



WE ARE PIONEERING!



PRECISION ENGINEERING PROVIDES
SECURITY AND EFFECTIVENESS

DOCUMENT SCANNERS BY INOTEC

Being a German scanner manufacturer, our precision engineered reliable document scanners provide you with machines of unprecedented reliability, for use at one of the most crucial interface points in your business processes.

Competent staff, having highly qualified education and training coupled with ongoing focused professional development, ensure delivery of exciting product and service solutions that cement and optimise the effectiveness of your national and international business processes.



Longterm business relationships with partners and customers, in conjunction with the transparent cost effectiveness of InoTec products, facilitate the realisation of your goals.

InoTec's SCAMAX® 4x2 opens new dimensions for document capture. The use of innovative technologies ensures reliable, high performance scanning even with very difficult documents.



**PRECISION ENGINEERING
PROVIDES SECURITY**

PRECISION ENGINEERING PROVIDES EFFECTIVENESS



UNIQUE

- Gigabit ethernet
Interface with a future.
Fast, safe and uncomplicated.
- TSCP
TouchScreen Communication Panel
Simplifies operation of advanced functions.
- PFC PaperFlowControl
Controls paper flow from the feeder to the output hopper and detects feeding errors.
- Document indexing
Generates user-defined index data during the scanning process and passes the data on to post processing.
- Intelligent endorser
Prints freely definable information pre- and/or post scan.
- Bates stamping
Stamps images electronically.

SIMPLE

- Ergonomic
Minimises operator fatigue because controls are easily reached.
- High contrast touchscreen display ensures excellent screen readability.
- Document sequence is always maintained to eliminate post scan sorting.
- Quiet operation
Ultra quiet and compact design easily fits into any office environment.
- Ease of use
Intuitive design ensures ease of operation, even after an upgrade.

NO LIMITS

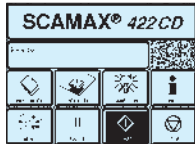
- Advanced engineering ensures no volume limits
Continuous scanning – 24 hours a day, 7 days a week, 52 weeks a year.
- No service area limits
True worldwide service by InoTec technicians or authorised, factory trained service partners.

SECURE

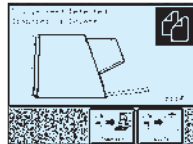
- Contact feeder
Automatic, safe, reliable and controlled.
- Paper transport
Glassless.
Gentle on papers.
Simple and easy access everywhere.
- Reliable processing, even with widely varying documents in the same batch.

ECONOMICAL

- Low operating costs
Few wearing parts.
- Energy saving
Utilises an energy saving LED illumination system.
No warm-up time for the lamps, instantly useable upon power on.
- ENERGY STAR
Exceeds Energy Star requirements for energy consumption.
- Maintenance worldwide
Onsite maintenance is provided by authorized service partners.
- Compact design
Small footprint design saves valuable office space.



Button assignment freely definable.



Full text messages and onscreen graphics (pictograms) provide instant reference.



Input via touchscreen keypad provides indexing and process control.

SELECTABLE

- Scan speed*
90, 120, 150 ppm
180, 240, 300 ipm
- Resolution
150, 200, 300, 400 and 600 dpi
- Image quality
Dynamic binarisation,
selectable gamma correction.
- Document feed
Auto-feed (batch)
Hand-feed with or without paper
separation.
- User formats
Document width: min. 28 mm
max. 317.5 mm
Document length: min. 60 mm
max. 2075 mm
- Paper thickness
Onion skin (flimsies) to Manila folder
file covers.
- Image output*
Bitonal, grey, color – compressed or
uncompressed.
Multi resolution from the same image.
- Double feed control
Three ultrasound sensors, individually
controlled across entire document length
and across individual document areas.
- Scalable processor performance
Demand orientated image processing.

STRUCTURED

- Indexing

Event controlled indexing replaces costly
software and reduces throughput times.

Utilises established filing structures,
structure can be fully user-defined based
on established organisation methods.

Index trigger – index triggers are activated
by patchcode and manual input.

User definable counters, fixed texts and
flags.

Export capability index values can be
easily imported into document manage-
ment systems.

