



**Digitization
of Microbial
Specimen**

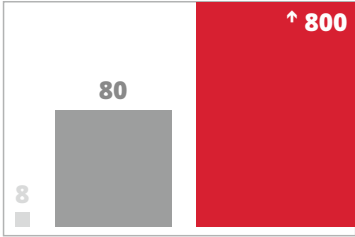
Metafer
Gram Imaging
Application Package

Automated Specimen Processors (e.g., Copan WASPLab®)

CASE DATA TRANSFER



Once Gram slides become available, Metafer can read in detailed processing protocols from the LIS and will create respective scanning tasks.

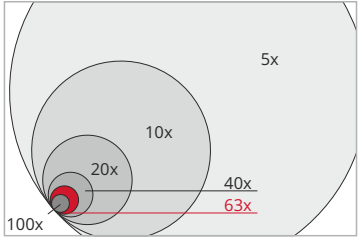


Scalability
Metafer software supports specialized hardware which allows to flexibly adapt the throughput to the respective requirements. Thus, from 8 up to 800 slides can be digitized in one run.

DENSITY OPTIMIZATION



Using a low magnification lens, Metafer generates a sample overview and identifies the regions of interest based on the density of the sample.



Flexibility
Metafer users can choose from many different magnifications. Thus, overview scans can be combined fully automatically with high-resolution imaging.

HIGH-QUALITY DIGITIZATION

The regions of interest scanned at high magnification and images are processed based on the respective conditions and can be user defined.



Versatility
Metafer supports various imaging methods the microscope has to offer. Color, brightfield, fluorescence, phase contrast is easy with Metafer.



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AI-BASED PRE-ASSESSMENT



Optionally, artificial intelligence algorithms can be adapted to allow for pre-selection and classification of objects that are presented to the experts for review.

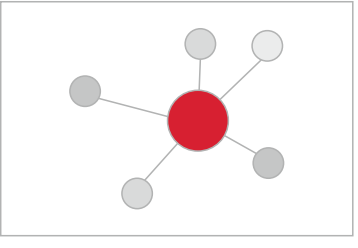
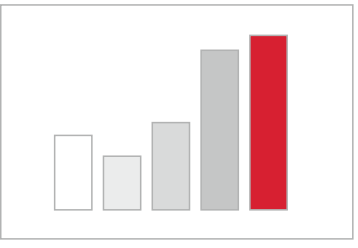
BACKLINK AND VERIFICATION



All collected data including the images are stored on a server accessible by all stations. A link is published allowing for direct access to the data from other softwares.

Digital Microbiology Application
(e.g., WASPLab® WebApp)

of interest are
n magnification
stored (number
of the images
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Intelligence

Deep Neural Networks (DNN) facilitate the automated pre-selection of target objects in the images.

Connectivity

Digitized samples are accessible in the network and can be loaded to the analysis panels of other softwares.





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The described functions refer to the following software versions: **Metafer 4.3**

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Gram Imaging is an application-specific adaptation of the Metafer software. It is possible that further adaptations to specific specimen conditions are necessary.

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