Dragon **A1+**

The Dragon meets the requirements for maximum flexibility and individual design of a digitization system for conservational scanning of special historical collections in A1 to A4 format with a small aperture angle.

Dragon **A1+** | 101656

Features

High-performance sensors

- Dual CMOS area sensor technology
- Electronic wear-free shutter
- 300 - 600 ppi
- 0.3 sec. scanning time (A1 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 at A1 / 12 cm at A2
- Brilliant color accuracy
- Optical book fold optimization
- Perfect linearity
- Distortion-free

Book cradle

- 110° opening angle standard (optional 90°, 100°, 120°)
- 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
- Variable coating on requirement
- Preservation approved

V-shape glass plate

- 110° opening angle standard (optional 90°, 100°, 120°)
- Preserves originals
- Self-opening and -closing
- Process-controlled glass plate
- Book size-dependent traverse paths
- Adjustable pressure sensitivity
- Sensitive, fully electronic pressure control
- Integrated movement monitoring

LED lighting

- Adaptive exposure control LED intensity
- Fresnel lenses for homogeneous illumination
- Glare-free / no flash effects
- Adaptable to ambient light
- Low energy consumption
- Light intensity <= 2,500 lux
- Two operating modes:
  Flash: The lamps light up slightly for the scan and then reduce their intensity again immediately after the scan. A heating up the room, often annoying with permanent light, is avoided and at the same time the service life of the light units is extended considerably.
  Continuous light: On request, it is possible to work with a higher „lamp bias", whereby the „brightening effect", if it is perceived as annoying, is omitted.
- CRI > 95

Additional lighting

- Dual LED light unit for shadow-free and reflection-free photography, especially of historical books with corrugated surfaces.
- Integrated dual control module for adjusting both light sources

Intuitive scanning software

- Live View Professional
- Finger removal & page separation
- 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

V-shape glass plate | 000000

V-shape glass plate for replacement at 100° or 120°

Adjustable V-shape book support plates | 000000

Angle-adjustable V-shape book support plates for 90°, 100°, 110° or 120°

Magnetic rulers 15 cm | 101378

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

Magnetic rulers 30 cm | 101377

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

ColorChecker Classic | 100292

For color calibration with 24 color patches

ColorChecker Digital SG | 100293

For color calibration with 140 color patches

ColorChecker Digital SG spectrally measured | 103099

Spectrally measured ColorChecker SG with 140 color patches including measured value table for optimum color calibration results.

Dragon **A1+**

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	300 ppi / 600 ppi
Depth of field	8 cm at A1 / 12 cm at A2
Scanning time	0.3 seconds (A1 color at 400 ppi)
Process time	3.5 seconds (scanning + imaging + storage)
Original size	635 mm x 880 mm
Book opening angle	110° (optional 100° or 120°)
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	2100 x 2000 x 2000 mm (w x d x h) incl. lighting
Weight	approx. 250 kg
Connection values	100 V - 240 V, 47 Hz - 63 Hz
Energy consumption	Standby 69 -75 VA operation 69 -125 VA
Safety standard	CE / EMV / CCC / SASO

Maintenance possible via remote service
Subject to technical changes

BL02

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