



**Versatility –**  
giving you the freedom to work  
with your favorite equipment.

## 1. Graphical User Interface (GUI)



# Graphical User Interface (GUI) of JENOPTIK GRYPHAX® software

### General description:

JENOPTIK GRYPHAX® software is a modular and platform independent software for state-of-the-art microscopy. It contains camera control and image processing to optimize by a wide range of techniques.

The “[Graphical User Interface](#)” of the JENOPTIK GRYPHAX software is platform independent and delivers identical GUI and functionalities under Windows, MacOS and Linux.

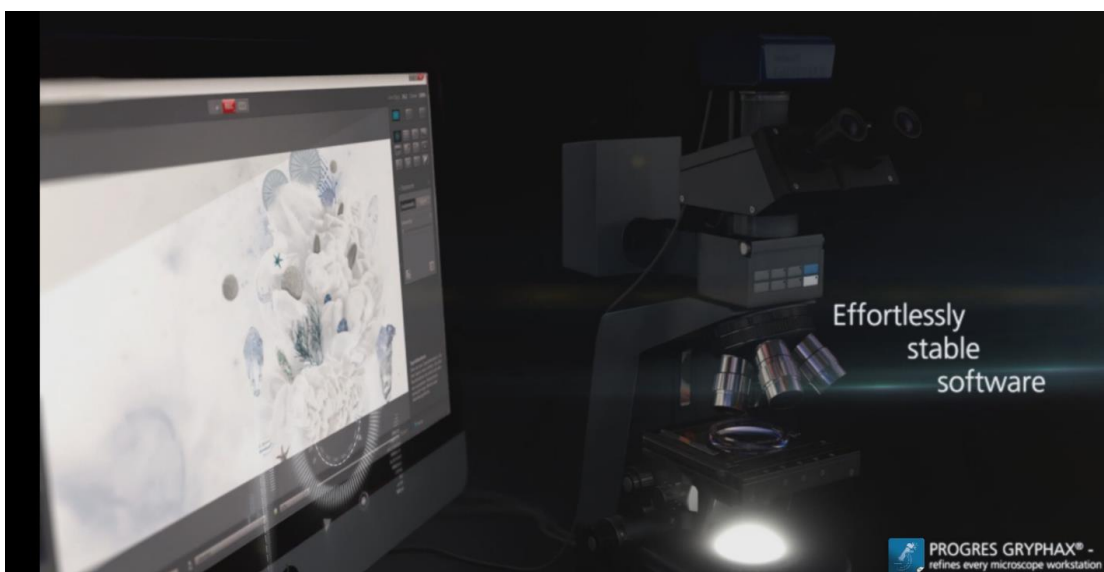
The interface is divided into **three main areas**. In the [center screen area](#) of the interface is the image window to display live preview from camera or loaded media files from Gallery.

At the [left-hand site](#) are the Gallery tool and the Treeview located. They provide an easy and fast overview about advance file management and displays all images and media files as thumbnails.

On [right-hand site](#), the toolbar provides access to record modes and all image processing enhancements tools. Additionally, tools to measure and annotate and image acquisition modules like “[Panorama](#)”, “[Z-Stack](#)” (EDF) or [Multi-Fluorescence](#) are available.

