



Scanning in
unprecedented
quality

OS HQ

Unique image quality.

The OS HQ – Scanning in unprecedented quality

The OS HQ Scanner generation is the result of new technological developments as well as our consistent work on technical innovations. It fulfills the highest demands under the headings of image quality, process efficiency and productivity.

The unique image quality of the OS HQ is based on the perfect interplay of especially high-quality technical components. Thus, the image quality of the OS HQ exceeds the requirements of all common digitalization standards, e.g. ISO 19264-1, Metamorfoze Full or FADGI 4 Star event when scanning formats larger than A0.

The scanning system features a completely self-developed exclusive GigaPixel camera system with a CMOS-based line sensor. Compared to the OS Q series the OS HQ works with a twice as big camera sensor. The camera features a high dynamic range and is also capable of reproducing the finest gradations. The result: sharp, low-noise, high-contrast images which reflect even the finest details true to the original – and all in full resolution up to the maximum original with of the working table.

The special guided lighting of the LED lighting system with a constant angle enables the OS HQ to reproduce even difficult originals free from reflection or shadowing. Reflections on shining surfaces or shadows in the book fold are optically corrected.

A CRI value of over 97 combined with optimally matched camera and lighting components enable excellent color rendering. The OS HQ sets the reference mark for high scanning productivity.

The OS HQ Scanner achieves the highest efficiency in the scanning process through the perfect interplay with tried and tested Zeutschel imaging systems for formats A1+ and/or A0+. Functions such as self-opening glass plates, sliding self-balancing book supporting plates and a scanning automatic system ensure the highest productivity levels.

The OS HQ Scanner is designed as a flexible modular system. If the requirements and tasks increase, it can be expanded in a modular way.

In addition, the settings of the OS HQ can be adjusted to the task at hand. For example, lighting time and aperture can be set variably.

Variable functions such as the optical zoom, adjustable exposure times or adjustable aperture of the OS HQ guarantee the highest image quality right down to the edges of the original.





Options and accessories:



