

# SCANROBOT® 2.0 MDS

## MASS DIGITIZATION SYSTEM

- **Automatic scanning**  
fast and gentle up to 2,500 pages / hour
- **Semi-automatic scanning**  
for most gentle scanning of fragile books
- **Manual scanning**  
covers, spine, fold outs,...



UNIQUE PATENTED PRISM TECHNOLOGY

TREVENTUS

# ADVANTAGES

## of the book scanner ScanRobot® 2.0 MDS

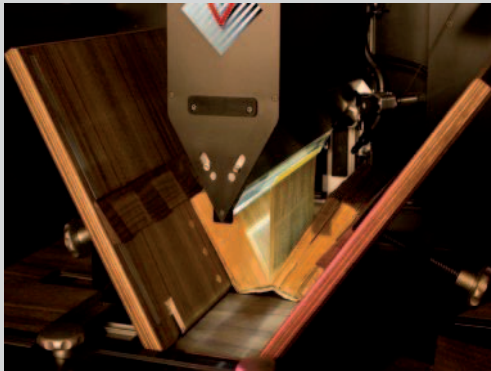
### Scanning speed & economy

- automatic (up to 2500 pph)
- semi-automatic (up to 1000 pph)
- single scan (manual mode up to 350 pph)
- fast image treatment software
- low maintenance (suitable for 24h shift operation)



### Patented capturing technology

- distortion free up to the book fold
- 60 degree opening angle
- no glass plates and
- no clamps or fingers needed to flatten the pages
- optical 300/400 dpi
- equal and maximum resolution at all formats

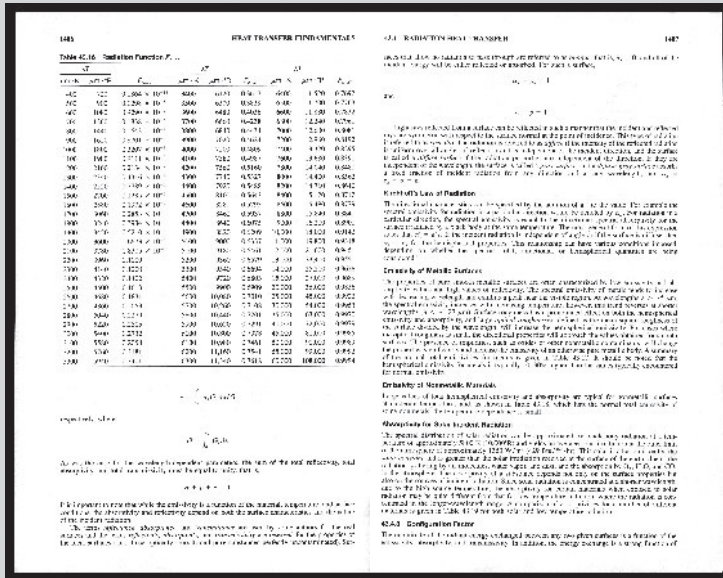


The ScanRobot® can scan every page with the exact, equal and maximum resolution independent of the book size, thickness and the paper quality. The scans are absolutely distortion-free up to the book fold without using any dangerous glass plates, clamps, fingers or similar items to flatten the pages for an optimal scanning result.

