

# OPSCAN 8 SCANNER DATA SHEET



The OpScan® 8 scanner is a powerful, high performance optical mark reading (OMR) scanner designed for high-speed data input. Efficient processing and operator productivity is maximized because the scanner automatically separates scanned forms without requiring operator attention or interrupting data entry.

Activities once requiring hours of stacking and sorting can now be managed quickly and easily. Human error and time-consuming re-sorts are virtually eliminated. And, with faster, more effective form handling, turn-around time shrinks and operators are freed for more productive activities.

A transport printer produces messages on forms as they are scanned with no reduction of the throughput rate. Messages may be based on data read from that form, such as social security numbers, edit or batch codes, or test results.

## Scanner Application

### Education

- Testing and assessment scoring
- Course scheduling
- Grade reporting
- Student, faculty & alumni surveys
- Admissions & enrollments
- Course/instructor evaluations

### Business, Healthcare & Government

- Job applications & member enrollments
- Time & attendance and payroll deductions
- Training and course evaluations
- Customer, employee, and patient surveys
- Vehicle registration & incident reporting
- Patient encounter & health risk appraisals

## OpScan 8 Scanner Features

The OpScan 8 scanner offers features to help ensure accuracy, speed, and ease of use.

### Accuracy

- Pearson NCS' digital read head technology helps prevent undetected degradation of read head accuracy. The OpScan 8 scanner alerts you when paper dust, eraser bits, etc. begin to build up and block read-cells, or when a read-cell degrades or fails.

- Two light sources for each read-cell minimize the effect of folds and wrinkles in forms.
- Precisely positioned read head wiping surfaces flatten wrinkled and folded forms and automatically clean the read head.
- A select stacker permits the automatic sorting of forms which fail user-specified edits during scanning. This increases speed and efficiency by being able to continue scanning when incorrectly completed forms are scanned.
- Sixteen-level mark discrimination differentiates erasures and smudges from valid marks.
- Sheet thickness detector helps ensure that one sheet at a time is read.
- Sheet skew detection helps ensure proper registration while reading.

### Speed

- Form throughput rate of up to 5,000 sheets per hour maximizes efficiency.
- A fixed, automatic feed hopper for 300 sheets helps eliminate continual reloading.
- Data transmission occurs as each row is scanned. This, coupled with Pearson NCS proprietary data compression, results in higher actual scanner throughput.

### **Ease of Use**

- Forty-character, alphanumeric operator messages simplify operation.
- An open feed path provides sheet visibility at all times as well as easy access for sheet removal and transport cleaning.
- The OpScan 8 scanner accommodates both Mark Reflex® and Trans-Optic® forms ranging in size from 2.5" x 5" to 9" x 12" (60-100 lb. offset).
- Forms failing user-defined edits can be directed to a 100 sheet auxiliary output tray.
- Scanner self-diagnostics quickly pinpoint any problem.

### **Options**

The OpScan 8 scanner is available with optional features:

- Dual-side reflective read head for faster two-sided form scanning.
- Ink read heads to scan both pen and pencil.
- Bar code attachment delivers immediate, automatic bar code identification.
- Download capability permits ASCII-coded output, which simplifies implementation when not using a PC.

### **Software Interfaces**

The OpScan 8 scanner is compatible with ScanTools® and ScanTools II software. This menu-driven software allows you to maintain files and define scannable forms—plus scan, edit, validate and display data. Interfacing with an OpScan scanner into your own custom software solution is done using the SFWLink® Tool Kit and ScanTools software. These tools are used by software programmers to implement scanning within their own software programs. For added value, the software converts files of scanned data into formats compatible with other commonly used packages, such as Microsoft® Access, Microsoft Excel, Lotus® and SPSS® software.

### **Physical Description**

- Length: 47.5"      •Height: 10.5"
- Width: 13.25"    •Weight: 52 lbs.

### **Environment**

- Operating Temperature: 60 to 85 degrees F
- Humidity: 40% to 60% relative; non-condensating
- Heat Dissipation: 900 BTUs per hour nominal

### **Power**

- Standard: 115 VAC +/-10% single phase; 60 Hz +/-5%; US 3-prong plug; 8 ft. cable; requires 15 amp dedicated circuit, single phase
- Option A: 50 Hz +/-5%; 100 or 110 VAC +/-10%; US 3-prong plug; 8 ft. cable; requires 15 amp dedicated circuit, single phase
- Option B: 50 Hz +/-5%; 220 or 240 VAC +/-10%; US 3-prong plug; 8 ft. cable; requires 7.5 amp dedicated circuit, single phase

### **Components**

- Read Head: 16 level mark discrimination; self-calibrating read head; one or two-sided reflective read; Pearson NCS .166" format
- Document Transport: Automatic feed; open design

### **Communications**

- Asynchronous: Protocol is defined to meet user's requirements; two female RS232 connections
- Communication Speed: From 1,200 to 115,200 baud
- Host Port for local or remote connection; cable at no charge when specified by the customer at time of scanner order
- Auxiliary Port allows connection of a terminal printer or video display in series with the scanner; cable may be purchased from Pearson NCS
- Compatibility: Sentry 3000® scanner emulation mode

### **Operation**

- 2.5" x 5" to 9" x 12" (60-100 lb. Offset); uses both Mark Reflex and Trans-Optic forms
- Form Input Capacity: Auto-feed 300 sheets
- Output Stacker Capacity: 300 sheets main stacker; 100 sheets select stacker
- Controls: Two push button programmable switches
- Message Display: 40 character, alphanumeric, fluorescent
- Scanning Rate: Model 36—3,600 sheets per hour; Model 50—5,000 sheets per hour (Actual scanning rate depends on quantity of data read from the form and the amount of processing done on that data while scanning)
- Programmable Interactive Transport Printer: Prints up to 63 characters per document; variable message printing based on scanned data

**Product information subject to change without notice.**

Pearson NCS' engineering and production processes for data collection systems and forms are ISO 9001 certified.



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