Cobra **A1/A2**

A1 / A2 book scanner with V-shape glass plate and semi-robotics for the conservation digitization of valuable books and manuscripts.

Quality made in Germany

Cobra **A1 /A2** | 101534

Features

High-performance sensors

- Dual CMOS area sensor technology
- Electronic wear-free shutter
- 400 - 600 ppi
- 0.3 sec. scanning time (A2 color at 400 ppi)
- 3.5 sec. processing time (scanning + imaging + storage)
- USB 3.1 Gen. 1 interface

Optics

- Schneider-Kreuznach precision lenses
- Depth of field 8 cm
- Brilliant color accuracy
- Optical book fold optimization
- Perfect linearity

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 columns for precise height adjustment
- Load capacity up to 180 kg per column
- Preservation approved

V-shape glass plate

- V-shaped glass plate (110° standard)
- Non-reflective glass
- Gentle on the original
- Self-opening and self-closing
- Book size-dependent traverse paths
- Sensitive, fully electronic pressure control
- Integrated movement monitoring

LED lighting

- Dual lighting unit (individually or synchronously controllable)
- Adaptive exposure control LED intensity
- Fresnel lenses for homogeneous illumination
- Stepless regulation of the light emission angle
- Illumination time <= 0.6 sec.
- Glare-free / no flash effects
- Adaptable to ambient light
- Low energy consumption
- Light intensity <= 2,500 lux
- CRI > 95

Device control

- 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

Intuitive scanning software

- Live View Professional
- Finger removal
- Automatic cropping & alignment
- Job management, image editing and post-processing

Color management

Integrated true color management according to METAMORFOZE, FADGI, ISO/TS 19264:1 2017, ISO/TS 19264:1 2021, ICC standard regarding color quality, resolution, noise & linearity.

Options

Camera M150 | 102636

High-resolution 152-megapixel CMOS camera, for use in the fields of repro photography and digitization

Page holding tool "Butterfly" | 101554

V-shaped, particularly gentle motorized book fold pressure in "butterfly" style with four pressure fingers including control module controller for optional control: full, semi-robotic or manual operation.

- **Prog. 1:** Manual: All functions can be controlled manually and individually
- **Prog. 2:** Semi-automatic: Manual triggering of the scan + opening of the fingers
- **Prog. 3:** Fully automatic: Automatic scan + closing + triggering + opening according to time intervals

Page holding tool "Munich finger" | 100001

Custom product made of glare-free Plexiglas®

Foot switch | 100714

Trigger scan / control glass plate / move book cradle

Magnetic rulers 15 cm | 101378

Magnetic wooden rulers for aligning books (2 x magnetic holder 15 cm)

Magnetic rulers 30 cm | 101378

Magnetic wooden rulers for aligning books (2 x magnetic holder 30 cm)

ColorChecker Digital SG | 100293

For color calibration with 140 color patches

Cobra **A1/A2**

Technical Data

Sensor	Dual CMOS area sensor technology
Optics	Schneider-Kreuznach precision lens
Shutter	No shutter mechanism
Illumination	Cold light LED technology with integrated Light Control System (LCS)
Resolution	400 ppi / 600 ppi
Depth of field	8 cm
Scanning time	0.3 seconds (A2 color at 400 ppi)
Process time	3.5 seconds (scanning + imaging + storage)
Original size	2 x 635 mm x 451 mm (>A1) 2 x 462 mm x 328 mm (>A2)
Book opening angle	110°
Interface	USB 3.1 Gen. 1
Software	Easy Scan / bookScan intuitive software with advanced 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, PDF, PDF-A, multipage PDF and multipage TIFF
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, operation 100 VA
Safety standard	CE / EMV / CCC / SASO

Maintenance possible via remote service
Subject to technical changes
BL02

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