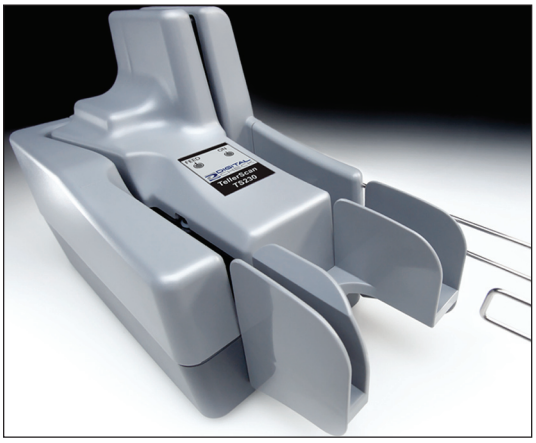
Digital Check's TellerScan® 230

Fast, Quiet, Reliable Countertop Check Scanner

For Branch, Remote and Distributed Capture Applications



Features:

- Three high-performance models with unique, continuous feeder and high-duty cycles
  TS230-35 up to 35 items/minute
  TS230-65 up to 65 items/minute
  TS230-100 up to 100 items/minute
- 50 item, jam-resistant feeder
- Ergonomic design
- Endorse before scanning for Check 21
- Industry leader in image quality for highest CAR, IQA, and ICR rates
- Improved Best Read™ MICR for maximum MICR accuracy
- Easy integration — common API and remote support

DIGITAL CHECK

High-speed scanning, reliability, and performance

The TellerScan 230 (TS230) embodies the most advanced design for distributed check capture on the market today.

The TS230 is now available in three models. Every model supports DCC's unique continuous feed feature, which allows checks to be added while scanning – for higher throughput and more volume than traditional scanners. The TS230-35, capable of scanning up to 35 items per minute. The TS230-65, scanning at up to 65 items per minute, is ideal for teller windows and corporate environments that need to process deposits throughout the day or in a narrow timeframe. The faster TS230-100, at 100 items per minute, is ideal for the commercial window of banks, the back counter of small branches, or for corporate capture.

Ergonomic design for branch or corporate environments

The TS230's quiet operation is ideal teller operation or treasury office activities. With just 5" x 8 1/2" of desktop or counter space, TS230 has the smallest footprint in the industry. The short U shaped transport path with separate front and rear scan heads provides smooth operation for optimal feeding and high reliability. Exit pocket tabs and sensor keep batches of checks in order, including personal and business checks.

A self-adjusting, jam resistant feeder combined with a double feed infrared sensor protects against piggybacked or missed items. The transport can even process thick checks such as 'rebate' check cards sent through the mail as postcards. A sophisticated double feed detection system analyzes suspect items in real time, avoiding false double feeds due to the 'thickness' of these card-style checks while insuring that only rare 'real' double feeds are caught.

When quality is paramount

Digital Check's reputation for providing the best image quality is a key factor in TellerScan's leadership in both branch automation and remote deposit installations. Digital Check's scanners are used by major US banks and Treasury Management corporate customers to scan millions of items per month.

The TS230's unique Best Read™ Image thresholding, analyzes each item individually to maximize image quality and minimize user intervention resulting from poor image quality. This provides sharp, easy to read images that support Check 21 Image Quality and Usability (IQA & U) standards. Dual tricolor CIS imaging modules provide the highest image definition available in today's countertop check scanners. As each check is scanned, it is analyzed before adaptive thresholding into black and white using proprietary software technology to sharpen the edges of characters. This, combined with an anti-skew transport, gives superior CAR/LAR, OCR/ICR recognition of machine print, signatures, and name or address information. Some challenging items with complex colored backgrounds or faint colored inks may be optionally captured and stored locally on the PC in grayscale or color for research.

Enhanced Best Read™ MICR

The TS230 advances Digital Check's unique, high-quality Best Read MICR technology with new, improved algorithms. The integrated magnetic MICR reader captures and passes the codeline information to the controlling PC with high-speed USB2 interface where the MICR characters are decoded to ensure maximum accuracy through proprietary multiple verification techniques. Then the Best Read OCR MICR verification performs additional verification of MICR data based upon confidence levels, to deliver the highest MICR accuracy read rate for countertop scanners in the industry today.

Easy to integrate - common API

Digital Check's scanners are designed to be quick and easy to integrate with USB2 plug-and-play connection. A common API allows all TellerScan scanners to operate from the same code reducing your implementation time and software maintenance costs. Adding a scanner to the installation or updating to new hardware within the organization becomes a snap. The new API is capable of providing remote support tools that can log errors regardless of the scanner so that they can be interrogated remotely – and should an enhanced version of firmware be released, each scanner can be updated remotely over the network.

