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User Guide for Reporting & Statistics tool of JENOPTIK GRYPHAX® software

General description:

The GRYPHAX Reporting & Statistics Tool* enables users to create reporting documentation based on templates and analyze measurement statistics of images.

Overview:

Report editor and statistics tool <u>activated simultaneously</u> with GRYPHAX software:
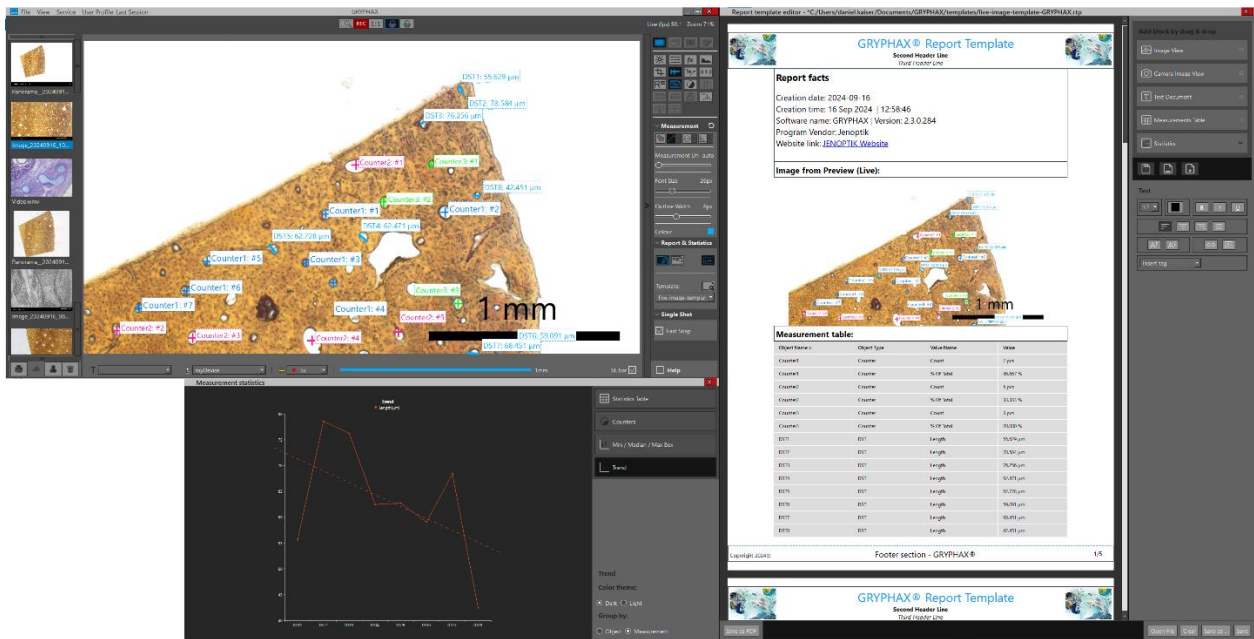
Preparations general:

To use the GRYPHAX reporting tool efficiently, user shall **create own reporting templates** for JENOPTIK GRYPHAX application. Two template examples are supplied as blueprints during software installation. File location: "C:\Program Files\Jenoptik\GRYPHAX-V2.3.0.xxx\bin\templates"

<u>NOTE:</u> The display of the measured values in tables and the statistical evaluation are limited to the display of the current image from image window of GRYPHAX GUI!

*(Available as of GRYPHAX V.2.3.0 and newer)

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Start Reporting tool:

