NCR

Low-to Mid-Volume Item Processing Transports

iTRAN

180e & 300e

Introducing

the iTRAN 180e and 300e from NCR

Setting the Standard

NCR has a strong reputation for combining unmatched industry experience with a dedication to cutting-edge technology. NCR products routinely define new performance standards while offering effective solutions for a variety of customer needs. When only the best will do, an NCR item processing transport is the obvious choice—and now the best is available to a whole new category of customers.

Introducing the NCR iTRAN 180e and 300e, the newest members of the NCR family of transports.

Entry-Level Excellence

The iTRAN 180e and 300e are multipurpose transports that can be configured for a wide variety of item-processing applications. The iTRAN 180e can process up to 180 documents per minute (dpm), while the more powerful iTRAN 300e is rated at 300 dpm. Each model offers maximum flexibility, efficiency, and reliability designed for the full range of low-to mid-volume processing situations. Both transports combine inspired innovation with technology perfected through decades of development—including the industry-leading NCR 7780 and iTRAN 8000. Whether the iTRAN 180e or 300e is your first transport, a powerful addition to your current equipment, or a complete solution that will grow with your business, you'll be making the perfect choice.

Applications for Many Environments

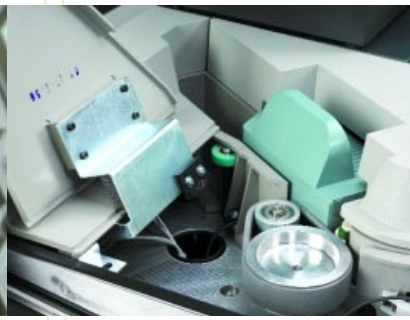
The iTRAN 180e and 300e are ideal for financial institutions, data centers, utilities, and other companies with low-to mid-volume daily check/remittance processing needs.

Supported applications include:

- low-speed reading/sorting
- image capture and proof—central, regional or distributed, including branch
- remittance processing—power encoding, read and key, and from-the-envelope
- reject repair, ATM balancing, and return item processing
- microfilm replacement
- image archive and statements
- document sorting with magnetic ink/optical character recognition (MICR/OCR)
- check power encoding/endorsing
- image-based repass capture

The iTRAN 180e and 300e from NCR—
the tradition of innovation continues.





Superior Design for Peak Performance

Outstanding Reliability and Efficiency

From start to finish, the iTRAN 180e and 300e are built for efficiency and high-throughput performance. Unique ergonomic features include a low-fatigue hand-drop; adjustable flat, touch-screen monitor; and easy access to the entire track length, making it simple to perform maintenance, replace media, and clear jams. The open-track design allows operators to handle routine repair and service tasks, and the document hopper can be refilled while the transport is running. All of these features mean your transport can keep working at maximum capacity with a minimum of downtime, day in and day out.

Simply put, the iTRAN 180e and 300e offer the best performance-to-price ratio available, providing high-end power on an entry-level budget.

Flexible Today, Scalable Tomorrow

Business requirements are rarely static, so we designed the iTRAN 180e and 300e with a full complement of accessories and modular construction, allowing one machine to perform countless custom functions: image/conventional processing, magnetic/optical reading, low-/high-speed endorsing, downstream/upstream image capture, and more. Open architecture gives you unparalleled flexibility to combine software applications from NCR and its Solution Partners. Optional equipment can be added to increase functionality or upgrade to a higher processing speed—all on-site and with minimal disruption to your productivity. Whether your needs change over the course of decades or seemingly overnight, the iTRAN 180e or 300e will meet your demands.

Investing in Success with Affordable Innovation

In today's increasingly competitive environment, customers expect innovative products, superior service, and business partners who can adapt to their evolving needs. At the same time, companies face growing pressure to reduce costs, increase productivity, and streamline operations. Technology can be the key to meeting all of these critical requirements, and the iTRAN 180e and 300e include cutting-edge components to provide outstanding performance today and effective growth far into the future—all without straining your budget.

The iTRAN 180e and 300e enable you to provide customers with a full range of image-based services, from the latest industry offerings to unique custom solutions.

Both models are affordable for entry-level environments, yet they offer the flexibility to handle a wide variety of applications and the scalability to expand capacity and functionality at any time. With the iTRAN 180e and 300e, you don't have to worry about falling behind the pace of technology or having capital tied up in outdated equipment. Your initial configuration is simply a solid foundation on which to build for years or even decades, making the iTRAN 180e and 300e an excellent investment in your lasting success.

iTRAN 180e and 300e

Feature-Rich Transport Technology

The iTRAN 180e and 300e are easy to install, configure, and operate, but abundant features provide superior processing power and incredible flexibility.

Greater accessibility, faster recoveries, lower costs, and improved performance are only the beginning.

