



AUTOMATIC BOOK SCANNER FOR MAXIMUM PRODUCTIVITY



SCANROBOT[®]

SCANFLOW®

OCRSOLUTIONS[™]

NAINUWA®

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
- Ergonomic design
- ISO compliant image quality (optionally available)



Unique hardware features



Wooden 60° V-shape book cradle

- * Adjustable between 60° and 100°
- * Minimum load/unload time
- * Suitable for valuable old & new books
- * Applicable for hard & soft covers

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



SCANFLOW[®]

OCRSOLUTIONS[™]

NAINUWA®

ADVANTAGES

ScanRobot[®] 2.0 MDS



Page turning technology



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

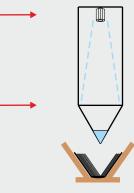
Patented capturing system

Closed capturing unit (optical 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

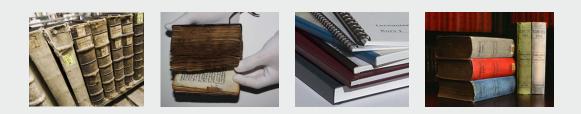
The ScanRobot[®] can scan every page with the exact, constant and maximum resolution independent of the book size, thickness and the paper quality.



UNIVERSAL, GENTLE & ROBUST

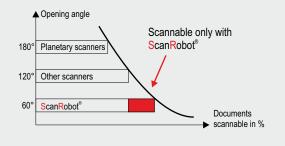
ScanRobot[®] 2.0 MDS

Universal - suitable for any bound material



Gentle - suitable for historic books (from the 14th century on)

- 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



Developed for Mass-Digitization

- Robust Designed for 24/7 shift operation
- Reliable Only one active moving part
- High quality industrial components (low downtime)
- Very long system life cycle
- Worldwide customer proven





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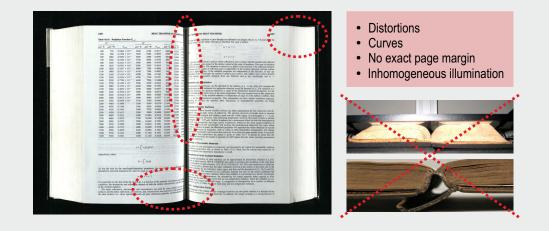
SCAN QUALITY - 1/3