To activate the *Reporting tool* open the GRYPHAX Tool bar by pressing the arrow ▶ on right-hand software site or use keyboard short cut (**ctrl / cmd + T**)
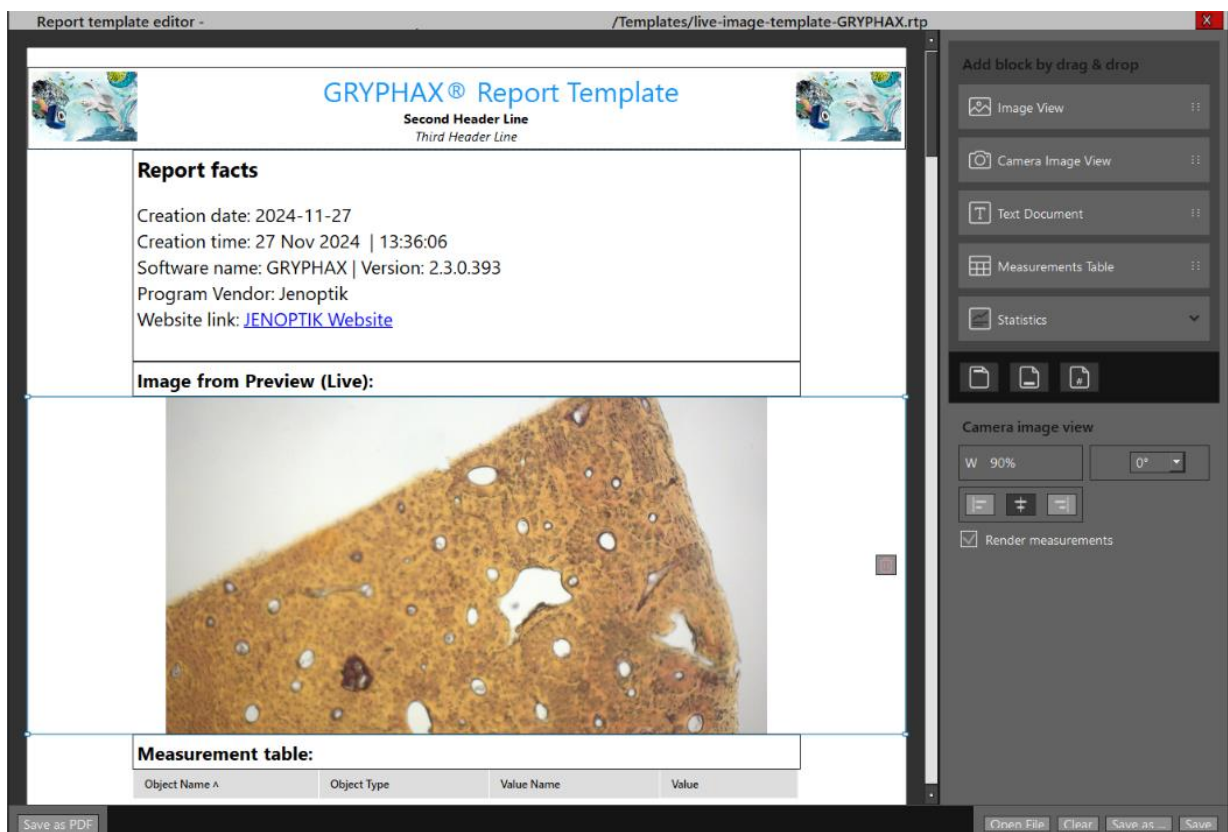
Click on the **Report & Statistics** icon 📈 at the tool bar, the widget will be displayed and contains the following tools and options:

- 📝 Template Editor – to generate or modify reporting templates
- PDF→ Save report file as PDF – export a report from predefined template
- 📈 Opens Statistics window – to analyze image from image window

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- 🔍 Browse template – to add a template to selection drop down list
- GRYPHAX_Report_ ▾ Template list – to <u>select active template</u> and show last 5 template files for report export as PDF file
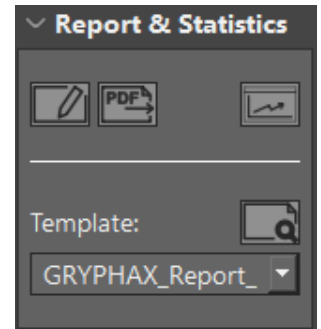
Start generating a report template file:

To start click on **template editor icon** 📝. A separate window will open, which can be positioned freely. On left window side, the preview of report template is shown. On right window side, the menu with template tools and option are displayed. The corresponding functions are displayed for the tool used. On the bottom is the menu bar for the open, save and save as PDF file buttons. Here you can load existing template files to modify or re-save a new template. In addition, a live export as PDF is available.

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Add a report template tool:

To add a report template tool, user must **drag and drop** the according tool from right tool list into the template preview window at position they want by mouse. The position where to place the new field e.g. text document will be highlighted by a light blue color at template preview. After release the mouse the new field are added on template. It can be modified or filled by user afterwards.

