

# Stratix Verification Software

## User's Reference Guide



# STRATIX®

Bar Code Systems. Solutions. Service.

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Atlanta, GA

Revision 2.0

# SVS

## Stratix Verification Software User's Reference

### Introduction

SVS makes it easier to organize and interpret barcode scan data by providing a graphical representation of each scan. SVS also allows the user to select particular statistics for review and to print out batched reports guaranteeing the quality of bar codes.

### Installation Instructions

#### Installing From Email

SVS is sent as an email attachment

- This process follows two steps: 1) Extracting the installation files from the email attachment to your PC, and 2) Running the installation to install SVS.
- Double click on the email attachment. In many cases, your company's IT security processes will require that you save the file first. The default location where the program is saved is **c:\windows\temp**.
- Use your Windows Explorer to browse the C:\Windows\Temp directory and locate the file **Stratix SVSInstallX.X.exe**. Double-click this file to begin the extraction process.
- Follow the on-screen instructions to extract the SVS program. The extraction routine will place the necessary installation files on your computer at C:\Documents and Settings\USERNAME\Local Settings\Temp, where USERNAME is typically your name. The installation filename is Setup.exe.
- Click the **Start** button and choose **Run**.
- Browse to C:\Documents and Settings\USERNAME\Local Settings\Temp, select Setup.exe then **click OK**. This will setup the active SVS program and create a Stratix Corporation Folder in your **START \ PROGRAMS** pull up menu. It will also create a SVS shortcut on your desktop

If you encounter any problems with this process, contact your Stratix account manager for assistance.

#### Installing From CD

- Insert disk into CD drive.
- Go to **START \ RUN**
- Type **(the name of the drive, usually D):\setup.exe**
- Follow on screen instructions. This will (1) extract the SVS program onto your pc and (2) add a Stratix Corporation folder to **START \ PROGRAMS** and a desktop shortcut icon.
- When software is loaded, CD drive window will close

## Setting up SVS with your Verifier

SVS software versions 2.3 and above support both the Stratix Xaminer MD and Stratix Xaminer Elite verifiers. The photo below shows the Xaminer Elite setup. The MD setup is similar, except for the respective unit's external power supplies.

### Connecting (Figure 1)

- Plug the communication / charge cable's (2) RJ-41 modular connector end into the base of the Xaminer (1)
- Connect the Xaminer MD power supply/charger (3) to the communication/charge cable. (2)
- Connect the secondary power cable (4) to the MD power supply/charger (3).
- Plug the secondary power cable (4) to a standard wall outlet.
- Connect the communication cable's (2) 9 pin connector to the COM1 port on your pc

**Figure 1**



### On your PC

Open SVS using your Windows toolbar by clicking your SVS shortcut icon, or running **Start\Programs\Stratix Corporation\Stratix SVS**. The main SVS user interface (Figure 2) will open.

