

# OPSCAN 4U SCANNER DATA SHEET

- *Faster, up to 2,200 sheets per hour*
- *Next generation charcoal finish*
- *Includes user training CD-ROM*
- *Complete software compatibility for easy upgrades*
- *Available with enhanced ScanTools® II scanning utility software*



The Pearson NCS Data Management OpScan® 4U optical mark read (OMR) scanner – weighing only 17 lbs. – is one of the most compact, portable desktop scanners available for automated data entry. Its powerful processor delivers fast document throughput and transfers into a variety of off-the-shelf and custom software packages.

## *Scanner Applications*

With today's increasing emphasis on accuracy, efficiency, and cost-effectiveness, the OpScan 4U scanner is the answer for information management challenges.

Applications include:

- Student testing
- Attendance
- Class scheduling
- Pre-employment testing
- Training and development survey
- Customer satisfaction survey
- Product/customer registration
- Conference course evaluation
- Patient encounter/satisfaction
- Crash, incident, EMS reporting

## *OpScan 4U Scanner Features*

### *Accuracy*

- Our digital read head technology helps prevent undetected degradation of read head accuracy. The scanner alerts you when paper dust, erasure 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 documents.
- Precisely positioned read head wiping surfaces flatten wrinkled and folded documents and automatically clean the read head.
- 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*

- Document throughput rate of up to 2,200 sheets per hour.
- A fixed, automatic feed hopper for 100 sheets eliminates continual reloading.
- Data transmission occurs as each row is scanned, resulting 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 4U scanner accommodates both Mark Reflex® and Trans-Optic® scannable documents.
- Scanner self-diagnostics quickly pinpoint any problem.

#### Options

- Dual-side reflective read head for faster two-sided document scanning.
- Ink read heads to scan both pen and pencil.
- Select stacker separates documents that fail edit checks.
- A programmable, interactive printer that prints information based on scanned data - such as error codes, alphanumeric messages, serial numbers, validation flags, and test scores - with no effects on the throughput rate.
- Bar code reader delivers application information.
- Download capability permits ASCII-coded output, which simplifies implementation when not using a PC.
- SelfScore® module for classroom test scoring and surveys.

#### Software Interfaces

The OpScan 4U scanner, when connected to a personal computer, is compatible with ScanTools II utility software. This menu driven software allows you to maintain files and define scannable documents - plus scan, edit, validate, and display data. Interfacing with an OpScan scanner into customer application software is done using the ScanTools II Link SDK and ScanTools II software.

For added value, the software converts files of scanned data into formats compatible with other popular software packages, such as Microsoft® Access, Microsoft Excel, Lotus® and SPSS® software.

#### Physical Description

- Length: 21.25" (without adjustable output stacker)
- Width: 14.5"
- Height: 9.0"
- Weight: 17 lbs.

#### Environment

- Operating Temperature: 60 to 85 degrees F
- Humidity: 40% to 60% relative; non-condensating
- Heat Dissipation: 130 BTUs per hour nominal

#### Power

- 100-240 volt operation: 100-240 VAC (-10%, +6%); 47-63 Hz; US 3-prong plug; 15 amp dedicated circuit
- Cords: Plug to power supply = 8 ft. Power supply to scanner = 6 ft.

#### Communications

- RS232, Asynchronous: using user-defined protocol
- Communication Speed: From 1,200 to 38,400 baud
- Main 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 14" (60-100 lb. Offset); uses both Mark Reflex and Trans-Optic documents
- Document Input Capacity: Auto-feed, 100 sheets
- Output Stacker Capacity: 100 sheets main stacker, 100 sheets select stacker (if present)
- Controls: Two push button programmable switches
- Message Display: 40 character, alphanumeric
- Scanning Rate: Model 18 - 1,800 sheets per hour; Model 22 - 2,200 sheets per hour. (Actual scanning rate depends on quantity of data read from the form and the amount of processing done on the data while scanning.)

*Product information subject to change without notice.*

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



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