# IMAGE QUALITY

## of the book scanner ScanRobot® 2.0 MDS

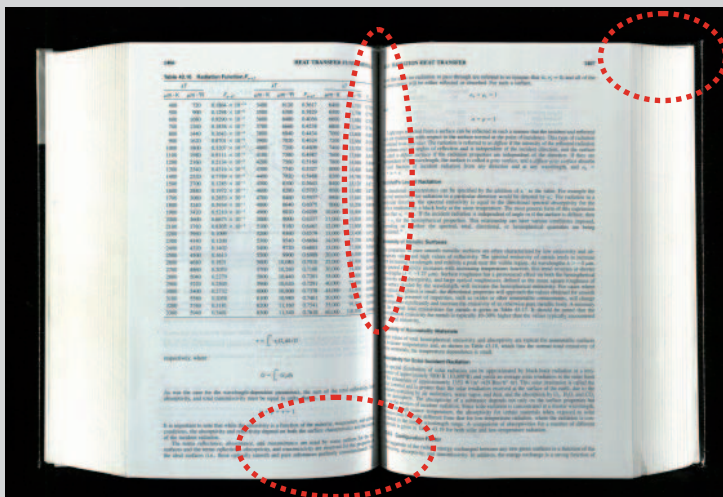
### ScanRobot® - scan result



### Image description

- no distortions
- no curves
- no waves
- exact page margin scan
- perfect illumination

### Other devices - scan result



### Image description

- distortions
- curves
- no exact page margin
- inhomogeneous illumination

### Upcoming challenges

- page cropping
- changing page sizes
- more post processing
- uncertain OCR results

# UNIVERSAL, GENTLE & ROBUST

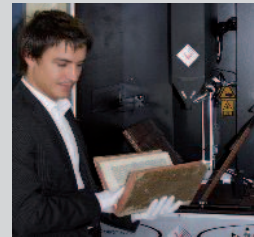
## ScanRobot® 2.0 MDS

### Universal - suitable for any bound material



### Gentle - suitable for books from the 14th century till now

- opening angle 60° - no overstretching
- pressure free and
- touch free page turning by air flow
- LED lightning without any radiation of heat, infrared or UV



### Robust - low maintenance

- suitable for 24h-shift operation
- only one moving part
- high quality industrial components
- customer proven



capturing, image treatment & job management software

## Advantages

- easy and intuitive
- fast quality control functions
- high speed image treatment
- efficient and simple job administration
- integrated ICC colour management
- applicable for different scanners



Please find more information about ScanGate™ in the separate product folder.

## INTEGRATED WORKFLOW MODULE\*

\*fully compatible to the ScanFlow™ Professional workflow software environment

## Advantages

- creating of an individual workflow for fast post processing
- automatic background processing like image treatment functions
- included pre-defined „customer proved workflows“
- automated import of external images
- automated interaction with the OCR-engine
- increasing the throughput



Please find more information about ScanFlow™ LOCAL in the separate product folder.

# SPECIFICATIONS & SCOPE OF DELIVERY

## of the book scanner ScanRobot® 2.0 MDS

### Specifications

- **Speed** up to 2,500 pages/hour\* (automatic mode)  
up to 1,000 pages/hour\* (semi-automatic mode)
- **Page turning** automatic with process monitoring (incl. double sheet control) or semi-automatic and manual
- **Aperture angle** 60 degrees (steplessly adjustable between 60 and 100 degrees)
- **Lightning** user- and book-friendly LED lightning  
(without any exposure to heat, IR or UV)
- **Resolution** constant and independent of the page format  
optical 300 dpi (included)  
optical 400 dpi (optional)
- **Colour depth** 30-bit
- **Image types** colour, greyscale, b&w
- **Page format** (scanning area) minimum (2 times): 5 x 5 cm (1.97 x 1.97 in)  
maximum (2 times): 32 x 32 cm (12.6 x 12.6 in)
- **Book size** (maximum) 35.5 x 35.5 cm (13.98 x 13.98 in)
- **Book thickness** up to 15 cm (5.91 in)
- **Paper thickness** no restrictions  
(recommended spectrum: 40 g/m<sup>2</sup> to 260 g/m<sup>2</sup>)
- **Paper quality** all pages, also acid damaged and wavy pages
- **Covers** all covers (soft and rigid)
- **Book age** 14th century up to now
- **Storage formats** jpg, jpg2000, tiff, tiff G4, png, gif, bmp, pdf (incl. OCR layer), XML, DjVu
- **Dimensions** l/w/h (without monitor): 0,78 x 0,78 x 1,90 m (30.7 x 30.7 x 74.8 in)
- **Weight** 260 kg (573 lbs)

\* The page speed can vary depending on paper quality, book size and the book condition in general.