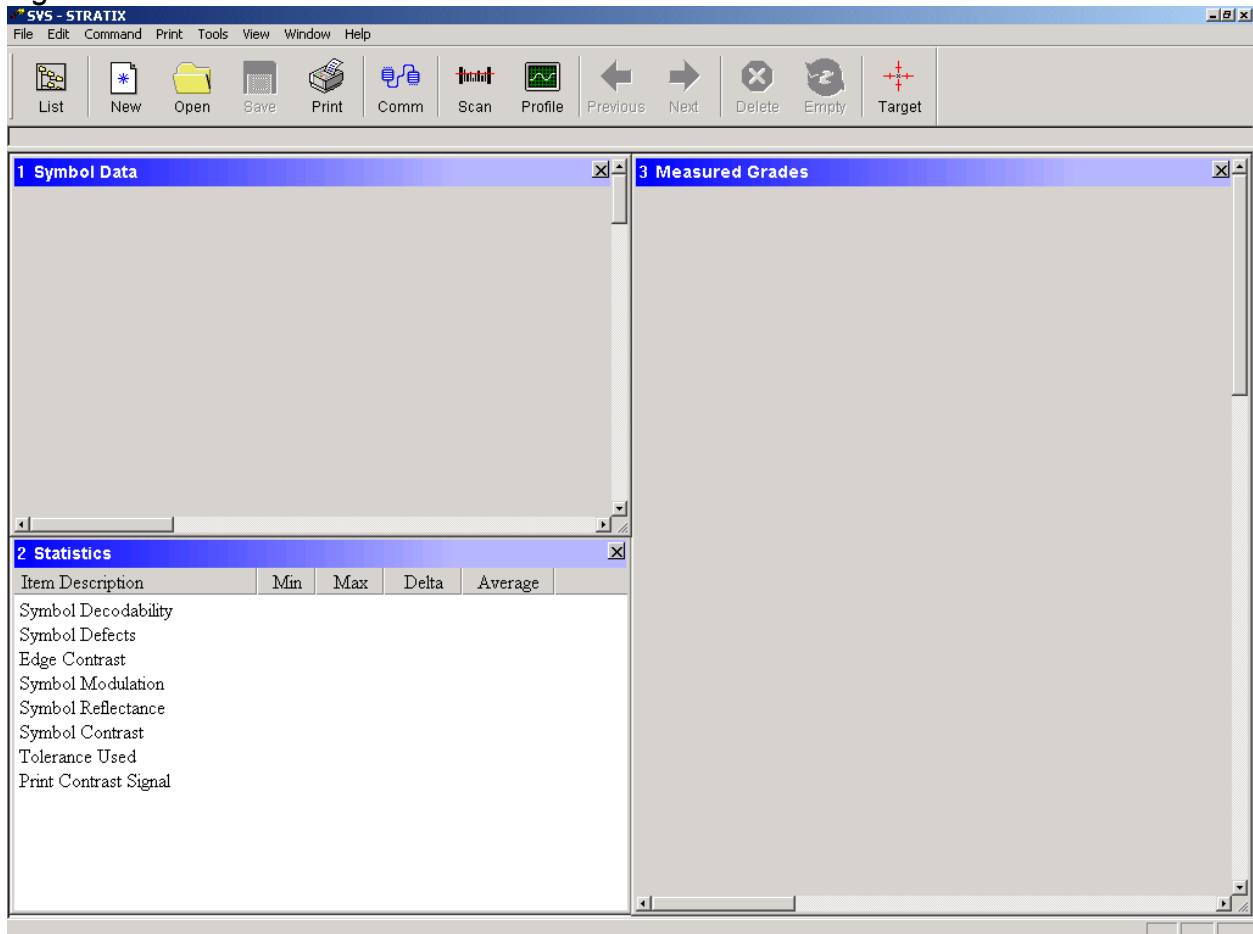
## Setting up your Xaminer Verifier

1. Power on the Xaminer.
2. If using the Elite, no further action is necessary. The Elite is ready to work with SVS.
3. If using the MD, press **Func + 0** to go to the Main Menu. On the main menu press **6 Command Mode**.
4. Select **2 SVS**. Leave this screen as is. Do not exit. The Xaminer MD is now ready to communicate with the SVS.

## Looking at Data with SVS

The first time you open SVS you will see the 3 data windows shown below (Figure 2).

Figure 2



Verification records are displayed in these screens either by commanding the verifier to scan codes using this interface, or by uploading previously scanned records from the verifier to SVS.

Screen 1 provides the encodation data for the barcode. This will be similar to the human readable portion of the code, but will also contain other data encoded in the symbol. Screen

2 displays Statistical data for all records in the active SVS session. The content of this window can be modified using a drop down menu, as described a little later in this document. Screen 3 displays the measured grade results for the currently selected record. This may be the most recent record, or one selected from a list of all records in the current session.

## Commanding the Verifier via SVS

Three principal selections control the verifier's laser from the SVS interface: Target, Scan, and Profile. **NOTE:** These functions are not available when using a Wand to capture data.

### Target

To center a bar code in the laser beam path: click on the TARGET button. This will fire the laser from your Xaminer MD for about 5 seconds and allow the bar code to be positioned correctly without actually recording a scan.

