SmartSource®

The Quantum DS Series

Production-class Desktop Reader Sorter

Quantum DS Series

Compatibility

Digital Check recognizes the importance of a stable production environment to meeting the service level agreements in place. That is why the Quantum Desktop Sorter (DS) has been designed to be compatible with our existing Quantum sorters. It provides the flexibility to use the DS to supplement your existing sorters without requiring expensive application changes.

Open Track Design

Assured visibility to documents in the track provides for easy operator access to documents and quick clearing of exception conditions resulting in faster recovery. This convenient, at-a-glance location of documents eliminates needlessly opening covers to check for a clear track.

Covers are easily removable to access track components for consumables replacement, operator maintenance, and accessing documents involved in some exception conditions. In most exception conditions, the open track design provides easy access to items in the track without removing the covers.

Auto-Feeder

The auto-feeder holds up to 300 documents (24 lb) and may be reloaded while the system is running. An auto-retracting document feeder flag is designed to enable single-handed operation when loading documents into the hopper.

After documents are inserted into the hopper, the device automatically closes the feeder flag and initiates document feeding.

After the last document in the batch is processed, the feeder automatically stops and the feeder flag opens so that the hopper is ready to accept the next batch of documents. Advanced double-document detection, using optical sensors controlled by system software, is standard on the Quantum DS.

MICR and OCR Readers

All Quantum DS systems are equipped with a Magnetic Ink Character Recognition (MICR) reader, providing the Digital Check standard highest recognition rates in the industry. Optionally, the Quantum DS may also be equipped for recognition of OCR and/or barcode fonts. A combined MICR/OCR read function, which is available with all Quantum DS reader configurations, provides exceptional read rates of MICR E13B printing.

Endorsement

A non-impact, 600-dpi ink-jet rear endorser prints up to four lines of text or graphical information under application control. The rear endorser provides for two operator-selectable height adjustments and three print quality settings under application control. The Quantum DS rear endorser supports graphical content, True Type fonts, including various foreign fonts.

Image Capture

A front, 300-dpi image scanner based on contact image sensor (CIS) technology captures front images of documents after passing the MICR reader. The early capture of front images allows for pocketing decisions based on image data without interrupting item flow. A rear, 300-dpi image scanner is positioned after the endorser to capture a complete data rendition of the rear documents.

The system provides for multiple, compressed greyscale and/or black & white image renditions to comply with today's banking image exchange requirements. High-resolution renditions may also be produced for CAR, LAR and ICR technologies. Image capture is accomplished without degradation to track speed.

Pockets

The Quantum DS is available in factory-configured 12-pocket or 8-pocket models. Each pocket can hold up to 200 documents*. The operator may remove documents from pockets while the unit is in operation, improving overall throughput of the operation. Status lights on every pocket indicate that pockets are full (yellow) or are ready to accept documents (green).

Performance

The Quantum DS has been designed as a production class, desktop reader-sorter. As such, it is the perfect choice for small to mid-range processing volumes, where document sorting is still a requirement. At a rated speed of 200 (6-inch) documents per minute, it is an intelligent powerhouse that fits on a desktop at an affordable price.

Quantum DS Technical Information

System Specifications

Sustained 200 documents per minute (dpm) for 6-in. (15.2 cm) checks

Machine Configuration

QDS20012-SYS – 12 pocket configuration
QDS2008-SYS – 8 pocket configuration

Magnetic MICR Reader 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

Front and Rear Image Capture

Image renditions available
- Bi-tonal (black/white)
- Grey level (256 grey shades)

Image resolutions available
- 240 or 200 dpi, bi-tonal
- 240, 200, 120 or 100 dpi, grey level

Image Capture combinations available
- Front image capture (up to three images)
     – 240 or 200 dpi, bi-tonal (CCITT)
     – 240 or 200 dpi (full resolution), grey level (JPEG)
     – 120 or 100 dpi, grey level (JPEG)
- Rear image capture (up to two images)
     – 240 or 200 dpi, bi-tonal (CCITT)
     – 240 or 200 dpi (full resolution), grey level (JPEG)
     – 120 or 100 dpi, grey level (JPEG)

**May impact throughput

Endorser

Rear ink-jet endorser
- Up to 600 dot per inch (dpi)
- Logo graphics
- 1 to 4 lines of endorsement
- True type fonts
- Selectable quality level (Economy, Standard, Premium)

Item Capacity

Input hopper up to 300 documents
Pockets: Up to 200 documents per pocket*

Operating Environment

Windows 7 (32 & 64 bit), Windows XP - SP3

Power Requirements

100-240 V 5A 50/60 Hz

Safety and Compliance

UL/TUV, CSA, CE, FCC-Class A, VCCI, CCC compliant with China RoHS

Software Interface

Common Application Programming Interface (CAPI)

Dimensions

QDS20012-SYS		QDS2008-SYS	
Length:	49.3 in. (125.2 cm)	Length:	39.7 in. (100.8 cm)
Depth:	13.5in. (34.3 c)	Depth:	13.5 in. (34.3 cm)
Height:	8.8in. (22.5 cm)	Height:	8.8 in. (22.5 cm)
Weight:	59.5 lbs (27 kg)	Weight:	46.3 lbs (21 kg)

*Depends on condition of documents

SmartTIP For more information use your smartphone and snap a photo.

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