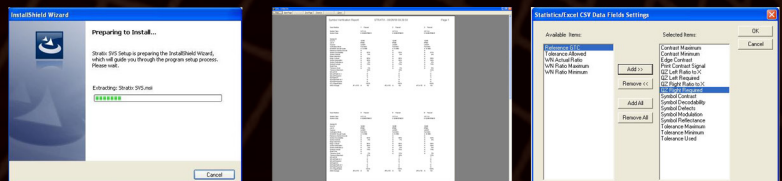
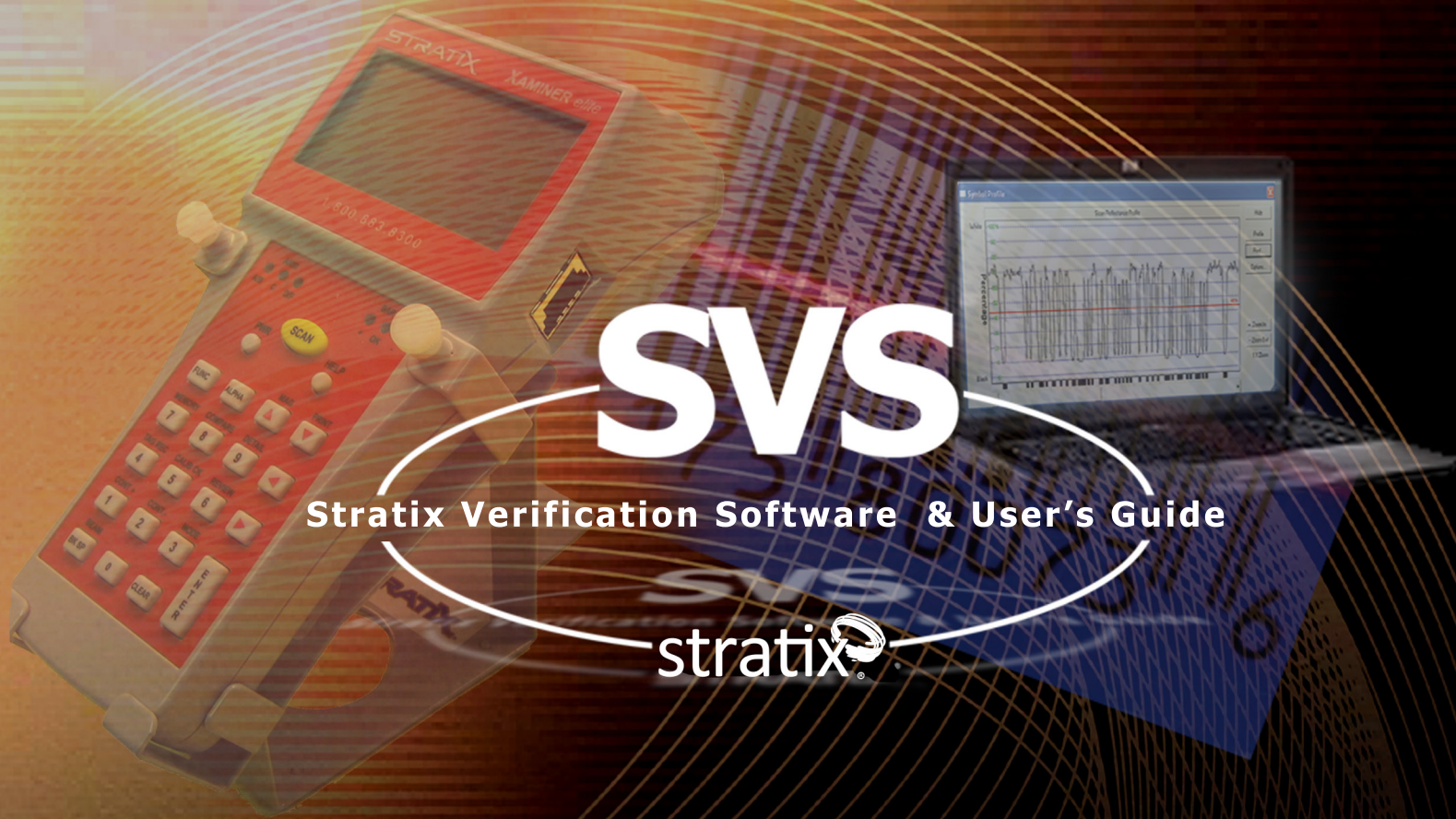


Organize and Interpret bar code scan data with ease.



Flexible and intuitive this software provides a graphical representation of each scan for review and evaluation.



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Introduction

Stratix Verification Software (SVS) makes it easy to organize and interpret bar code scan data collected by the Xaminer Elite verifier. This flexible, intuitive software provides a graphical representation of each scan for review and evaluation. Users may select specific statistics for analysis, print batched reports, and more. SVS works hand-in-hand with the Xaminer Elite verifier to help guarantee the accuracy and quality of printed bar codes.

System Requirements

Supported Operating Systems:

Windows® 95, 98SE, NT4.0 with Spk. 6, ME, 2000, XP, Vista, Windows 7

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Installation Instructions

The following step-by-step instructions lead you through the installation process.

Installing From CD

1. When the disk is inserted into your PC's CD drive, the software is designed to automatically run the InstallShield Wizard (Figures 1a-b). Click **Next** to continue the installation steps.