ScanRobot[®] 2.0 MDS

ScanRobot[®] - unique 60° scanning

1496 HEAT TRANSFER FUNDAMENTALS		ENTALS	43.4 RADIATION HEAT TRANSFER 1407	 No distortions 						
	3.16 Radiation Function F _{east}					faces that allow no radiation to pass through are referred to as opeque, that is, $\tau_{\lambda} = 0$, and all of the incident energy will be either reflected or absorbed. For such a surface,	No curvature			
	σ			AT			π			
μm·K		F4-11	µm · K		Farat		µm∙"R		$\alpha_i + \rho_i = 1$	- Manuarian
400	720	0.1864×10^{-11}	3400	6120	0.3617	6400	11,520	0.7692	and	No waves
500	900 1080	0.1298×10^{-8} 0.9290×10^{-7}	3500 3600	6300 6480	0.3829 0.4036	6500 6600	11,700	0.7763 0.7832	a + c = 1	
600 700	1260	0.1838 × 10 ⁻⁵	3700	6650	0.4238	6800	12,240	0.7852	a + p = 1	 Event negative margin or
800	1440	0.1643×10^{-4}	3800	6840	0.4434	7000	12,600	0.8081	Light mys reflected from a surface can be reflected in such a manner that the incident and reflected	 Exact page margin so
900	1620	0.8701 × 10 ⁻⁺	3900	7020	0.4624	7200	12,960	0.8192	rays are symmetric with respect to the surface normal at the point of incidence. This type of radiation is referred to as specular. The radiation is referred to as diffuse if the intensity of the reflected radiation	
1000	1800	0.3207×10^{-3}	4000	7200	0.4809	7400	13,320	0.8295	is uniform over all angles of reflection and is independent of the incident direction, and the surface	Perfect illumination
1100	1980	0.9111×10^{-3}	4100	7380	0.4987	7600	13,680	0.8391	is called a <i>diffuse surface</i> if the radiation properties are independent of the direction. If they are independent of the wavelength, the surface is called a <i>gray surface</i> , and a <i>diffuse gray surface</i> absorbs	
1200	2160	0.2134×10^{-2}	4200	7560	0.5160	7800	14,040	0.8480	independent of the wavelength, the surface is called a groy surface, and a diffuse-groy surface absorbs a fixed fraction of incident radiation from any direction and at any wavelength, and α_{-}	
1300	2340 2520	0.4316×10^{-2} 0.7789×10^{-2}	4300	7740 7920	0.5327	8000 8200	14,400	0.8562	$\varepsilon_{\lambda} = \alpha = z$.	
1400	2520	0.7789 × 10 ⁻¹ 0.1285 × 10 ⁻¹	4400	7920	0.5488	8200 8400	14,760	0.8640	Kirchhoff's Law of Badiation	
1600	2880	0.1972 × 10 ⁻¹	4600	8280	0.5793	8600	15,480	0.8779	The directional characteristics can be specified by the addition of a ' to the value. For example the	
1700	3060	0.2853 × 10 ⁻¹	4700	8460	0.5937	8800	15,840	0.8841	spectral emissivity for radiation in a particular direction would be denoted by α'_{s} . For radiation in a	
1800	3240	0.3934×10^{-1}	4800	8640	0.6075	9000	16.200	0.8900	particular direction, the spectral emissivity is equal to the directional spectral absorptivity for the sorface irradiated by a black body at the same temperature. The most general form of this expression	
1900	3420	0.5210×10^{-1}	4900	8820	0.6209	10,000	18,000	0.9142	states that $a'_1 = a'_3$. If the incident radiation is independent of angle or if the surface is diffuse, then	
2000	3600	0.6673×10^{-1}	5000	9000	0.6337	11,000	19,800	0.9318	$\alpha_s = \alpha_s$ for the herrispherical properties. This relationship can have various conditions imposed,	a del del del
2100	3780	0.8305×10^{-1}	5100	9180	0.6461	12,000	21,600	0.9451	depending on whether the spectral, total, directional, or hemispherical quantities are being considered. ¹⁵	
2200 2300	3960 4140	0.1009 0.1200	5200 5300	9360 9540	0.6579 0.6694	13,000 14,000	23,400 25,200	0.9551		
2400	4320	0.1402	5400	9720	0.6803	15,000	27,000	0.9689	Emissivity of Metallic Surfaces	
2500	4500	0.1613	5500	9900	0.6909	20.000	36,000	0.9856	The properties of pure smooth metallic surfaces are often characterized by low emissivity and ab- sorptivity values and high values of reflectivity. The spectral emissivity of metals tends to increase	
2600	4680	0.1831	5600	10,080	0.7010	25,000	45,000		with decreasing wavelength and exhibits a peak near the visible region. At wavelengths $\lambda > -5$ am	
2700	4860	0.2053	5700	10,260	0.7108	30,000	54,000	0.9953	the spectral emissivity increases with increasing temperature; however, this trend reverses at shorter wavelengths ($\lambda < -1.27$ µm). Surface roughness has a pronounced effect on both the hemispherical	
2800	5040	0.2279	5800	10,440	0.7201	35,000	63,000	0.9970	surveying in $(x < -1.27)$ (iiii). Surface roughness has a pronounced effect on both the nemispherical emissivity and absorptivity, and large synical roughnesse, defined as the mean square roughness of	60°
2900	5220 5400	0.2505 0.2732	5900	10,620 10,800	0.7291 0.7378	40,000 45,000	72,000 81,000	0.9979	the surface divided by the wavelength, will increase the hemispherical emissivity. For cases where	
3000	5580	0.2752	6000 6100	10,800	0.7461	\$0,000	90,000	0.9989	the optical roughness is small, the directional properties will approach the values obtained for smooth surfaces. The presence of impurities, such as oxides or other nonmetallic contarritants, will change	
3200	5760	0.3181	6200	11,160	0.7541	55,000	99,000	0.9992	the properties significantly and increase the emissivity of an otherwise pure metallic body. A summary	
3300	5940	0.3401	6300	11,340	0.7618	60,000	108,000	0.9994	of the normal total emissivities for metals is given in Table 43.17. It should be noted that the hemispherical emissivity for metals is typically 10-30% higher than the values typically encountered	
-			11.1						for normal emissivity.	
			(*						Emissivity of Nonmetallic Materials	
			7 - J.	₹₂G₂dλ/G					Large values of total hemispherical emissivity and absorptivity are typical for nonmetallic surfaces at moderate temperatures and, as shown in Table 43.18, which lists the normal total emissivity of some nonmetals, the temperature dependence is small.	
respectiv	respectively, where							Absorptivity for Solar Incident Radiation		
				$\int_{0}^{\infty} G_{\lambda} d\lambda$					The spectral distribution of solar radiations can be approximated by black-body radiations at a term- perature of approximately 5000 (10,000PR) and specifies an average solar irradiation at the outer limit of the atmosphere of approximately 1553 W/m ² (422 BuL/P ² -hr). This solar irradiation is called the rolor construct and is greater than the solar irradiation reaction of the solar hole, due to the	
As was the case for the wavelength-dependent parameters, the sum of the total reflectivity, total absorptivity, and total transmissivity must be equal to unity, that is, $\alpha + \rho + \tau = 1$				i or the lo	ui rellecti	nty, total	radiation scattering by air molecules, water vapor, and data, and the absorption by O ₂ , 11,O ₂ and CO ₂ in the atmosphere. The absorptivity of a subbance depends not only on the surface properties but also on the sources on incident radiations. Since solar radiation is concentrated as a shorter wavelength, due to the bits source temperature, the absorptivity for cortain metricits when recoverd to solar ender the source temperature. The absorptivity for cortain metricits when recoverd to solar ender the source temperature. The absorptivity for cortain metricits when recoverd to solar ender the source temperature. The absorptivity for cortain metricits when recoverd to solar ender the source temperature is the source temperature.			
It is important to note that while the emissivity is a function of the material, temperature, and surface conditions, the absorptivity and reductivity depend on both the surface characteristics and the name of the incident calculation discoparations and nonsemitance are used by yours automotive for the red The interm reduction discoparation and nonsemitance are used by yours automotive for the red to indicate calculation discoparation and nonsemitance are used by yours automotive for the reduction of the indicated of the indicated of the indicated of the properties of the indicated reductivity and reservations and prove submates performs memorimments. Sur-					of the mi the surfac	terial, temp e character	senature, an istics and t	d surface he nature	radiation may be quite different from that for low-temperature radiation, where the radiation is con- contracted in the longer-wavelength range. A comparison of absorptivities for a number of different materials is given in Table 43.19 for both solar and low-temperature radiation.	
					are used	by some	authors for	the real	43.4.3 Configuration Factor	
					desirery an	reserved	for the pro	perties of	The magnitude of the radiant energy exchanged between any two given surfaces is a function of the emissivity, absorptivity, and transmissivity. In addition, the energy exchange is a strong function of	

