SCANROBOT® turn the Page



AUTOMATIC BOOK SCANNER
TO SPEED UP YOUR PRODUCTIVITY



SYSTEM OVERVIEW

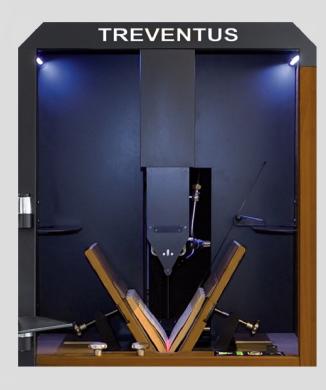
ScanRobot® 2.0 MDS

High quality - Automatic Book Scanner

- Fast Up to 2,500 pages per hour
- Distortion free & Gentle scanning (prism technology)
- Unique 60° V-shape book cradle
- Single scan technology (for covers, folded maps, loose pages, ...)
- Self standing unit on wheels for easy relocating
- Highly ergonomic design



Unique hardware features



Patented capturing technology

- * Unique 60° prism
- * One central capturing unit
- * Equal and constant focus
- * No mechanical shutter

Only one mechanical moving part

- * Robust and simple design
- * Built for 24h shift operation
- * Low maintenace
- * Very long life cycle

Wooden 60° V-shape book cradle

- * Self centering
- * Adjustable between 60° and 100°
- * Minimum load/unload time
- * Suitable for hard and soft covers



ADVANTAGES

ScanRobot® 2.0 MDS

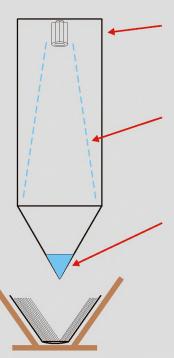


Page turning technology



- Most gentle & touch free page turning by air flow
- Automatic (up to 2,500 pph)
 with process monitoring & double sheet control
- Semi-automatic / weightless mode
- No clamps
- No fingers
- No glass plates

Patented capturing system



Closed capturing unit (optical 300/400 dpi)

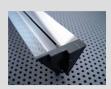
- * Indepenent from ambient light
- * Minimum calibration (static white balance)
- * Constant distance between object and focal plane

Inside LED illumination

- * Perfect homogenous page illumination
- * High color reproduction index value (CRI)
- * No radiation of heat, infrared or UV light
- * Long life cycle LED technology

High quality 60° prism technology

- * Distortion free scanning
- * Smallest book opening angle unique 60° V-shape



The ScanRobot® can scan every page with the exact, equal and maximum resolution independent of the book size, thickness and the paper quality.









OCR50LUTION5™

NAINUWA"

UNIVERSAL, GENTLE & ROBUST

ScanRobot® 2.0 MDS

Universal - suitable for any bound material



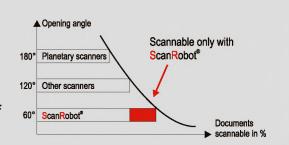






Gentle - suitable for books up from the 14th century

- Book opening angle 60°
- No overstretching of the book binding
- Pressure free scanning
- Touch free page turning by air flow
- LED illumination without any radiation of heat, infrared or UV



Robust - low maintenance

- Designed for 24h-shift operation
- Only one active moving part
- High quality industrial components
- Very long system life cycle
- Worldwide customer proven

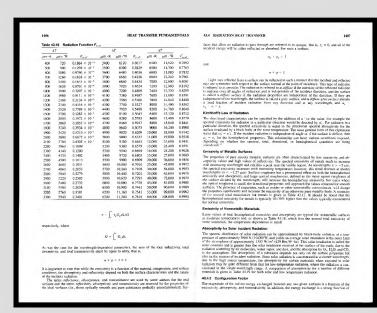




IMAGE QUALITY - 1/3

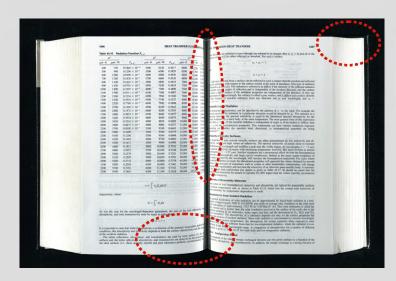
ScanRobot® 2.0 MDS

ScanRobot®



- No distortions
- No curvature
- No waves
- Exact page margin scan
- Perfect illumination

Planetary scanner



- Distortions
- Curves
- No exact page margin
- Inhomogeneous illumination

Upcoming challenges

- Page cropping
- Changing page sizes
- More post processing
- Uncertain OCR results









OCRSOLUTIONS™

NAINUWA"