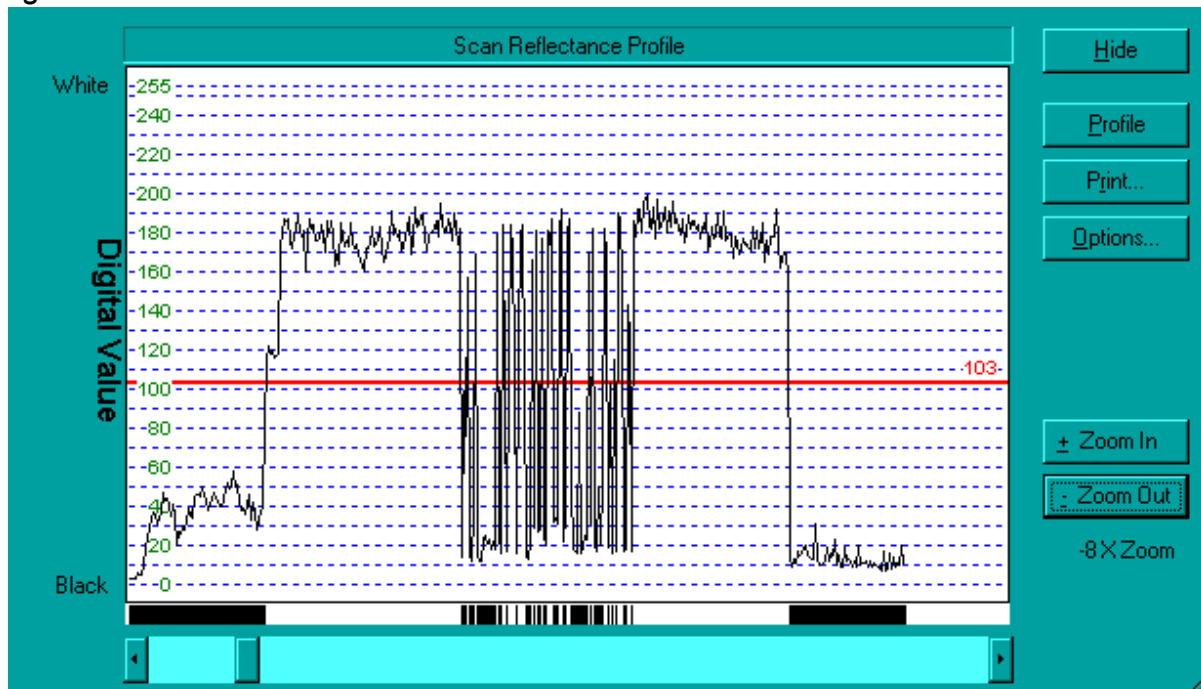
### Scan

To scan a bar code: click on the SCAN button. The scan results will immediately be displayed in the 3 data windows.

### Profile

The Scan Reflectance Profile (SRP) for a particular barcode may be displayed by using the Profile icon instead of the Scan icon. Click Profile to display the Symbol Profile screen (Figure 3). Clicking the "Profile" button on that screen will capture SRP data for the barcode. Two Zoom buttons, also located on that screen, permit detailed inspection of individual element features.

Figure 3



The SRP illustrates bars and spaces in the code. If the profile line is above the red Global Threshold line the verifier is seeing a space (high reflectance area). If the profile line lies below the Global Threshold, the verifier is seeing a bar (a low reflectance area).

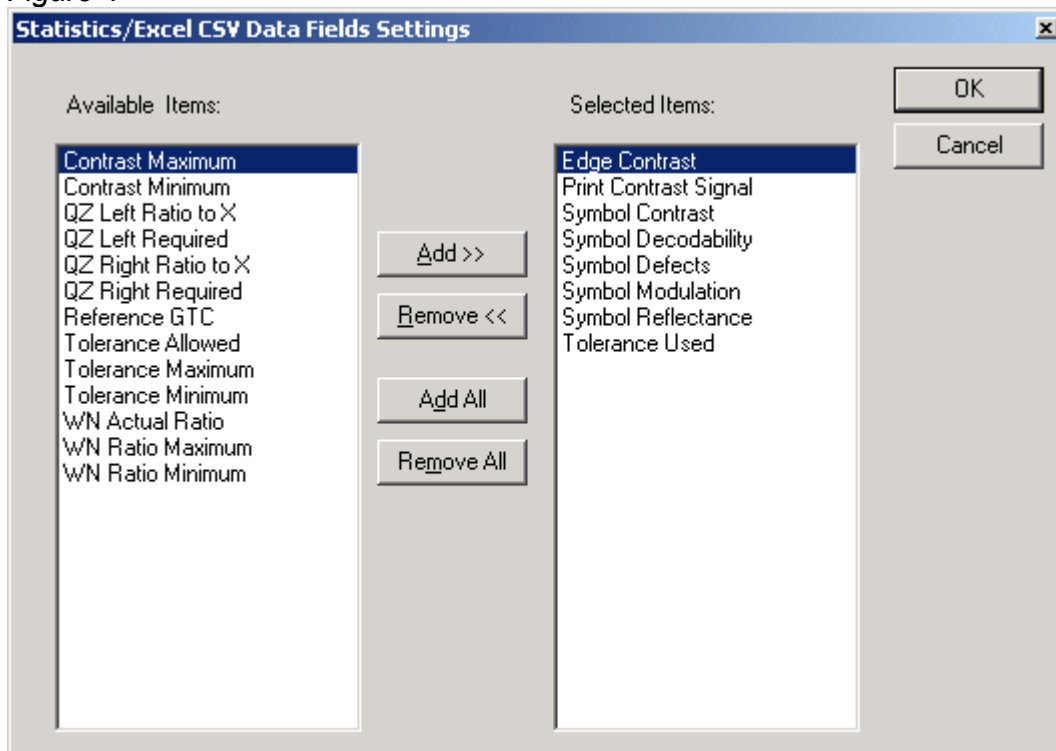
The bottom of the SRP screen recreates the bar code based on the digital values displayed in the graph.

## Statistics and Measured Grades Setup

### Statistics Screen

The Statistics screen provides cumulative measures on certain parameters for all the records in the active SVS session. The measures provided are Max/Min/Delta for all records, and an average value over all records for that parameter. The parameters tracked may be selected from the SVS menu by selecting **Window** from the SVS toolbar. On the drop down menu that follows, select **Statistics/Excel CSV Data Fields Setting**. This displays the selection window (Figure 4), from which a number of analysis parameters may be chosen. These parameters may be changed during the session and the results displayed will be adjusted accordingly. Click OK when complete.