Note: Also, similar template tools can be placed multiple times into the template preview.
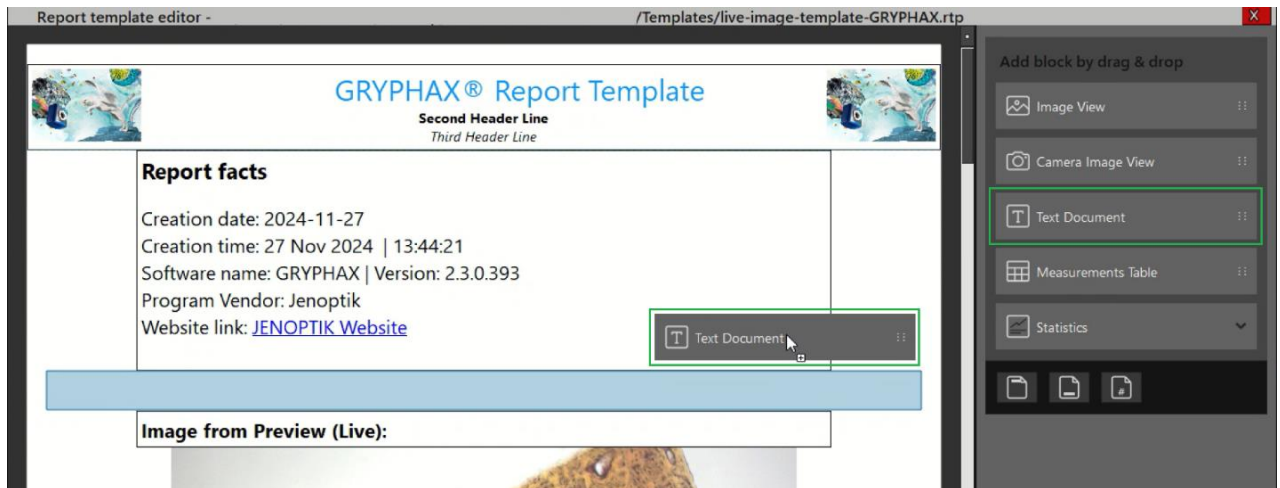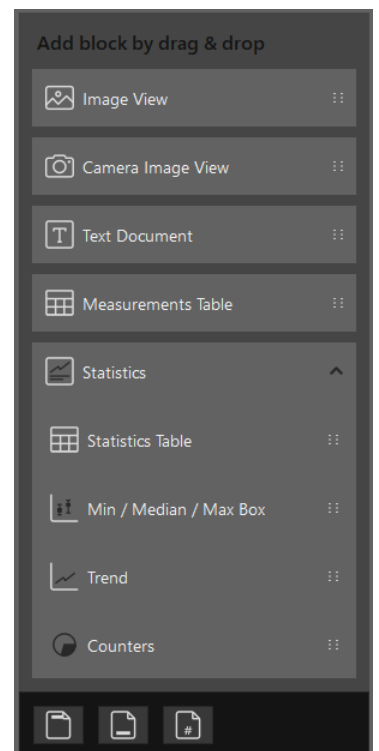

Overview about available template tools:

Multiple items can be added to the template preview by drag & drop.

- **Image View** – add a single image field on template to show a gallery image (multiple images can be added to the template)

- **Camera Image View** – to add the live preview from camera into template | any update of preview or overlay will be updated as well

- **Text Document** – to add a text field into template

- **Measurement Table** – to add a table of measurements from the image window for live preview or gallery image

- **Statistics** – offers a various list of additional statistics tools as graph or table as follows:
    - **Statistics Table** – to list and analyze measurements
    - **Min / Med / Max diagram** – to find the threshold values
    - **Trend diagram** – to display trend line and values graphically
    - **Counter circle diagram** – for graphical analysis of the counters

- **General options** – to add a page header or footer or page numbering
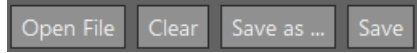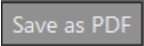
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Menu bar:

The following options are available on the menu bar of template editor window:

- **Open File** – to load a "*.rtp" template file into editor to preview, modify or save as PDF file
- **Clear** – to remove all items from template preview window
- **Save as …** – to save current template status as new template
- **Save** – to save current template status as "*.rtp" template file

With the "**Save as PDF**" button user can generate and **export a PDF file** from currently shown report template preview as file. The save dialog opens to assign a name and the save location.
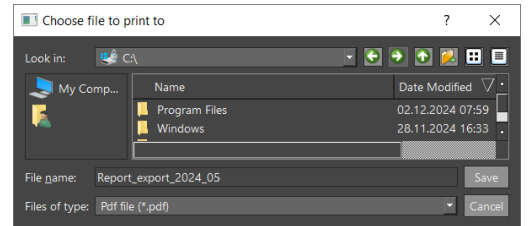
Modify of template:

To modify a template, click into the according field on template preview. Afterwards, the field is highlighted by light blue rectangle . The according options will be displayed on tools menu of right window site.

