



HIKMICRO Analyzer Client (V1.6.1)

Release Notes

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Chapter 1 Introduction

HIKMICRO Analyzer Client is used to view and analyze the temperature information contained in the images captured by the thermal device and generate a report. Thermal images can be imported to the client, and you can manage images via classifying files, adding tags, etc. Multiple operations can be performed during image analysis, including configuring measurements and adjusting measurement parameters. After image analysis, you can view the measurement results, save images, or export the report as required. The client also supports importing a radiometric video for temperature analysis. You can lay out measurement tools on the video image, configure measurement parameters, etc. And the client will display time-temperature curve for you to check the dynamic change of temperatures. Besides, you can connect your UVC device (handheld thermal camera and smartphone module) to the software to start live view, during which you can measure the temperature of every frame via adding measurement tools on the live video image, setting measurement parameters, etc.

This document introduces new features and optimizations in V1.6.1 of the Client.

Version Information

Version	Date
HIKMICRO Analyzer V1.6.1	2024-4

Device Capability on HIKMICRO Analyzer

✓ Supported

✗ Not supported

Models	Image Analysis*1	Image Report*2	Video Analysis*3	Live Analysis over UVC with Latest Firmware*4	Latest Firmware
SP60(H), SP40(H)	✓	✓	✓ since V5.5.29	✓	V5.5.49
G61(H), G41(H), G31, G60, G40	✓	✓	✓ since V5.5.27	✓	V5.5.54
FT31	✓	✓	✗	✗	V5.5.52
M60	✓	✓	✓ since V5.5.49	✓	V5.5.49
M30	✓	✓	✓ since V5.5.27	✓	V5.5.54
M20(W), M11(W)	✓	✓	✗	✗	V5.5.49

Models	Image Analysis*1	Image Report*2	Video Analysis*3	Live Analysis over UVC with Latest Firmware*4	Latest Firmware
M10	✓	✓	✗	✗	V5.5.19
Mini3	✓	✓	✗	✗	V2.0.19
Mini2, Mini2Plus	✓	✓	✓ *5	✓	V2.0.20
Pocket2, PocketC	✓	✓	✓ since V5.5.61	✓	V5.5.61
Pocket1	✓	✓	✗	✗	V5.5.61
B20(S), B10(S), B01(S), B11, B21L(S), BX20, FB21	✓	✓	✗	✗	V5.5.61
B2L, B1L	✓	✓	✗	✗	V5.5.15
E1L	✓	✓	✗	✗	V5.4.47
Eco(-V), PocketE	✓	✓ since V5.5.61	✗	✗	V5.5.61
E01, E02, E03	✓	✓ since V5.5.61	✗	✗	V5.5.61

 Note

1. Image Analysis: Analysis with radiometric images.
2. Image Report: Report generation with radiometric images.
3. Video Analysis: Analysis with radiometric videos, relying on cameras that support radiometric video.
4. Live Analysis over UVC with Latest Firmware: Live stream and live analysis, relying on cameras that support Radiometric Infrared-Video Streaming with the latest firmware.
5. For Mini series, the video used in Video Analysis should be a radiometric video recorded in HIKMICRO Analyzer by Mini camera.

Chapter 2 New Features

2.1 Software Installation

Integrated the multi-language package into the client software installation package. The multi-language feature will be installed altogether when the client is installed. You can select a language as needed after you started the client.

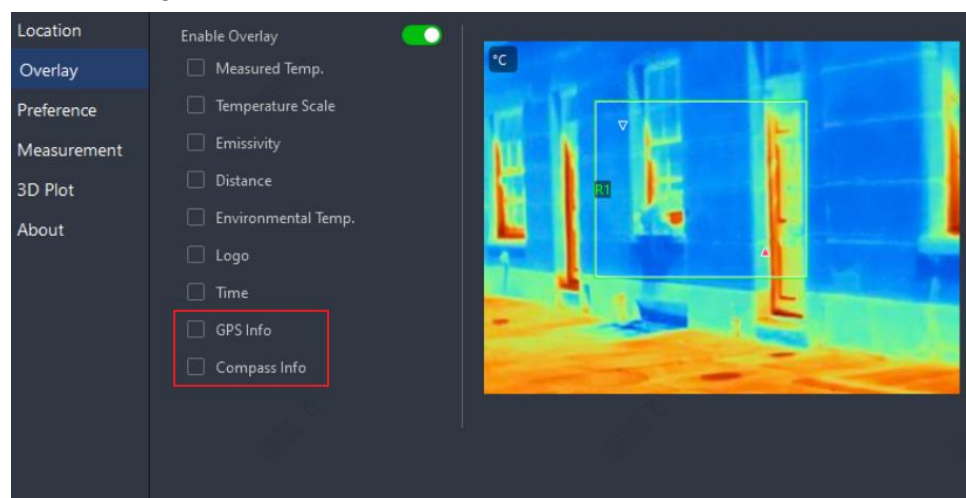
2.2 Settings

2.2.1 Information Overlay

- Supports checking Logo and Time.



- Supports overlaying GPS information and Compass information on exported and saved images.



2.3 File Management

Removed the options of importing files in cut and index mode, as well as the import mode configuration function. All files will be imported in copy mode by default.