Figure 4



### Measured Grades Screen

This screen displays analysis results for the active record. Typically, this is the most recently scanned or uploaded record; however it may be any selected record from the active

session. The displayed results can be chosen from a menu accessed from the SVS toolbar. Choose **Window** from the toolbar, then choose Measured Grades Setting from the drop down menu. The parameter selection menu is displayed (Figure 5). As with the Statistics menu, these settings may be changed at any time during the session. Click OK when complete. The results will then be displayed in the active windows of the SVS interface (Figure 6).

Figure 5

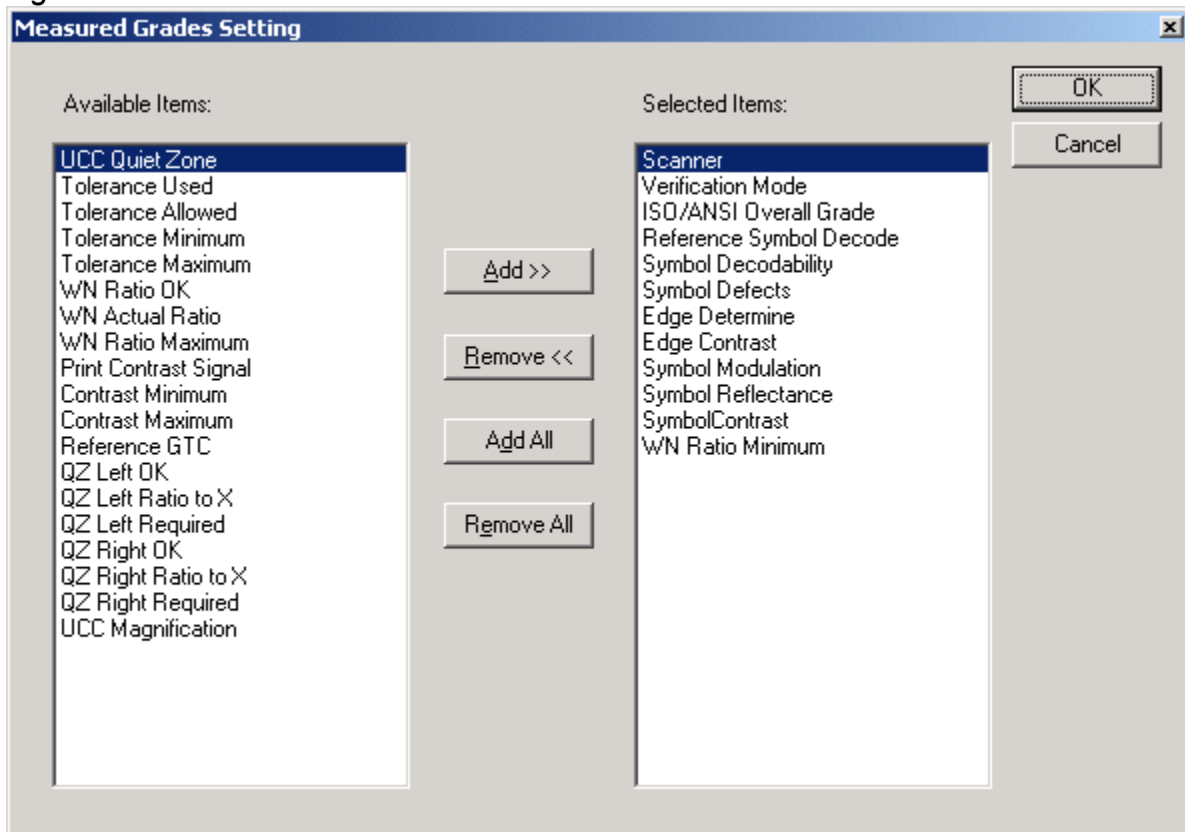
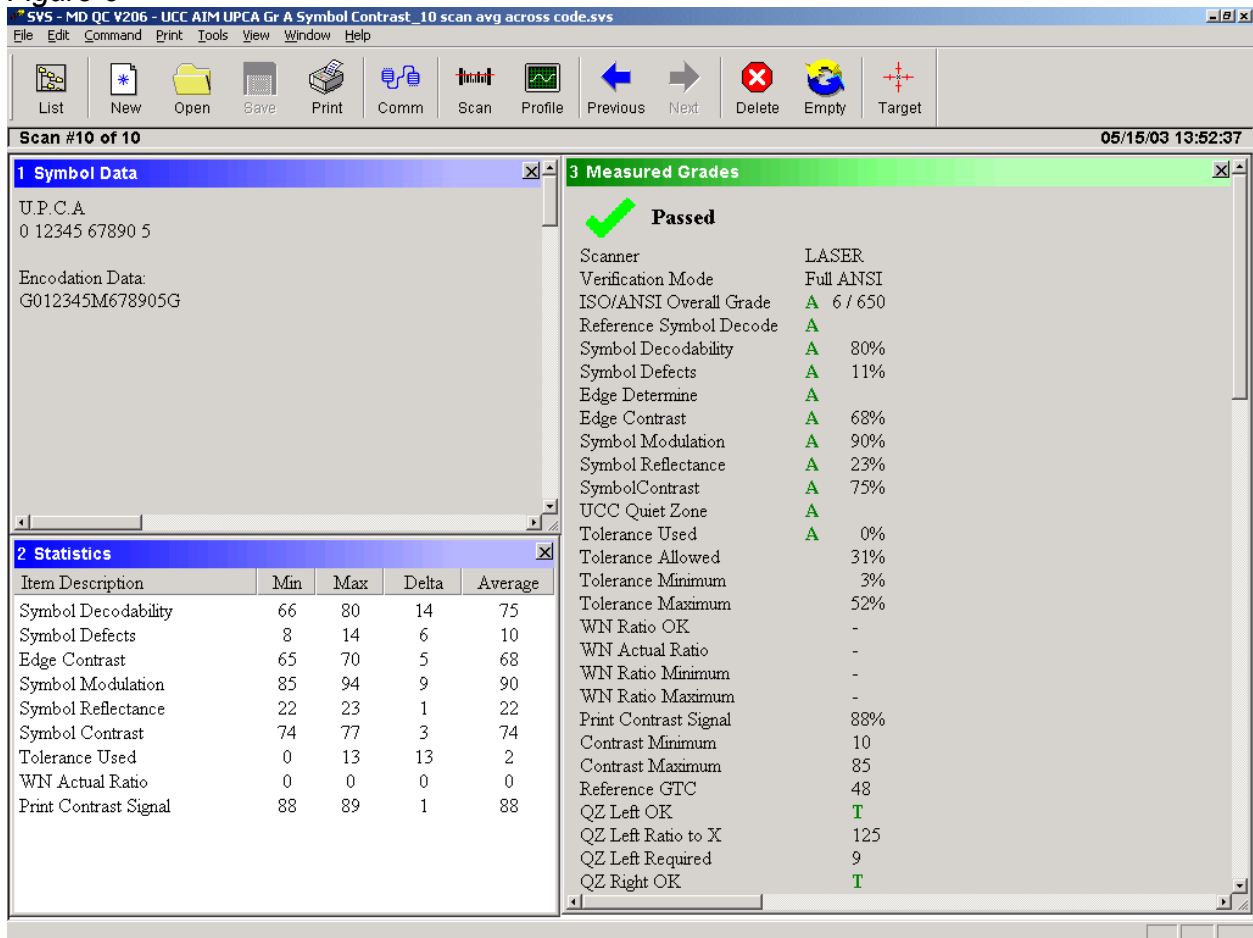