Figure 1a



Figure 1b

- Next, you will be asked to review the license agreement, enter user name and organization information, and select the destination folder. **Accept** the terms of the license agreement and click **Next** to continue (Figures 1c). Input your name and your company name on the customer information form (Figures 1d).



Figure 1c



Figure 1d

3. Once this information is entered, click **Install** and the InstallShield Wizard will install the program (Figures 1e-f).

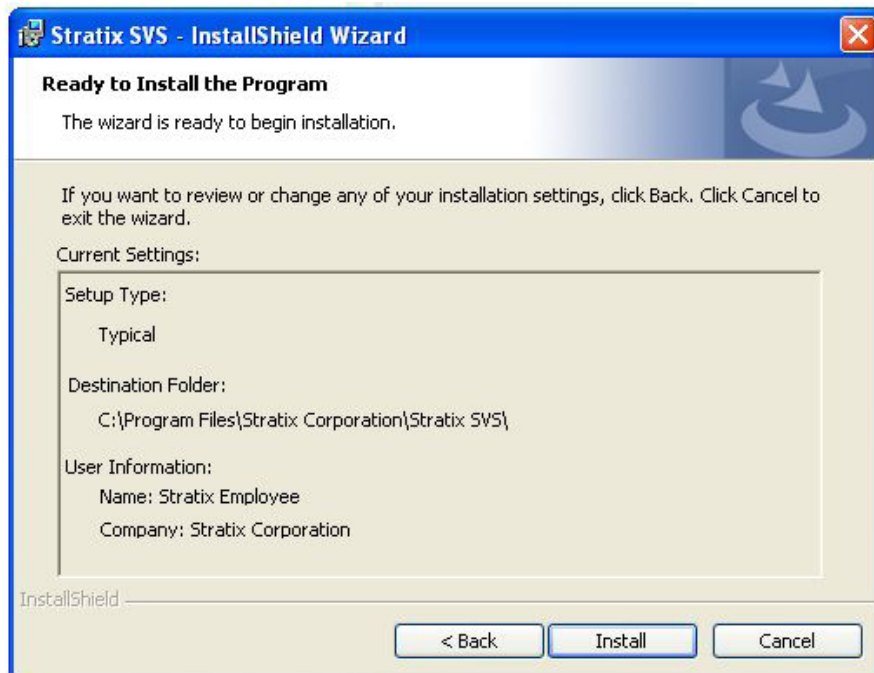


Figure 1e



Figure 1f

- When the installation is complete, select **Finish** to exit the installer and launch the program (Figure 1g).

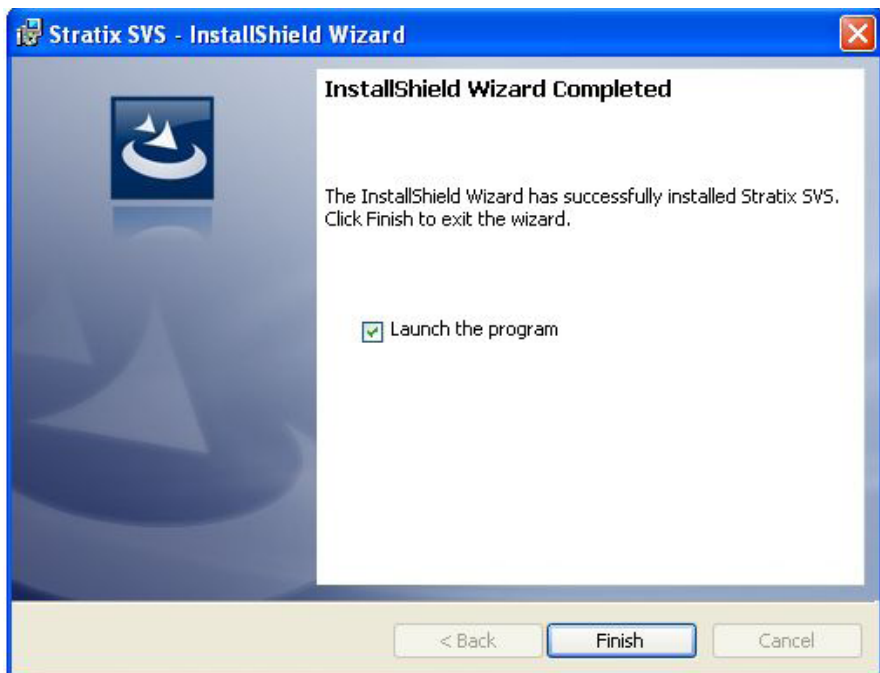


Figure 1g

- If AutoRun does not begin automatically, browse the CD and run the **setup.exe** file. If you encounter any problems with this process, contact Stratix Technical Support at 800-883-8300 for assistance.

Setting up SVS with Your Xaminer Elite Verifier

SVS versions 4.1 and above support the Stratix Xaminer Elite verifiers (version 4.01 or later is required for all of the features in SVS 4.1 to be supported). Connecting the Verifier to your PC and using the software is easy and intuitive. See Figure 2 to help you identify the components needed and follow these steps:

1. **Plug** the communication cable (2) RJ-45 modular connector end into the base of the Xaminer Elite (1).
2. **Connect** the Xaminer Elite power supply (3) to the communication cable (2).
3. **Connect** the secondary power cable (4) to the Xaminer Elite power supply (3).
4. **Plug** the secondary power cable (4) to a standard wall outlet.
5. **Connect** the communication cable (2) 9 pin connector to the COM1 port on your PC.