In addition, the position of tools at template preview can by moved by **drag & drop** via mouse, at any time.

Delete of template fields:

To delete a template item, select the according item field on template preview. The field will be highlighted by light blue rectangle and a small trash icon will be shown. After click on trash icon the whole field and all content will be deleted from template preview.

- **Image View options:**

Option to define image **width** in (%) and **orientation** in (°).

Also, the **alignment** on the template preview can be chosen. With the "**Browse**" button an image can be load from Gallery into image field of template.

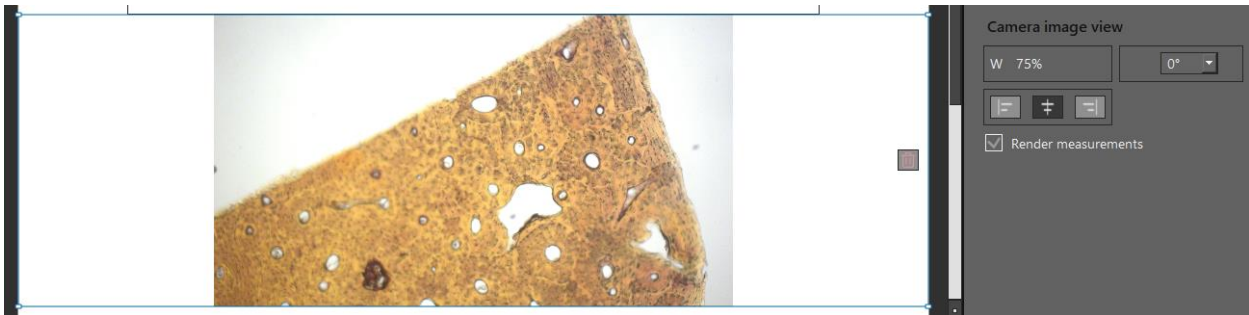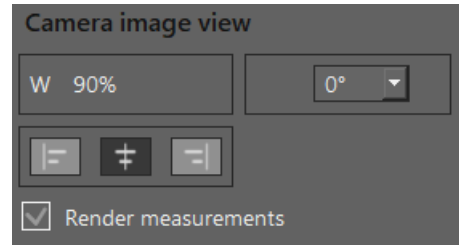Moreover, a **drag and drop** of images from gallery into template image field is possible.
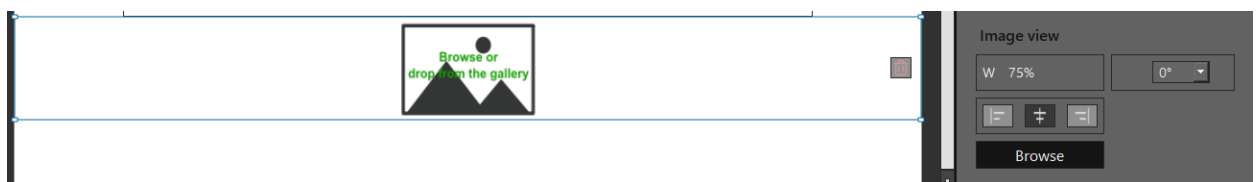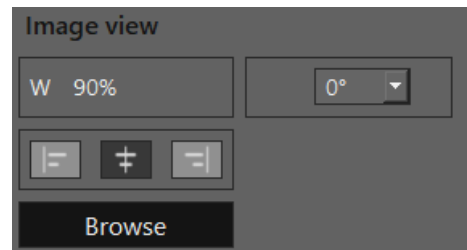
- **Camera Image View options:** 📷 Camera Image View

Options to define camera preview image **width** in (%) and **orientation** in (°).

Also, the **alignment** on the template can be chosen.

With the "**Render measurements**" checkmark – all overlays from preview will be shown on image from template.

- **Text Document options for text field, header, and footer section:** T Text Document

All text related options are available on tools page after select a text field on template preview.
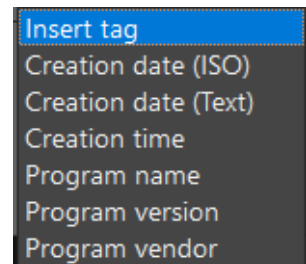The properties of text can be changed after selecting text at the text field.

