

LS SERIES SCANNERS



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The CTS Advantage

1980-2010

30
YEARS

CTS is a leading manufacturer of cash and check solutions for tellers, back offices, self-service systems and retail point-of-sale counters with three decades of growth, experience, and innovation. Under the leadership of its founders and owners, the company has grown to over \$100m in annual revenue and 240 employees since 1980. CTS' main strength is the fast-cycle design of innovative products, with more than 100 engineers dedicated to research and development of solutions for the financial services industry. Today, CTS has more than 1 million banking peripherals installed including over 300,000 scanners at end user locations across five continents.

LS Series Overview

The following features are common to all products within the LS Series:

- CTS Common API
- USB2 interface
- MICR CMC7/E13B Read Head
- Easy to operate and maintain
- Robust design for a specific applications
- Interfaces for Windows, Linux, TWAIN, and Silver Bullet Ranger
- Compatible with LS*connect* for add-on Network connectivity
- Software Libraries Include:
 - OCR & Barcode Data Recognition
 - Image Compression (bi-tonal and gray scale)
 - Image Quality Assurance (IQA)
 - Electronic endorsement
- Ergonomic design
- Minimal operator maintenance
- Standard HP® ink cartridges

CTS is a technology group of privately held companies with ISO9000 certified locations in Ivrea (Turin) and Borlengo, Italy. CTS Group includes two privately held companies with two wholly owned subsidiaries:

- **CTS Electronics s.r.l**
- **CTS CashPro s.r.l**
- **CTS North America**
- **CTS CashPro UK**

CTS was established and has been in continuous operation since 1980, owned and managed by the founding families, including the second generation. CTS Group re-invests more than 15% of revenue into Research & Development for new technologies and products.

CTS' primary focus is on banking automation including check scanners, self-service modules, card printers, cash and coin solutions serving financial institutions, solution providers, corporate customers, self-service integrators and OEM customers. With more than 210,000 sq. feet of manufacturing, warehousing, R&D and logistics space, and more than 240 employees, 100 focused on engineering, CTS is poised to meet the growing needs of its customers.

Get to know CTS and you will find we have the best products in the market, the best company to work with, and the best people to meet your needs. The CTS Advantage is clear:

- 30 years of experience in banking automation equipment
- Proven track record in teller capture and remote banking
- Leader in corporate client image scanning hardware solutions
- Superior advanced document handling, designed to improve productivity



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LS Series Comparison Guide



	LS40	LS100	LS150	LS515-SE	LS800
Features	<i>Fast & Efficient Vertical Feed</i>	<i>Compact and User Friendly</i>	<i>Quiet, Fast & Scalable</i>	<i>Robust and Efficient</i>	<i>Configurable, High Performer</i>
Application	Remote Deposit	Remote Deposit Teller	Teller Back Counter	Back Counter Remittance/Lockbox	Regional Center Remittance/Lockbox
Throughput DPM	500 mm/sec.	52	75 or 150	120	200
Feeder Capacity	1	1 or 20	100	80	500
Single-handed Drop	✓	✓	100-item optional	✓	
Number of Pockets	1	1	1	2	Up to 22
Pocket Capacity	1	20	100	50 each	250 each
Front/Rear Image DPI	100, 120, 200, 240, 300	100, 120, 200, 240	100, 120, 200, 240, 300	100, 120, 200, 240, 300	100, 200
JPEG, BMP, TIFF, TIFF G4	✓	✓	✓	✓	✓
Color Image			Optional	✓	✓
Interface Standard Interface Optional	USB 2.0 USB Hub	USB 2.0	USB 2.0 USB Hub	USB 2.0 USB Hub	USB 2.0
1 Line Rear Ink Jet	✓	✓	✓	✓	✓
Max. Line Positions	1	2	2	1	1
Front Stamp Option	✓		✓		
ID Card Scan	Optional		✓		
Magnetic Stripe Reader	Optional	Optional	Optional	Optional	
Software Interfaces	Windows 2000, XP, Vista/Windows 7 (32/64 bit), Linux, TWAIN				Windows, Linux
LScnect	✓	✓	✓	✓	
Ranger		✓	✓	✓	



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T H R E E D E C A D E S O F
Growth, Experience and Innovation



LS 40

Single-Pass Vertical Scanner

Compact and cost effective, the LS40 is specifically designed for remote deposit capture. Ideal for small spaces, this single pass scanner features dual cameras and intuitive vertical document insertion.