Figure 2

Opening SVS from Windows

To open SVS using your Windows toolbar, click the **SVS shortcut** icon (Figure 3), or click the **Start Menu** and select **Programs\Stratix Corporation\Stratix SVS** (Figure 4). The main SVS user interface (Figure 3) will open.



Figure 3

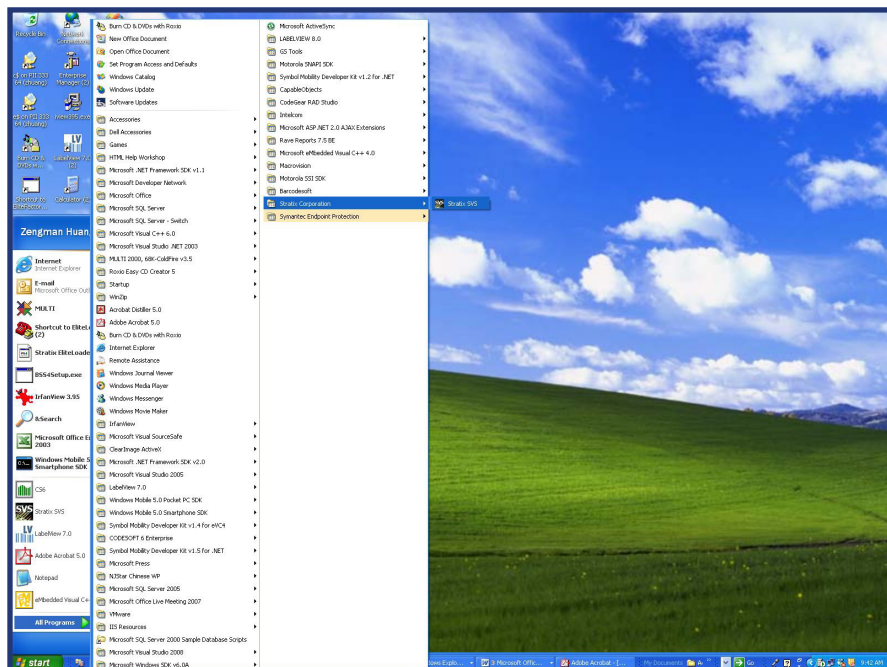


Figure 4

Setting up Your Xaminer Elite Verifier

It's easy to connect your Xaminer Elite Verifier to your PC so that the device communicates with and provides data to the software.

1. **Power** on the Xaminer Elite.
2. Press the **Func** key, then 0 to access the Main Menu. Then press **6** for SVS/Loader. The screen will display "Command Mode: SVS/Loader" Key **Clear** to exit. Do not exit this screen. The Xaminer Elite is now ready to communicate with the SVS.

Looking at Data with SVS

The first time you open SVS you will see the three data windows shown below (Figure 5). Verification records are displayed in these windows either by commanding the Xaminer Elite verifier to scan codes using this interface, or by uploading previously scanned records from the verifier to SVS.

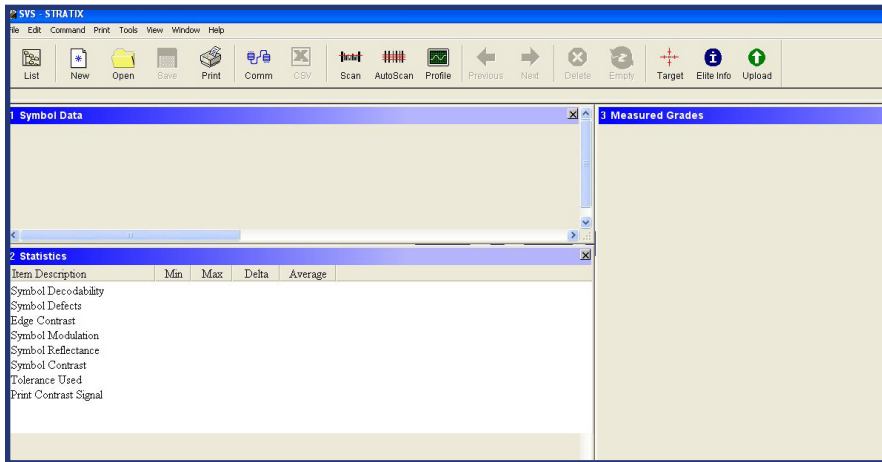


Figure 5

Window 1 provides the Symbol Data for the bar code. This data will be similar to the human readable portion of the bar code, but will also contain encodation data.


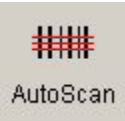
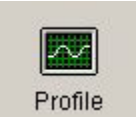

Window 2 displays Statistics for all records in the active SVS session including:

- Symbol Decodability
- Symbol Defects
- Edge Contrast
- Symbol Modulation
- Symbol Reflectance
- Symbol Contrast
- Tolerance Used
- Print Contrast Signal

Window 3 displays the Measured Grades results for the currently selected record. The most recent record will be displayed, or the user may click the "list" button on the toolbar to display the record tree of all the records in the current session. The content of this window can be modified using a drop down menu. This feature is described on page 14 of this document.

Commanding the Xaminer Elite Verifier via SVS

The Xaminer Elite verifier's laser is controlled from the SVS interface with four principal selections: Scan, AutoScan, Profile, and Target. NOTE: These functions are not available when using a Wand to capture data.