<u>Compared to</u> Planetary scanners (with 180° opening angle)



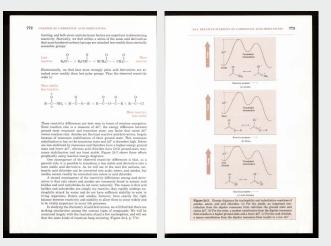


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SCAN QUALITY - 2/3

ScanRobot[®] 2.0 MDS

ScanRobot[®] - prism technology

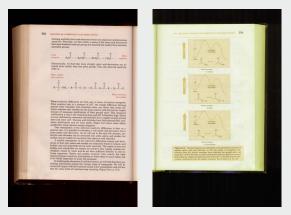


- Exact size & resolution
- Exact colour
- Exact focus & sharpness
- Exact white point

Advantage No corrections needed!

1 capturing unit = 1 scan result

Compared to Systems with camera devices



2 cameras* = 2 different scan results * Effects are amplified for demonstration reasons

- Varying sizes
- Varying resolutions
- Varying colours
- Varying white point

Upcoming challenges

- Resolution correction
- Colour correction
- Focus & sharpness correction



OCRSOLUTIONS[™]

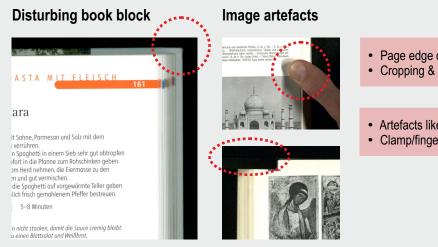
SCAN QUALITY - 3/3

ScanRobot[®] 2.0 MDS

ScanRobot^{®-} - prism technology



Compared to Other scanners



- Page edge detecting challenge
- Cropping & deskewing challenge
- · Artefacts like clamps or fingers
- Clamp/finger removing challenge



ScanGate[®] RT - CAPTURING SOFTWARE

Real-Time image processing for ScanRobot® 2.0 MDS

Advantages



AUTOMATION IN REAL-TIME

- Capturing & image processing in real-time
- Automated creation of best practice outputs for
- Archiving, Presentation and Reprint
- Live view of processed images
- Efficient job management

Specifications

Professional real-time image capturing & processing

The ScanGate[®] RT software enables <u>real-time image processing</u> during the scanning process. <u>Ready-to-use output</u> is created in one single and automated step without loss of speed.