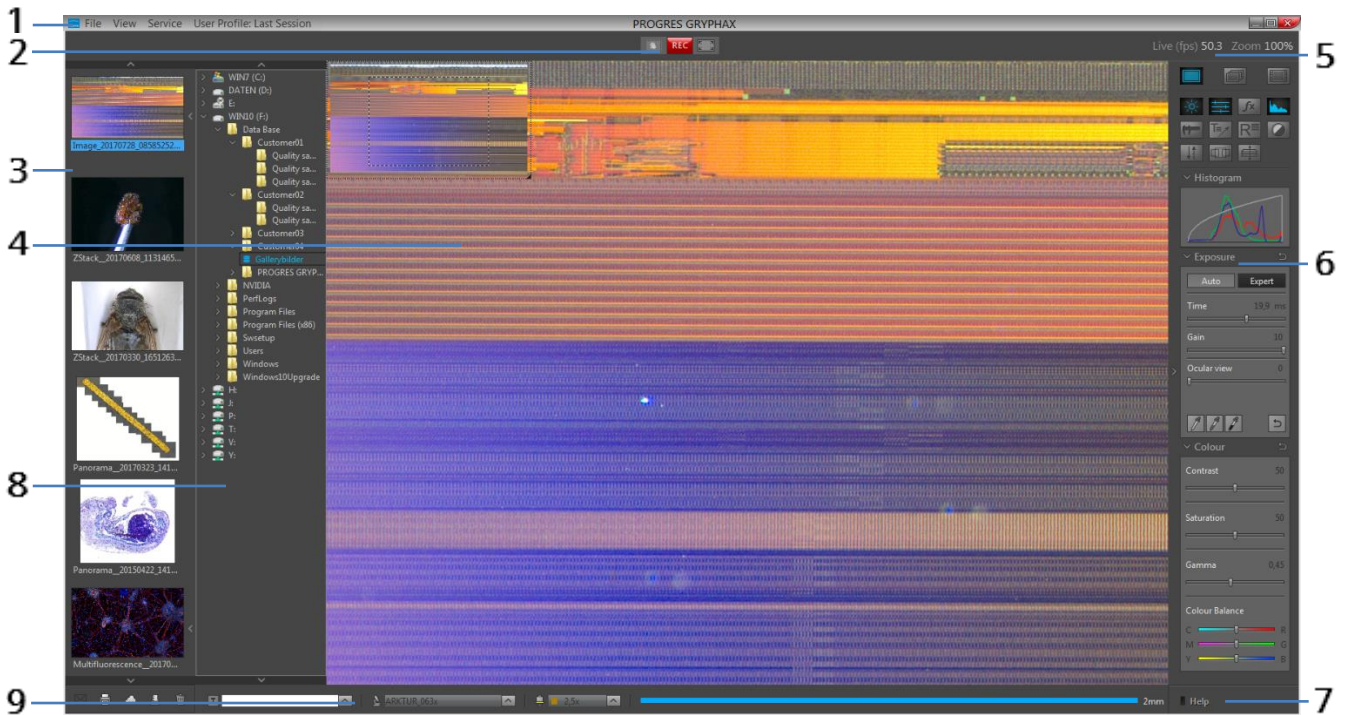
### Video tutorial how to install JENOPTIK GRYPHAX software:

[Press the link](#) to watch the video tutorial for **installation** of JENOPTIK GRYPHAX software.





### 1.1 Overview of JENOPTIK GRYPHAX interface:



- |             |                |              |
|-------------|----------------|--------------|
| 1 Title bar | 4 Image window | 7 Help bar   |
| 2 REC bar   | 5 Header       | 8 Treeview   |
| 3 Gallery   | 6 Tool bar     | 9 Status bar |

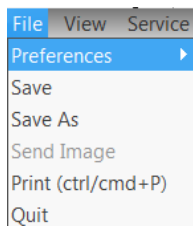
### 1.2 Title bar:



The title bar of JENOPTIK GRYPHAX software contains the menu bar to access all menus you need to manage, edit or to change views. Additionally, you have quick access to create and change current user profiles.

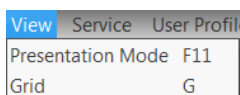
- Minimize program window
- Maximize program window

- Change program window size to any selected
- Close program window | short cut (alt + F4 / cmd + Q)



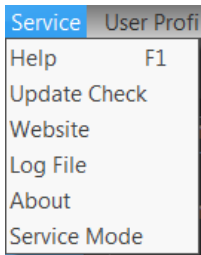
#### File menu:

- Enter software Preferences
- Save copies of selected media files to alternative destinations
- Print selected images from Gallery
- Quit software



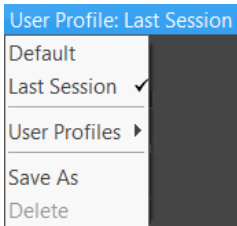
#### View menu:

- Change to Presentation mode
- Activate / deactivate Grid mode overlaid at image window



#### Service menu:

- Help – open JENOPTIK GRYPHAX FAQ website
- Update Check – starts download page to check for software updates
- Website – open JENOPTIK GRYPHAX website
- Log File – open software log file for trouble shooting
- About – displays software information
- Activate “Service Mode” for trouble shooting – saves special tiff image with log files



#### User Profile:

- Default – reset back the factory “default” software settings
- Last Session – change back to last stored session settings of software
- User Profiles – open list to select or change already created user profiles
- Save As – save current software settings to user profile (op. password protection)
- Delete – selected user profile from list

Also current user profile e.g. “Last Session” will be displayed directly at title bar and updates accordingly.