Function	Description
 <p>Scan</p>	<p>Scan</p> <p>To scan a bar code, click the SCAN button. The scan results will immediately be displayed in the 3 data windows.</p>
 <p>AutoScan</p>	<p>AutoScan</p> <p>The AutoScan feature allows data to be collected in batches. This feature is useful for quickly generating average grades based on multiple scans at different scan points within a single bar code.</p> <p>To use AutoScan:</p> <ol style="list-style-type: none"> 1. Click the AutoScan button. 2. The AutoScan window will be displayed (Figure 6). 3. Set the number of scans required in the field labeled Number of Successful Scans to perform. 4. Click Start to begin scanning the bar code. When the requested number of scans has been completed the operation will end automatically. 5. Completed scans can be viewed by clicking the List button.
 <p>Profile</p>	<p>Profile</p> <p>The Scan Reflectance Profile (SRP) for the bar code can be captured and displayed by using the Profile button. Click Profile to display the Symbol Profile window (Figure 7). Clicking the Profile button on this window will capture SRP data for the bar code. Two Zoom buttons, also located on this window, allow detailed inspection of individual elements of the bar code.</p>
 <p>Target</p>	<p>Target</p> <p>To center a bar code in the laser beam path, click the Target button. This will project the laser beam from your Xaminer Elite verifier for approximately 5 seconds and allow the bar code to be positioned correctly without actually recording a scan.</p>

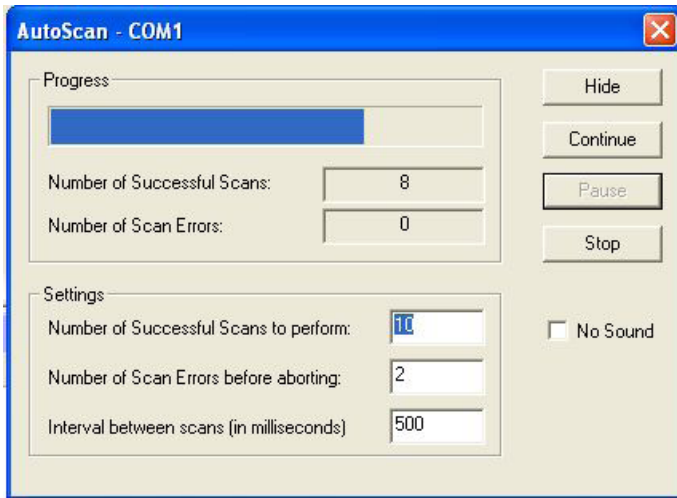


Figure 6

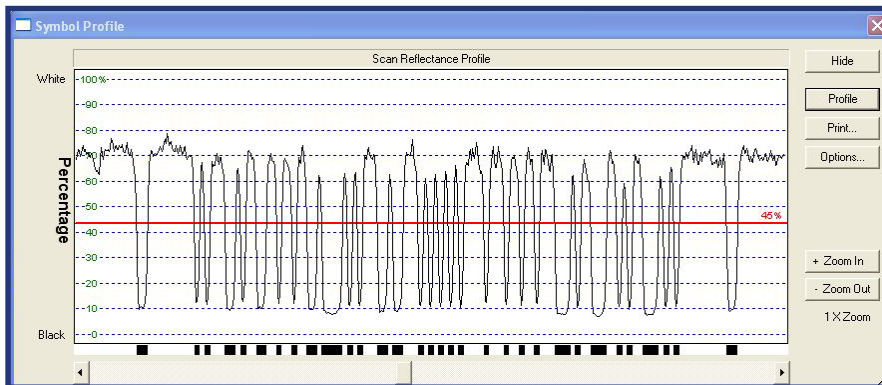















Figure 7

The Scan Reflectance Profile (SRP) (Figure 7) illustrates the bars and spaces in the code. The red line represents the Global Threshold. The peaks above the Global Threshold indicate spaces (high reflectance areas) and the valleys below the Global Threshold indicate bars (low reflectance areas). The bottom of the SRP window recreates the bar code based on the digital values displayed in the graph.

SVS Toolbar Button Commands

The SVS Toolbar features button commands that allow you to quickly and easily access and view information.

Command Button	Description
 List	List The List button displays a record tree on the left side of the main SVS window that contains each verification scan that has been completed or uploaded. New records will be appended to any existing records already in the file.
 New	New The New button creates a new SVS file.
 Open	Open The Open button opens a saved SVS file.
 Save	Save The Save button saves the current SVS file data.
 Print	Print The Print button prints the "Measured Grades" for all records in the active SVS file.
 Comm	Comm The Comm button is used to Select/Change the communication port settings (Figure 8).
 CSV	CSV The CSV button creates a Microsoft Excel CSV file for all records in the active SVS file.
 Previous	Previous / Next Any record from the active SVS file may be reviewed by using either the Previous or Next buttons.
 Next	
 Delete	Delete The Delete button deletes the current scan record.
 Empty	Empty The Empty button deletes all of the stored scan records in the active SVS file.

Command Button	Description
 Elite Info	Elite Info To obtain information about the Xaminer Elite (version 4.01 or later) verifier, click Elite Info button on the tool bar, and SVS will display the Xaminer Elite software version, release date, serial number, model, and calibration data (Figure 9).
 Upload	Upload Elite Verification Records To upload data scanned independently with the Xaminer Elite (version 4.01 or later), click the Upload button on the SVS tool bar. The "Upload Verification Records" window will appear. Input the number of records desired in the field labeled "Upload Number" and click Start to begin the upload (Figure 10). The Upload feature is a convenient method for viewing wand-captured records, and allows data to be captured remotely and then analyzed later on your PC.