Check 21 friendly

The programmable inkjet endorser prints downloaded endorsements (dates, sequential numbers, logos, etc.) on the back of the checks before scanning. This pre-scan non-contact endorser uses commonly available high capacity Hewlett Packard ink cartridges enabling checks to be image truncated at the earliest stage. The endorser's crisp legible endorsement, captured with the image of the check, is ideal for Check 21 image exchange.

TellerScan 230 Specifications

Speed: TS230-35: Up to 65 items per minute
TS230-65: Up to 65 items per minute
TS230-100: Up to 100 items per minute

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: 1-50 item feed (up to 50 items, depending on document thickness and condition) using Digital Check's Infinity™ feed continuous feed check feeder

Double Feed Detection: Infrared based transmissive device, software adjustable. Programmable delay performs skip-over function. Non-stop process with adaptive auto-detection built into the interface logic

Scanning Method: Concurrent two-sided duplex
Image Creation: 2 x 850 cell, 108mm CIS
Light Source: Tricolor LED

Endorser: Programmable inkjet, prior to scan, 12 dots/ch height. Variable fonts; supports graphical BMP printing
Estimated Yield: 5-7M characters
Cartridge: Hewlett Packard 6602A

In-Line MICR Recognition: MICR recognition firmware for E13B (USA & UK), CMC7 (European), CMC0 standards Magnetic MICR waveform passed to PC. MICR codeline data available as a separate file or in image header. MICR optical verification built into the interface.

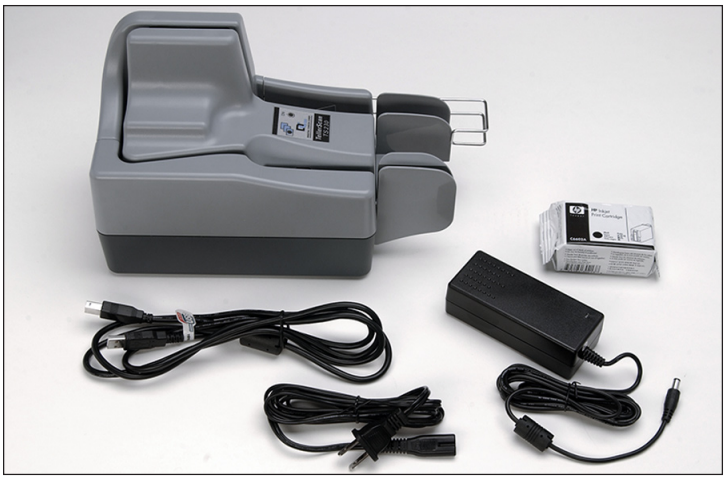
Transport Speed: 19.7" (50 cm) per second

Scanning Performance:
Model 35 – scans up to 35 six inch items per minute (15cm)
Model 65 – scans up to 65 six inch items per minute (15cm)
Model 100 – scans up to 100 six inch items per minute (15cm)
Scanning throughput depends upon scanning mode selected, interface, power of host computer (memory, processor, and disk drive write speed), use of simple or complex endorsements, and additional processing such as CAR or IQA

Full grayscale, using adaptive thresholding runs close to maximum rated speed

Standard Interface: Standard USB2.0 (recommended). Compatible with USB1.1 with performance limitations

Image Capture:
24-bit (16M shades) - color
8-bit (256 levels) - grayscale



1-bit black and white or 4-bit grayscale, software selectable through API
Image Resolution: 200 x 200 dpi (508 x 508 dots/cm), 100 x 100 dpi (254 x 254 dots/cm), 200 x 100 dpi (508 x 254 dots/cm) (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: Firmware can be updated across the network to allow easy upgrade of functionality

Firmware

TS230 firmware.bin with API 8.5x or later
(Firmware file resides on the local PC for easy remote update capability)

Software Tools & Support Services

Software Tools: API Toolkit 32 bit
Required Operating System: Windows 2000, XP, Vista (32 bit)
Recommended PC Configuration: 2 GHz, 512 MB RAM
Required DLL: DLLs included with API v8.5x or later

Environmental, Reliability, & Electrical Features

Electrical: Power consumption: 65 Watts
Input Voltage: 100 to 240 VAC (+/- 10%), 50/60hz
Separate Standard Power Supply: Auto sensing for voltage

Product Life & Duty Cycle:
Product Life: Designed for a useful life of over 5,000,000 items
Duty Cycle TS230-35 2,000 – 4,000 items per day
Duty Cycle TS230-65: 4,000 – 6,000 items per day
Duty Cycle TS230-100: 6,000 – 8,000 items per day
Mean Time To Repair (MTTR): 15 minutes

Environmental:
Temp. (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)

Certifications: UL, CE, FCC

DIGITAL CHECK

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