Note: Double-click on title bar changes between maximizes program window view and reduced program window view to any selected size.

### 1.3 REC bar:



The **REC bar** is the most important tool of the JENOPTIK GRYPHAX software. It controls all image capture and file save. The status of the REC bar buttons is changing accordingly to status of software.



**REC** button indicates live preview is running, by pressing button images will be captured to Gallery



**LIVE** button indicates that no live preview is running and an image from Gallery is displayed instead



**STOP** button indicates recording / capturing is activated, pressing button stops record / capture process



**Magnifier** button – activates magnifier glass to observe important image areas and display current and maximum focus level by “**focus indicator bar**”

Note: During Magnifier mode, Zoom level of displayed image from image window can be changed by keyboard key: “+” or “-” to **zoom in** or **zoom out**.



**Arrow tool** button – to change back to standard mouse pointer “arrow” to select or adjust e.g. overlays of measurement or annotations



**Hand tool** button – to activate hand tool during “1:1” view or **Zoom**. Mouse pointer change to “hand” and image section can be moved.



**“1:1”** button indicates that “Fit to Window” is active, pressing button changes to “1:1” view



**Fit to window** button indicates that “1:1” view is active, pressing button changes to “Fit to Window” view




**Objective** button\* of calibrated objectives to **quick-change** objectives by mouse click at GUI. Scale bar and Status bar will change accordingly.

Moreover, objective buttons visually indicates the current selected magnification by highlighting. Up to 6 objectives / measurement calibrations can be displayed on Rec bar.

In addition, it displays the value by mouse over tool tip  and on help section of tool bar. 

## 1.4 Tool bar & Help bar:


To **open** the JENOPTIK GRYPHAX tool bar by pressing the arrow  on right-hand software site or use keyboard short cut (**ctrl / cmd + T**)

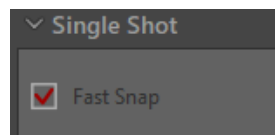
The Toolbar is divided in 4 parts and contains the following sections:

- **1 Record modes** – to change between record modes: “Single shot”, “Time-lapse”, “Video record” or “SlowMotion video”
- **2 Tools section** – to activate / deactivate tools
- **3 Active tool section** – displays activated tool widgets
- **4 Help section** – shows tooltips and help information of tools by mouse over


Tool status:


- Activated tools are highlighted in **blue**.
- Tools, which are not access able, are “greyed out” by software automatically and cannot be reached.


Mode “Single shot”  is default recording mode. Check box on widget to activate **Fast Record** mode. If checked, recorded images will be taken from the **live view stream** instead of making camera shot! Capture settings from Preferences will be ignored!