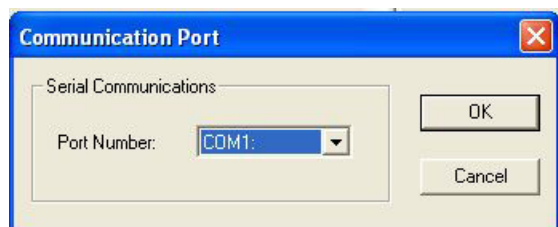


Figure 8



Figure 9



Figure 10

Statistics and Measured Grades Setup

The following Statistics and Measured Grades windows are automatically populated with information for each scan when a scan is completed. The information in the Measured Grades window can be customized to fit your organization's needs.

Statistics Screen

The Statistics Screen (Figure 11) provides cumulative measures on certain parameters for all the records in the active SVS file. The measures provided are Min/Max/Delta and Average for all scanned records.

2 Statistics					
Item Description	Min	Max	Delta	Average	
Symbol Decodability	87	93	6	90	
Symbol Defects	7	9	2	8	
Edge Contrast	65	66	1	65	
Symbol Modulation	86	89	3	88	
Symbol Reflectance	8	8	0	8	
Symbol Contrast	73	76	3	74	
Tolerance Used	3	13	10	5	
Print Contrast Signal	90	90	0	90	

Figure 11


3 Measured Grades			
 Passed			
Sample ID			
User ID	12345		
Job ID	67890		
Scanner	LASER		
Verification Mode	Full ANSI		
ISO/ANSI Overall Grade	A	6 / 650	
Reference Symbol Decode	A		
Symbol Decodability	A	89%	
Symbol Defects	A	7%	
Edge Determine	A		
Edge Contrast	A	65%	
Symbol Modulation	A	89%	
Symbol Reflectance	A	8%	
Symbol Contrast	A	73%	
Quiet Zone	A		
Tolerance Used	A	3%	
Tolerance Maximum		23%	
QZ Left OK	T		
QZ Left Ratio to X		9	
QZ Left Required		9	
QZ Right OK	T		
QZ Right Ratio to X		9	
QZ Right Required		9	
UCC Magnification		100%	
ANSI Average	# 10 of 10	A	4.0

Figure 12


3 Measured Grades			
 Failed			
Sample ID			
User ID	12345		
Job ID	67890		
Scanner	LASER		
Verification Mode	Full ANSI		
ISO/ANSI Overall Grade	F	6 / 650	
Reference Symbol Decode	A		
Symbol Decodability	A	91%	
Symbol Defects	A	9%	
Edge Determine	A		
Edge Contrast	A	65%	
Symbol Modulation	A	90%	
Symbol Reflectance	A	8%	
Symbol Contrast	A	72%	
Quiet Zone	F		
Tolerance Used	A	6%	
Tolerance Maximum		19%	
QZ Left OK	F		
QZ Left Ratio to X		7	
QZ Left Required		9	
QZ Right OK	F		
QZ Right Ratio to X		7	
QZ Right Required		9	
UCC Magnification		100%	
ANSI Average	# 1 of 10	F	0.0
Error Message:			
Quiet Zone: Right Is Small			
Actual: 7			
Required: 9			
Quiet Zone: Left Is Small			
Actual: 7			
Required: 9			

Figure 13

Measured Grades

The Measured Grades window (Figure 12) displays the verification parameters reported by the Xaminer Elite verifier. This window 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 SVS file. If the Xaminer Elite reports a "Failed" record, the Error Messages will be displayed at the bottom of the Measured Grades window (Figure 13).

The user may configure the parameters to be displayed by selecting **Window** from the SVS toolbar. On the drop down menu that follows, select **Measured Grades Setting**. The selection window is displayed (Figure 14), 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 selections have been made.

