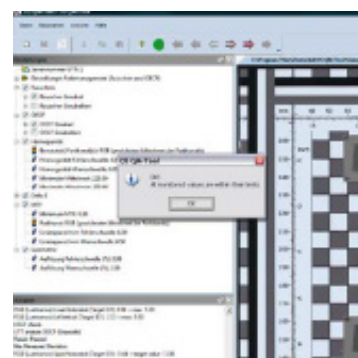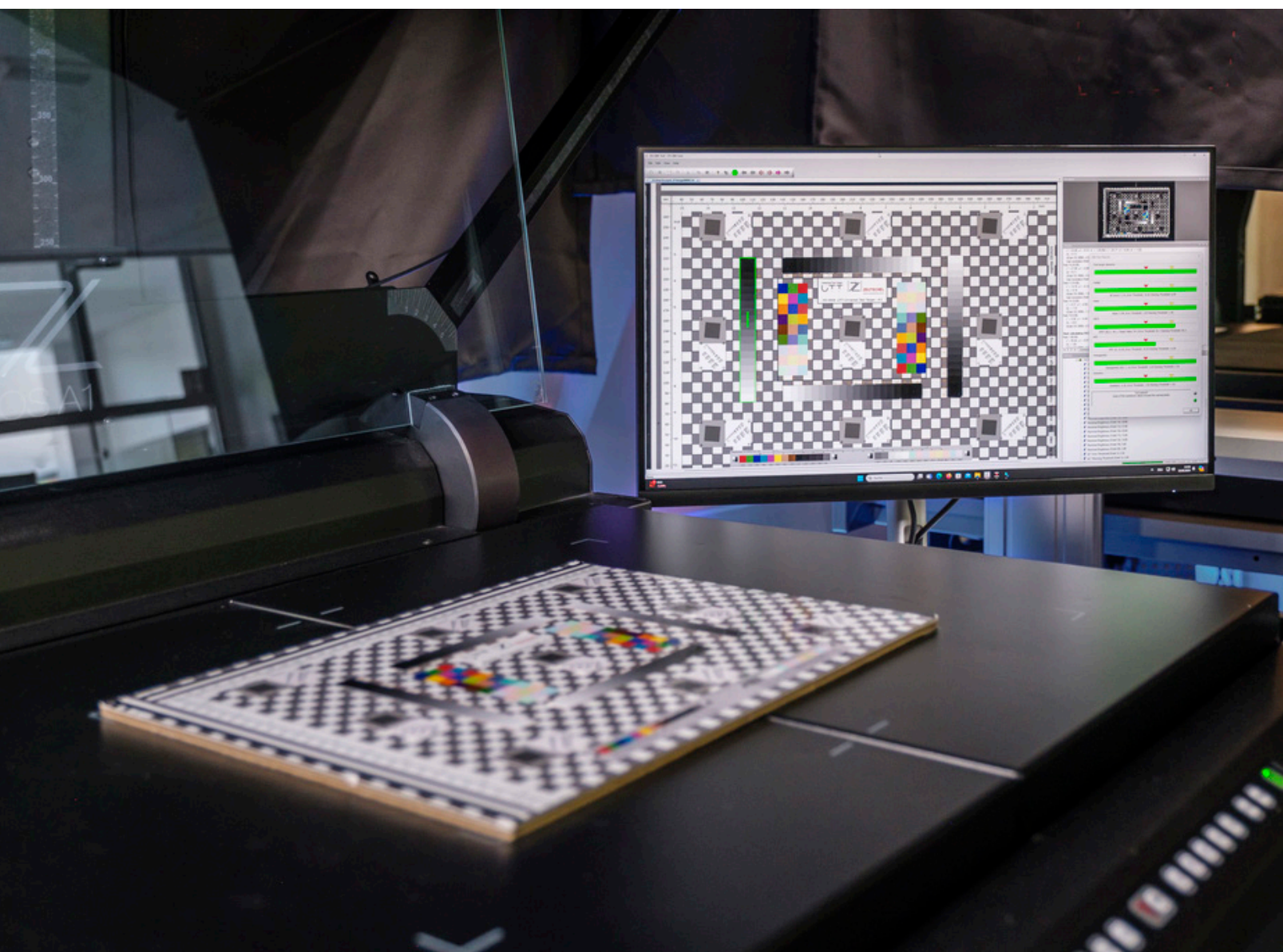# OS QM

Zeutschel

OS QM-Tool

The software for better image quality.

