

Mosquito

A1 high-end semirobotic scanner



Mosquito (A1+)

When compromise is not an option

With our A1 double-head large-format scanner book2net Mosquito, we have developed a high-performance device that is specially designed for digitizing large-format, bulky or particularly heavy originals such as magazine volumes and at the same time guarantees maximum gentle handling.

Thanks to the parallel use of two camera units, the book2net Mosquito achieves unrivaled quality among A1 book scanners and guarantees consistently top-quality scanning results. Industrial precision components and standards ensure durability and sustainability and enable smooth, even guidance and adjustment of all moving elements. This means that the book cradle, glass plate and the LED lighting system can be precisely adjusted to a wide range of formats and originals in a matter of seconds.

■ High-performance sensor

- Dual CMOS area sensor technology
- Selectable options: M70 (400 ppi)/M150 (600 ppi)
- 0.3 sec. scanning time (A1 color at 400 ppi)
- 3.5 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 8 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	Dual CMOS area sensor technology
Optics	Schneider-Kreuznach precision lens
Shutter	No shutter mechanics
Illumination	Cold-light LED-technology with integrated Light- Control-System (LCS)
Resolution	M70: 400 ppi / M150: 600 ppi
Depth of field	8 cm
Scanning time	0.3 seconds (A1 color at 400 ppi)
Processing time	3.5 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	100 cm x 107 cm x 200 / 210 cm (w x d x h)
Weight	approx. 125 kg
Connection values	100 V - 240 V, 47 Hz - 63 Hz
Energy consumption	Standby 50 VA/95 VA, in operation 100 VA
Safety standard	CE EMV

Maintenance possible via remote service.
Subject to technical modifications.



Mosquito in use

- The Royal Library of Denmark



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