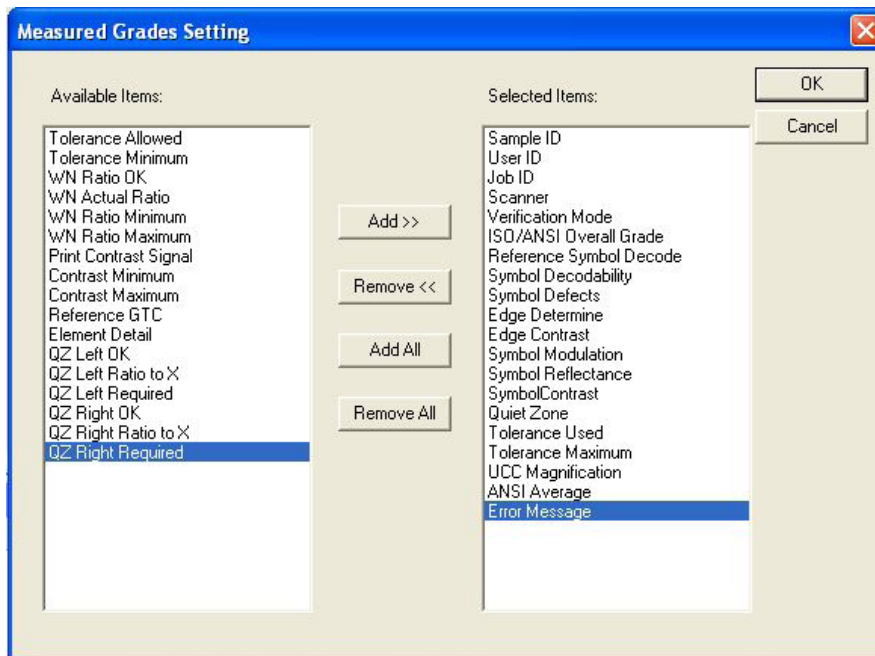


Figure 14

If the Element Detail feature is activated on the Xaminer Elite verifier (version 4.01 or later), Element Detail information will be reported in the Measured Grades window (Figure 15). For instructions on how to activate the Element Detail feature on the verifier, see the **Xaminer Elite User's Guide**.

3 Measured Grades

Passed

Sample ID

User ID

Job ID

Scanner

Verification Mode

ISO/ANSI Overall Grade

Reference Symbol Decode

Symbol Decodability

Symbol Defects

Edge Determine

Edge Contrast

Symbol Modulation

Symbol Reflectance

Symbol Contrast

Quiet Zone

Tolerance Used

Tolerance Maximum

QZ Left OK

QZ Left Ratio to X

QZ Left Required

QZ Right OK

QZ Right Ratio to X

QZ Right Required

UCC Magnification

ANSI Average

12345

67890

LASER

Full ANSI

A 6 / 650

A

A 89%

A 9%

A

A 66%

A 89%

A 8%

A 74%

A

A 10%

26%

T

9

9

T

9

9

100%

A 4.0

8 of 10

Element Detail:

Length: 1.235 Inch

X Dimension: 13.0 mil

Magnification: 100%

QZ

118.5

<

Figure 15

Additional SVS Setup Options

SVS offers additional set up options that allow you to customize the software to suit your specific needs.

ANSI Average Scan Number Setup

1. Go to the **Tools** pull down menu.
2. Click **Average Scan Number**.
3. The **ANSI Average Scan Number** window will be displayed (Figure 16).
4. Type in the desired average scan number in the field labeled **Scan#**.
5. Click **OK** button to complete the setting.

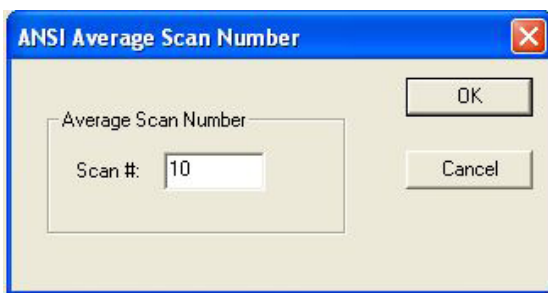


Figure 16

Sample ID Setup

1. Go to the **Tools** pull down menu.
2. Click **Sample ID**.
3. The Sample ID window will be displayed (Figure 17).
4. Enter the desired **Sample ID**.
5. **Group ID** will be available only when the current scan record is the last scan of the group scans.
The Sample ID will apply to every scan of this scan group if the **Group ID** is checked.
6. Click **OK** button to complete the setting.



Figure 17

Analysis Mode Setup

1. Go to the **Tools** pull down menu.
2. Select **ANSI Analysis Mode**.
3. The **Analysis Mode Setting** window will be displayed (Figure 18).
4. Choose **Full ANSI** or **Partial ANSI** for **Verify Mode**.
5. Choose **A, B, C, D** or **F** for **ANSI Pass On** grade (Default is C).
6. Check the **Corrugated** box if the bar code is printed on corrugated material.
7. Choose **A, B, C, D** or **F** for **Corrugated Symbol Contrast Pass On** grade (Default is D).
8. Select **OK** to complete the setting.

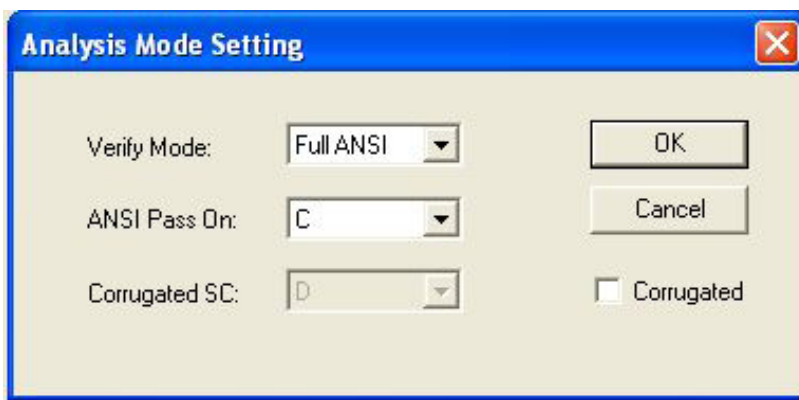


Figure 18

UPC/EAN Magnification Setup

1. Go to the **Tools** pull down menu.
2. Select **UPC/EAN Magnification**.
3. The **UPC/EAN Magnification** window will be displayed (Figure 19).
4. Select the appropriate **UPC/EAN Magnification** using the drop down menu (Default is 100).