COMMUNICATIVE

- Operator/machine interface
Utilises easy to use
TouchScreen Communication Panel
- Language
Instructions and error messages are
simple to understand and multilingual.
- Full text
All error messages and screen
references are in full text. No coded
messages or instructions.
- Pictograms
Ensures fast orientation – clear, under-
standable, intuitive.

OPTIMISED

- Image enhancement

Cropping/deskew
Black border removal,
bicubic deskew,
content based rotation.

colerage™ *
Digital mixed color filter.

coladapt™
Dynamic binarisation.

Scan background
Selectable black or white.*
- Optical resolution
400 dpi
- Multistream, triplestream and dual-
stream capabilities
- Scan speed at 300 dpi
300 dpi scan speed is just as high
as 200 dpi scan speed.
- Automatic color detection
With configurable settings.
- CCP Color Calibration Program*
Software to calibrate colors using
IT8 targets.

* depends on options/model

PRECISION ENGINEERING PROVIDES ADDED VALUE



EFFICIENT GIGABIT ETHERNET INTERFACE

Future proof, robust and industry standard with all PC's.



BELT PAPER TRANSPORT SYSTEM

Unique belt transport system that does NOT require cleaning, maintenance or replacement.



RELIABLE PAPER OUTPUT

via paper pre-former, adjustable side guides and extendable document stop.

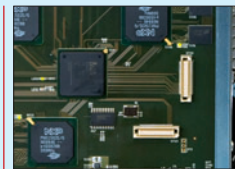
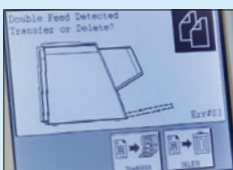


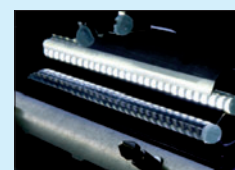
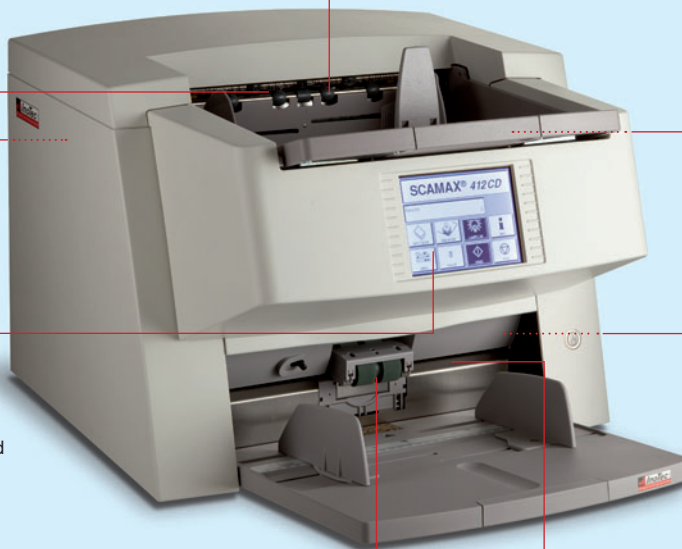
IMAGE ENHANCEMENT ON BOARD

Complete image processing in the scanner, e.g. gamma correction, digital color filtering, bicubic deskew, cropping, dynamic binarisation for perfect black & white image as well as multi-streaming (simultaneous output of color, greyscale and bitonal images).



TouchScreenCommunicationPanel (TSCP)

Intuitive, simple operation by displaying easily comprehensible pictograms coupled with full text messages.



FOCUSING LED ILLUMINATION UNIT

- Extremely low energy consumption with maximum light intensity.
- Life expectancy is equal to the scanners life expectancy.
- No warm-up time and only minimal heat generation.



CONTACT FEEDER

Efficient and reliable document feed – even with very intermixed document batches. Minimal wear and tear, easily replaceable by the user.



GLASSLESS PAPER GUIDE

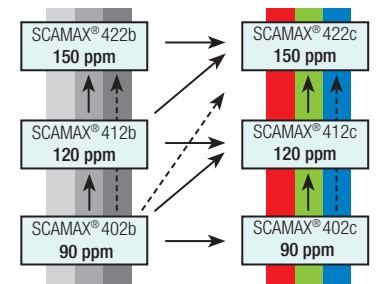
The unique construction of the scan area in SCAMAX document scanners does not need any glass paper guides. Even staples inadvertently left on documents cannot damage the scanner.