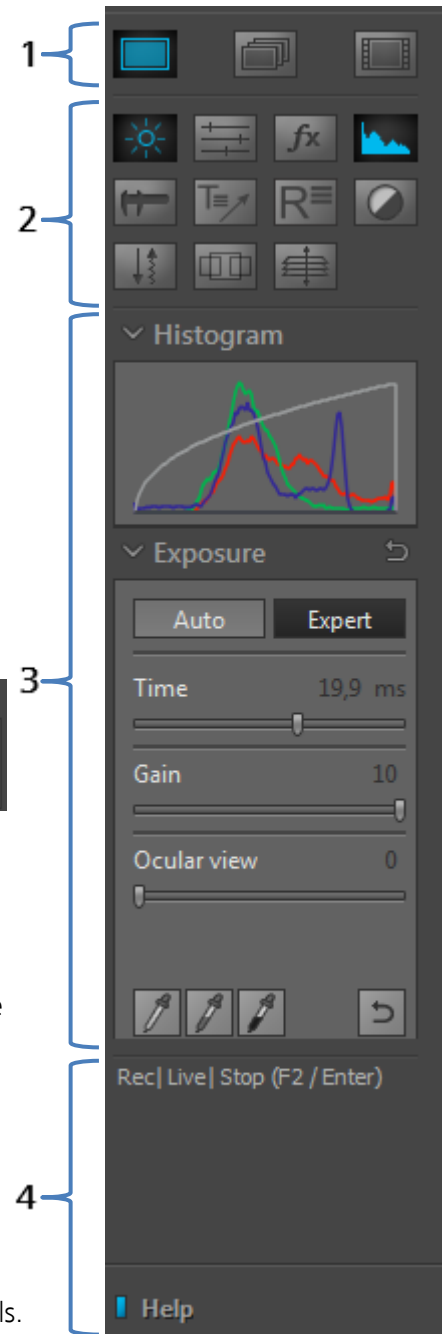
Note: Fastest record mode in combination with activated option *auto save*.

**Collapse / expand**  button on each tool to hide separate widgets on active tool section.

**Reset** button  on a tool widget sets all properties to their initial values. Initial values are fixed by factory settings.


To activate or deactivate “Help” section, click on the Help icon  on help bar. Active help section is indicated by **blue** icon.

Note: Status and accessibility of tools depending on previously activated tools. Not all tools and options can be activated at the same time!



## 1.5 Gallery:

The “**Gallery**” of JENOPTIK GRYPHAX software enables user to preview and display all saved media files of media destination folder or from selected destination path of “*Tree view*” tool easily inside of JENOPTIK GRYPHAX software.

To **open** the GRYPHAX Gallery by pressing the below arrow  on left-hand software site or use keyboard short cut (**ctrl / cmd + G**).

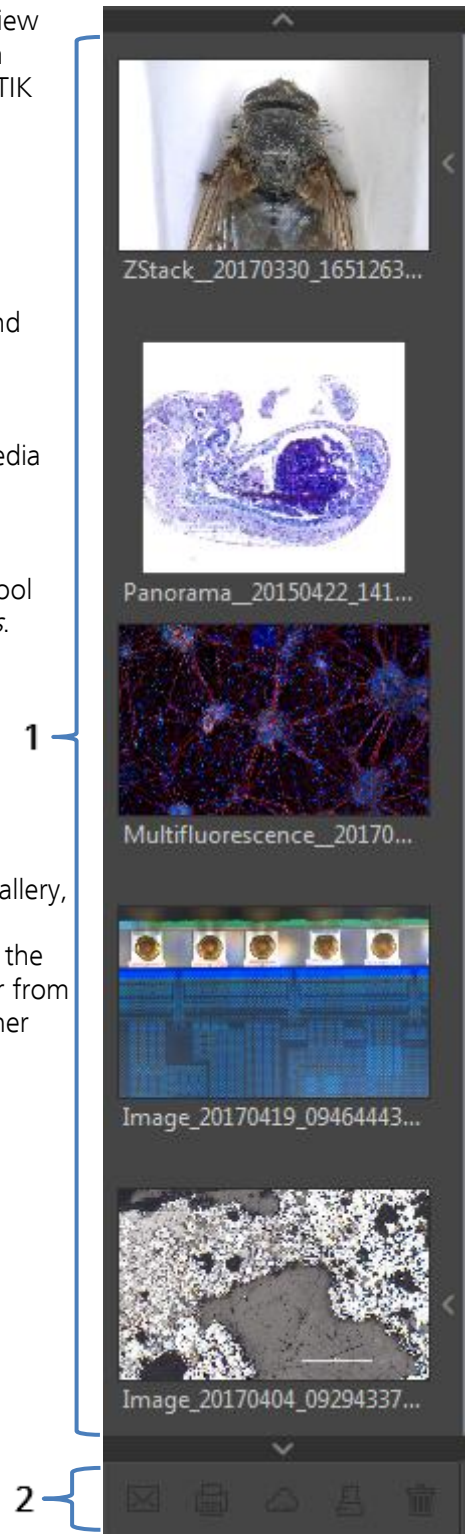
The Gallery consist of two parts. The **Gallery preview window** (1) and the **Gallery bar** (2).

