



# OS A Multispectral

**Beyond visible.  
Beyond limits.**



# OS A – Multispectral Imaging Reimagined for Cultural Heritage.

## A New Standard in Multispectral Digitisation

The multispectral imaging option transforms any Zeutschel OS A1 or OS A XL/XXL system into a fully integrated, high-performance multispectral capture platform. Existing production environments can be upgraded without changing established workflows. At the same time, the system continues to operate as a standard 100 MP OS A scanner for everyday digitisation, allowing users to switch between conventional and multispectral imaging with a single mouse click. Powered by the Fujifilm GFX100 II IR camera, advanced optical filtering ensures exceptionally clean spectral band separation for maximum image fidelity across ultraviolet, visible, and infrared wavelengths. The GFX100 II IR supports true colour capture in 4- and 16-Shot Mode on the fly to produce interpolation free, high-resolution, true-colour images — ensuring maximum detail and image fidelity. Built on the CHARISMA-compliant multiband imaging methodology, the system delivers standardised, repeatable, and scientifically validated capture from UV through VIS to IR, making it ideal for cultural heritage preservation, archives, research, and forensic applications.

## Integrated Multispectral Illumination

The fully synchronised imaging architecture guarantees identical imaging geometry across all spectral channels. VIS, UV, and IR illumination are permanently integrated within a single optical assembly, ensuring perfectly repeatable acquisition conditions for every capture. Dedicated optical filters produce pure UV illumination and precise spectral separation, while highly efficient LED technology delivers outstanding performance with 80W UV and 40W IR illumination power. Complete integration into the Omniscan workflow provides precise calibration of exposure, white balance, shading, geometric scale, and reflective imaging for VIS, UV, IR, as well as luminescence capture. Full CHARISMA stack acquisition is supported with intuitive user guidance, while individual or custom spectral combinations can be captured whenever required.

## Why Multispectral Imaging Matters

Multispectral imaging reveals information beyond the limits of visible-light digitisation, including erased or overwritten text, faded inks, restoration interventions, material differences, and hidden structural details. Its combination of scientific precision and production efficiency makes it an invaluable tool for high-quality digitisation, forensic investigations, material analysis, restoration support, and structural research.



*Visible reflective image*



*Reflective IR image  
exposed to IR illumination*

| Technical Data          | Multispectral                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Camera                  | Fuji GFX100 II IR                                                                                                         |
| Lens                    | GF63mmF2.8 R WR                                                                                                           |
| Spectral Range          | 365 m - 1100 nm                                                                                                           |
| Illumination            | VIS LED (CRI > 95), dedicated UV LEDs, dedicated IR LEDs                                                                  |
| Lighting                | Fully integrated, adjustable position, same multi-spectral light housing                                                  |
| Live View               | yes                                                                                                                       |
| Workflow System         | CHARISMA-compliant automated imaging and stacking                                                                         |
| Imaging Modes           | Reflective, transmissive, multiband, multispectral (VIS_R-vis, VIS_L-uv, IR_R-ir, IR_L-uv, IR_L-vis, UV_R-uv, FCIr, FCUV) |
| Calibration             | Fully automated cross-spectral calibration                                                                                |
| Filters                 | Magnetic quick-exchange filter system                                                                                     |
| Image Quality Standards | ISO-19264-1 Level A, Metamorfoze, FADGI 4* (applies to VIS-R imaging only)                                                |
| Platform                | OS A1 and XL/XXL systems (retrofit capable)                                                                               |
| Optional Module         | Multishot / backlight table                                                                                               |
| Software                | OmniScan 12, 64-bit                                                                                                       |

## Get in touch



(024) 7625 4955



[www.genus.uk](http://www.genus.uk)



[info@genus.uk](mailto:info@genus.uk)



Hammond Close, Attleborough Fields  
Industrial Est, Nuneaton, Warwickshire,  
CV11 6RY, UK



- Digitisation Solutions
- Scanning & Capture Services
- Document, Book & Microfilm Scanners



- Microfilm Solutions
- Fujifilm
- Conversion Services
- Conversion Hardware



- Technical Support
- Hardware Support
- Software Support



- Content Management
- Electronic Document Management
- Digital Asset Management



- Print Solutions
- Design & Print
- Web