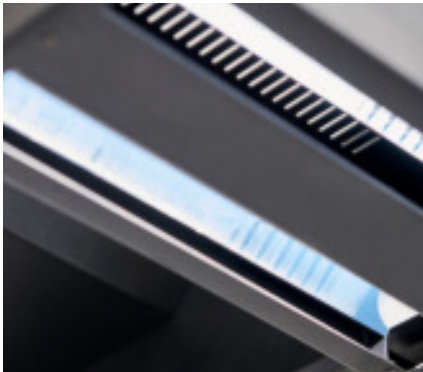


# OS HQ

Scanning in unprecedented quality



 **ZEUTSCHEL**  
Cultural Heritage is our Passion



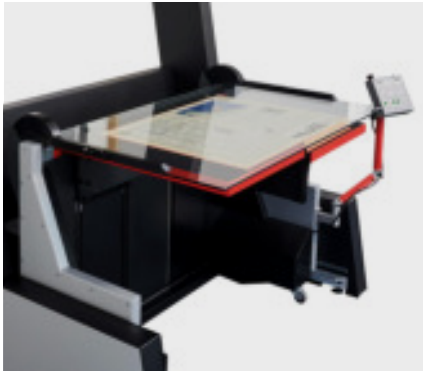
LED lighting system for reflection-free and shadow-free results



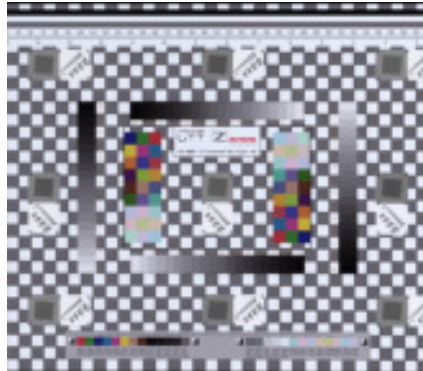
CMOS GigaPixel Camera system with optical zoom



Perfect interplay between high-quality technical components



Wide range of interchangeable imaging systems



Fulfills ISO 19264-1 Level A, Metamorfoze Full and FADGI 4 Star



High depth of focus – mechanically adjustable shutter



Bookholder on Copyboard OT 180 H 35 XL



Kit 90°



Toplight Table AT 0 with opened glass plate

# 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 even when scanning formats larger than A0.

The scanning system features a completely self-developed exclusive GigaPixel camera system based on CMOS technology. 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 width 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.



### Compliant to

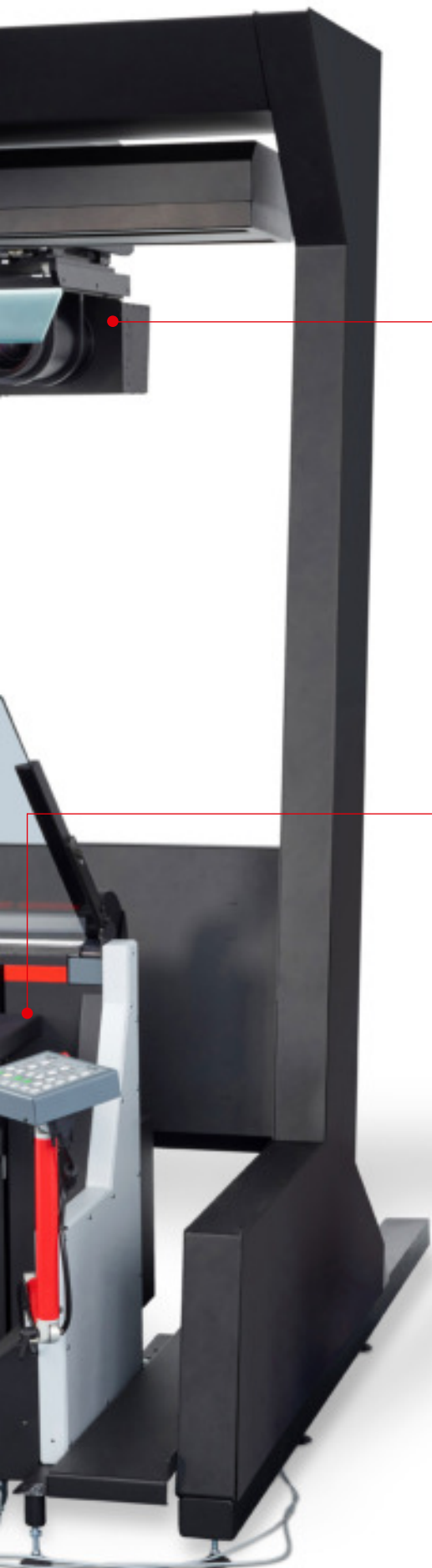
ISO 19264-1 Level A  
FADGI 4 Star  
Metamorfoze Full



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

Perfect interplay between high-quality technical components

Ergonomic work method for the highest quality demands



Completely new and self-developed GigaPixel camera system based on a CMOS sensor

Wide range of interchangeable imaging systems

## Product advantages

- 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
- Copyboard systems for a wide range of formats
- 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

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	1387 × 995 mm / 54.6" × 39.17" (depending on the copyboard system used)
Max. book thickness	with book cradle OT 180 H A0 – 220 mm / 8.66" with book cradle OT 180 H 35 XL – 350 mm / 13.78" with book cradle OT 180 H 50 XL – 500 mm / 19.69"
Scan mode	96 bit
Scanning speed (from start to end of scanning process) in A0	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	1730 mm / 68.11"
Depth (scanner including imaging system)	3200 mm / 125.98"
Height	2305 mm / 90.75"
Copyboard Systems	OT 180 H A0, AT 0, vacuum table A0, OT 180 H50 XL, OT 180 H35 XL, OT 180 H, OT 180, AT 1, OT 90, vacuum table A1
Accessories for imaging systems	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)
Scanning software	min. OmniScan 12.12 64 bit

Technical changes reserved



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