The Gallery windows shows the media files thumbnails from top to bottom in order of the file time stamp. New recorded images or media files will be add on top position at Gallery preview window.

To **change** the media destination folder you can use the Treeview tool or change folder at the software preferences under *storage options*.

At the Gallery preview window you can use operation system typical short cuts (e.g. ctrl + A; shift key + mouse click) to select items.


Note: The more images are stored in a folder and are loaded in a Gallery, the longer it will take to display a single image. To enable an easier workflow with JENOPTIK GRYPHAX, we recommend you to reduce the number of images in the target folder by changing the target folder from time to time, by deleting some images or by copying them to another folder.





## 1.6 Treeview:

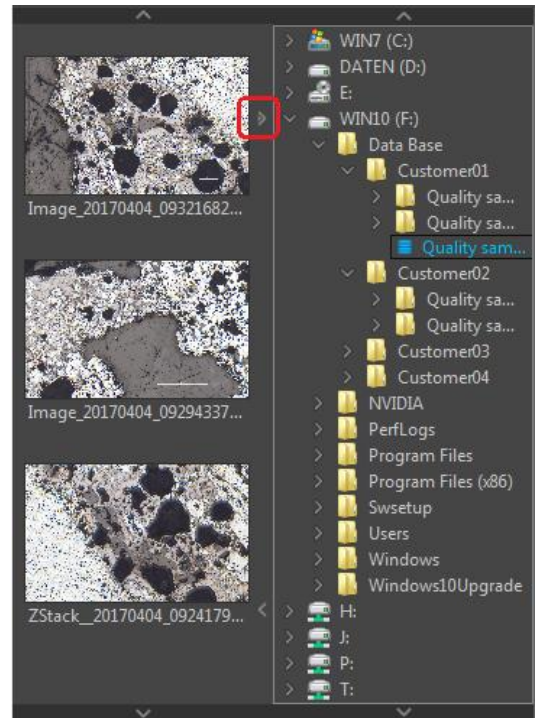
The Treeview tool is located on the left software side next to the Gallery. It can be used with and without opened Gallery. Treeview deliver two different sizes: “**Narrow**” or “**Wide**” view to display the media target tree.

To [open](#), [expand](#) or [close](#) of the Treeview tool press the top left arrow  on the left-hand software side or use the keyboard short cut (**ctrl / cmd + D**).

Note: After [first software start](#) the Treeview tool is starting and displaying the default destination folder of operating system “own Pictures” from current user.

