Hybrid Scanning Systems

Two devices - One software

Hybrid Scanning Systems
Indispensable for every digitization center

Everyone knows the challenges of digitizing heterogeneous collections, especially fragile, historical documents: Digitization requires special care and quality, but this is often at the expense of productivity, as different scanning systems are usually required for different material.

The hybrid scanning solutions from book2net therefore combine the advantages of two scanning worlds in a unique and convenient way: contactless, gentle digitization by a book2net planetary scanner (A1/A2) and the high performance of an A3 SCAMIG document scanner. This guarantees a smooth workflow, allowing fragile bound or stapled originals as well as single sheets or entire stacks of sheets to be processed carefully and productively at the same time. This makes the hybrid scanning systems from book2net ideal for the special requirements of extensive retro-digitization projects in archives, libraries and digitization centers.

■ Your benefits at a glance

- All-in-one solution: two devices including software from one provider
- One workstation for various applications
- Flexible installation options
- A wide range of formats up to A1
- Document security and guaranteed scan quality
- Increased project productivity
- Only one software required for both devices:
  All scans are saved in the same software in the desired order
- Convenient processing, exporting, renaming or sorting of the scans
- One contact for service and maintenance

■ Resource-saving technology

With our hybrid scanning solution you get an outstanding and flexible system at an economical overall price. As with all systems in the book2net series, in addition to costeffectiveness, the highest value is placed on taking ecological aspects into account during production and using sustainable, resource-saving materials and technologies.

■ Comfortable workflow thanks to shared software

One software for both scanners: Easy Scan Professional, the scanning software of the planetary scanner, also serves as an interface for the high-performance document scanner. The simple switching of the input source in the scan interface enables both bound documents and loose sheets to be digitized with maximum efficiency. You will always receive all scans from both devices in the correct order, allowing you to export them combined and to add further workflows.

Time-consuming work steps such as merging individual scans from different devices are no longer necessary. This increases productivity significantly without compromising the quality and care in handling your documents. By attaching a color profile, it is possible to generate color-accurate scan files.

Further features: Intuitive scan application with integrated image enhancement for the extended requirements on production scanning including scan to USB, scan to print (automated), thumbnails (insert, delete, view), frame setting, page splitting, left side, right side, center adjustment, contrast regulation, zoom function, print cut-out, USB capacity display, multipage. Output formats: TIFF, JPG, PDF (single & multipage). Color formats: color, grayscale, b/w. Job functions (save, load, edit), thumbnail directory & archive, processing of archived jobs.

book2net Planetary Scanner

The book2net planetary scanners are the best choice for a gentle, ergonomic and productive digitization. All systems are manufactured sustainably and to industrial standards. This makes them particularly reliable and low-maintenance. But that's not all: equipped with our innovative camera technology, they are more than just one step ahead of the times by delivering top results at lightning speed and being intuitive to operate.

■ M70/M150 camera

The heart of book2net scanning technology are our M70 and M150 HD cameras, with which all book2net scanning systems are equipped according to requirements. They set new quality standards in the field of digitization and are characterized by first-class image quality, flexible handling and incredible scanning speed. Thanks to their electronic shutter, they are also durable and maintenance free.

Our camera technology guarantees highly accurate images in consistent quality for archival materials and objects in a wide range of formats and structures, whether stapled or bound documents, photos, plans, glass negatives, documents with seals or coins.

■ Optics

- Schneider-Kreuznach precision lens
- High depth of field
- Brilliant true color reproduction
- Perfect linearity
- Distortion-free
- Longevity guaranteed

■ High-performance sensor

- High-resolution CMOS area sensor
- 0.3 sec. scanning time (full format in color / 400 ppi)
- 2.2 sec. processing time (scanning + imaging + storage)
- USB 3.0 interface
- Optimized for OCR applications thanks to reduced signal noise

■ LED illumination

All book2net scanners are equipped with an LED lighting system that provides a stable color temperature during the scanning process and thus guarantees true color reproduction. Thanks to the Fresnel lenses used, uniform illumination of the entire scan area is guaranteed. The LED light sources are glare-free and UV/IR-free, so there is no radiation exposure in accordance with EN60825-1.

■ Color management

As of the camera true to color: our unique True Color Management.

Beginning at the camera it is possible to generate scans true to SRGB, Adobe 1998, RGB, ECI RGB V1 and ECI RGB V2 and thereby produce scans according to digitization guidelines, specifications and standards effortlessly.

The huge advantage of True Color: In comparison to the generation of an ICC-profile (which is calculated with a 24 bit color scan of an X-rite color checker by a calibration software) True Color conducts all calculations and adaptions in the internal imaging area of the camera with a color and analysis depth of 48 bit. Colors are displayd even more accurately and signal noise is minimized.

The result: METAMORFOZE, FADGI and ISO/TS 19264-1:2017 compliant scan results.

