



## High Performance CCD Scanner Tips (Wedge Interface)

Please read these instructions prior to installing and connecting the bar code scanner to your point of sale system.

### Introduction:

These instructions pertain to the high performance bar code scanners with built-in wedge interface, DGA Houston stock number 1685. These scanners attach to the keyboard port of most PC-compatible system units and draw power (~85 ma) from the system unit keyboard connector. Data scanned from a bar code is sent to the keyboard input of the computer, just as though it were entered by typing it from the keyboard.

This scanner features selectable, programmable mode operation. It can be configured as:

1. Press and Hold Trigger ON/Good Read OFF
2. Press and Hold Trigger ON/Release Trigger OFF
3. Press and Release Trigger ON/Good Read OFF
4. Flash/Good Read Continuous for ~5 Seconds then return to Flash
5. Flash
6. Continuous ON

### Mounting Location:

This scanner is designed as a handheld unit however it is light enough to mount using "Superlock" fastener strip. ("Superlock" fastener strips are available from Radio Shack; Part Number 64-2360). No stand is included. If you will be mounting your scanner, you may have to experiment to find a convenient location and orientation.

When using the scanner primarily as a mounted, fixed location scanner, it should be configured for "Flash/Good Read Continuous for ~5 Seconds then return to Flash" mode of operation. Refer to the configuration section for more instructions.

### Bar Code Symbologies:

As shipped, the scanner will read most bar code symbologies and automatically provide a carriage return character to the host at the end of the bar code data. If your host program requires special programming variations, consult the scanner manual for instructions on programming the scanner.

DGA Houston \* 7320 Ashcroft Dr Ste 213 \* Houston TX 77081-6336 \* 713/772-9988  
Internet Web Site: [www.dgahouston.com](http://www.dgahouston.com) \* E Mail: [dga@dgahouston.com](mailto:dga@dgahouston.com)

*ccd1tips.doc*

COPYRIGHT/OWNERSHIP NOTICE: ©1998, 2002 DGA Houston, Houston TX U.S.A. This document is the sole property of DGA Houston. Unauthorized use or duplication strictly prohibited without prior written authorization.

**Installation:**

1. Prior to attaching the scanner to your computer, make sure the computer power is OFF and the computer power connector is unplugged from the power source. (Observe this precaution whenever you attach or disconnect ANY data cable from your computer).
2. Disconnect the keyboard plug from the rear of the computer.
3. Plug the keyboard plug (disconnected in step 2, above) into the appropriate mating jack on the scanner.
4. Plug the scanner plug into the computer keyboard jack (The jack which was left empty when you removed the keyboard plug in step 2, above).
5. Power up your computer.

**Configuration:**

Configuration can be performed any time after the scanner is installed (Note the previous installation procedure) and the computer is powered up following installation. To program the scanner, you must have the "Hand Held Scanner User's Manual" booklet that was included with your scanner purchase. Programming is accomplished by using the scanner to read bar codes from the booklet in the proper order.

Refer to Appendix D beginning on page D.1 and continuing through page D.10 in the booklet for each of the configuration options. A normal configuration sequence is:

1. Scan the barcode "Enter Group *x*" (Where *x* is the group number)  
This bar code is normally found at the upper left of each option page in the appendix.
2. Scan the barcode adjacent to the option you wish to change.  
This bar code is normally found immediately to the right of the option.
3. Scan the barcode number that corresponds to the desired option setting  
The numeric barcode list is normally found running vertically down the left edge of each page.
4. Scan the "Exit" barcode  
This bar code is normally found at the bottom right of each option page.

As delivered, the scanner is configured for "Press and Hold Trigger ON/Good Read OFF" mode of operation. If you will be mounting the scanner using "Superlock" fasteners, configure for "Flash/Good Read Continuous for ~5 Seconds then return to Flash" by following these steps:

1. Turn to page D.5 in the "Hand Held Scanner User's Manual" booklet
2. Scan the barcode "Enter Group 5"  
This bar code is at the upper left of the page.
3. Scan the "D5" barcode adjacent to the option "Scanning Mode."  
This bar code is immediately to the right of the option.
4. Scan the "1" barcode number that corresponds to "Flashing" setting  
The numeric barcode list is on the left edge of each page; "1" is near the top.
5. Scan the "Exit" barcode  
This bar code is at the bottom right the option page.

