

Archive Pro

Ergonomics, user comfort & quality



Archive Pro (A1/A2)

Outstanding features exceeding your expectations

Scanning archive material places special demands on scanning systems and users in terms of accuracy, quality, productivity and workload.

The often high diversity and sensitivity of historical files and documents require the greatest possible system flexibility, which must also meet ergonomic requirements. Requirements that the book2net Archive Pro fulfills perfectly thanks to the height adjustable camera carriage, the process-controlled automatic scanning system and the motorized pressure table that can be driven underneath.

The book2net Archive Pro is available as an A1 or A2 system and combines the qualities of a high-end production scanner with the advantages of a variable repro system. Application-specific formats from A1/A2 to A5+ can be easily scanned at high resolution.

■ Resource-friendly technology

As with all systems in the book2net series, the Archive Pro was designed with the highest ecological standards in mind during production and the use of sustainable, resource-saving materials and technologies.

■ LED lighting unit

The LED light source is glare-free, ozone-free and UV/IR-free, so there is no radiation exposure in accordance with EN60825-1. The low light load of less than 2,500 lux and a service life of over 50,000 operating hours also meet the highest conservation and ecological requirements.

Fresnel lens system:

The Fresnel lenses specially developed for the book2net light units ensure perfect light distribution. Unwanted and disruptive gradients and reflection effects, which can occur on very bright or dark surfaces and shiny materials, are therefore avoided.

3-sided lighting concept:

The Archive Pro systems can be equipped with a 3-sided lighting system on request, which allows the programming of individually adapted lighting scenarios (e.g. sided light, back light).

Two operation modes:

- Flash: The lighting units will brighten up during the scan and reduce their intensity after the successful scan. Permanent light induced heating of the room is avoided and the lifetime of the units is extended.
- Permanent light: On request it is possible to work with a higher "light prestressing", in order to eliminate the "flash", which might be perceived as disturbing.



■ book2net HD cameras

At 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.

■ Easy focus

The Archive Pro systems have a motorized focus specially developed for the optics of the M70/ M150 camera that can be controlled at the touch of a button. This guarantees that the image is always scanned with optimum sharpness regardless of the format position (DIN A1 - DIN A5). Even objects with deeper structures such as seals, for which an adjustment of the "focal plane" is advantageous due to their structural depth, can be processed without any problems. Fine adjustment with video preview and digital sharpness value display allows the sharpness level to be conveniently adjusted.

Motorized height-adjustable camera slider

Versatile applications and yet always the perfect color and quality

This feature is unique in the large scanner segment and offers both high versatility and outstanding scan quality up to an optical resolution of 1,200/1800 ppi.

Different format positions in the DIN A1/A2 to DIN A5 range can be approached conveniently. A unique feature is the ability to load the corresponding color profiles and adjustment parameters depending on the template and requirements with just one click on the symbolic format markings in the intuitive scanning software.

The result: full-format images in perfect quality and the highest possible resolution.

■ Control center consisting of monitor and controller

Ergonomics and user comfort are paramount. The possibility to attach a monitor directly in the user's line of view was a customer request which we gladly incorporated. User comfort is hence increased and the preview of the scan as well as the result of the scan can be inspected immediately on the screen.

Optionally, MICROBOX will provide a controller PC system of the latest Microsoft and Intel technology along with the equipment. The PC system is optimized to ensure a cycle time of less than 2.2 seconds.

■ 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 adaptations in the internal imaging area of the camera with a color and analysis depth of 48 Bit. Colors are displayed even more accurately and signal noise is minimized.

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



Gentle 3in1 glass plate

Benefit from 3 operating modes for the most diverse requirements

Mode 1: 180° operation with a fixed glass plate

This mode is indispensable when high speed, varying pressure and the best possible user comfort are required. Especially with archive files and wrinkled documents there is no other option.

The advantage is that both of the user's hands are free to straighten out the original or adjust its position as the - motorised and pressure controlled - book cradle moves up to the glass plate.

Mode 2: Self-opening

This operation mode is suited for files and books of 10 cm thickness which only require little manual handling like straightening out pages or holding the document down.

Once the height of the book cradle has been adjusted, the glass plate opens automatically after every scan and can be closed manually for the next scan. The throughput is very high here as well.

Mode 3: Motoric opening and closing (optional)

This operation mode is an optional service. Equipped with a precision motor, the glass plate can be closed with a foot switch and opens automatically after the scan.

The opening angle can be size-adjusted to the template to optimize throughput.

■ Motorized book cradle

The extraordinary book cradle concept is another highlight of this solution. The book cradle has a height adjustment of 20 cm and therefore realizes scanning even the thickest books and files under glass. Optionally, the system can be equipped with a 35 cm book cradle.

Especially unique is how each side is steered by its own precision motor. This is an indispensable aspect, especially with delicate documents such as letters with seals which need different heights levels to be scanned without damage.

Infinite fine regulation and a 3-step pressure setting with integrated pressure control are further outstanding features and ensure a safe scanning process for your archive materials without damages. The format-optimized lowering automatics complete the concept and optimize the bookcradle's path when lowering after a scan.

Hence, the system's throughput can be exploited completely.



Scanner specifications

Technical data

Sensor	High performance CMOS sensor		
Optics	Schneider-Kreuznach precision lens		
Shutter	No shutter mechanics		
Illumination	Cold-light LED-technology with integrated Light-Control-System (LCS)		
Resolution	M70	M150	
	A1	300 ppi	400 ppi
	A2	400 ppi	600 ppi
	A3	600 ppi	900 ppi
	A4	800 ppi	1200 ppi
	A5	1200 ppi	1800 ppi
Depth of field	8 cm at A1 / 12 cm at A2		
Scanning time	0,3 seconds		
Processing time	2,2 seconds (scanning + imaging + storage)		
Layout section	A1 : 860 mm x 645 mm A2 : 645 mm x 460 mm		
Spine exemption	25 cm at A1 / 14 cm at A2		
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		
Dimensions A1	1240 (1806*) x 1068 x 2187 mm (w x d x h) *side illumination (l/r) included (optional)		
Dimensions A2	898 (1436*) x 929 x 2077 mm (w x d x h) *side illumination (l/r) included		
Weight	approx. 250 kg		
Connection values	100 V - 240 V, 47 Hz - 63 Hz		
Energy consumption	Standby 69 W - 75 W, in operation 69 W - 125 W		
Safety standard	CE EMV		

Maintenance possible via remote service.
Subject to technical modifications.



Archive Pro in use

- 8 book2net Archive Pro A2 scanners are in use at the **Hessian Main State Archives in Wiesbaden** for the large-scale cultural property protection project of the Federal Safeguarding Project, among others.

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