Ultra (A2+)

Archive Pro (A1/A2+)

Profi (A2+)

book2net SCAMIG Document Scanner

Fast, durable and reliable, with a throughput of up to 210 documents per minute, SCAMIG document scanners guarantee a reliably high throughput.

Space-saving and with a high-quality design, they are the smart and sustainable choice for scanning high volumes of documents in top quality on a daily basis. Developed for 24/7 operation and manufactured 100 percent in Germany, they set standards in terms of quality, efficiency and ease of use.

In combination with the book2net planetary scanners, the SCAMIG document scanners form the ideal hybrid scanning solution.

■ Highlights

- Resolution up to 600 ppi (optical)
- Scanning technology: CCD camera technology
- Scanning speed: up to 420 pages / minute
- Scanning speed regulation: adjustable in steps
- Unique slow-down option for the most fragile archive materials
- Connection: USB 3.0 compatible
- Recommended daily volume: no limit
- Light source: white LEDs
- Document width: 56 mm to 317.5 mm (A3+)
- Document length: 60 mm to 1,950 mm (in long document mode)
- Paper thickness and weight: 30 g/m² - 800 g/m²
- Maximum stack height: 75 mm (approx. 750 sheets at 80 g/m2) definable via profile
- Sensory feed and throughput control
- Single-sheet input for processing the most fragile and difficult materials

■ Slow-down-function

The unique slow-down function enables critical and fragile documents to be scanned damagefree at an adjusted, reduced speed.

■ Performance upgrade

All book2net SCAMIG scanners can be easily upgraded. Increasing scan volumes can thus be compensated for directly by increasing the performance. This guarantees investment and project security and also promotes sustainability.

■ Color management

The book2net SCAMIG scanner adhere to the digitization guidelines FADGI as well as to ISO/ TS 19264:1 2017 standards.

■ Perfect Document Technology

Perfect Document Technology for full image processing directly within the scanner: including gamma correction, bicubic skew correction (deskew), black border removal (cropping) and dynamic binarization for perfect black and white images. In addition, Perfect Document Technology offers functions such as multistreaming (for the simultaneous output of color, gray and black and white images), automatic blank page detection, text-oriented alignment, automatic color detection, patchcode-controlled color switching and much more.

Performance SCAMIG 120

Specifications for bitonal/color 200/300 ppi	SCAMIG 120-1	SCAMIG 120-2
SIMPLEX A4 landscape format	100 sheets/min. 100 pages/min.	120 sheets/min. 120 pages/min.
DUPLEX A4 landscape format	100 sheets/min. 200 pages/min.	120 sheets/min. 240 pages/min.

Performance SCAMIG 210

Specifications for bitonal/color 200/300 ppi	SCAMIG 210-1	SCAMIG 210-2	SCAMIG 210-3	SCAMIG 210-4
SIMPLEX A4 landscape format	120 sheets/min. 120 pages/min.	150 sheets/min. 150 pages/min.	180 sheets/min. 180 pages/min.	210 sheets/min. 210 pages/min.
DUPLEX A4 landscape format	120 sheets/min. 240 pages/min.	150 sheets/min. 300 pages/min.	180 sheets/min. 360 pages/min.	210 sheets/min. 420 pages/min.

SCAMIG 210

SCAMIG 120

Scanner specifications

Technical data

Sensor	High performance CMOS sensor (book2net planetary scanner)
Optics	Schneider-Kreuznach precision lens (book2net planetary scanner)
Shutter	No shutter mechanics
Illumination	Cold-light LED-technology with integrated Light-Control-System (LCS)
Resolution	300 ppi / 400 ppi / 600 ppi (device-dependent)
Depth of field	up to 12 cm
Scanning time	0.3 seconds (A2 color at 400 ppi)
Processing time	2.2 seconds (scanning + imaging + storage)
Layout section	up to A1
PC interface	USB 3.0
Software	Easy Scan / bookScan professional intuitive scan software with extended functions for job management, image editing and further processing
Color depth	48 bit color; 24 bit color, 16 bit gray, 8 bit gray; 1 bit b/w
File formats	TIFF, JPEG, JPEG 2000, PNG, PDF, PDF-A, multipage PDF and multipage TIFF, RAW
Output	sRGB, Adobe 1998 RGB, eciRGB V1/V2, ProPhoto and according to ICC standard
Safety standard	CE EMV

Maintenance possible via remote service.
Subject to technical modifications.

Hybrid scanning systems in use

• Major project in The Federal Archives

MICROBOX GmbH
Hohe Straße 4-6
61231 Bad Nauheim
+49 (0) 6032 34 02 0
mail@book2net.net
www.book2net.net

Quality made in Germany
book2net is a brand of **MICROBOX**

HESSEN CHAMPIONS
Der Innovations- und Wachstumspreis
Gewinner 2023
Weltmarktführer

Version BL01 - Stand 03.2024