≡ OPTICON   2220 LIND AVE. SW
              RENTON, WA 98057

Disabling Menu Codes
**(For products containing the MDI-3xxx, MDI-4xxx,
& MDI-5xxx series of 2D imaging scan modules)**

Purpose:

This document discusses the method to disable the menu codes from an outside influence.
Special menu codes can be scanned by a reader to configure itself and can place it into various specific
modes. Scanning via a menu code always saves the selected items into flash memory and saved.   In some
cases, the developer/customer may install the reader in a Kiosk or behind some window facing the outside
user. To keep the scanner from being hacked or placed into an unwanted configuration, it is recommended
to disable the external menu code reading.

Disabling 2D Menu Codes

Below are the serial commands for enabling and disabling 2D symbology 'Menu Code' reading:

Command	Function	Notes
D1Z	Disable 2D Config Codes	Disables the interpreting of a 2D @MENU style configuration scan codes. If disabled, the configuration code will be decoded and output like a normal code.
D1Y	Enable 2D Config Codes	Enables the 2D @MENU_OPTO… style code to be interpreted as a command. If enabled, there is no data output, but the reader gives a 3-tone acceptance beep.

Enable/Disable the 2D menu scan code capability:

Example Serial command: **<ESC>[D1Z<CR>**   *{full send packet to disable 2D menu configuration code capability}*
Send <ESC>Z2<CR> to save all current settings to non-volatile memory.

Disabling 1D Menu Codes

Below are the commands for enabling and disabling 1D symbology 'Menu Code' reading from the
Universal menu book OR from the Opticonfigure web site: http://opticonfigure.opticon.com/.

Command	Function	Notes
DFB##	Enable/Disable 1D Menu Codes	This command can enable/disable the 1D (zz) menu code scanning capability – This command require two indirect numbers 'Q?' after the command:

DFB	Qa	Qb	Function	Notes
	a		Trigger	0: Internal Trigger 1: External trigger (Only in products with flying lead cable) 2: Software trigger (<z> command, <S7>, auto trigger, etc.)
		b	Enable/Disable	0: Disable 1D Menu Codes 1: Enable 1D Menu Codes

Example: <ESC>**[DFBQ2Q0**<CR> = Disables the reader using software triggering from decoding any
1D menu codes (however a hardware trigger could decode the menu code if it's not also disabled).
The following will disable all trigger methods: <ESC>[DFBQ2Q0[DFBQ1Q0[DFBQ0Q0<CR>
*Send <ESC>Z2<CR> to save all current settings to non-volatile memory.

CAUTION: *Disabling both the 1D & the 2D menu codes will only leave you with the ability to use serial commands to configure or download new firmware.*

*** CRITICAL CAUTION*** : *If the 1D & 2D menu codes are disabled AND the unit is then configured for USB-HID mode, you will lose all capability of configuring or downloading. (See Emergency Recovery Function)*