

# Hornet

A0 high-end semirobotic scanner



# Hornet (A0+)

## Designed for the highest demands

Scanning large-format originals such as newspaper volumes, plans, posters or paintings places special demands on devices and users in terms of quality and ergonomics. At the same time, the productivity factor is becoming increasingly important when carrying out digitization projects of bulky or heavy originals.

With the book2net Hornet A0, we have developed a high-performance scanner with PLC-controlled precision drive that guarantees extremely gentle digitization and at the same time meets the special requirements of mass digitization.

### ■ High-performance sensor

- Dual CMOS area sensor technology
- Selectable options: M70 (300 ppi)/M150 (400 ppi)
- 0.3 sec. scanning time (A0 color at 300 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  $\leq 0.6$  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	300 ppi / 400 ppi
Depth of field	8 cm
Scanning time	0.3 seconds (A0 color at 300 ppi)
Processing time	3.5 seconds (scanning + imaging + storage)
Layout section	858 mm x 1264 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	139 cm x 196 cm x 228 cm (w x d x h)
Weight	approx. 250 kg
Connection values	100 V - 240 V, 47 Hz - 63 Hz
Energy consumption	Standby 50 VA, in operation 100 VA
Safety standard	CE EMV

Maintenance possible via remote service.  
Subject to technical modifications.



### Hornet in use

- The Historical Archive of the City of Cologne
- The Mohammed Bin Raschid Library
- The National Library of Uzbekistan
- The National Library of Mauritius
- The Stormarn District Archive
- The SRZ Berlin



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