Pre-defined output options

Best practice outputs for Archiving, Presentation and Reprint are included (details see next page).

Live view of scanned & processed images

The fast live view of the scanned & processed images with the pre-defined output options allows real-time quality control.

Efficient job management

The profile administration allows to store settings as basis for new jobs. This ensures e.g. fast book changeovers and to process repetitive jobs (similar books) highly efficiently.

Powerful recognition & evaluation functions

Automatic border & page color recognition, text base line detection, border evaluation (e.g. page size, margins etc.)

Real-time image processing tools

Deskewing, cropping, rotation, extrapolation, ICC profile rendering, background homogenization / normalization, achromatism reducing, binarization (dynamic threshold), brightness / contrast adaption, unsharp masking, image scaling

High quality color management - According to ICC profile standards.

Dublin Core metadata interface - For the creation of fixed metadata xml-files based on the Dublin Core standard.

Multi language user interface - Software available in over 15 languages.

External interface - Intuitive interface for the included flatbed scanner (e.g. for scanning of folded maps, covers, etc.).

Flexible storage in multiple file formats - JPEG, JPG2000*, TIFF, TIFF G4, PNG, GIF, BMP, PDF*, PDF/a* * Formats may be generated within a separate process.



SCAN	Ro	во	Т

REAL-TIME OUTPUT OPTIONS

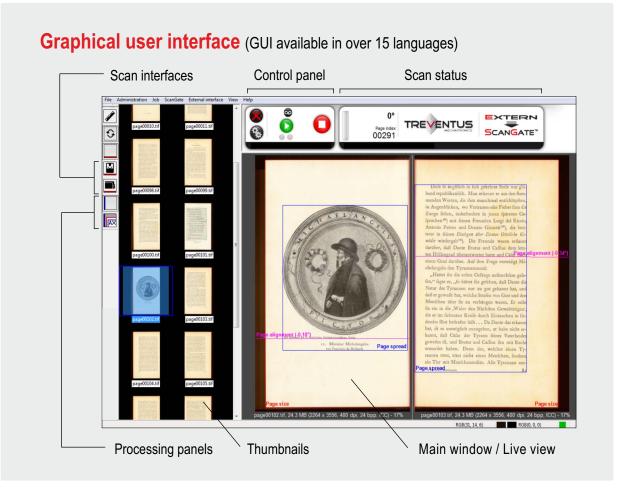
ScanRobot[®] 2.0 MDS (with ScanGate® RT)

Original	<image/> <image/> <text><text></text></text>					
Option	ARCHIVING	PRESENTATION	REPRINT			
Output	<image/> <image/> <image/> <text><text><text></text></text></text>	<image/> <image/> <image/> <text><text><text></text></text></text>	<image/> <image/> <text><text><text></text></text></text>			
Goal	As close to the original as possible (facsimile)	Good looking images for presentation	Optimal quality for printer			
Use cases	Digital heritageDigital master files	Digital libraryWeb (downloadable content)	 Print on demand Reprint of books			
Guidelines (applied real-time functions)	 No image processing allowed (except rotation by multiples of 90° and cropping) Uncompressed file storage (except lossless compression) 	 Good contrast & readability Background homogenization Deskewed & cropped (only page should be visible but no outside margins) Rather small file size for easy access and handling (e.g. via internet) 	 White background with black text Binarized Despeckled Deskewed & cropped (no borders visible) 			
Specifications Resolution Color depth Output format Compression File size (one page)	300 / 400 DPI 24 bit (color with ICC profile) TIFF None Large 300 DPI, A4: ca. 26 MB 400 DPI, A4: ca. 46 MB	300 / 400 DPI 24 bit or 8 bit (color or grayscale) JPEG (optional: PDF) JPEG (lossy) Small 300 DPI, A4: ca. 1,5 MB 400 DPI, A4: ca. 2,5 MB	300 / 400 DPI 1 bit (black and white) TIFF (optional: PDF) CCITT4 (lossless) Very small 300 DPI, A4: ca. 0,2 MB 400 DPI, A4: ca. 0,5 MB			



ScanGate[®] RT - CAPTURING SOFTWARE

User interface & Software add-ons



Software add-ons* for ScanGate® RT (optionally available)

OCR Enterprise solution[™] - UNLIMITED

Text recognition software for <u>automated processing of OCR-jobs</u> for over 130 languages.