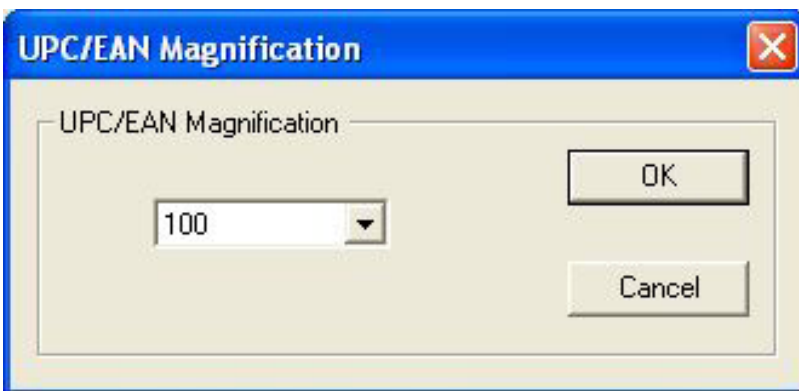


Figure 19

Window Fonts Setting Setup

1. Go to the **Window** pull down menu.
2. Click **Window Fonts Setting**.
3. The **Window Fonts Setting** window will be displayed (Figure 20), allowing the user to make changes to the SVS font settings.

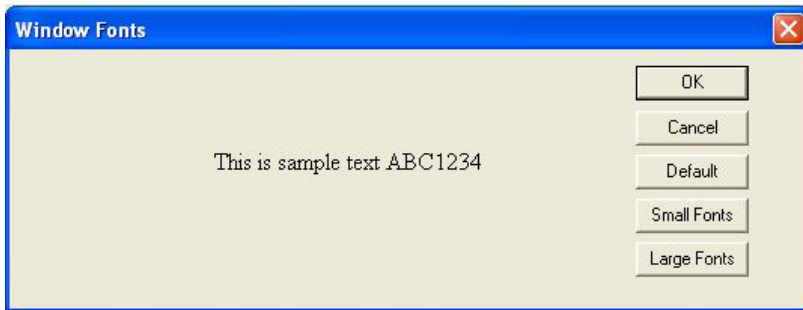


Figure 20

Exporting Results to Excel via CSV Upload

The records from any active SVS file may be exported as a Microsoft Excel CSV file, if the user has Microsoft Excel available.

The following data is always exported by default: Symbol Data, Symbol Type, Scanner, Verification Mode, Sample ID, ANSI Average Grade, ISO/ANSI Overall Grade, Reference Symbol Decode, Edge Determination, Quiet Zone, Symbol Decodability, Symbol Defects, Edge Contrast, Symbol Modulation, Symbol Reflectance, Symbol Contrast, Tolerance Used, Print Contrast Signal, Date, Time and Error Messages (maximum of 2).

The user can configure Export Data by selecting **Window** on the SVS toolbar, then selecting **Statistics/Excel CSV Data Fields Settings** (Figure 21). This window allows the user to add and remove CSV Data Fields.

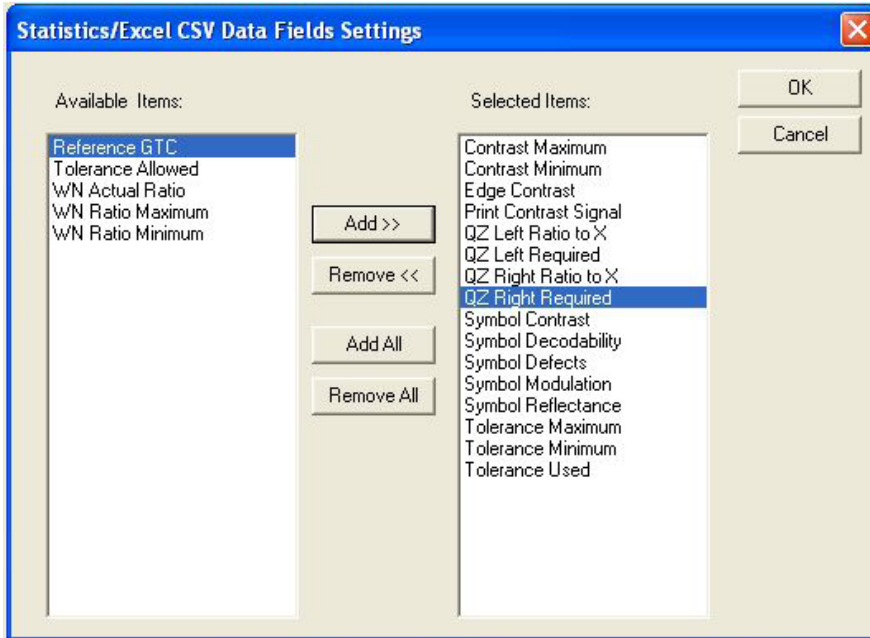


Figure 21

To export, select the **Excel** icon on SVS tool bar. The export operation automatically opens an Excel spreadsheet with preformatted column headings, and places the results for each record in the appropriate column (Figure 22). 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.