SCAMAX® 402/412/422 SCAN SPEEDS

Performance grades	SCAMAX® 402 bitonal / color	SCAMAX® 412 bitonal / color	SCAMAX® 422 bitonal / color
Scan speed at 200/300 dpi			
Simplex A4 landscape	90 ppm	120 ppm	150 ppm
Duplex A4 landscape	180 ipm	240 ipm	300 ipm

The scanning speed is determined by several factors. Among other things factors like the paper size and surface, but also the used PC and the scan application, are influencing the scanning speed.

UPGRADE PATH



SCANNER-SPECIFICATIONS

Optics / onboard image enhancement

Scan process	CCD linescan camera
Optical resolution	400 dpi
Output resolution	150, 200, 300, 400 and 600 dpi Dual or multi resolution possible
Lighting system	Focusing LED illumination unit
Binarisation	coladapt™ – dynamic with preview facility and pixel filter
Greyscale image	8 bit, 256 grey levels
Color image	24 bit, 16,8 million colors (true color)
Deskew	Bicubic deskew, black border removal, content based rotation
Gamma correction	10 bit after 8 bit, 3-level correction (color, black, white)
Color filter standard	RGB color filter (eliminates red, green or blue)
Color filter option	colerace™ – digital mixed color filter with profiles
Indexing	Scan counter and 4 freely defineable, event controlled counters for document indexing and endorsement; integrated patchcode decoder with 15 defineable recognition tracks, image marker (flag)

Document processing

Document input	Auto feed from stack or single sheet feed (hand feed), adjustable paper guides can be set asymmetrically if desired, integrated support for A3 size documents (input hopper plate extension)
Max. stack height	50 mm (approx. 500 sheets with 80 gsm paper)
Document width	28 mm to 317.5 mm
Document length	60 mm to 2075 mm ^① , for longer documents scan mode "long document" can be selected
Standard formats	ISO sizes: A3, A4, A5, A6, A7, B4, B5, B6, B7, US sizes: Ledger, Legal, Letter, Executive, Invoice
Max. throughput thickness	1,2 mm ^②
Document weight	30 gsm to 280 gsm ^②
Feed process control	Mechanical sheet separation and double feed control via three ultrasound sensor (can be independently programmed)
Document process control	PaperFlowControl (PFC), electronic length check can be activated

Scan area	Glassless with black scan background
Document output	Adjustable paper guides, can be set asymmetrical if desired, document stop can be tilted for long documents (>A4), paper removal tool
Endorser	Two integrated inkjet endorsers, programmable to print pre-scan on document front and/or post-scan on document back.
Bates stamping	Electronic image stamp
Daily duty cycle	unlimited
Interfaces	
Operation	via graphic TouchScreenCommunicationPanel (TSCP)
Driver	ISIS™, TWAIN
Supported operation systems	Windows 2000, Windows XP, Windows Vista, Windows 7
PC connection	RJ45 gigabit ethernet 10/100/1000 Mbit/s
Service connection	Sub-D connector 9-pin (V24) for service cable or foot switch

Technical data

Power consumption	Operating 130 W, sleep mode 3.5 W
Input voltage	100-240 volt – 50/60 Hz – 2 amp (at 115 volt)
Environment	Temperature: 10 - 35°C, relative humidity: 30-80%
Dimensions	width: 510 mm / height: 365 mm / depth: 650 mm
Weight	38 kg
Noise emission	operating: < 65 dB (A), standby: < 44 dB (A))

Miscellaneous

Approval certificates	
Options	Digital mixed color filter incl. filter generation tool ColErase™, Color Calibration Program (CCP), additional image processor modules, white scan background (e.g. for transparencies)
Accessories	Ergonomic work table, foot switch, white calibration paper, cleaning kit, consumables kit, special vacuum cleaner, IT8 reference target, input roller assembly for very thin paper

^① Restrictions in relation to image processing settings and resolution are possible.

^② Maximum paper weight or thickness can vary and ultimately depend on surface condition and the flexibility of the material!



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