RT-Batch workflows for Automated Batch Processing[™]

Individual solutions for <u>automated (overnight) batch processing</u> of a customized set of functions.

Advanced image processing tools package

E.g. color replacing, blurring, tiff tag changing, etc.

* For details see next pages.



SCANROBOT [®]

ScanGate[®] RT - SOFTWARE ADD-ONS

OCR Enterprise solution[™] - UNLIMITED (optionally available)

Automated text recognition



OCRSOLUTIONS[™]

Functions / Features	OCR Enterprise solution [™] - UNLIMITED
OCR page contingent	
Unlimited (no page limitation)	•
Customization options / Flexibility	
Pre-configured OCR workflows (workflows are fixed / hard-coded; OCR languages can be set)	•
Performance	
Batch processing of multiple OCR-jobs	•
Output formats (by default / standard)	
PDF (PDF/a, multi- and single pages)	•
TXT (multi- and single page)	•
XML (hOCR, single pages only)	•
OCR languages	
Over 130 available languages (excerpt: Afrikaans, Azerbaijani, Bengali, Bulgarian, Catalan, Czech, Cyrillic, Danish, German, Greek, English, Esperanto, Estonian, Persian, Finnish, French, Hebrew, Croatian, Hungarian, Italian, Georgian, Latin, Latvian, Lithuanian, Nepali, Norwegian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Swedish, Thai, Tibetan, Turkish, Ukrainian, etc.) Gothic font (Fraktur) / Korean / Chinese / Arabic / Vietnamese	*



ScanGate[®] RT - SOFTWARE ADD-ONS

RT-Batch workflows for Automated Batch Processing[™] (optionally available)

Advantages & Benefits

The customized RT-Batch workflows enable <u>automated batch processing</u>* in scan-free periods (e.g. overnight, weekends, longer scanning breaks etc.). Within this a customized set of system functions like creating another output format, copying files to e.g. another storage place, executing of additional image processing functions etc. will be processed fully automated (e.g. overnight).

Automatic execution of several tasks in the batch-processing

Tasks can be combined (according to the individual customer request) to a batch, which is executed sequentially and automatically until the last task.

	#	Task
T	01	SCANNING - RT Output: Archiving (master tiffs, color, 400 dpi)
	02	PAGE ORDER - Rename pages
	03	IMAGE TREATMENT - Crop pages (smaller than page size)
	04	IMAGE TREATMENT - Unsharp masking
	05	FORMATS - Create Jpegs (greyscale. 300 dpi)
	06	FORMATS - Create multipage PDF (bitonal, 600 dpi)
	07	OUTPUT - Copy Jpegs to destination
	08	OUTPUT - Upload PDF via FTP
	09	ARCHIVE - Clean job and compress master tiffs (LZW)
	10	ARCHIVE - Create backup copy of the job
	11	CLEANUP - Delete job after 10 days

- Scanning of the images in the format "RT Output: Archiving"
- ➡ Rename all pages systematically
- Execute time consuming image treatment functions
- Create different output formats
- Copy the created output safely to its destination
- Reduce data size to a minimum for a backup copy
- Empty the disk space after a certain period

Queuing of several jobs for the batch-processing

During the day the jobs* are pushed to the batch-processing queue, which is executed e.g. overnight.

#	Job name	Pages	Task	Workflow name	Priority	Progress
1	Job_05	250	PAGE ORDER - Rename pages	BatchProcessingWorkflow_01	very high	-
2	Job_01	100	FORMATS - Create Jpegs (greyscale. 300 dpi)	BatchProcessingWorkflow_01		-
3	Job_03	150	ARCHIVE - Clean job and compress master tiffs (LZW)	BatchProcessingWorkflow_03		-
4	Job_04	400	OUTPUT - Copy Jpegs to destination	BatchProcessingWorkflow_01		-
5	Job_02	200	CLEANUP - Delete job after 10 days	BatchProcessingWorkflow_02	-1	-

* Jobs can have different tasks, processing stages, priorities, batch-processing-workflows etc.



