

Cobra

High-End semirobotic V-Scanner



Cobra (A1/A2)

The best choice for your valuable collections

The scanning of old, valuable book collections such as illuminated manuscripts and incunabula poses particular demands on the equipment and the operators with regard to care, quality and ergonomics. At the same time, the productivity is becoming increasingly important for the implementation of digitization projects with sensitive and vulnerable originals.

With the book2net Cobra, available as A1 or A2 system, we have developed a high-performance scanner with a computer-controlled precision drive that guarantees extremely gentle digitization, meets ergonomic requirements and at the same time enables high productivity. The preservation approved book cradle with variable glass plates, the modular lighting unit and programmable control modules make the book2net Cobra a uniquely versatile scanning system – precisely adjustable to the specific requirements of your valuable originals!

■ High-performance sensor

- Dual CMOS area sensor technology
- Selectable options: M70 (400 ppi)/M150 (600 ppi)
- 0.3 sec. scanning time (2 x A2 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

- 110° opening angle
- Height adjustment up to 15 cm (optional up to 25 cm)
- Spine exemption up to 10 cm in width (optional 20 cm)
- Spine exemption up to 8 cm in depth
- Profile lifting column for precise height adjustment
- Load capacity up to 180 kg
- Variable coating on requirement
- Preservation approved

■ V-shape glass plate

- Preserves originals
- Self-opening & -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 (A2 color at 400 ppi)
Processing time	3.5 seconds (scanning + imaging + storage)
Layout section	2 x 635 mm x 451 mm (>A1) 2 x 462 mm x 328 (>A2)
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	700 x 860 x 1900 mm (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/170 VA
Safety standard	CE EMV

Maintenance possible via remote service.
Subject to technical modifications.



Cobra in use

- The Fondation Martin Bodmer
- The Mohammed Bin Raschid Library
- The National Library of Uzbekistan
- The Hessian State Archives



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