Ensuring consistently high quality during the demanding mass digitisation of library and archival collections thus far has been very labour intensive and time consuming and, consequently, expensive and error prone. Furthermore, there still is no practice that would ensure the comparable application of national and international standards.

With its OS QM Tool, Zeutschel now offers software that makes it possible to analyse almost all relevant quality characteristics through the analysis of a single scan and to evaluate these on the basis of selectable standards and all that in only a few seconds. Moreover, the direct integration into the scanning software allows you to ensure the high quality already achieved during the scanning process.

By means of the ISO 19264-1 conforming Universal Test Targets (UTT) all relevant parameters are captured with only one scan. OS QM-Tool can analyse these parameters and determine within a few seconds whether or not an image meets the required standard. This makes it possible to automate quality control and to conduct it 'in-line' during the production process. It no longer has to run as a time consuming process parallel to the production.

With regular use of the UTT, for example every 100 or 200 scans, the compliance of image quality can be continuously verified. This saves both time and money not just when digitising masses of books.

Product Advantages

- Easy to use
- Automatic workflow
- Support of all sizes of UTTs and the most common
  alternative test targets
- Processing of the individual reference data of the targets
- Automatic target recognition and evaluation
- Analysis of all quality relevant parameters in one scan
- Useable for analysis and checking of image quality acc.
   to ISO 19264-1 Standard,
- Metamorfoze and FADGI Guidelines
- Evaluation parameter data can be saved and reloaded
- 2-step evaluation results with limitations and warning levels
- Detailed adjustable warning and error levels
- Traffic light presentation of evaluation results at a glance
- Detailed reporting – Output of the test reports as a detailed report
- Additional export of the rest results in .csv format possible
- ICC-conforming processes
- Quick batch processing by command line control also possible

Universal Test Target (UTT)

Test of following quality parameters

Noise according to ISO 15739 and ISO 21550

- Test as standard deviation in L* or RGB colour space
- Colour channel selective analysis

OECF according to ISO 14525 and ISO 21550

- Analysis selectable according to CIE 1976, 1994, 2000, 2000 SL1
- Im L*a*b* or converted into any RGB target colour space

- Analysis of dC, Δa*b* and dE in gray scale with separately adjustable limit levels
- Analysis of gain modulation

MTF according to ISO 12233 and ISO 16067-1

- MTF 10
- MTF 50
- Sampling Efficiency
- Channel registration
- Maximum modulation

Geometry according to ISO 17850

- Ratio of claimed and obtained sampling rate
- Distortion in percent for X / Y
- Barrel or pin cushion-distortion

Colour reproduction Delta E according to CIE 15 and ISO 14524

- Adjustable analysis according to methods CIE 1976, 1994, 2000, 2000 SL1
- Detection of mean dE
- Detection of max. dE
- Homogenity according to ISO 17957
- Determination of the deviation from the mean value
- Setting of a corridor
- Test in L* or RGB luminance or colour channel, selective
- Test of colour gradient over the scan area (Δa*b* over field)

Technical Parameters

- Runs with Windows 10 operating system
- Support of following Test targets: UTTs in Format A3-A0,
- Color Checker Classic, Color Checker SG, IT8.7/1 for top light,
- IT8.7/2 for back light, Q13 gray scale targets
- Individual reference data can be loaded for each target
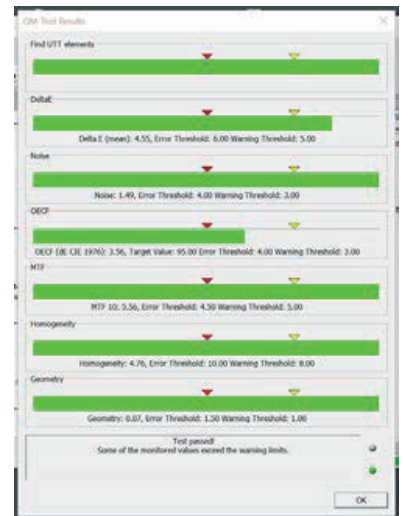
Clear Presentation of the Test Results