

Definiens

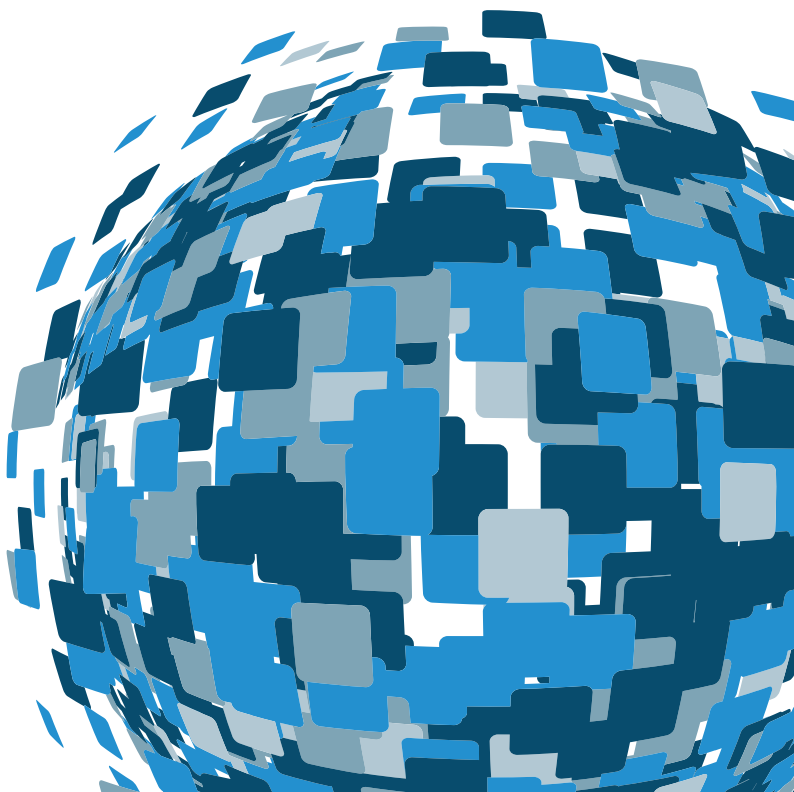
Image Miner® 2.1.1

32-bit and 64-bit Edition

Release Notes

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Definiens Documentation:

Image Miner® 2.1.1

Release Notes

Imprint

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Dear User,

Thank you for using Definiens software. We appreciate being of service to you with image intelligence solutions. At Definiens we constantly strive to improve our products. We therefore appreciate all comments and suggestions for improvements concerning our software, training, and documentation. Feel free to contact us via web form on the Definiens support website www.definiens.com/support

Thank you.

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1 Overview

Definiens Image Miner[®] integrates image analysis technology with data mining. This allows large datasets to be correlated against therapy responses and patient outcomes: a powerful tool when looking for biomarkers with diagnostic, predictive or prognostic value. Definiens Image Miner fully integrates with Definiens Developer XD[™] and Definiens Tissue Studio[®] products. Definiens Image Miner additionally allows importing third-party data.

Definiens Image Miner offers the following key features:

- Enables development of specific image and data mining applications
- Workflow management of automated iterations between image analysis and data mining for high productivity and short development cycles
- Powerful machine-learning algorithms for data mining
- Interactive visualization of high-volume image analysis results
- Support for development and quality control, with seamless links between data points and their associated regions
- Scriptable data and image mining using Definiens Cognition Network Technology[®] language
- Multiple options for visualizing and analyzing the data extracted from your image analysis, ranging from standard plots to specialist statistical analyses.

1.1 About Definiens Image Miner 2.1.1

Definiens is delighted to bring version 2.1.1 of Definiens Image Miner to you. The main goal of this release is making users more productive, accelerating the whole process from digital image to final result. We recommend all customers to update to this new release. Please have a look at these new features:

1. Sampling during data import to efficiently cope with large data volumes
2. Fast and efficient review of large, whole slide images for quality control and result interpretation
3. Smooth integration with Definiens Tissue Studio and Developer XD for fast path to final result
 - Direct interaction between products
 - Metadata that is imported into Definiens clients is directly available for data grouping, data visualization and result interpretation
4. New workflow for iterative improvement of results, e.g. to correct for outlier images

2 New Features, Bug Fixes and Errata

2.1 New Features

See [table 2.1](#) on this page, *New Features in Image Miner 2.1.1*.

Table 2.1. New Features in Image Miner 2.1.1

Category	Reference	Description
Import	20654, 20655	New joined import for workspaces from both Developer XD and Tissue Studio, allowing specification about sub sampling strategy (random, systematic, none)
User Interface	20353, 20424	Import and display of whole slide review images, if available
User Interface	20436	Image equalization settings can be changed
User Interface	20638, 20639	Interaction between object statistics tables and corresponding image objects in Image Viewer
User Interface		Parent-child table concept in review mode allows analysis of project and object statistics slide-by-slide
Product Integration	20368	Open Tissue Studio workspace from Image Miner
Product Integration	20396	New training set for Tissue Studio workspaces can be created from Image Miner

2.2 Bug Fixes

See [table 2.2](#) on the next page, *Bugs Fixed in Image Miner 2.1.1*.

Table 2.2. Bugs Fixed in Image Miner 2.1.1

Category	Reference	Description
Algorithms	19985	Fixed error at ruleset execution of top-most parent process
Algorithms	30145	Update Column Value and Append New Column both handle the user input as unescaped text (e.g. accept backslash operator in file paths)

2.3 Known Issues and Limitations

See [table 2.3](#) on this page, *Known Issues and Limitations in Image Miner 2.1.1*.

Table 2.3. Known Issues and Limitations in Image Miner 2.1.1

Category	Description
Memory	Definiens Image Miner 32-bit has a limitation of 2GB of memory. If you need to process very large tables, or if you want to use the whole slide reviewing capabilities of Image Miner, we strongly recommended the 64-bit edition of Image Miner and the corresponding Image Miner Server. Using the 32-bit version may lead to software instability and in some situations the application may crash.
Server-Side Processing	If the Job Scheduler is not available when using Submit Analysis, Image Miner will make repeated attempts to connect to it. This may cause the client to hang until an error message is generated (“Error: We could not submit the analysis”)
Algorithms	If a table is used in a condition field (e.g. with If or While algorithms) and the table name contains a space, the algorithm may not work. Workaround: Use _G[“table name”] instead to access the table with the space in the table name.
Algorithms	The algorithm Copy Rows to New Table does not allow a hyphen (-) in the table name.
Algorithms	In Review Mode, the algorithm Save Tables with Layout does not save all child tables of a workspace, but just a single child table per tab.
User interface	On some systems, you may hear a noise when using drop-down lists in the Process Editor. You may wish to turn off your system sounds as a temporary fix.

2.4 Document Errata

None

3 Additional Information

None.

3.1 Contact

If you have any additional questions, please contact your account manager or email support@definiens.com.

Acknowledgments

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