- Text **size** from 6 to 72 `12 ▼`

- Text **color** a separate system color selection window will appear ■

- Text **appearance** like **bold** | *italic* | underline can be enabled `B` `I` `U`

- Text **alignment**

- Add **URL** link 🔗 or **image** file 🖼

- Option to **superscript** or **subscript** of text A↑ A↓

- Add software **tag** – for automatic date and time creation on report file during storing. The following tags can be insert into text field:

Example for tags at text field:

Report facts

Creation date: 2024-11-28
Creation time: 28 Nov 2024 | 15:28:00
Software name: GRYPHAX | Version: 2.3.0.393
Program Vendor: Jenoptik
Website link: JENOPTIK Website

Insert tag
Creation date (ISO)
Creation date (Text)
Creation time
Program name
Program version
Program vendor

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- **Measurement Table options:**

Options to define table **width** in (%) and the **alignment** on the template.

Also, the **color theme** can be changed to dark or light appearance.

Select the **columns** for table by checkmark – all activated columns will be shown on measurement table on template.

Change **order** from table columns at drop down list:
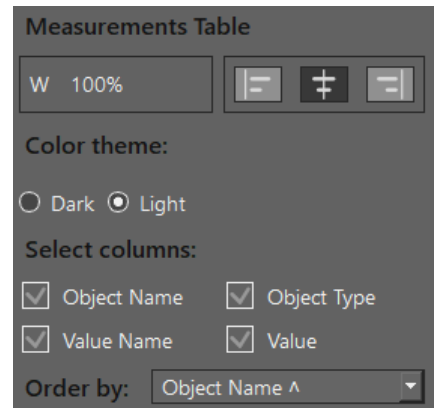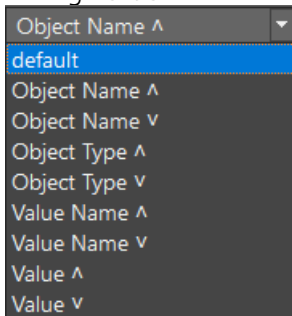
Example for measurement table:

Measurement table:

Object Name ∧	Object Type	Value Name	Value
CIR1	CIR	Radius	46.167 µm
CIR2	CIR	Radius	44.565 µm

- **Statistics Table options:**

Options to define table **width** in (%) and the **alignment** on the template.

Also, the **color theme** can be changed to dark or light appearance.

Select the **columns** for table by checkmark – all activated columns will be shown on measurement table on template.

Select **group by** object or measurement by radio buttons.
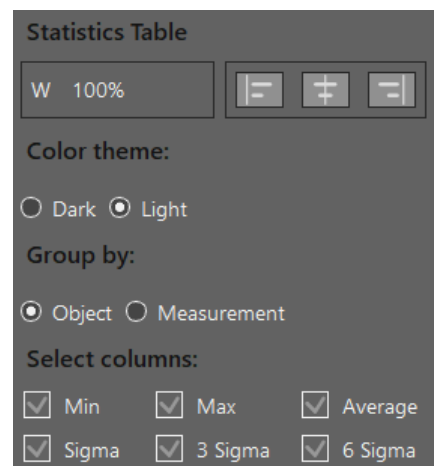
Example for statistics table:

Statistics table:

| Object Type	Measurement Type	Min	Max	Average	Sigma	3 Sigma	6 Sigma
CIR	Radius	44.565 µm	52.580 µm	48.117 µm	3.059 µm	9.176 µm	18.351 µm
DST	Length	101.01 µm	184.75 µm	139.66 µm	24.495 µm	73.484 µm	146.97 µm

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- Diagram options for Trend and Min / Med / Max:

Options to define table **width** in (%) and the **alignment** on the template.

Also, the **color theme** can be changed to dark or light appearance.