Figure 6



### Auto Scan (not available with Wand)

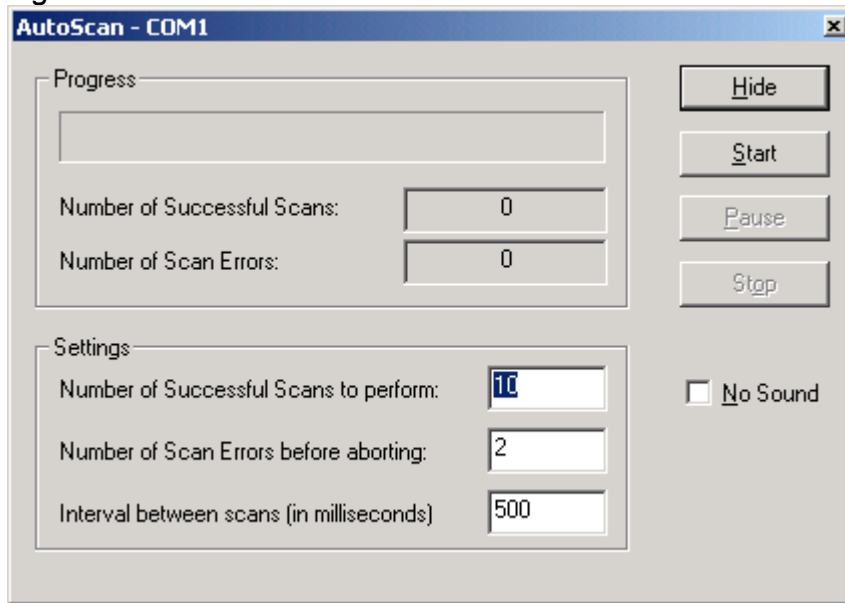
SVS has a feature called Auto Scan that allows data to be collected in batches. This is useful for quickly generating average grades based on multiple scans at different scan points.

