

Flash

A1 high-performance scanner



Flash (A1+)

Robust design & reliable performance

The book2net Flash A1+ was specially developed for use in the mass digitization of large-format, bulky or particularly heavy originals such as magazine volumes.

The mass digitization of large-format books and documents is associated with a high throughput volume. This requires high productivity on the one hand, but also the greatest possible relief for the user at the workstation on the other. For this reason, we have placed particular emphasis on streamlining the workflow when developing the book2net Flash.

■ High-performance sensor

- High-performance area sensor
- Selectable options: M70 (300 ppi)/M150 (400 ppi)
- 0.3 sec. scanning time (A1 color at 300 ppi)
- 2.2 sec. processing time (scannen + imaging + storage)
- USB 3.0 interface
- Optimized for OCR applications due to reduced signal noise

■ Book cradle

- Motorized book cradle with balancing technology
- Height adjustment up to 25 cm
- Spine exemption up to 25 cm
- Double profile lifting columns for precise height adjustment
- Load capacity up to 180 kg per column
- Preservation approved

Fixed book table (optional)

- Continuous supporting surface
- Special coating on requirement

■ Motorized glass plate

- Preserves originals
- Self-opening & self-closing
- Process-controlled glass plate
- Book size-dependant traverse paths
- Adjustable pressure sensitivity
- Sensitive, fully electronic pressure control
- Non-reflecting glass (museum glass optional)

■ Optics

- Schneider-Kreuznach precision lens
- Depth of field 12 cm
- Brilliant color rendering
- Optical book fold optimization
- Perfect linearity
- Distortion-free
- Long durability



■ Semirobotics

- PLC control with high-precision linear drive (1/100 mm precision)
- Programmable scanning processes
- Book size-dependent traverse paths
- Adjustable opening angles
- Process-controlled pressure
- Sensitive, fully electronic pressure control
- Variable control:
 - fully automatic
 - semi-automatic
 - manual
 - time-controlled
 - user-controlled

■ LED illumination

- Dual lighting unit (individually or synchronously controllable)
- Cold light LEDs
- Uniform illumination thanks to Fresnel lenses
- Stepless regulation of the light emission angle
- Constant wavelength
- Stable color temperature
- Light intensity $\leq 2,500$ lux
- Illumination time ≤ 0.6 sec.
- Glare-free, UV/IR free (in accordance with EN60825-1)
- Long service life (10,000 working hours)
- Low energy consumption < 100 VA

■ Eco-friendly

- No UV / IR radiation
- No heat load
- Lowest noise emission
- Low-Energy-Control (LEC)

■ Software & features

- Live video preview
- Professional scan software for job management, image processing and post-processing
- OCR (optional)

■ Color management

Integrated True-Color management:

METAMORFOZE, FADGI, ISO/TS 19264:1 2017 standard regarding color quality, resolution, noise & linearity.

Scanner specifications

Technical data

Sensor	High-performance area sensor
Optics	Schneider-Kreuznach precision lens
Shutter	No shutter mechanics
Illumination	Cold-light LED-technology with integrated Light- Control- System (LCS)
Resolution	M70: 300 ppi / M150: 400 ppi
Depth of field	12 cm
Scanning time	0.3 seconds (A1 color at 300 ppi)
Processing time	2.2 seconds (scanning + imaging + storage)
Layout section	645 mm x 916 mm
PC interface	USB 3.0
Software	EasyScan / bookScan professional scan software with extended functions for job management, imaging and postprocessing
Color depths	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	990 cm x 990 cm x 2100 / 2350 cm (w x d x h)
Weight	approx. 100 kg
Noise emission	approx. 44 dB(A)
Energy consumption	Standby 50 VA, average 68 VA, consumption peak 100 VA
Safety standard	CE EMV

Maintenance possible via remote service.
Subject to technical modifications.



Flash in use

- The Historical Archive of the City of Cologne
- The National Library of Uzbekistan
- The Irish Newspaper Archives
- The Mohammed Bin Raschid Library



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