

SV Series of Bar Code Scanners and Verifiers

RJS SV SERIES of SCANNER/VERIFIERS

THE BARCODE VERIFIER THAT PERFORMS
THE ANSI SCAN REFLECTANCE PROFILE METHOD



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.

How does it work?

Level 1 - Scanning Operation

This operation is always enabled. When a bar code enters the laser beam, the SV unit "locks" onto it and continues to scan the symbol until it leaves the laser beam. While a bar code is in the beam, the SV unit's READ led will be on. When the bar code exits the beam, the SV unit performs quality analyses on the code by averaging all the scans gathered while the code was in the beam and transmits the decoded data along with all quality information via the serial communications port.

Level 2 - Output Port Operation

The SV Series has five output ports that can be manipulated by various bar code quality and data parameters. This is accomplished by enabling an output interface mode. An assortment of modes is available. The modes are selected and programmed through serial communications. Each mode has a specific format for output activation and also has a specific list of programmable parameters available to use as conditions to activate the ports. This enables an SV to control a printer, send signals to a PLC, illuminate a light stack, etc.

Level 3 - No Read Detection

Bar code quality and data analyses depend on the symbol being able to be decoded. In many on-line applications, there is a possibility of printer errors, applicator errors, material problems, damaged labels, etc. that cause an unreadable or non-present bar code. This "No Read" condition is very often an important parameter to detect.

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

SV Series SYSTEM Description and Technical Data

SV Series Model Specifications

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

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 MUNAZO for special symbology applications.)	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.
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	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.



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"AutoScan II manufacturer since 2001"

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Department of Product Management

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