To use Auto Scan:

- Go to the **Tools** pull down menu.
- Click on **Auto Scan**.
- The Auto Scan window will be displayed (Figure 7).
- Set the number of scans required in the field labeled **Number of Successful Scans to perform**:
- Click on **Start** to begin scanning of the target. When the requested numbers of scans have been completed the operation will end automatically.



Figure 7



The information gathered from the scans can be viewed in the main SVS windows and becomes part of the active session. New records will be appended onto any existing records already in the session. This information can be printed out and / or saved as a file. Any record from the session may be reviewed either by using the “Previous” and “Next” buttons on the main SVS interface, or by choosing from the session List. To access the list, click the “List” button on the SVS icon bar. This will display the list of records along the left side of the main SVS interface (Figure 8).

Choose any one of the records from the List to display its results.

## Uploading Verification Data from the Verifier to SVS

You may also upload data scanned independently with your verifier to SVS. This is a convenient method for viewing wand-captured records, and enables you to capture data remotely, then analyze it later on your PC.

After capturing data with your verifier, make connections to your PC and open SVS as described earlier. Then, follow the processes for your verifier to put it in Output mode. When you are in Output mode on the verifier, its display will indicate the output method, either Printing or CSV Upload. Press **Func +1** to ensure CSV Upload is selected. On the verifier, key in the number of records to output, bearing in mind the most recent records upload first. If you are unsure, upload the entire content stored on the verifier, and you can edit out unwanted records in SVS. Press the **Enter** key on the verifier to begin the upload process.

When uploading is completed, your verification records are displayed in SVS as previously described. Note that the SRP may only be captured through the Profile function from SVS.

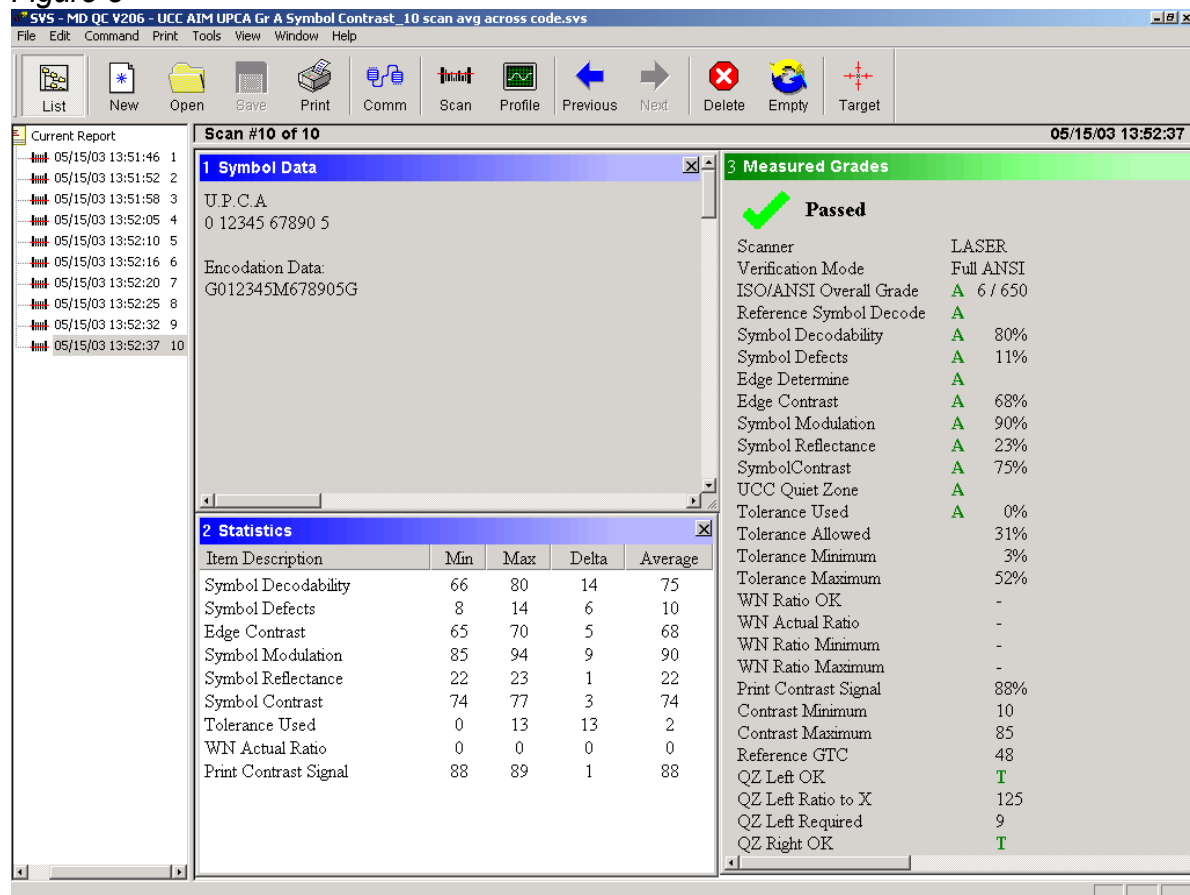
## Saving Your SVS Session

Whenever you would like to save the records in a particular group of scans, save the session. This may be done using the usual Windows Save technique (File, Save As...) from the File menu on the SVS toolbar. You may then recall the records during a future SVS session. NOTE: Recalling a saved file does not open a duplicate session. Recalled records will overwrite all records in an existing session.