IMAGE QUALITY - 2/3

ScanRobot® 2.0 MDS

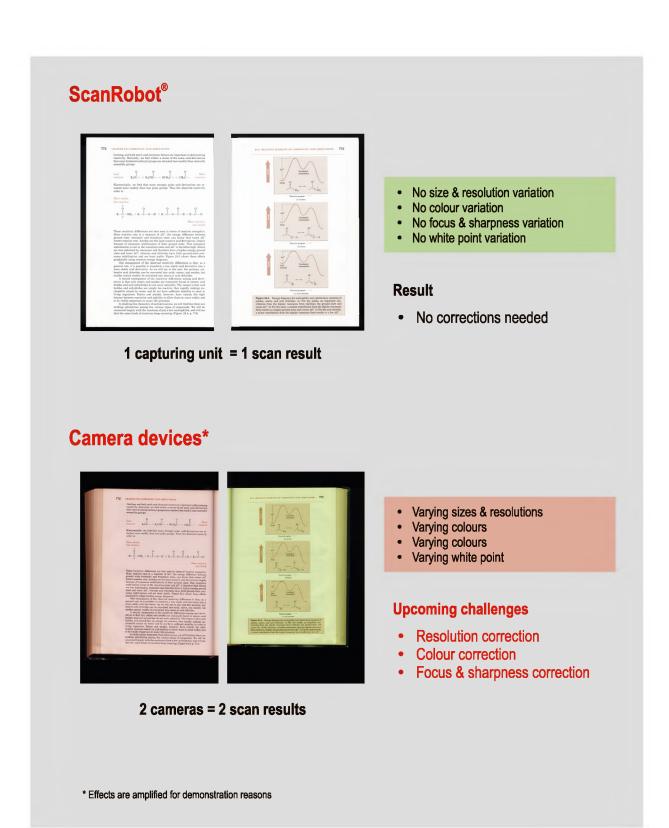
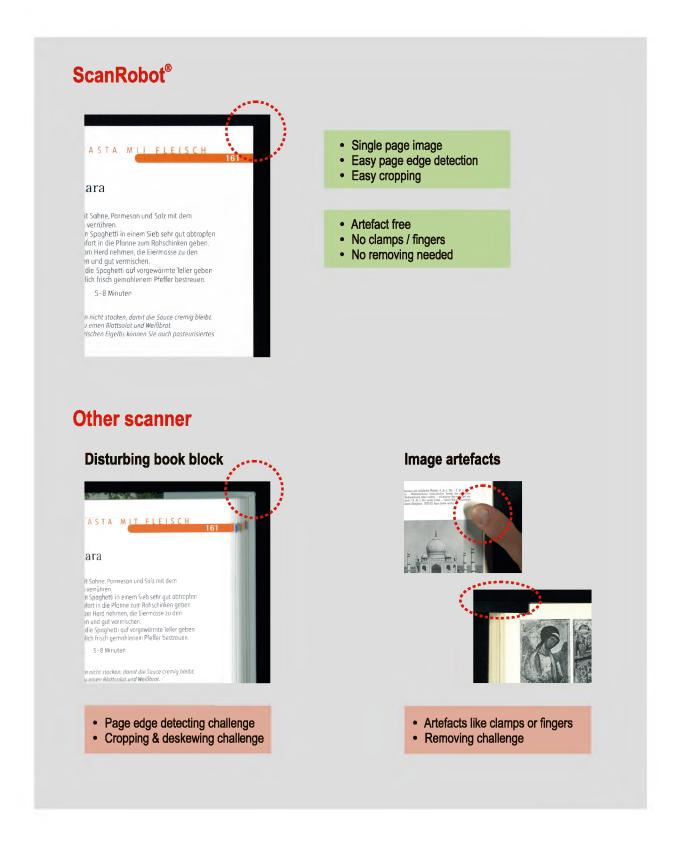




IMAGE QUALITY - 3/3

ScanRobot® 2.0 MDS







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

"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)

"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

WORLDWIDE ESTABLISHED IN OVER 60 COUNTRIES





CAPTURING SOFTWARE OPTIONS

for ScanRobot® 2.0 MDS

SCANGATE[™] RT (Real-Time processing edition)

Included with ScanRobot® 2.0 MDS as a stand-alone software package.



- Capturing & treatment in one automated step
- Live view of scanned & treated images
- Ready to use output (= time saving & intuitive)
- Parameter profiles administration (storage of parameters for fastest book changeovers)
- Additional flatbed scanner interface (to scan loose pages, folded maps, covers, etc.)
- Multi language user interface

Please find more information about ScanGate™ RT in the separate ScanRobot® solution comparison chart.

SCANGATE[™] **SF** (ScanFlow[™] edition)

Only available for ScanRobot® 2.0 MDS with a ScanFlow™ workflow solution package.



