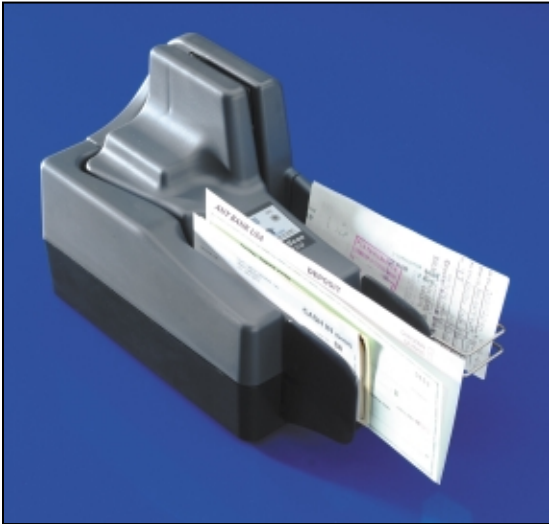




TELLERSCAN[®] 220

Unique Teller Window Scanner with Autofeeder

Two-sided Scanning with Feeder, Pocket and Upstream Endorsement



Features:

- **40 dpm Scan Speed with 25 Item Autofeeder**
- **Smallest Footprint to Fit Teller Window**
- **In-line *Best Read*[™] MICR for Maximum Accuracy**
- **Upstream Endorsement to Facilitate Early Truncation**
- **Highest Definition Images**
- **Easy to Integrate - Common API and Remote Support**
- **Reliable Single Pass Transport**

Two-sided batch scanning with autofeeder:

◆ DCC's TS 220 creates highest quality images of both sides of a check at up to 40 items per minute while simultaneously capturing the MICR information. Featuring a 25 item feeder and Digital Check's proven single pass transport with dual CIS image sensors, the TS-220 is ideal for scanning batches of items at the teller window. Scanning the checks at the point of deposit, can increase teller efficiency through CAR/LAR recognition and image capture.

Compact countertop design - 'Tellers can be Sellers':

◆ With just 5" x 8 1/2" of counter space the TS-220 is ideal for use by tellers and in low volume ARC or POP applications. A jam resistant drop-in feeder and double feed detection ensures no missed items, enabling tellers to reliably capture deposited checks *while* serving the customers.

◆ *Combination of capture speed and feeder minimizes customers' wait while their checks are captured.* In fact, tests show that tellers using the TS-220 can outperform tellers accepting deposits in their current fashion. The TS-220 is also ideal for small back office deposits such as remittances that can then be cleared through NACHA's ARC or POP direct debit.

In-line *Best Read*[™] MICR for maximum accuracy:

◆ A true magnetic MICR reader passes the magnetic codeline information with no delay to the controlling PC over a high speed USB2 link. For decoding this MICR information, DCC has developed a *Best Read*[™] MICR technology to maximize the MICR line accuracy with multiple verification. This can be supplemented with downloaded verification tables. This triple verification technique enables DCC's countertop check scanners to offer the highest MICR accuracy read rate.

Reliable single pass transport:

◆ A short U shaped transport path virtually eliminates jams with one pass by the separate front and rear scan heads. The TS-220 transport is designed to scan up to 10 million items. Diagnostic tools and an easy to service modular design ensure reliable, problem-free operation.

Programmable upstream endorsement to facilitate early truncation:

◆ The TS-220 features a new 3-position HP programmable inkjet endorser to print endorsements (such as dates, sequential numbers, logos, etc.) on the back of the checks before scanning. This pre-scan non-contact endorser uses commonly available high capacity HP ink cartridges and enables checks to be truncated at the earliest stage. The inkjet endorser creates a crisp image of the endorsement which is captured with the image of the check.

Highest definition images maximizes CAR/LAR recognition:

◆ DCC's new tricolor CIS module provides the highest image definition available with today's countertop check scanners. As each check is scanned, it is analyzed before adaptive thresholding into black and white with DCC's proprietary software technology to sharpen the edges of characters and provide a sharp, easy to read image and one that is 'recognition friendly'.

◆ Alternatively, 4 bit (16 shades) or 8 bit (256 shades) grayscale images may be captured. When combined with DCC's anti-skew transport, this makes for superior OCR/ICR recognition of machine print, courtesy amounts and legal amounts, signatures, and name/address information.