## Deleting/Emptying Records from an SVS Session

Use the **Delete** button on the SVS icon bar to remove a selected record from the session. Use the **Empty** button to clear all records from a session. You will be asked in each case if you are sure you want to proceed. Save your session if necessary before proceeding.

Figure 8



## Printing Scan Reports

You may print out the results of your scans at any time during the session. The numbers of scans in memory are displayed near the top left corner. The scan data is printed out as a condensed report and prints 10 per page.

## Printing Options

- Use the File menu on the SVS toolbar to select your printer, preview your printed pages, and set the number of pages you wish to print.
- Use the Print menu on the SVS toolbar to print the contents of the Statistics window, print the current report, or print out a Scan Reflectance Profile (must be present for the selected record).
- Use the Print button on the SVS icon bar to bypass the File menu and go directly to printing results if you don't wish to preview.

## Exporting Results to Excel via CSV Upload

The results from any active SVS session may be exported as a Microsoft Excel CSV file, if the user has Excel available to their PC. To do so, select **Tools** from the SVS toolbar, then choose **Excel CSV File**. The data corresponding to the parameters reflected in the Statistics window will be exported for all records in session. See the instructions for the Statistics Screen in the *Statistics and Measured Grades Setup* section presented earlier in the Reference Guide for instructions on changing the parameters, if necessary, before you export data. Don't worry if you need to repeat the export operation with different parameters --- records data remain in the active SVS session unless previously deleted, or unless the session was closed without saving.

The Symbol Data, Symbol Type, Scanner Used, Verification Mode, ISO/ANSI Overall Grade, and several Pass/Fail (i.e. A or F) grades are always provided (Reference Symbol Decode, Edge Determination, and Quiet Zone), in addition to any Statistics parameters you have selected. The Date and Time the record was captured is also displayed.

The export operation automatically opens an Excel spreadsheet with preformatted column headings, and places the results for each record in the appropriate column (Figure 9). The column width may be adjusted to the user's preferences using the standard Excel tools.

Once created, the Excel CSV file may be saved as an Excel Worksheet using the standard Excel tools.

## Other SVS Buttons

### New

This button opens a new SVS session. Note that any unsaved records in the previous session will be lost. Always save critical verification records before opening a new SVS session.