- Includes all functionalities of ScanGate[™] RT
- Fully integrated within ScanFlow[™]
- Separates the scanning from image treatment
- Enables the highest scanning productivity
- Offers multiple quality check options



Please find more information about ScanGate™ SF in the separate ScanRobot® solution comparison chart.





SCANLIGHT"

SCANFLOW*

OCRSOLUTIONS"

NAINUWA"

SPECIFICATIONS & SCOPE OF DELIVERY

ScanRobot® 2.0 MDS

Specifications

• **Speed** up to 2,500 pages/hour* (automatic mode)

 Page turning automatic with process monitoring (incl. double sheet control), semi-automatic / weightless mode and single scan technology

• Aperture angle 60 degrees (steplessly adjustable between 60 and 100 degrees)

• Illumination user- and book-friendly LED illumination (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 36-bit

Image types colour, greyscale, b&w

• Page format (scanning area) minimum (2 times - automatic mode): 5 x 5 cm (1.97 x 1.97 in)

maximum (2 times - automatic mode): 32 x 32 cm (12.6 x 12.6 in)

single scan area: 30 x 43.2 cm (11.8 x 17 in)

• Book size (maximum) 35.5 x 34.0 cm (13.98 x 13.39 in)

Book thickness up to 15 cm (5.91 in)
 Paper thickness no restrictions

(recommended spectrum: 40 g/m² to 260 g/m²) all pages, also acid damaged and wavy pages

Paper quality
 Covers
 Book age
 all pages, also acid damage
 all covers (soft and rigid)
 14th century up to now

• Storage formats jpg, jpg2000, tiff, tiff G4, png, gif, bmp, pdf

• **Dimensions** I/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)

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 23" widescreen monitor (colour calibrated)
- 1 pc Integrated holder for monitor, keyboard and mouse
- 1 pc Capturing software with real-time processing ScanGate[™] RT (available in many languages)

OPTIONAL: various IPP (image post processing), WORKFLOW and OCR solutions



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



World Wide References



National University, AUSTRALIA University of Queensland, AUSTRALIA Federal Office of Metrology and Surveying, AUSTRIA National Library, AUSTRIA University of Graz Library, AUSTRIA University Library of Liege, BELGIUM Brazilian Institute of Agronomic Research, BRAZIL University of Prince Edward Island, CANADA National Archive, COLOMBIA Academy of Science, CZECH REPUBLIC National Library, CZECH REPUBLIC University of Jyväskylä, FINLAND Bavarian State Library, GERMANY State Library of Berlin, GERMANY University Library Regensburg, GERMANY NUEPA National University, INDIA Trinity College Library, IRELAND Meteo Operation Center, JAPAN Nazarbaev University, KAZAKHSTAN Ministry of Awqaf and Islamic Affairs, KUWAIT National Library, KUWAIT National Library, LATVIA University, LUXEMBOURG Universidad Autonoma Metropilitana, MEXICO National Library, MONGOLIA

GMS Service Provider, NETHERLANDS National Library, NORWAY Academy of Science Library, POLAND National Library, POLAND Siberian Federal University, RUSSIA Moscow State University, RUSSIA National Library, RUSSIA King Fahd Private Library, SAUDIA ARABIA Pavol Jozef Šafárik University, SLOVAKIA National Library, SLOVAKIA University Library of Bratislava, SLOVAKIA Universidad Complutense de Madrid, SPAIN National Library, SWEDEN Stockholm University Library, SWEDEN Umeå University Library, SWEDEN ETH Library of Zürich, SWITZERLAND Zentralbibliothek Zürich, SWITZERLAND Ankara Social University, TURKEY National Library, TURKEY Ukrainian Institute of Industrial Property, UKRAINE The Getty Research Institute, UNITED STATES Scanarkist Service Provider, UNITED STATES Utah State University, UNITED STATES Vietnam Institute of Social Sciences Information, VIETNAM Vietnam National University, VIETNAM

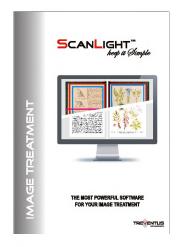
... and many more ...

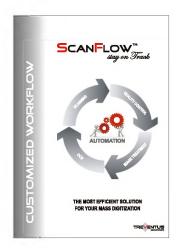
Alphabetical order by countries.

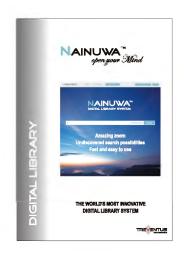


PRODUCT FAMILY















Awards

Winner of the European ICT Grand Prize Innovation prize of the Theodor Kery foundation 1st place in Genius Innovation Award

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