As delivered, the scanner is configured for "0ms Intercharacter Delay." (Group 2, Page D.2) DGA Houston recommends that when using the scanner in "Flash/Good Read Continuous for ~5 Seconds then return to Flash," "Flash Mode" or "Continuous ON" mode this parameter is changed to 10 ms. This configuration change is also recommended for any scan mode whenever characters are being dropped during a scan or the scanned barcode is incomplete. Follow these steps:

DGA Houston \* 7320 Ashcroft Dr Ste 213 \* Houston TX 77081-6336 \* 713/772-9988  
Internet Web Site: [www.dgahouston.com](http://www.dgahouston.com) \* E Mail: [dga@dgahouston.com](mailto:dga@dgahouston.com)

*ccd1tips.doc*

COPYRIGHT/OWNERSHIP NOTICE: ©1998, 2002 DGA Houston, Houston TX U.S.A. This document is the sole property of DGA Houston. Unauthorized use or duplication strictly prohibited without prior written authorization.

1. Turn to page D.2 in the "Hand Held Scanner User's Manual" booklet
2. Scan the barcode "Enter Group 2"  
This bar code is at the upper left of the page.
3. Scan the "A3" barcode adjacent to the option "Intercharacter Delay."  
This bar code is immediately to the right of the option.
4. Scan the "4" barcode number that corresponds to "10ms" setting  
The numeric barcode list is on the left edge of the page; "4" is near the middle.
5. Scan the "Exit" barcode  
This bar code is at the bottom right of the page.

**After you have completed scanner configuration, store the "Hand Held Scanner User's Manual" in a safe place. The only way to edit scanner configuration is using the barcodes contained in the manual.**

#### Operation:

Hand held operation using "Press and Hold Trigger ON/Good Read OFF" mode:

To scan the item, grasp the scanner in your hand and depress and hold the trigger on the front of the scanner. Slowly approach the bar code. Align the vertical bars of the bar code perpendicular to the red beam as you approach the bar code label. The scanner will "beep" when the bar code is read successfully. Release the trigger.

Fixed position operation using "Flash/Good Read Continuous for ~5 Seconds then return to Flash" mode:

If you mount your scanner with "Superlock" fastener strip in a fixed position, DGA Houston recommends that you configure your scanner for "Flash/Good Read Continuous for ~5 Seconds then return to Flash" and "10 ms" operation as detailed in the previous step. As small items are introduced to the front of the scanner, align the vertical bars of the bar code perpendicular to the red beam as the tag or item is moved closer to the red beam. The scanner will beep when the bar code is successfully read. Continue to introduce bar codes to the front of the scanner; you do not need to wait for the scanner to return to flash mode.

Cheat sheets and catalog scanning: When using the scanner for items from a catalog or sheet of bar code labels, follow the instructions for "Hand held operation" above.

#### Care and Maintenance:

Keep objects from entering or obstructing the open cavity at the front of the scanner (the area where the red lights are illuminated). Do not pour any liquids or insert any object into the front, open area of the scanner.

Your scanner is a precision instrument. While it is not exceptionally fragile, it will fail if subjected to abuse. Do not unnecessarily drop it, shake it, jar it, or use it as a tool. The scanner is not weatherproof - use indoors ONLY.

DGA Houston \* 7320 Ashcroft Dr Ste 213 \* Houston TX 77081-6336 \* 713/772-9988  
Internet Web Site: [www.dgahouston.com](http://www.dgahouston.com) \* E Mail: [dga@dgahouston.com](mailto:dga@dgahouston.com)

*ccd1tips.doc*

COPYRIGHT/OWNERSHIP NOTICE: ©1998, 2002 DGA Houston, Houston TX U.S.A. This document is the sole property of DGA Houston. Unauthorized use or duplication strictly prohibited without prior written authorization.