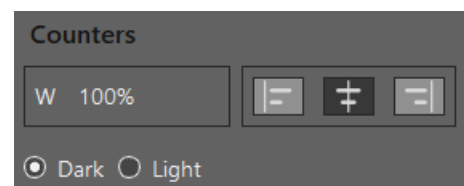Select **group by** object or measurement with radio buttons.
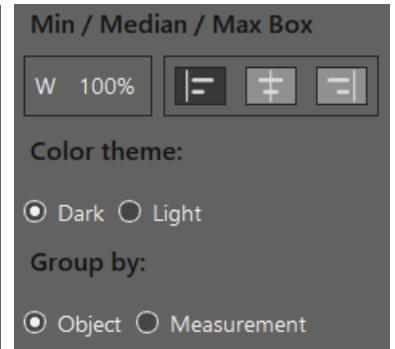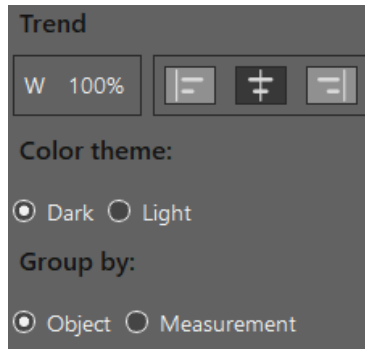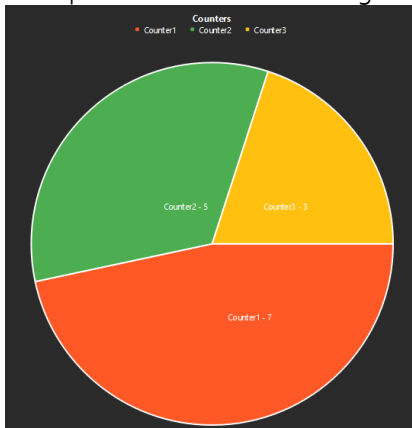

Example for Trend and Min / Max diagram:
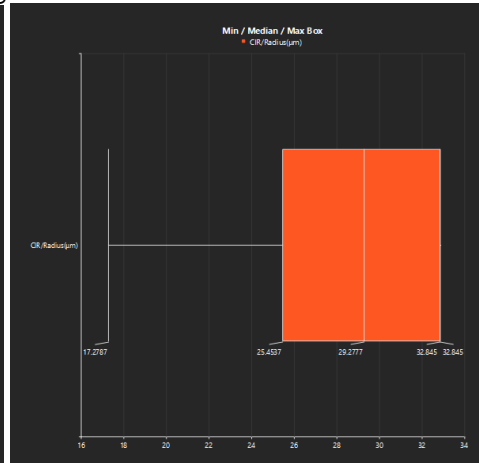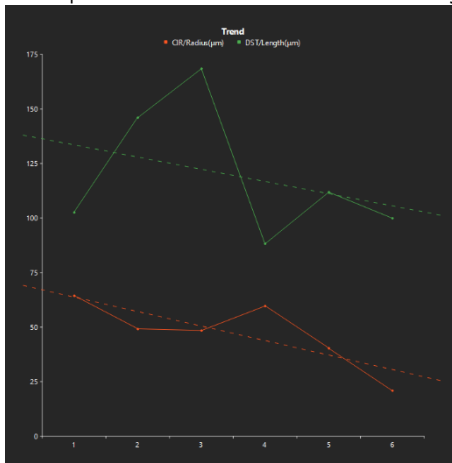
- Counter circle diagram options:

Options to define table **width** in (%) and the **alignment** on the template preview.

Also, the **color theme** (background) can be changed to dark or light appearance.
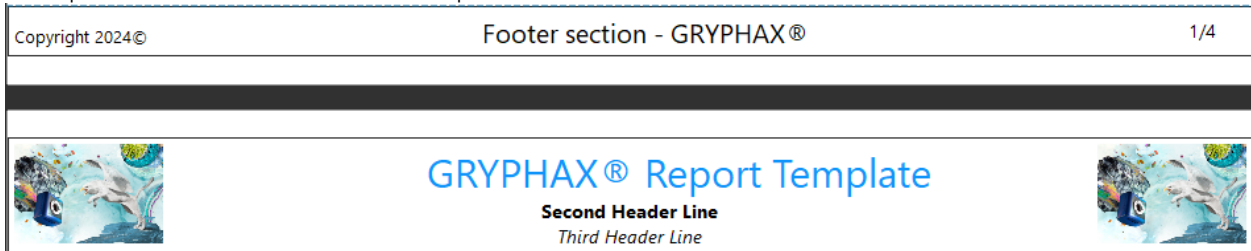

Example for counter circle diagram:

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- **General options:**

Header and **Footer** option can be enabled by corresponding icons . For detailed text options description, please see the "Text Document" description above.

The **Page Number** can be enabled by page number icon

Example for header and footer of template:

Start statistics tool:

To start click on **statistics icon** . A separate window will open, which can be positioned freely. On left window side the preview of **statistics table** or **graph** are shown. On right window side the menu with statistics tools and option are displayed. For selected statistics tool corresponding options will be shown. For detailed description for statistics options, please see the template editor section above.

<u>Note:</u> The statistics tools only show the evaluation of the current image from image window of GRYPHAX GUI. It cannot analyze and evaluate multiple images.