Workstation and Operator Interface

Efficient design not only ensures optimal performance by mechanical components, but it also allows operators greater productivity with less effort. Controls and access points are arranged for easy use, and ergonomic features include a padded armrest for the hand-drop, 17-inch swiveling flat-screen monitor, mobile transport controller keyboard, and an optional touch-screen monitor and item processing (IP) keyboard. An optional Journal Printer creates real-time audit reports, while the Transport Controller PC is Windows-based for simple integration with other business systems, and the user-friendly NCR WiseIP (Windows Integrated Services Environment for Item Processing) middleware.

Document Feeding

The main Automatic Document Feeder holds up to 1200 documents, detects misfeeds and double feeds, and can be refilled during operation. The operator can add individual items and rescued misfeeds or rejects with the hand-drop, and the 150-document merge hopper allows the transport to insert batch separators, headers, trailers, cutslips, or other control documents. The iTRAN 180e and 300e are designed for continuous operation, with an open track for instant jam clearing, quick-release access to each module for document removal, and simplified replacement of key parts and media without a service call.

Reading

The iTRAN 180e and 300e support MICR, dual MICR, OCR, and MICR/OCR combinations. A standard single-line, dual-font (E13B or CMC7) MICR reader can be configured for best-read character recognition based on customer applications, and an optional dual-line MICR reader enables automatic reject repair and verification. An OCR reader can be added with software ensuring optimal accuracy through full gray-scale scanning of images with up to three lines of characters in 10 different fonts.

Enhanced Codeline Recognition (ECR)

Optional ECR software uses advanced algorithms to compare MICR and OCR codelines and reduce reject and misread rates. ECR greatly enhances codeline readability and reduces the need for data completion.

Note: Ratings are based on processing 6" documents.

performance

Note: Depending on the configuration ordered, the unit may not appear exactly as shown.

Imaging

The latest optics and electronics allow the iTRAN 180e and 300e to reduce operator intervention, expedite processing, and create useful archives of image items. A single camera captures images in one pass, using black-and-white (CCITT, 200 dpi) and grayscale (JPEG, 100 or 200 dpi) compression formats at full track speed. Image quality in both formats is superb, and resolution and file size can be optimized for each application. The Image Lift module is available with front-only or front-and-rear imaging, OCR software, and a red filter to block signatures and backgrounds. The LED illumination lamp reduces heat and noise and never needs to be replaced.

Image capture can occur upstream during reading, downstream after encoding and endorsing, or at both points. Upstream capture enables real-time recognition processing (CAR/OCR), while fully processed items can be archived via downstream capture.

Encoding

The iTRAN 180e and 300e can be equipped with a Low-Speed Encoder, which encodes 100 documents per minute, printing up to 45 characters per document. This lower-cost, low-noise option is perfect for applications that depend on operator oversight or areas where excess noise can be problematic.

A High-Speed Encoder, available with the iTRAN 300e only, can handle especially heavy workloads, imprinting up to 300 documents per minute with built-in sensors to detect jams and damaged documents. For non-encoding applications such as reader/sorter processing, you can order a stager instead of the encoder.

Endorsing

Customers can choose a Low-or High-Speed Endorser, each featuring standard rear printing. The Low-Speed module processes up to 230 dpm with two dot-matrix endorsement lines; the quieter High-Speed Endorser (iTRAN 300e only) can handle 300 dpm with four lines of endorsement by ink jet and includes the option for front endorsing. Logo and bank stamp endorsing are also available, either via rotary stamp or software-configured printing. A Downstream Roll-on Endorser can be added to the iTRAN 300e for further one-or two-sided imprinting.

MICR Verifying

Included with the downstream imaging module, the MICR reader reads the MICR line of encoded items and enables the application to verify encoder print quality and check the MICR data for mismatched characters and rejects.

Sorting

Every iTRAN 180e or 300e requires at least one Pocket Module with 4 pockets. A single transport can accommodate up to 10 modules for a total of 40 pockets. Sensors automatically detect pocketing errors and indicate when pockets are completely full or empty, and each pocket includes a one-touch application restart function. The iTRAN 300e can also read and sort 500 dpm.

Software

NCR's WiseIP (Windows Integrated Services Environment for Item Processing) comes standard with the iTRAN 180e and 300e, providing a common toolset and transport interface for simplified application development. Operators will enjoy an intuitive interface in the Windows 2000 or XP environment. Numerous applications are available from NCR and its many Solutions Partners, including image POD, reject repair, remittance processing, and more. Please contact your NCR representative or an authorized NCR partner for details.

