Full ASCII ON

After configuration of the scanner when you scan the Code 128 bar codes below the scanner will translate the lower ASCII values according to the 'supported interface keys' on the next page. For example the bar code '16 Hex' will result in a function key F1 being send.



## Supported Interface Keys – A

ASCII	HEX	IBM AT/XT and PS/2 Compatibles, WYSE PC/AT Supported Keys	IBM XTs and Compatibles Supported Keys	IBM, DDC, Memorex Telex, Harris* Supported Keys
NUL	00	Reserved	Reserved	Reserved
SOH	01	Enter (KP)	CR/Enter	Enter
STX	02	Cap Lock	Caps Lock	F11
ETX	03	ALT make	Reserved	F12
EOT	04	ALT break	Reserved	F13
ENQ	05	CTRL make	Reserved	F14
ACK	06	CTRL break	Reserved	F15
BEL	07	CR/Enter	CR/Enter	New Line
BS	08	Reserved	Reserved	F16
HT	09	Tab	Tab	F17
LF	0A	Reserved	Reserved	F18
VT	0B	Tab	Tab	Tab/Field Forward
FF	0C	Delete	Delete	Delete
CR	0D	CR/Enter	CR/Enter	Field Exit/New Line
SO	0E	Insert	Insert	Insert
SI	0F	Escape	Escape	F19
DLE	10	F11	Reserved	Error Reset
DC1	11	Home	Home	Home
DC2	12	Print	Print	F20
DC3	13	Back Space	Back Space	Back Space
DC4	14	Back Tab	Back Tab	Backfield/Back Tab
NAK	15	F12	Reserved	F21
SYN	16	F1	F1	F1
ETB	17	F2	F2	F2
CAN	18	F3	F3	F3
EM	19	F4	F4	F4
SUB	1A	F5	F5	F5
ESC	1B	F6	F6	F6
FS	1C	F7	F7	F7
GS	1D	F8	F8	F8
RS	1E	F9	F9	F9
US	1F	F10	F10	F10