

Quantum DS

Reader/Sorter Replacement



The Quantum DS was made to be a modern replacement for full-sized reader/sorter machines, retaining the most important capabilities at a fraction of the size and cost. With a rated speed of up to 200 documents per minute and 12-pocket sorting, it is the perfect choice for high-volume batch processing.

12-POCKET SORTING CAPABILITIES

The Quantum DS comes with 12 sorting pockets, each with a 200-item capacity. The operator may remove documents from the pockets while the unit is in operation, improving overall productivity. Status indicator lights on each pocket let users know when full (yellow) or ready to accept documents (green). Pocket sorting decisions can be based on MICR, OCR, image quality (front and/or rear), or a waterfall pattern.

KEY FEATURES & BENEFITS

- **Capture Items at up to 200 DPM**
- **300-Item Input Feeder**
- **1-to-4-Line Inkjet Endorser**
- **12 Pockets With up to 200-Item Capacity Per Pocket**
- **Compatible With Previous Quantum Models**
- **Continuous Feed - Add Documents and Empty Exit Pockets While Machine is Running**

4-LINE INKJET ENDORSER

A rear inkjet endorser prints up to four lines of text or graphics and supports True Type fonts and various foreign fonts. The endorser provides two operator-selectable height adjustments and three print quality settings.

UNLIMITED CONTINUOUS FEEDING

The auto-feeder holds up to 300 documents at a time, and more items can be added while scanning is in progress. The exit pockets can also be emptied while the machine is running, allowing potentially unlimited continuous scanning. In "waterfall" mode, the Quantum DS fills each pocket without sorting and then moves on to the next one, giving it a capacity of up to 2,400 items at a time.



Compatibility

Digital Check recognizes the importance of stable production environments for meeting high-demand service agreements. The Quantum DS is compatible with previous generations of our legacy Quantum machines.



Smart (Replaceable) Component Design

One reason that our competitors' reader/sorters are being retired is that it is harder to find replacement parts. The Quantum DS shares most components in common with other models in the SmartSource® scanner family, so they're affordable and easy to come by. The important parts are also user-replaceable - a key design choice in the high-wear, high-volume environments that it was built for.



Extended Lifespan & Duty Cycle

One of the biggest issues with replacing older reader/sorters with today's smaller desktop scanners is that they aren't designed to handle the same daily volume. Most desktop scanners tend to have a duty cycle that tops out at 1,000 or 2,000 items per day, but the Quantum DS will keep going for 25,000 or even 50,000 and beyond.



Quantum DS

Specifications



Scanner Dimensions (12-Pocket Configuration)

Height: 8.80 in (22.5 cm)
Width: 13.50 in (34.3 cm)
Length: 49.30 in (125.2 cm)
Weight: 59.5 lbs. (27.0 kg)

Scan Speeds - Documents Per Minute (DPM)

Up to 200 DPM

Document Input and Output Pockets

Entry Pocket: Up to 300-item hopper capacity
Entry pocket automatically opens for ease of use
Double document detection
Exit Pockets: Up to 200 items per pocket

Image Sensors

Resolution: 300 dpi
Light Source: Tri-Color LEDs

Front & Rear Image Capture

Image renditions available
- Bitonal (black/white)
- Gray level (256 gray shades)
- Color (24-bit, RGB)
Image resolutions available
- 300 dpi color
- 240 or 200 dpi, bitonal
- 240, 200, 120 or 100 dpi, gray level
Image capture combinations available
Front image capture (up to three images)
- 300 dpi, color (BMP)
- 240 or 200 dpi, bitonal (CCITT)
- 240 or 200 dpi (full resolution), gray level (JPEG)
- 120 or 100 dpi, gray level (JPEG)
Rear image capture (up to two images)
- 300 dpi, color (BMP)
- 240 or 200 dpi, bi-tonal (CCITT)
- 240 or 200 dpi (full resolution), gray level (JPEG)
- 120 or 100 dpi, gray level (JPEG)

Inkjet Endorser

User-replaceable ink cartridge (up to 600 dpi printing, 1-4 lines)
Three (3) levels of print quality available (economy, standard, or premium)
User-programmable text and graphics
Operator-selectable height adjustment options

Magnetic MICR Read Options

Auto-detect reads intermixed E13B and CMC7 documents
Optical Character Recognition (optional)
(2) OCR codelines selected under application control
Fonts: OCR-A, OCR-B, E13B
Barcode recognition (Requires OCR reader)
2 of 5, 3 of 9, UPC, GS1

Productivity Functions

Feeder start/stop SmartClear button

Connectivity

High-speed USB 2.0 cable and power supply included

Application Programming Interfaces (API)

CAPi for QDS
Ranger for Quantum DS (available from Silver Bullet Technology Inc.)

Supported Operating Systems

Windows 11, Windows 10 (32/64 bit)

Power Requirements

100-240 VAC @ 50/60 Hz
Operating Power: 330 W
Standby Power: 3 W

Environmental

Operating Temperature: 59° - 104° F (15° - 40° C)
Operating Humidity: 20 - 85% non-condensing at 40° C

Certifications

Safety:

UL, cUL, CE

Emissions:

FCC: Class A
ICES-003
CE
VCCI

RoHS Compliant

Part Numbers

QDS20012-SYS (Quantum DS with 12-pocket sorting and inkjet endorser)