Microsoft Excel - Stratix.csv																								
File Edit View Insert Format Tools Data Telem Window Help																								
Type a question for help																								
Arial 10 B I U 100%																								
New List Get Work Items Publish Refresh Configure List Choose Columns Links and Attachments																								
A1	Symbol Data																							
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Symbol ID	Symbol Type	Scanner	Verification	SampleID	ANSI AwerISO/ANSI	Reference	Edge Data	Quiet Zone	Symbol Dc	Symbol Di	Symbol Di	Symbol Di	Edge Cont	Symbol Mi	Symbol Mi	Symbol Ri	Symbol Ri	Symbol Cc	Symbol Cc	Tolerance	Print Contrast		
2	0 12345 67 U.P.C.A	LASER	Full ANSI		#1 of 10A	A	A	A	A	93 A	8 A	66 A	66 A	89 A	89 A	8 A	74	3	90					
3	0 12345 67 U.P.C.A	LASER	Full ANSI		#2 of 10A	A	A	A	A	93 A	8 A	66 A	66 A	89 A	89 A	8 A	74	3	90					
4	0 12345 67 U.P.C.A	LASER	Full ANSI		#3 of 10A	A	A	A	A	91 A	8 A	66 A	66 A	89 A	89 A	8 A	74	6	90					
5	0 12345 67 U.P.C.A	LASER	Full ANSI		#4 of 10A	A	A	A	A	93 A	8 A	66 A	66 A	89 A	89 A	8 A	74	3	90					
6	0 12345 67 U.P.C.A	LASER	Full ANSI		#5 of 10A	A	A	A	A	89 A	7 A	65 A	65 A	89 A	89 A	8 A	74	13	90					
7	0 12345 67 U.P.C.A	LASER	Full ANSI		#6 of 10A	A	A	A	A	92 A	8 A	66 A	66 A	89 A	89 A	8 A	74	3	90					
8	0 12345 67 U.P.C.A	LASER	Full ANSI		#7 of 10A	A	A	A	A	89 A	9 A	66 A	66 A	89 A	89 A	8 A	75	6	90					
9	0 12345 67 U.P.C.A	LASER	Full ANSI		#8 of 10A	A	A	A	A	89 A	9 A	66 A	66 A	89 A	89 A	8 A	74	10	90					
10	0 12345 67 U.P.C.A	LASER	Full ANSI		#9 of 10A	A	A	A	A	87 A	9 A	65 A	65 A	89 A	89 A	8 A	75	6	90					
11	0 12345 67 U.P.C.A	LASER	Full ANSI		#10 of 10A	A	A	A	A	89 A	7 A	65 A	65 A	89 A	89 A	8 A	73	3	90					
12	0 12345 67 U.P.C.A	LASER	Full ANSI		#1 of 10F	A	A	F	A	91 A	9 A	65 A	65 A	90 A	90 A	8 A	72	6	90					
13																								

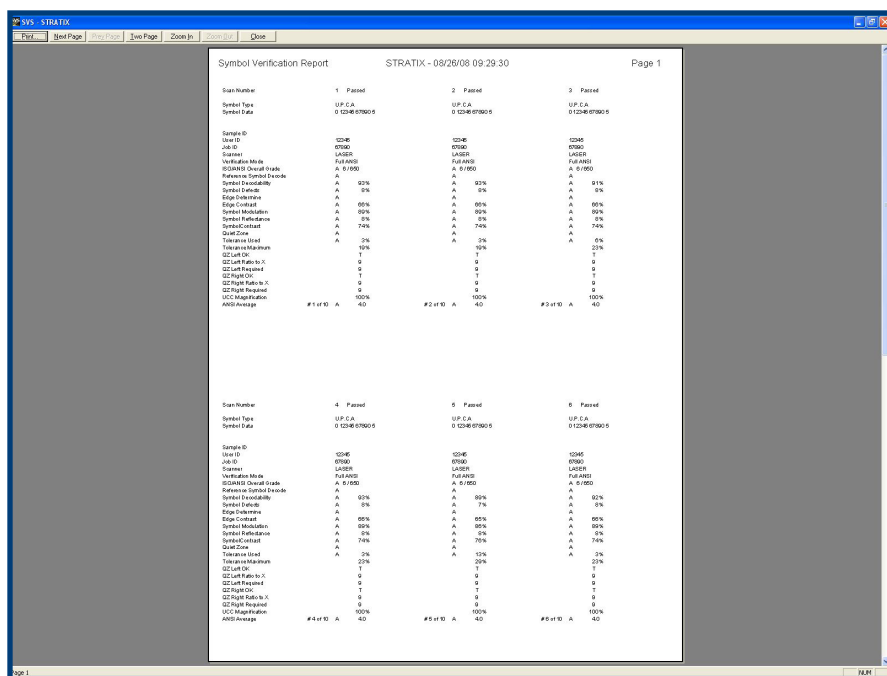
Figure 22

Printing Scan Reports

You may print out the results of your scans at any time during the session. The number of scans in memory is displayed above the Symbol Data window.

Printing Options

1. Use the **Print** button on the SVS toolbar to print a Measured Grades report that contains a maximum of 6 scans per page for all stored records (Figure 23).
2. Select the **Print** option on the menu bar for the following printing options:
 - **Print Statistics** – prints the Statistics report for all stored records.
 - **Print Profile** – prints a Scan Reflectance Profile for the current stored record (must perform a Scan Reflectance Profile prior to printing).
 - **Print Current Report** – prints the Measured Grades for the active or selected record.
 - **Print Element Detail** – prints the Element Detail report for the active or selected record.



Exiting SVS and Returning to Verifier Standalone Operation

Press the **Clear** key on the Xaminer Elite verifier to exit Command Mode: SVS/Loader, then **disconnect** the communications cable from the PC. The verifier will return to stand-alone operation.

For Technical Support

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



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