### Scope of delivery

- 1 pc Automatic book scanner ScanRobot® 2.0 (300 dpi standard, 400dpi optional)
- 1 pc Single-scan book scanner (flatbed A3)
- 1 pc Control Computer System (high-end PC-workstation)
- 1 pc EIZO 22" widescreen monitor (colour calibrated)
- 1 pc Integrated holder for monitor, keyboard and mouse
- 1 pc ScanGate™ - capturing, processing & management software (in many languages)  
incl. integrated workflow module

**OPTIONAL:** various OCR and WORKFLOW software packages



# SCANROBOT® 2.0 MDS

## MASS DIGITIZATION SYSTEM

### Customer feedback

*“The ScanRobot® can scan almost any types of book, binding or paper (e.g. Leather-covered wooden bindings, flexible parchment bindings, cardboard bindings, thick, thin or rigid paper).”*

**The Bavarian State Library**

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*“Treventus Mechatronics GmbH submitted a tender that offers some very clear advantages. [...] The evaluation group’s assessment is that no other supplier can match the tender from Treventus Mechatronics GmbH.”*

**Swedish tender evaluation committee (8 specialists)**

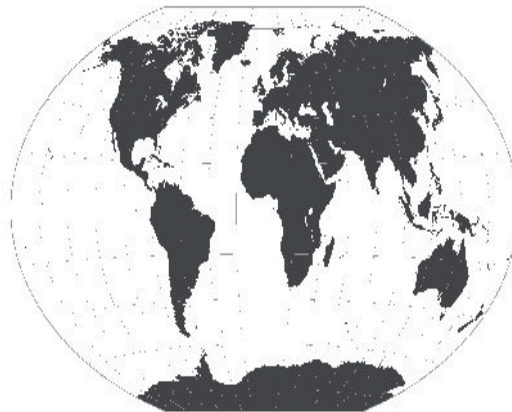
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*“The unique image-taking and page-turning technique of the ScanRobot® shows its benefits in particular with thick books. [...] the pages can be scanned [...] absolutely distortion-free and without any shadows [...] up to just a few mm into the fold.”*

**Digitization Center Regensburg**

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**WORLDWIDE ESTABLISHED  
IN OVER 30 COUNTRIES**




# PRODUCT FAMILY

**SCANROBOT® 2.0 MDS**  
MASS DIGITIZATION SYSTEM

Automatic scanning  
fast and gentle up to 2.500 pages / hour

Semi-automatic scanning  
for most gentle scanning of fragile books

Manual scanning  
covers, spine, fold outs,...



UNIQUE PATENTED PRISM TECHNOLOGY

TREVENTUS

**SCANGATE™**  
Capturing, Processing & Management Software

**Advantages**

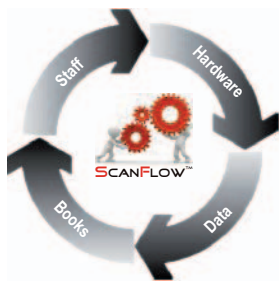
- Easy and intuitive
- Meta data interface
- Applicable for different scanner hardware
- Real-time preview for fast quality control
- Comprehensive processing functions



... with integrated workflow module

TREVENTUS

**SCANFLOW™**  
Professional  
Workflow & Management Software



**Advantages**

- Increasing the throughput & output quality
- Efficient organization of staff, scanning hardware, data and books
- Minimization of human interaction and errors
- Fast quality control functions

... let the software work


TREVENTUS

**NAINUWA™**  
*open your Mind*

**Dynamic Digital Collection Viewer**

**Advantages**

- innovative image displaying
- intuitive search and sort functions
- fast and efficient image loading
- stepless zooming
- enjoyable view feeling
- browser based application



WWW.NAINUWA.COM  
please contact us for a Test Login  
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TREVENTUS



## Awards

Winner of the European ICT Grand Prize  
Innovation prize of the Theodor Keyer foundation  
1<sup>st</sup> place in Genius Innovation Award

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