SCANROBOT[®]



ScanGate® RT - SOFTWARE ADD-ONS

Advanced image processing tools

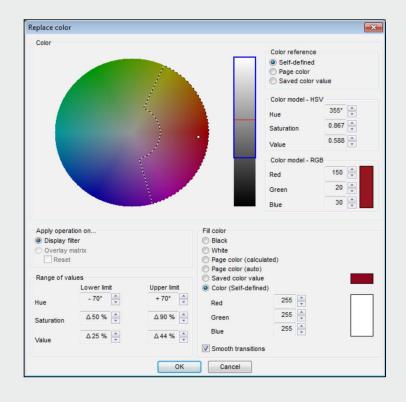
(optionally available)

Included advanced features

- Color depth conversion, color replacing, background removing
- Moiré effect removing, blurring, black margin coloring
- Image file resolution setting, Tiff tag changing, watermark / ruler / trim mark adding
- Split line detection, page splitting / combination / zip merge & unzip merge
- Grouping of pages (group naming), page renaming

Example: Color replacing

This function enables you to replace a color by another one.







SPECIFICATIONS & SCOPE OF DELIVERY

ScanRobot[®] 2.0 MDS

Technical 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 • Opening angle (book cradle) 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 400 dpi (optical) with constant resolution independent of the page format Colour depth 36-bit Image types colour, greyscale, b&w compliant to ISO19264-1 Level-C (optionally available**) Image quality minimum (2 times - automatic mode): 5 x 5 cm (1.97 x 1.97 in) • Page format (scanning area) 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) 35.5 x 34.0 cm (13.98 x 13.39 in) • Book size (maximum) Book thickness up to 15 cm (5.91 in) Paper thickness no restrictions (recommended spectrum: 40 g/m² to 260 g/m²) Paper quality all pages, also acid damaged and wavy pages all covers (soft and rigid) Covers 14th century up to now Book age jpg, jpg2000, tiff, tiff G4, png, gif, bmp, pdf Storage formats 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)

* The speed can vary depending on paper quality, book size and the general book condition. ** The upgrade package for the ISO-C compliant image quality is optionally available.

Scope of delivery

- 1 pc Automatic book scanner ScanRobot[®] 2.0 (400 dpi optical)
- 1 pc Single-scan book scanner (flatbed A3)
- 1 pc Control Computer System (high-end PC-workstation)
- 1 pc EIZO 24" widescreen monitor (colour calibrated)
- I pc Integrated holder for monitor, keyboard and mouse
- 1 pc Capturing software with real-time processing ScanGate[®] RT
- 1 pc ISO Target book (only included within the optional ISO-C upgrade package)

Add-ons (optionally available): OC

OCR Enterprise solution[™] - UNLIMITED (text recognition) RT-Batch workflows for Automated Batch Processing[™] Advanced image processing tools package



SCANROBOT® 2.0 MDS MASS DIGITIZATION SYSTEM

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 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 National Library, KUWAIT National Library, LATVIA University, LUXEMBOURG Universidad Autonoma Metropilitana, MEXICO National Library, MONGOLIA GMS Service Provider, NETHERLANDS National Library, NORWAY National Library, POLAND Siberian Federal University, RUSSIA Moscow State University, RUSSIA National Library, RUSSIA

King Fahd Private Library, SAUDIA ARABIA National Library, SLOVAKIA Universidad Complutense de Madrid, SPAIN National Library, SWEDEN Stockholm University Library, SWEDEN Umeå University Library, SWEDEN ETH Library of Zürich, SWITZERLAND Ankara Social University, TURKEY National Library, TURKEY Ukrainian Institute of Industrial Property, UKRAINE The Getty Research Institute, UNITED STATES Utah State University, UNITED STATES Vietnam National University, VIETNAM

... and many more ...

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

The Bavarian State Library, GERMANY

"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."

Specialists evaluation committee, SWEDEN

"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, GERMANY

Excerpt (alphabetical order by countries)







Awards of Treventus

Winner of the European ICT Grand Prize Innovation prize of the Theodor Kery foundation 1st place in Genius Innovation Award TREVENTUS Mechatronics GmbH Siebenbrunnengasse 17 / Top 2 1050 Vienna - AUSTRIA - Europe

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