



## Webscan – Your On-Line Solution Provider

Regardless of your bar code application, Webscan has a solution. Avoid any possibility of fines or lost business over bar code problems. Eliminate the time that is wasted researching and explaining bar code discrepancies to customers.

There is a better way! On-line, laser-based, bar code verification by Webscan. Call for more details or to arrange for a demonstration.

## Webscan TruSpec Bar Code Verifiers

Webscan's TruSpec on-line bar code verifiers are designed for installation on high speed printing presses, rewinders and slitters.

### TruSpec Models

Model 25 For narrow web presses running up to 500 FPM  
Model 100 For wide web presses up to 1,200 FPM

### Physical

Keyboard: 101 key  
Display Color 14 inch CRT

Power: 117VAC 650VA  
Light Source: 675 nm laser diode  
Laser Class: CDRH Class II

Dimensions:	Central Processor:	Scanner:
Height	7"	2"
Width	16"	3"
Depth	16"	2 3/4"

### Decoding/Grading Analysis Specifications

Full ANSI Grading A, B, C, D, F:  
Edge Determination, Minimum Reflectance, Symbol Contrast, Minimum Edge Contrast, Modulation, ANSI Defects, ANSI Reference Decode, ANSI Decodability and Quiet Zone. Traditional Parameters: Contrast (PCS, MRD). Bar Width Growth Percent.

### Performance

Web Speed	Model 100	Model 25
Max	1,200 FPM	500 FPM
100% UPC 10 Scans	750 FPM	300 FPM

### Decode Symbologies

UPC/EAN (UPC-A, UPC-E, EAN-13, EAN-8), Code 39, Interleaved 2 of 5, Code 128

### Environment

Temperature: 0-40°C  
Humidity: 5% - 95% noncondensing

### Outputs

- On screen and printed reports
- Reports saved to floppy disk
- RS232 output
- Relay output control

### Options

- NEMA 12 Electronics enclosure
- Industrial spool printer
- Beacon warning light
- Sequential and variable code validation

# TRUSPEC™ ON-LINE BAR CODE VERIFICATION



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ON-LINE IS BETTER!

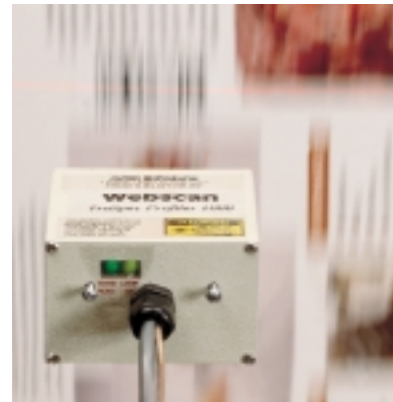


### ANSI - The Verification Standard

The ANSI bar code verification methodology was developed by an impartial group of industry experts that examined why bar codes failed to read in actual use. Several factors were found that influence the success of reading bar codes with various commercial scanners. The industry experts found that "Traditional" parameters used for bar code verification had little relevance in the real-world scanning process. At the same time many significant factors influencing scanning were not measured at all. Add to that the difficulty printers had complying with the traditional parameters and the need for a better method of verification was clear.

### TruSpec™ - True to the Specification

Patented TruSpec technology leads the way with on-line verification. This breakthrough technology reports all ANSI parameters including those which require analysis of the scan reflectance profile. Webscan's Profiler laser scanner technology generates the proper optical conditions that correlate to end-use laser scanners. This includes the effect of laser color and the optical process of substrate



Generating laser scans up to 2250 times per second, the TruSpec Profiler gives 10 scan coverage of UPC symbols at 1000 fpm. TruSpec patented signal processing produces full ANSI analysis on each and every scan in real-time.

scattering. The Webscan TruSpec system is engineered to comply with ANSI X3.182-1990 methodology and is calibrated using standards traceable

to the National Institute of Standards and Technology (NIST).

### On-line is Better!

With continuous feedback, on-line ANSI grading provides the best opportunity to catch printing problems as they occur. Print quality can be corrected before bar codes fail to scan with an early warning of degrading quality. This means less waste and no product claims from your customers. And with continuous monitoring throughout the run, you can be sure of the quality inside every roll you deliver to your customer.

Fixed mounting on press means all measurements are stable and repeatable job-to-job, operator-to-operator, shift-to-shift. No more hassles with hand-held verifiers! At any time during production you can see the total number of codes scanned and how they were ANSI graded on the display. The distribution of grades can also be printed out for each individual roll or as a job summary. It is not unusual to see hundreds of thousands of codes verified in a job!



Model 25 for narrow web presses.

### Designed for a Press Operator



Motorized traverse moves the laser scanner across the web for verification in all lanes. Rigid mounting ensures accurate and consistent grading.

No one understands the pressroom and operators like Webscan. As a result, TruSpec systems are easy to set-up and use.

Each individual parameter that makes up an overall ANSI grade is color coded in green (A & B grades), yellow (C grades) and red (D & F grades). With a quick glance, an operator will know if bar code quality is acceptable. Red characters draw the operator's attention to problems in the bar code and diagnostic information on the screen pinpoints the element in the bar code at fault.

Set-up of a TruSpec system takes no more than a minute and there is no hardware to adjust or focus. In addition, Job Storage capability allows the operator to recall jobs from memory reducing a one minute set-up to seconds! The laser scanner automatically recognizes every bar code that passes by.

### Practical Benefits for Process Control

With continuous feedback from the web, TruSpec systems have proven valuable as an on-line process control device. Throughout changing process conditions (press speed changes and ink and substrate variations), the operator gets real-time information which helps reduce waste and improve overall print quality.

Flexographic printers using the TruSpec system report that bar width growth measurements allow continuous feedback on impression and plate swell

throughout the run. In addition, contrast measurements correlate to the white ink opacity backing a bar code on clear film. The contrast measurements made by the TruSpec laser are absolute with a stable light source and fixed geometry. An operator can monitor and be alerted to decreasing background ink opacity by the Webscan system.

Scum or haze can be automatically detected in offset or gravure printing. Scum appearing on the substrate will reduce the contrast reading of a bar code.

### Variable or Sequential Codes

Whether you print a static code, an incrementing sequence, or a random database of codes, the TruSpec system will track each code and validate that the bar code contains the correct data. Not only will print quality be ANSI graded, but missing or wrong codes will be detected!

Easy to define sequences with prefix, middle and suffix fields allow data in most standard formats to be specified. This allows the system to automatically determine the next code to appear in the sequence. For random databases, a simple text file is loaded into the system to define the sequence of codes. You can have complete confidence in the integrity of the printed job against the input database.



Packaged in an attractive NEMA-12 console (optional), the TruSpec System fits in on the plant floor. Beacon warning light alerts operators to deteriorating bar code quality. Report printer produces roll and job summary reports.

### Scanners and Verifiers - Two different missions

Scanners and verifiers are as different as night and day. Scanners are designed to ignore print defects and aggressively extract the data content of a bar code. Verifiers, on the other hand, are designed to measure printing defects and report these measurements in a meaningful and useful way. TruSpec technology takes the verifier on-line for instantaneous and continuous feedback on printed bar code quality.