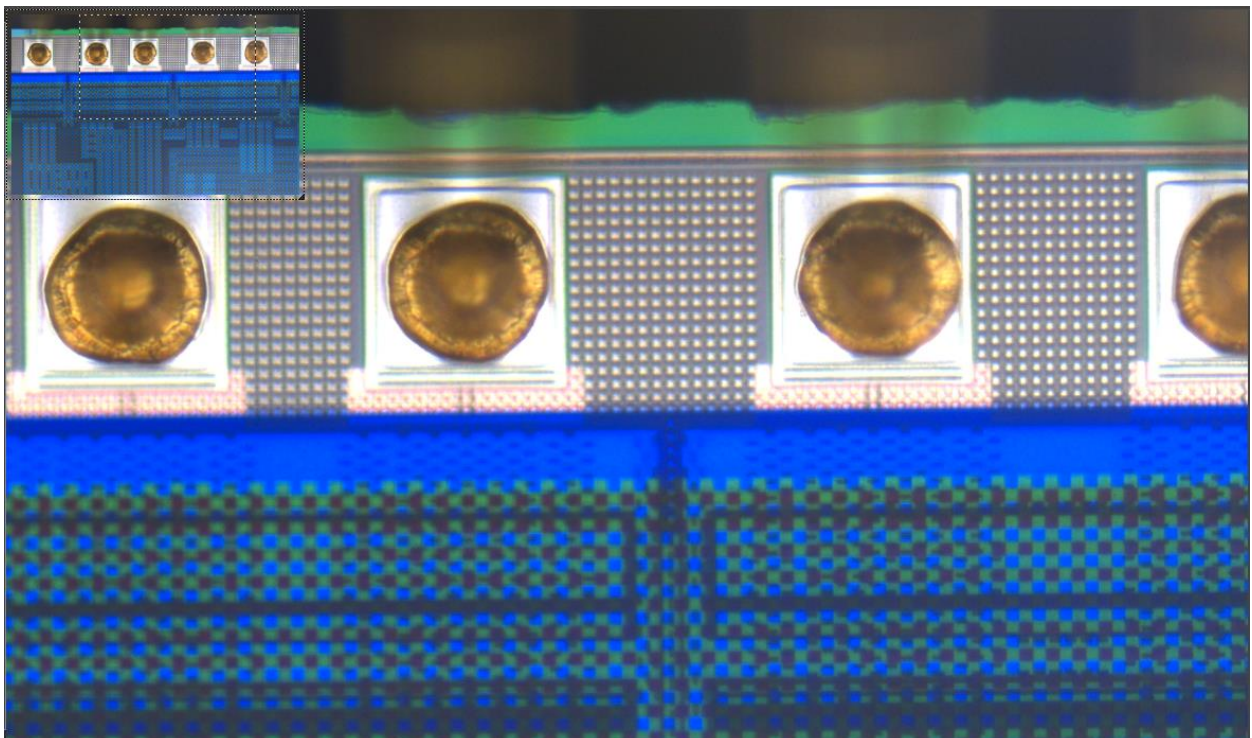
Alternatively, the Treeview is automatically displaying and using the [last used destination folder](#) from last software session or from activated user profile settings.

The media destination folder of Treeview is always synchronized with settings of software preferences under section *storage options*.



## 1.7 Image window:

The **image window** is the [main software area](#). All other tools can be hidden to have full focus at live preview from active camera or at loaded images from Gallery.





Additionally, a small overview window will be displayed over the image at "1:1" view. The currently displayed part of image is marked as rectangle. The position (ROI) can be moved by mouse operation. Also, size and position of overview window can be changed by mouse operation.

Note: A [full screen view](#) without any software GUI can be activated by "Presentation" mode under menu: "View" at the title bar or by keyboard short cut (F11).

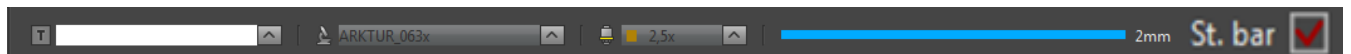
## 1.8 Header:

The header section of program window is displaying the following information from image window.

**Frame Rate** – Indicates the current frame rate in frames per second (**fps**) delivered by the active camera.

**Zoom factor** – Indicates the current zoom level (in %) of displayed image from image window.

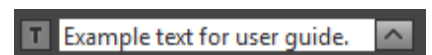
## 1.9 Status bar:



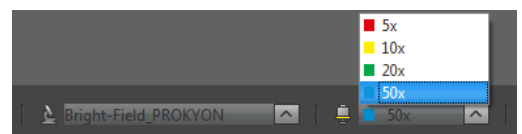
The **status bar** of JENOPTIK GRYPHAX software contains **powerful options** to operate work-flow optimized and intuitive directly at software GUI.

The status bar is divided in 5 sections – text field, device configuration, calibrated objectives, scale and check box\* to add status bar to recordings.

**Text field** – to enter a comment or notification which is directly saved to the status bar of recorded images.



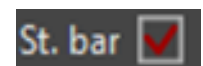
User can **fast** switch between created **device configurations** and **calibrated microscope objectives** to apply correct measurement calibrations and scale for the live preview image from camera.



Additionally, the **scale bar** is **displayed** according selected objective.



Status bar **check box\*** to quick **enable / disable status bar** added to recorded images. This option is synchronized to software preferences settings. (\*as of V2.2.0 or newer)



Note: Loaded images from Gallery with included meta-data calibration are displaying the correct values and scale automatically and independent from selected device or magnification of status bar.

## 1.10 Video tutorial:

[Press the link](#) to watch the video tutorial for Graphical User Interface (GUI) of JENOPTIK GRYPHAX software.