Bookholder on Copyboard
OT 180 H 35 XL700

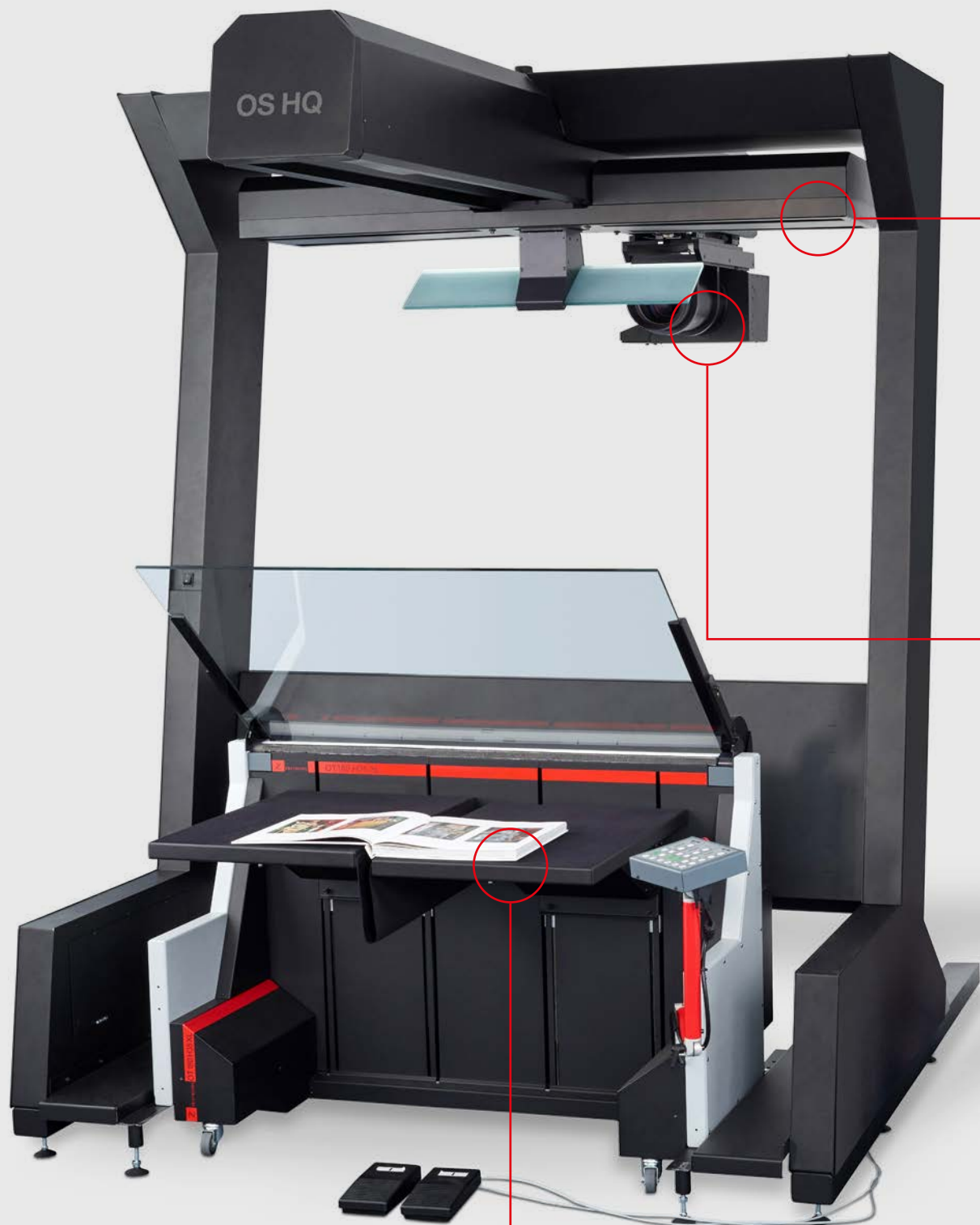


Kit 90°



Toplight Table AT 0 with
opened glass plate





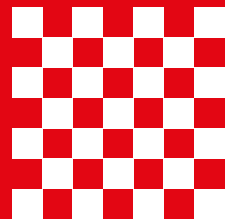
Made in Germany

Climate neutral production

Sustainable materials



Compliant to
ISO 19264-1 Level A
FADGI 4 Star
Metamorfoze Full



The advantages at a glance



LED lighting system for reflection-free and shadow-free results



GigaPixel camera system with a CMOS-based line sensor



High depth of focus – mechanically adjustable shutter



Wide range of interchangeable imaging systems

- RGB line sensor (3-channel, CMOS technology)
- Resolution of up to 1000 ppi
- Fulfills ISO 19264-1 Level A, Metamorfoze Full and FADGI 4 Star
- Internal image processing with 96 bit depth
- Data output in 48 bit/24 bit color and 16 bit/8 bit degree as well as 1 Bit b/w
- True RGB capture on each pixel (no color interpolation)
- Color rendering index of LED lighting CRI >97
- True parallel scanning
- Camera Link interface for fastest image transfer
- Optical zoom
- Variable lighting times and mechanical aperture settings
- OmniScan software with 48 bit data output
- Focused line lighting for glare-free operation
- Highest scanning speed
- Perfect Book – 3D scan technology for perfect book curve correction
- Parallel scanning and saving process based on 64 bit technology and multi-threading
- Scanning in both directions, forwards and backwards (bidirectional)
- High productivity based on ROI scan function (limitation of the area to be scanned)
- Color rendering corresponds to the original
- No UV/IR radiation
- No reflections with high-shine originals
- Ergonomic work method with or without glass plate

Technical data

OS HQ

Input and Camera	
Camera sensor	RGB line sensor (3-channel, CMOS technology)
Resolution	100 – 1000 ppi MeanMTF10 - at 600 ppi 10 lp/mm - with max. Zoom-in up to 14 lp/mm)
Camera system	wear-free mechanical shutter, variable exposure time, electronically adjustable aperture; automatic white and black balance, variable depth of focus
Max. scan area [mm]	1387 × 995 mm (depending on the copyboard system used)
Max. book thickness	with book cradle OT 180 H A0 – 220 mm with book cradle OT 180 H 35 XL700 – 350 mm with book cradle OT 180 H 50 XL – 500 mm
Scan mode	96 Bit
Scanning speed in A0 (from start to end of scanning process)	300 ppi – 7 sec. 600 ppi – 10 sec.
Scanner interface	Camera Link
Zoom	A0 – A1
Electrical data / safety	
Voltage	110 – 240 V
Frequency	50 – 60 Hz
Max. consumption	440 W
Safety inspections / authorizations	
Authorization in accordance with the IEC agreement	international authorization for the safety of IT products – includes EMC, electrical safety, device safety for CE, UL, ETL, CSA
LEDs tested in accordance with	IEC 62471:2006 "Photobiological safety of lamps and lamp systems"
Dimensions	
Width [mm]	1730
Depth (scanner including imaging system) [mm]	3200
Height [mm]	2305
Copyboard Systems	OT 180 H A0, AT 0, Vacuum Table A0, OT 180 H50 XL, OT 180 H 35 XL700, OT 180 H, OT 180, AT 1, OT 90, Vacuum Table A1
Accessories for imaging systems A1	Kit 90°, bookend 110° – 140°
Recommended working conditions	Temperature range: 18 – 35°C Relative air humidity, non-condensing: 80 %
Operating system	
Operating system	Windows 10 (64 Bit) – from OS 12.14 Windows 11
Scanning software	min. OmniScan 12.12 64 Bit

Technical changes reserved