Easy to integrate - common API & remote support:

◆ All DCC TellerScan scanners are quick and easy to integrate. The state-of-the-art USB2 port (Universal Serial Bus) allows plug-and-play connection – no need to purchase separate interface boards or to even open the controlling PC. A common API allows all DCC TellerScan scanners to operate from the same code. This reduces your implementation time, allows you to easily mix and match the scanners within a bank, reducing software maintenance costs. Remote support tools log errors so that they can be interrogated remotely – and should a new version of firmware be released, each scanner can be updated remotely over the network.





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Specifications

Product Features

Unit Size: 5.1" x 8.6" (paper trays add 2-3 inches)

Paper Size: (Up to UNI A6)

Document Height: 2.12" - 4.17" (54-106mm)

Document Length: 3.19" - 8.97" (80-228mm)

Document Weight: 16-32 lb. (60-120 grams/sq.meters)

Motorized Autofeeder:

Capacity: Approximately 1-25 items
(depending on document thickness and condition).

Double Feed Detection:

Infra-red based transmissive device. Software adjustable programmable double feed delay performs skip-over function

Scanning Method: Concurrent two-sided Duplex

Image Creation: 2 x 850 cell, 108mm CIS

Light Source: Tricolor LED

Endorser: Programmable ink jet, prior to scan. 12 dots/ch height
Variable fonts, 3 manually selectable positions.

Estimated Yield: from 5-7M characters

Cartridge: Hewlett Packard 6602A

In-Line MICR Recognition: MICR recognition firmware for
E13B (U.S.A.), CMC7 (European), CMC0 standards

Magnetic MICR waveform passed to PC

MICR codeline data available as a separate file or in image header

Transport Speed: 19.7" (50 cm) per second

Performance: Up to 40 x 6" items per minute. Depends upon scanning mode selected, interface and power of host computer.

Standard Interface:

- Standard USB2 (USB1.1 compatible -- approx. 15 dpm)

- RS-232 for service and MICR reader emulation

Image Capture:

8-bit (256 levels) - grayscale

1-bit black and white or 4 bit grayscale, software selectable through API

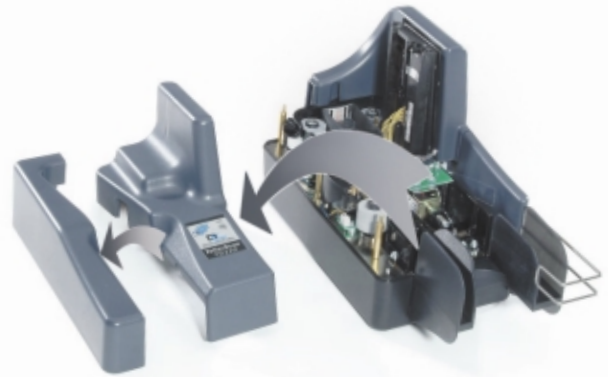
Image Resolution: 200 x 200 dpi

100 x 100 dpi, 200 x 100 dpi (V x H) software selectable through API

Image Formats & Compression:

TIFF Gp/4, JPEG or BMP via custom software running on workstation

Automatic image cropping



Diagnostic Features

Diagnostic Tools: Allows for full testing of scanner functionality

Serviceability: Flash EEPROM allows easy upgrade of functionality

Software Tools & Support Services

Software Tools: API Toolkit 32 bit

Required Operating System: Windows 2000, Windows XP

Environmental, Reliability & Electrical Features

Electrical: Power consumption: 50VA

Input voltage: 115 VAC (+/- 10%), 60hz - domestic

230 VAC (+/- 10%), 50hz - international

Separate standard power supply

Product Life & Duty Cycle:

Designed for useful life of 10,000,000 checks

Duty cycle: 2,000 - 3,000 items per day

Mean Time To Repair (MTTR): 15 minutes

Environmental:

Temperature (operating): 60° - 90° F (15° - 32° C)

Humidity (operating): 35-85% non-condensing

Unit Dimensions:

Height - 6.6" (17cm)

Depth - 5.1" (13cm)

Length - 8.6" (21.7cm) (11" - 27.9cm incl. I/O trays)

Weight - 4.4 lbs. (2kg)



*TellerScan is a registered trademark of
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*Windows is a registered trademark of
Microsoft Corporation.*



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contact your NCR Sales Representative or call: **1-800-Call NCR**

*Learn more about NCR's scalable family of transports on our website at
www.ncr.com/products/hardware/pay_platform.htm*