On-Site Upgrades

The iTRAN 180e can be upgraded to 300 dpm, and both transports can be enhanced on-site to process 500 dpm. This allows customers to start with a low-cost option and upgrade as processing volumes increase or business requirements change.

iTRAN 180e and 300e Specifications

Features	iTRAN 180e	iTRAN 300e
Performance Track Speed:	180 "burst" documents per minute	300 "burst" documents per minute
Flat-Screen Monitor:	• 17 inch flat-screen LCD color monitor on swivel stand • Optional touch-screen version	
Journal Printer: (Optional)	• High-resolution printing with 203 dpi and 50 lines per second • "Paper low" and "paper out" sensors	
Document Feeder:	• Standard Auto Feed Hopper—Holds approximately 1,200 documents of varying heights, lengths, and widths. A hand-drop allows individual documents to be manually inserted into the document stream, and double-feed and misfeed detection are standard. • Optional Merge Hopper—Holds approximately 150 documents and automatically feeds control documents to merge with Auto Feed Hopper documents.	
Reader:	• Dual-font reader • MICR: E13B and CMC7 • OCR: OCR A/B numeric and alphanumeric, up to 10 fonts available (3 user-defined zones)	
ECR–Enhanced Codeline Recognition:	• Optional software that combines E13B codeline data from MICR and OCR to provide a "best read" result • Runs at full track speed	
Imaging Module:	**Choose From:** • Upstream and/or downstream image camera placement • Front and rear image capture • Black-and-white CCITT image compression at 200 dpi • Grayscale JPEG image compression at 100 or 200 dpi • Up to 2 image formats per camera	
Encoder:	**Low-Speed** • 100 dpm (single path) • MICR: E13B, CMC7, OCR A/B • Up to 45 characters in 16 positions	**Choose from two options:** **1) Low-Speed** • 100 dpm (single path) • MICR: E13B, CMC7, OCR A/B • Up to 45 characters in 16 positions **2) High-Speed** • 300 dpm (single path) • MICR: E13B or CMC7 • Up to 45 characters in 16 positions
Endorser:	**Low-Speed** • 180 dpm software-programmable dot matrix endorser • Rear dual-line • Up to 160 characters per document • 1 to 2 lines of compressed print • 1 line of standard print • 1 line of expanded print • Rear roll-on bank stamp	**Choose from two options:** **1) Low-Speed** • 230 dpm software-programmable dot matrix endorser • Rear dual-line • Up to 160 characters per document • 1 to 2 lines of compressed print • 1 line of expanded print • 1 line of standard size • Rear roll-on bank stamp **2) High-Speed** • 300 dpm programmable ink-jet endorser • Rear, or optional front-and-rear configurations • 1 to 4 lines of standard print (up to 180 characters per document) • 1 to 2 lines of expanded print (up to 45 characters per document) Rear roll-on bank stamp (optional)
MICR Verifying: (optional)	• Downstream MICR reader, E13B or CMC7 (after the encoder) • Can be combined with the downstream image lift module	
Pockets:	• 4 pockets per module • Add up to 10 modules for a total of 40 pockets • Single pocket capacity: 300 documents • Pocket-empty and -full detection sensors • Application restart button	

Note: Ratings are based on processing 6" documents.

Physical Characteristics

Module	Height		Depth		Length		Max Weight	
	in.	mm	in.	mm	in.	mm	lb	kg
Base module: • Upstream Image Lift/Reader • Encoder • Endorser • Monitor • Pocket Module End Cap	55	1397	32.5	825	74	1880	610	277
Downstream Roll-on Endorser:	34	860	28	708	14	355	128	58
Downstream Image Lift/MICR Verifier:	39	980	28	708	14	355	101	46
Pocket Module:	34	860	28	708	17.4	443	98	45

Document Dimensions

The transports are capable of handling documents that meet the following criteria:

	Minimum		Maximum*	
	in.	mm	in.	mm
Length:	4.75	121	9.0	228
Height:	2.5	65	4.8	123
Length to Height Ratio:	3:2		3:1	
Thickness:	0.003	0.075	0.0075	0.190
Weight:	75 g/m² (20 lb.)		105 g/m² (28 lb.)	

*Preferred document specifications are available in the NCR iTRAN 180e/300e Product Information Publication

PC Controller (minimum)

- Pentium 4, 2.8 GHz processor
- 512 MB RAM
- 40 GB Hard Drive
- CD-ROM or DVD Drive
- Flex Drive
- 5 Universal Serial Bus (USB) ports
- Keyboard and mouse

Each iTRAN 180e or 300e requires a dedicated PC controller.

NCR certified PCs are recommended.

Communications

- Ethernet LAN for external interface
- RIAB Board (included with imaging)

Required Software

- WiseIP API

Software Environment

Depending on the application, the transport controller software, WiseIP can support one of the following operating systems:

- Windows 2000/XP
- UNIX

Power Requirements

The transport requires a dedicated single-phase power source.

- Voltage Range: 100-240 volts
- Frequency Range: 50Hz to 60Hz

The iTRAN 180e and 300e for Your Business

Whatever your item processing requirements, the iTRAN 180e and 300e are a perfect solution provided by a proven business partner. From standard functions to custom applications, the iTRAN 180e and 300e have the flexibility to perform exceptionally in a wide range of configurations. With an outstanding capacity, affordable price, and efficient design, the iTRAN 180e and 300e enable users to maximize productivity while minimizing expense and downtime.

When you need an effective solution today and expanded functionality tomorrow…
When you need immediate performance and long-term reliability…
When you need to stay under budget but only the best will do…

…you need the iTRAN 180e and 300e by NCR.

www.ncr.com/products/hardware/pay_platform.htm

Transforming Transactions into Relationships

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