- Easy vertical document insertion — intuitive, no need to right-align items
- Compact design — narrow footprint saves space
- Auto sensing input feeder — start item flow when documents are added
- Single pass front/rear image — less than 1 second per item
- Dual camera design — eliminates document or camera rotation
- Flexible processing modes — intelligent franking and endorsement
- Magnetic MICR — accurate code line recognition
- Magnetic stripe reader option — for ID cards and credit/debit card processing
- Supported OS and drivers — Windows, Linux, and TWAIN



LS 100

Compact and Economical Multi-Feed Scanner

The LS100 series offers the most cost-effective auto-feed teller and remote deposit capture. The LS100's compact design makes it ideal for teller and remote deposit capture — fitting any space from a bank teller station to a small business environment.

- Fast front and rear check imaging — in one pass
- Vertical single feed — easy and reliable document insertion
- Auto sensing input feeder — start item flow when documents are added
- Output pocket for up to 20 items — increases throughput
- Auto feed option at 52 documents per minute — efficient processing
- Magnetic MICR reading — accurate code line recognition
- Rear ink-jet endorsement — programmable text
- Magnetic stripe reading — for IDs and card payments
- Supported OS and Drivers — Windows, Linux and TWAIN



LS 150

Highest Performance Teller Scanner

The LS150 has the smallest footprint / throughput ratio on the market today. Its fast and quiet performance, coupled with its sleek design and unique features make it the superior choice for teller, branch, and high volume remote deposit capture applications.

- Smallest footprint on the market — compact space-saver
- 75 or 150 dpm (upgradeable) — highest throughput to size ratio
- Fastest merchant teller scanner at 150 dpm — fewer deferred deposits
- Auto sensing input feeder — start item flow when documents are added
- Auto open feeder — single handed insertion of up to 100 item batches
- Noise-reduction design — quiet performance
- 50 or 100 item feeder, 120 item pocket — with convenient bin full sensor
- Bypass feeder — for image-only documents and IDs
- Magnetic Flip Open Doors — easy cleaning and maintenance
- No operator replaceable parts or cleaning cards needed — lower TCO
- Supported OS and Drivers — Windows, Linux and TWAIN



LS 515-SE

High-Speed Bulk Processing Scanner

Proven reliability, intelligent sorting, and a high throughput with real life documents make the LS515-SE the right choice for your mission-critical operations.

- High-quality front and rear check imaging up to 300 dpi — bi-tonal, grayscale and color images included
- 80 documents input feeder — adjusts to document thickness; low jam rates
- Up to 120 documents per minute throughput — designed for high volume applications
- Two output pockets for up to 50 items each — improves workflow
- Magnetic MICR reading — accurate code line recognition
- Intelligent code line-based sorting — for lockbox and back-counter capture applications
- Durable design — higher productivity with minimal maintenance
- Modern color — matches office décor trends, easy to maintain
- Easy Upgrade — no changes required in existing LS515 applications using at least CTS API DLL 1.0.6 or greater
- External Auto-switching Power Supply — 110-230 VAC - reduces maintenance and shipping costs
- Supported OS and Interfaces — Windows 32 and 64 bit, Linux, USB, L*Sc*onnect, TWAIN, Ranger





Add On Network Connectivity

LSconnect enables a smooth and cost effective migration to LAN and thin client environments where an Ethernet TCP/IP connection is required. LSconnect allows users to share any CTS LS-Series scanner with a web-based application, without a dedicated PC and USB port.

- Compact — small, external add-on device
- Web ready — IP Ethernet connectivity for thin client and web-based applications
- Compatible — shares common API with LS scanner series
- Intelligent — software tools allow full IP configuration, diagnostics and management
- Fast — capable of running network speeds 10Mbps-100Mbps and 1Gbs
- Configurable — runs under DHCP platform and Citrix
- Secure — supports SSL to encrypt data securing the image and code-line transfer
- Manageable — by branch server or single operator
- Powerful — on-board image processing with TIFF and JPEG compression
- Shareability — device can be shared among multiple, different users in the network
- Smart — in-depth diagnostics capabilities



Powerful Reader/Sorter

The LS800 is a modular, high performance, bulk checking scanner/sorter used for efficiently streamlining back-office check processing procedures in the branch. Known for its quick, on the fly ability to read, scan and sort checks for efficient processing, the LS800 features:

- 500 document feeder — high capacity that is consistent and reliable
- Modular 3 pocket sorter — extendable to 22 to meet your sorting needs
- Intelligent code line based sorting — meets your application requirements
- In-line recognition of OCR and barcode — for remittance and lockbox
- Productivity up to 200 dpm / 12,000 items per day — speeds throughput
- Fast front and rear check imaging — in one pass
- Supported OS and Drivers — Windows and Linux

