RJS SV SERIES of SCANNER/VERIFIERS

The SV Series of scanner/verifiers by RJS provides both fixed position scanning and high-speed on-line ANSI method verification of linear bar codes. This unique instrument can be used for many types of bar code scanning and/or verifying applications.

The SV Series assures that bar code print quality is at an acceptable level. It checks to make sure the print mechanism has not failed or gone out of adjustment during operation. It even makes sure that the correct data is encoded and that the encoded data is in the proper format.

The SV SERIES of SCANNER/VERIFIERS are ON-LINE VERIFIERS

The SV Series analyzes and reports virtually every verification parameter known. ANSI and Traditional print quality parameters are transmitted along with decoded data. The reported symbol quality parameters ensure the print method or complete bar code process is optimized. This is important for ISO corrective action procedures, label manufacturing and printing, tracking systems, ink jet applications and more.

The SV SERIES of SCANNER/VERIFIERS are FIXED POSITION SCANNERS

The SV Series can operate as a fixed position scanner. But, since it also provides diagnostic bar code quality information, it can reduce system downtime and save material costs. It does this by isolating the source of the problem. Once the source of the problem is found, it can be corrected before non-readable bar codes are printed and material is wasted.

The diagnostic capability is also useful when installing the scanner or after a conveyor or printer maintenance cycle. The available print quality information gives an indication of first time read rates, optimal scanner alignment, optimal conveyor speed and optimal printer settings and adjustments. In short, everything that is needed to ensure proper set-up of a system.

EASY SETUP / FLEXIBLE INTERFACE

The SV Series uses a serial port to interface with RJS ScanVision, a PC based software package used for set-up and monitoring. Use ScanVision for SV setup while the scanner/verifier is off line and/or use it for real-time bar code quality analysis while the scanner/verifier is operating. The unit also incorporates Model SV download language for setup without RJS ScanVision.

Five hardware outputs are available via an I/O-Power port for logic operation such as No Read, Poor Quality, Good Quality or Good Read status. Two synchronization inputs are also available for robust No Read evaluations. Two LED's are available for status indications.

The serial port can also be used without ScanVision to provide decoded data and/or bar code analysis information to a host system.
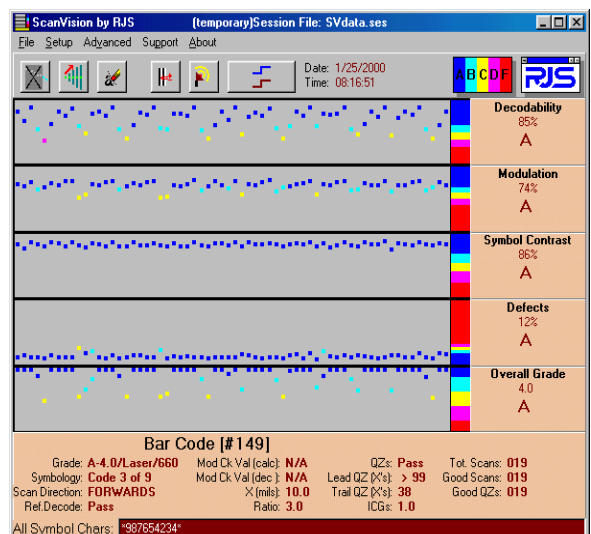
RJS MODEL SV SERIES SYSTEM DESCRIPTION and TECHNICAL DATA

SV Series Model Specifications*

	SV100	SV100HD	SV100C	SV200-1	SV200-2
Analyses/sec	100	100	100	200	200
Beam Width	6" (152mm)	4.5" (114mm)	10.5" (267mm)	2.5" (63.5mm)	1.75" (44mm)
Focus Distance	8" (203 mm)	6" (152mm)	15" (381mm)	8" (203mm)	6" (152mm)
X dim (min)	.0067" (.17mm)	.005" (.127mm)	.013" (.33mm)	.0067" (.17mm)	.005" (.127mm)

Contact RJS Technical Support for information on custom and other models

Accessories and Options

Universal Power Supply Unit, RJS ScanVision Software, Female DB-9 to Female DB-9 Communication Cable (6 ft. (1.8 M) length), Calibration Symbol, Mounting Stand, Rastering Scan Line, Interface Kits for Zebra and Sato Printers (contact RJS for additional printer types), Power Supply/Sensor/Output Cable.

Data and Quality Parameters Available**

Decoded Data, All Symbol Characters, Modulo Check Digit Analysis, Symbology Type, ANSI Method Overall Symbol Grade, ANSI Method Parameter Grades, (Reference Decode, Decodability, Modulation, Symbol Contrast, Rmin/Rmax, Defects, Min. Edge Contrast and Global Threshold), Average Bar Deviation, Ratio (if applicable), PCS, Element Reflectance (min. and max.), Quiet Zone Analysis, X Dimension, Inter-Character Gap (if applicable), No Read Flag, % decode, Partial Read Analysis, Pass/Fail Flag, Data Match (up to ten (10) fields), Increment/Decrement (base 10 and base 36).

** *Note: 1. All reflectance parameters require calibration, fixed scanning distance and fixed angle of scan*
2. X dimension requires fixed scanning distance

Symbologies

USS Code 39, USS Code 128, USS Code 93, USS Codabar,
USS Interleaved 2 of 5, UPC / EAN including 2 and 5 digit supplemental codes
(Contact RJS for special symbology applications.)

Scanning Performance

Depth of Field – Mount at specified focus distance for most accurate verification operation.
Ladder or Picket Fence Bar Codes
Up to four (4) bar codes across

Operation Modes

Sync (edge and envelope), Freescan and ScanVision off line modes can be enabled

Physical

Package:	4.4" (112 mm) x 2.4" (61 mm) x 5.2" (132 mm)
Indications:	Five (5) LED's – Power/Sync, Calibration, Read, two (2) programmable LED's
Comm Port:	DB-9 male, RS 232C, programmable baud rate up to 115200 baud
I/O-Power:	DB-15 male, five (5) programmable outputs, two (2) sync inputs +5VDC @ 1 amp required
Mounting:	Two (2) sets of mounting holes on two (2) different surfaces or a clamp for tightening to a 3/8" (9.5 mm) rod.