Statistics table:

Shows the measurement statistics as table from current active image in regard to the chosen options. Select the **columns** for table by checkmark – all activated columns will be shown on statistics table.
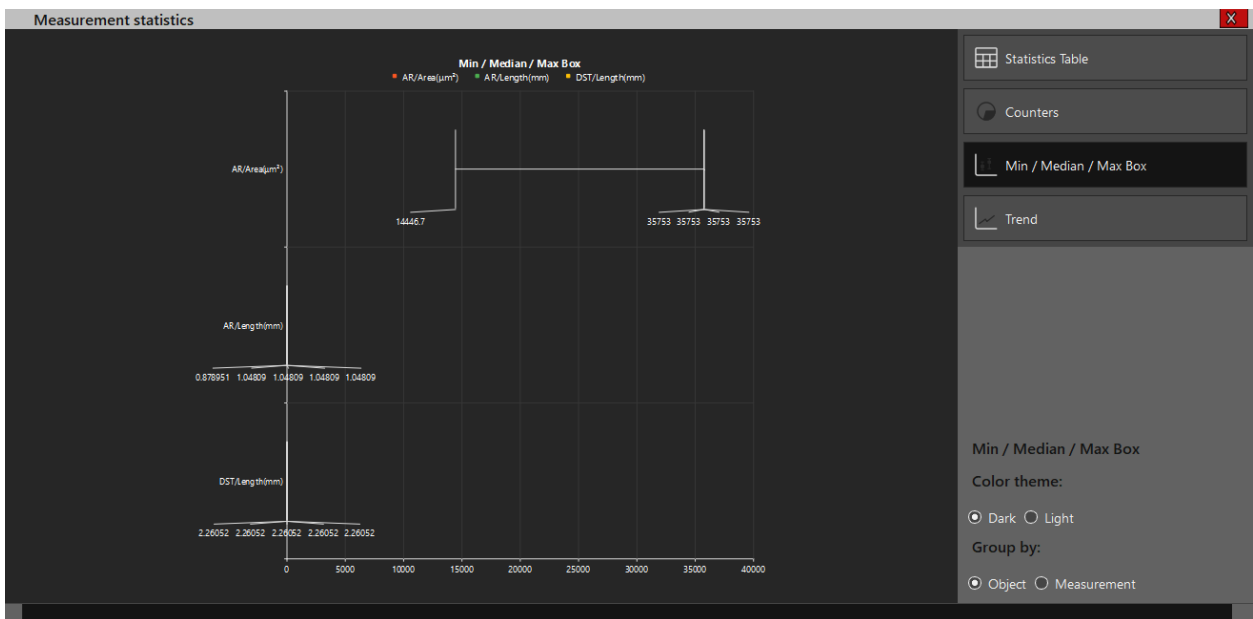
Counter graph:

Shows the circle graph of counters from current active image.
Either live preview results or gallery image measurements can by displayed as graph.
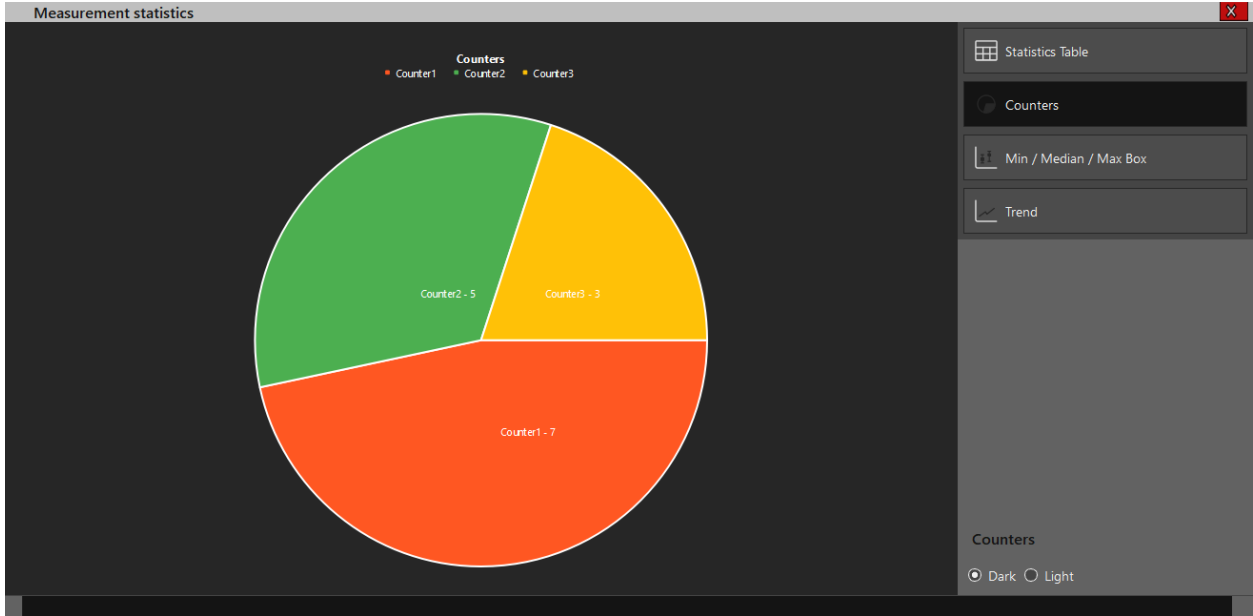
Min / Med / Max graph:

