InoTec GmbH

Organisationssysteme

W E   A R E   P I O N E E R I N G !

PRECISION ENGINEERING PROVIDES
SECURITY AND EFFECTIVENESS

DOCUMENT SCANNERS BY INOTEC

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

Our fully-qualified, educated and competent staff is trained to ensure delivery of exciting product and services solutions that will cement and optimize the effectiveness of your national and international business processes.

Long-term business relationships with partners and customers, in conjunction with the transparent cost effectiveness of InoTec products, facilitate the realization of your goals.

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

PRECISION ENGINEERING PROVIDES SECURITY

PRECISION ENGINEERING
PROVIDES EFFECTIVENESS

UNIQUE

- **Gigabit ethernet**
  Interface with a future.
  Fast, safe and uncomplicated.

- **TSCP**
  Touch**S**creen **C**ommunication **P**anel
  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**
  Minimizes 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 authorized, factory-trained
  service partners.

SECURE

- **Contact feeder**
  Automatic, safe, reliable and controlled.

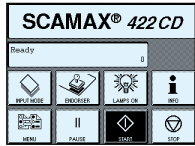- **Paper transport**
  Glassless.

  Gentle on papers.

  Simple and easy access everywhere.

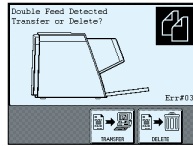 Reliable processing, even with widely
  varying documents in the same batch.

ECONOMICAL

- **Low operating costs**
  Few wearing parts.

- **Energy saving**
  Utilizes an energy-saving LED illumination
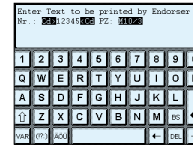 system.

  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 green 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 binarization;
  selectable gamma correction.

■ **Document feed**
  Auto-feed (batch)
  Hand-feed with or without paper
  separation.

■ **User formats**
  Document width: min. 1.1 inches
                    max. 12.5 inches
  Document length: min. 2.4 inches
                    max. 81.7 inches

■ **Paper thickness**
  Onion skin (flimsies) to manila folder
  file covers.

■ **Image output***
  Bitonal, gray, color – compressed or
  uncompressed.
  Multi-resolution from the same image.

■ **Double feed control**
  Three ceramic 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.

  Utilizes established filing structures;
  structure can be fully user-defined based
  on established organization 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**
  Utilizes easy to use
  Touch**S**creen **C**ommunication **P**anel

■ **Language**
  Instructions and error messages are
  simple to understand and multi-lingual.

■ **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.

OPTIMIZED

■ **Image enhancement**

  Cropping/deskew
  Black border removal;
  bi-cubic deskew;
  content-based rotation.

  colerase™ *
  Digital mixed color filter.

  coladapt™
  Dynamic binarization.

  Scan background
  Selectable black or white.*

■ **Optical resolution**
  400 dpi

■ **Multi-stream, triple-stream 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 C**olor **C**alibration **P**rogram*
  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.
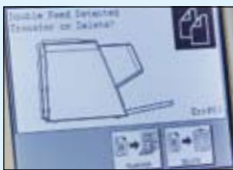
RELIABLE PAPER OUTPUT
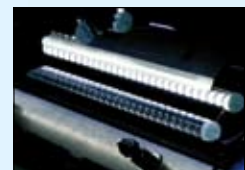via paper pre-former, adjustable side guides and extendable document stop.

IMAGE ENHANCEMENT ON BOARD
Complete image processing in the scanner, e.g. gamma correction, digital color filtering, bi-cubic deskew, cropping, dynamic binarization for perfect black and white image as well as multi-streaming (simultaneous output of color, grayscale 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 scanner´s 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.
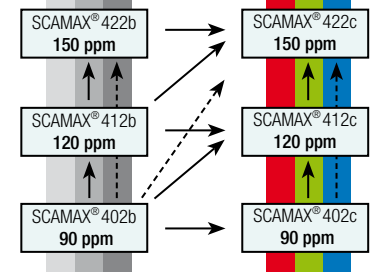
GLASSLESS PAPER GUIDE
The unique construction of the scan area in SCAMAX document scanners does not need any glass paper guides. Even staples inadvertently left on documents cannot damage the scanner.

SCAMAX® 402/412/422 SCAN SPEEDS

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

UPGRADE PATH

The scanning speed is determined by several factors including the paper size and surface, PC used and the scan application.

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
Binarization	coladapt™ – dynamic with preview facility and pixel filter
Grayscale image	8 bit; 256 gray levels
Color image	24 bit; 16.8 million colors (true color)
Deskew	Bi-cubic 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	colerase™ – digital mixed color filter with profiles
Indexing	Scan counter and four freely definable, event-controlled counters for document indexing and endorsement; integrated patchcode decoder with 15 definable 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	2 inches (approx. 500 sheets with 20 lb. bond paper)
Document width	1.1 inches to 12.5 inches
Document length	2.4 inches to 81.7 inches[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	0.05 inch [2]
Document weight	7 to 110 lb bond[2]
Feed process control	Mechanical sheet separation and double-feed control via three ultrasound sensors (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 watt, sleep mode 3.5 watt
Input voltage	100-240 volt – 50/60 Hz – 2 amp (at 115 volt)
Environment	Temperature: 50 - 95°F Relative humidity: 30-80%
Dimensions	Width: 20.1 in. / height: 14.4 in. / depth: 25.6 in.
Weight	83.6 lbs.
Noise emission	Operating: < 65 dB (A), standby: < 44 dB (A))

Miscellaneous

Approval certificates	
Options	Digital-mixed color filter incl. filter generation tool ColErase™; **C**olor **C**alibration **P**rogram (**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 depends on surface condition and the flexibility of the material.

InoTec GmbH Organisationssysteme

Biedrichstraße 11

61200 Wölfersheim

Germany

Phone: +49 (0) 60 36 97 08-0

Fax: +49 (0) 60 36 97 08-15

Internet: http://www.inotec.eu

e-mail: info@inotec.eu

InoTec Organisationssysteme Pty Ltd

2/334 Wagga Road

Lavington NSW 2641

Australia

Phone: +61 260 409 325

Fax: +61 260 257 715

e-mail: inotecsea@inotec.eu

Your North American Distributor:

The Crowley Company

5111 Pegasus Court

Suite M

Frederick, MD USA

Phone: (240) 215-0224

Fax: (240) 215-0234

E-mail: info@thecrowleycompany.com

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