

## Disabling Menu Codes

(For products containing the MDI3100 scan module)

### Purpose:

A menu code can be scanned by an Opticon Bar Code reader to configure itself into a specific mode. Scanning via a menu code always saves the selected items into flash memory and it remains even when the unit is powered down. This document discusses methods to disable the menu codes. In some cases, the developer/customer may install the reader in a Kiosk or behind some window. And to keep the scanner from being hacked, may wish to disable the external scan code reading. That way the scanner cannot be re-configured into an incorrect mode by someone using a menu bar code on the reader.

### Disabling 2D Menu Codes

Below are the commands for enabling and disabling Menu commands from the Serial Interface guide, page 5.

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}

### Disabling 1D Menu Codes

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

Command	Function	Notes															
DFB##	Enable/Disable 1D Menu Codes	<p>This command can enable/disable the 1D (zz) menu code scanning capability – This command require two indirect numbers after the command:</p> <table border="1"> <thead> <tr> <th>DFB</th> <th>Qa</th> <th>Qb</th> <th>Function</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td></td> <td>a</td> <td></td> <td>Trigger</td> <td>0: Internal Trigger 1: External trigger (Only in the NLV3101 flying lead cable) 2: Software trigger (&lt;z&gt; command, &lt;S7&gt;, auto trigger, etc.)</td> </tr> <tr> <td></td> <td></td> <td>b</td> <td>Enable/Disable</td> <td>0: Disable 1D Menu Codes 1: Enable 1D Menu Codes</td> </tr> </tbody> </table> <p>Example: <b>[DFBQ0Q0]</b> = Disables the internal trigger from scanning 1D menu codes (however a software trigger could if it's not also disabled)</p>	DFB	Qa	Qb	Function	Notes		a		Trigger	0: Internal Trigger 1: External trigger (Only in the NLV3101 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
DFB	Qa	Qb	Function	Notes													
	a		Trigger	0: Internal Trigger 1: External trigger (Only in the NLV3101 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													

**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)