Quick Check® On-Line SV Series Verifiers



Features

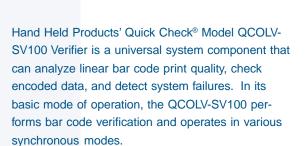
State-of-the Art Digital Signal Processor (DSP) Technology -Ensures higher processing speed, faster printers, and more analysis per symbol.

ANSI, Traditional, Encoded Data Format, and Laser Scanning Methods - Provide reflectance, dimensional, and format measurements.

QC ScanView Windows®-based Software for System Operation - Programmable and serial port outputs assist in setup.

Flexible Optical Configurations - More adaptable optics read higher density and low contrast symbols.

Datamatch Compatibility - Secures encoded data equivalence.



The QCOLV-SV100 combines state-of-the-art digital signal processor (DSP) technology, a proprietary high-speed moving beam laser scanner with unique analog output capability, and flexible I/O and communications capability. This powerful architecture enables the unit to be an economical Quality Assurance tool for practically any bar code printing, application, or conveyance system.

The QCOLV-SV100 performs most accepted methods of bar code verification: ANSI method, traditional method, encoded data format checks, and laser scanning type analyses. These wide ranging analysis parameters can be used to measure bar code quality and detect failure mechanisms for any print technology. Bar code quality and encoded data information can be reported through the serial communications port for each code analyzed; therefore, accountability for all printed bar codes is possible. The QCOLV-SV100 I/O consists of five programmable output ports, two programmable display LEDs, and a sync input. The programmable ports allow the unit to be used as a controller for pausing printers, activating lights, and gating conveyors.

The recommended setup tool for the QCOLV-SV100 is Hand Held Products' QC ScanView, Windows®based software. This program simplifies setup via menus, and offers real time monitoring of bar codes being analyzed. QC ScanView programs the QCOLV-SV100 via serial communication using a PC download language (described in the User's Guide, part #QCOLVSV/UG).



Quick Checke On-Line SV Series Verifiers Specifications

QUICK Check [®] On-Line SV Series Verifiers Specifications		
Dimensions		
Height: Width: Depth:	5.2 in. (13.2 cm) 4.4 in. (11.2 cm) 2.4 in. (6.1 cm)	
Mechanical/Electrical		
Communication Port:	DB-9, male, RS-232C, programmable baud rate up to 115,200 baud	
I/O Power:	DB-15, male, 5 programmable outputs, 2 sync inputs +5VDC @ 1 amp required	
Mounting:	2 sets of mounting holes on 2 surfaces, or clamp for tightening to 3/8 in. (.5 mm) rod	
LEDs:	5	
Environmental		
Operating Temperature:	40 to 105° F (4 to 41° C)	
Storage Temperature:	-4 to 140° F (-20 to 60°C)	
Relative Humidity:	10 to 95% Non-condensing	
Ambient Light:	Not to exceed .5 mW/sq-mm 600 nm to 700 nm (calculated at about 2% of laser light level; estimate, not verified)	
MTBF:	10,000 hours (est.) (dominated by motor, then laser life)	
Scanner		
Scan Rate:	400 scans/second	
Laser Power:	3 mW (<u>+</u> .5 mW)	
Wavelength:	650-670 nm	
Beam Shape:	Elliptical	
Analysis Rate: Bar Code Density	100 analyses/second (min.)	
X Dimension:	6.6 mil (.2 mm) min. to 40 mil (1 mm) max.	
Scan Width:	6 inches (15.2 cm) X Dimension: 10 mil (.25 mm) or larger; 4.5 in. (11.4 cm) - (x dimension <10 mil)	
Depth of Field:	±.125 in. (3.2 mm) min. with all verification analysis enabled	
Symbologies	EAN/UPC with addenda, Code 39, Interleaved 2 of 5, Codabar, Code 128, Code 93	
Operation Modes		
Sync Mode Moving Bar Codes:	A sync signal is used to indicate when an object or label containing a bar code has entered or exited the laser beam. Bar codes are analyzed, ports activated, and transmissions sent as the bar codes pass through the beam. The QCOLV-SV100 is programmed for the number of bar codes to expect during a sync period. Therefore, the QCOLV-SV100 detects missing or undetectable bar codes. A hardware input is the most common sync source for Sync Mode.	
Sync Mode Stationary Bar Codes:	Bar codes are placed in the beam and hold in a known position. A sy	inc input commands the unit to turn on the laser beam, perform a
Stationary Dar Codes.	Bar codes are placed in the beam and held in a known position. A sync input commands the unit to turn on the laser beam, perform a programmable number of scans, report the analysis, and turn off the laser beam. RS-232 communication sync command (-SA) is the most common sync source. A rastering laser option is often used to analyze the bar code area.	
Non Sync Mode		
Free Scan Operation:	A sync signal is not used and the unit scans and analyzes bar codes as they pass through the laser beam. This mode is only recommended if the QCOLV-SV100 is used as a bar code decoder, since it can't report missing or undetectable bar codes.	
Parameters Analyzed	Average Bar Deviation (Traditional method parameter) Minimum Bar Deviation (Traditional method parameter) Maximum Bar Deviation (Traditional method parameter) PCS (Traditional method parameter) Reflectance – Light (Traditional method parameter) Ratio (Traditional method parameter) Quiet Zone (Traditional method parameter) X Dimension (Traditional method parameter) Decodability (ANSI method parameter) Defects (ANSI method parameter) Edge Contrast (ANSI method parameter) Global Threshold (ANSI method parameter)	Overall Symbol Grade (ANSI method parameter) Reference Decode (ANSI method parameter) Rmin/Rmax (ANSI method parameter) Symbol Contrast (ANSI method parameter) Bar Code Direction (scanner decoder function) Encoded Data (scanner decoder function) Symbology Type (scanner decoder function) % Decode (multiple scanning parameter) Modulo Check Digits (mandatory symbology and optional application parameters)

Safety/Regulatory

CE FCC Class B, CE Certified

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Worldwide Offices

Offices Serving North America Skaneateles Falls, NY Tel: +1 315 688 8945 or, in North America: +1 800 582 4263 napresales@handheld.com Charlotte, NC Tel: +1 704 998 3998 or, in North America: +1 800 582 4263 napresales@handheld.com

Offices Serving Europe, Middle East, and Africa Europe Tel: +31 (0) 40 29 01 600 eupresales@handheld.com

United Kingdom Tel: +44 (0) 1 925 240055 eupresales@handheld.com *Italy* Tel: +39 (0) 2 67 100752 eupresales@handheld.com

France Tel: +33 (0) 1 41 158220 eupresales@handheld.com Germany Tel: +49 (0) 7 477 151377 eupresales@handheld.com Spain Tel: +34 93 228 78 68 eupresales@handheld.com

Offices Serving Asia and the Pacific Rim Hong Kong Tel: +852 2511 3050 appresales@handheld.com Japan Tel: +813 5770 6312 appresales@handheld.com

Offices Serving Latin America Naples, Florida Tel: +1 239 263 7600 lapresales@handheld.com São Paulo Tel: +55 11 5016 3454 lapresales@handheld.com *Rio De Janeiro* Tel: +55 21 2176 0250 lapresales@handheld.com

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