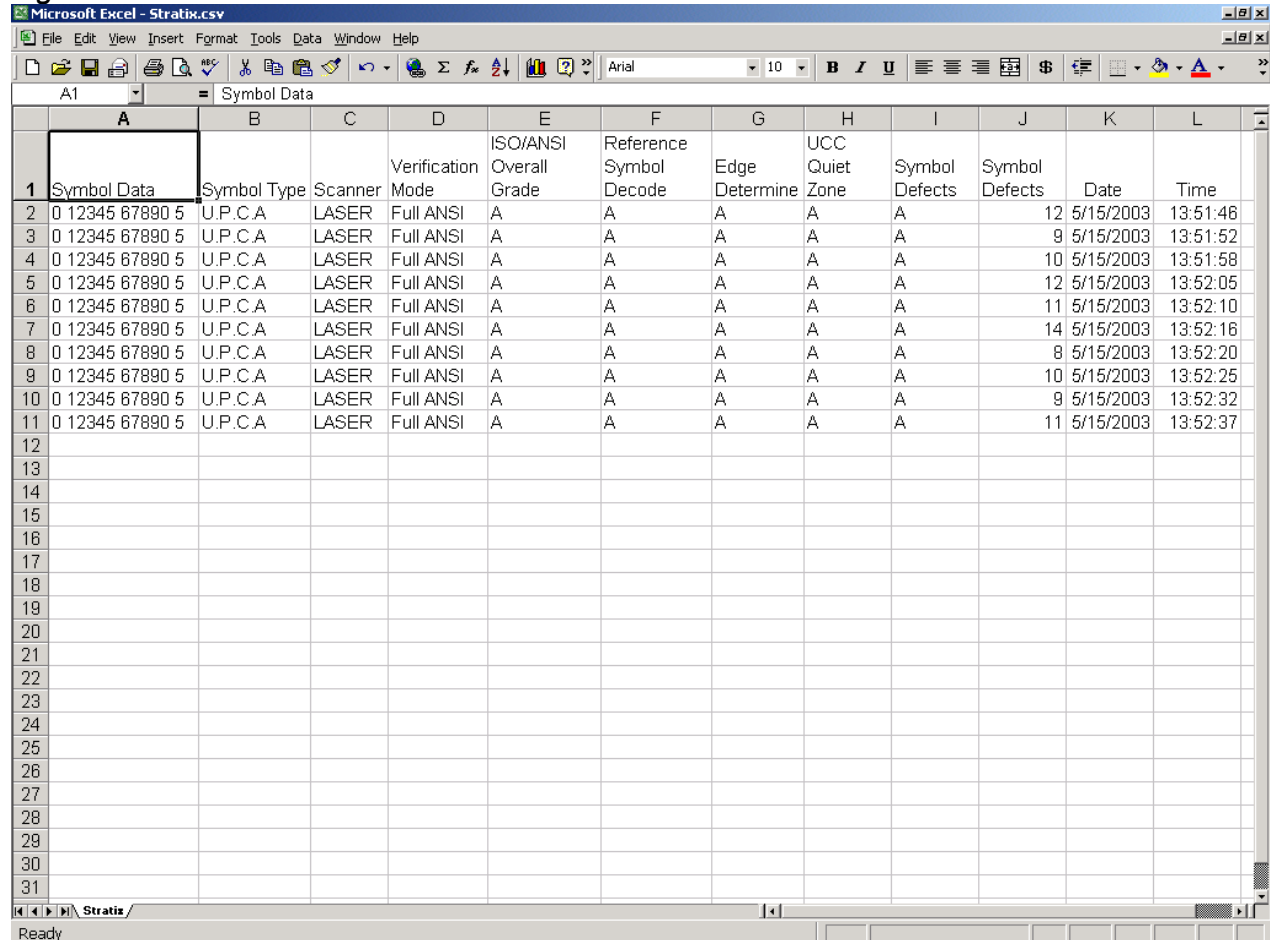
### Open

This button opens a saved SVS file. Browse to the desired file location and select the file to open. Again, any records in an existing session will be overwritten when opening the new file.

## Save

This button saves the existing records in the session under the filename Stratix.svs. When saving, any previously saved versions of this file are overwritten. To ensure critical records are preserved, it is preferable to use the File Save As function on the SVS toolbar to create a unique filename.

Figure 9



The screenshot shows a Microsoft Excel spreadsheet titled "Stratix.csv". The spreadsheet contains a table with 12 columns and 31 rows. The first row is a header row, and the following 10 rows contain data. The data rows show a consistent pattern of values across the columns, with the last two columns (Date and Time) showing a sequence of dates and times from 5/15/2003.

	A	B	C	D	E	F	G	H	I	J	K	L
1	Symbol Data	Symbol Type	Scanner	Verification Mode	ISO/ANSI Overall Grade	Reference Symbol Decode	Edge Determine	UCC Quiet Zone	Symbol Defects	Symbol Defects	Date	Time
2	0 12345 67890 5	U.P.C.A	LASER	Full ANSI	A	A	A	A	A	12	5/15/2003	13:51:46
3	0 12345 67890 5	U.P.C.A	LASER	Full ANSI	A	A	A	A	A	9	5/15/2003	13:51:52
4	0 12345 67890 5	U.P.C.A	LASER	Full ANSI	A	A	A	A	A	10	5/15/2003	13:51:58
5	0 12345 67890 5	U.P.C.A	LASER	Full ANSI	A	A	A	A	A	12	5/15/2003	13:52:05
6	0 12345 67890 5	U.P.C.A	LASER	Full ANSI	A	A	A	A	A	11	5/15/2003	13:52:10
7	0 12345 67890 5	U.P.C.A	LASER	Full ANSI	A	A	A	A	A	14	5/15/2003	13:52:16
8	0 12345 67890 5	U.P.C.A	LASER	Full ANSI	A	A	A	A	A	8	5/15/2003	13:52:20
9	0 12345 67890 5	U.P.C.A	LASER	Full ANSI	A	A	A	A	A	10	5/15/2003	13:52:25
10	0 12345 67890 5	U.P.C.A	LASER	Full ANSI	A	A	A	A	A	9	5/15/2003	13:52:32
11	0 12345 67890 5	U.P.C.A	LASER	Full ANSI	A	A	A	A	A	11	5/15/2003	13:52:37
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## Exiting SVS and Returning to Verifier Stand-Alone Operation

If you are using the Elite verifier, no action is necessary. If you are using the MD, press the **Clear** key on the terminal to exit Command Mode.

## Assistance

If you encounter any problems with the SVS program, or have any questions about its operation, please contact Stratix Customer Support or your Stratix Account Manager at 800-883-8300 for assistance.