Shows the graph of measurements threshold values according to the chosen option group by.
For different measurement types, threshold and value graphs will be shown as example:
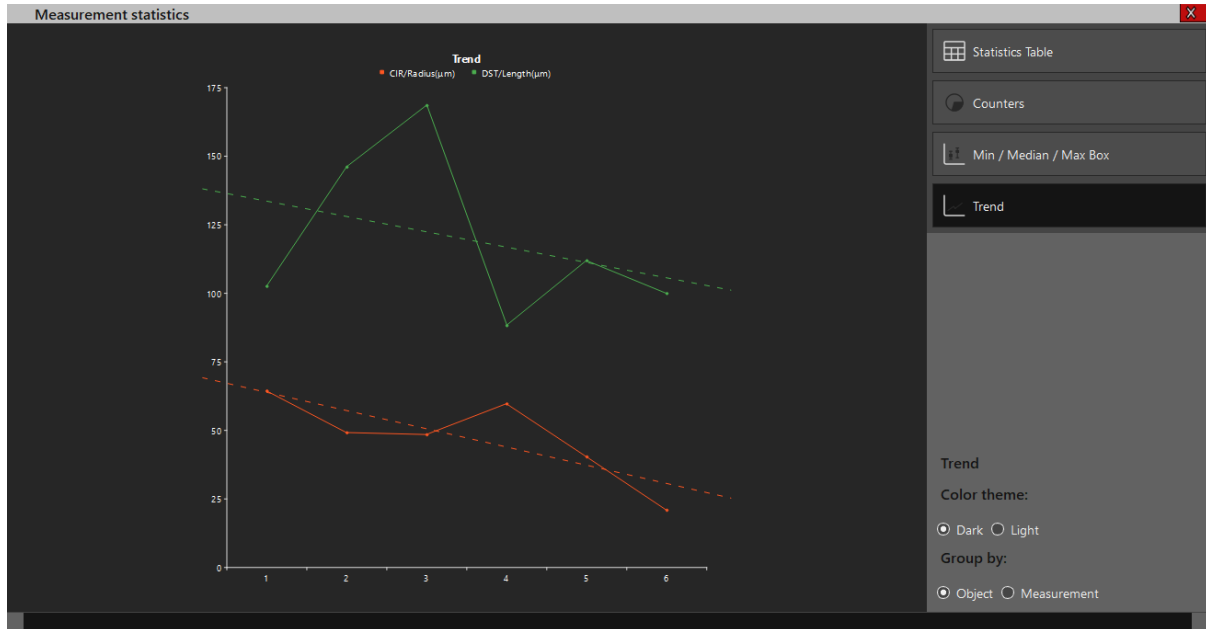
Trend graph:

Shows the trend line and values graphically of measurements according to the chosen option group by.
For different measurement types, separate trend line and value graphs will be shown as example:

Limitations:

a) The Template editor window and Statistics window will overlay the GRYPHAX software GUI in foreground.
b) The statistics tool only shows the evaluation of the current image from image window of GRYPHAX GUI. It cannot analyze and evaluate multiple images.
c) On report and template preview the measurement table and statistics tools are limited to the current image from image window of GRYPHAX GUI only. With multiple images the statistics won't show measurement results.

Learn more about JENOPTIK GRYPHAX® software and the easy workflows and tools.

Watch our video tutorials.

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We are looking forward to hearing from you and remain sincerely,

Your JENOPTIK GRYPHAX® Team