2.4 Image Analysis

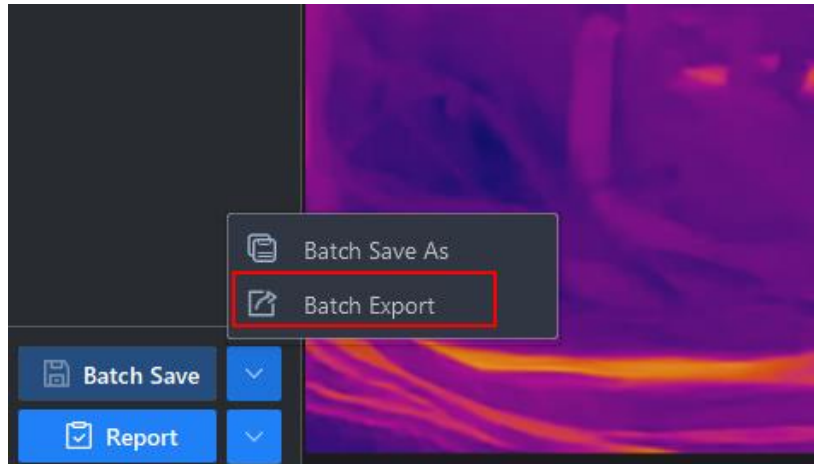
2.4.1 Image Information

Supports selecting, dragging, and copying image information.



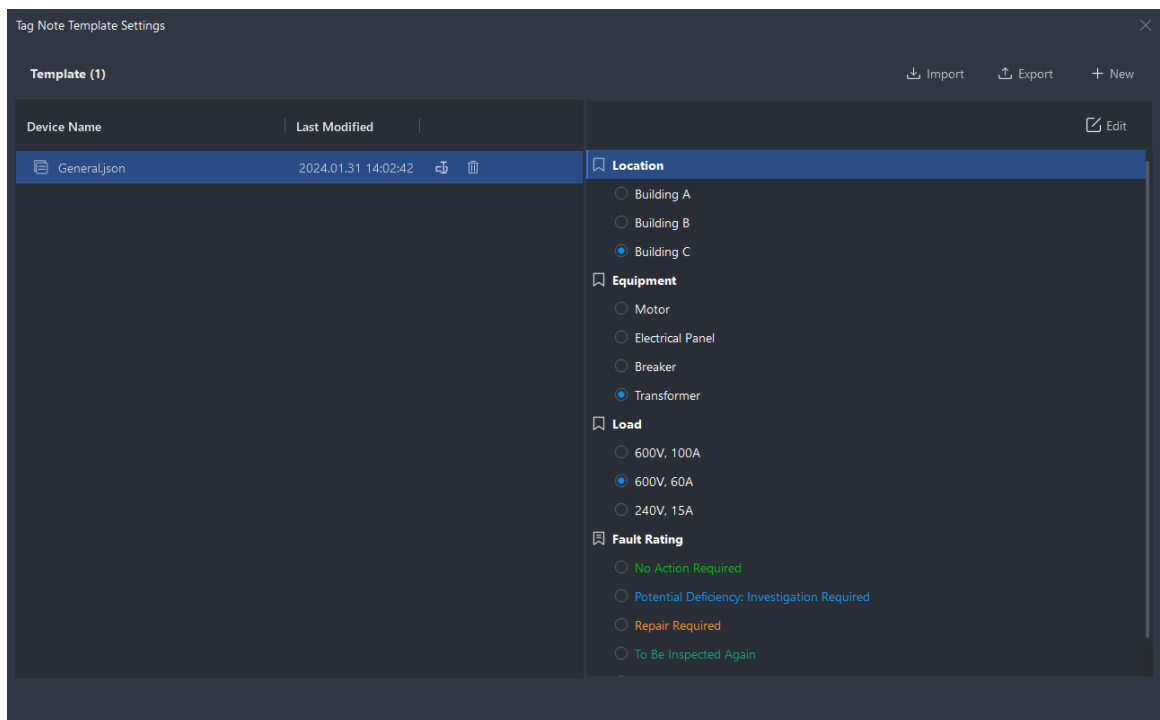
2.4.2 Batch Export Images

Supports batch exporting images in Task List to the local PC.

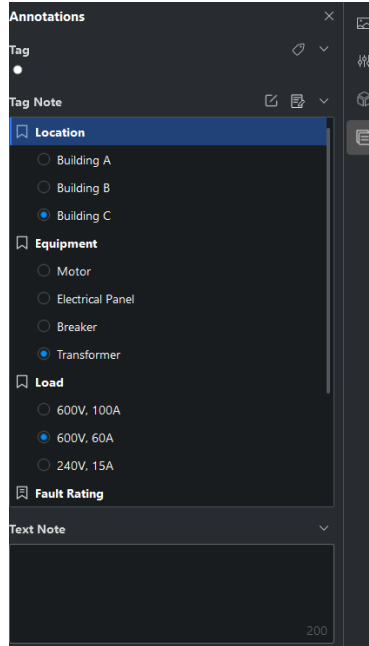


2.4.3 Configure Tag Note

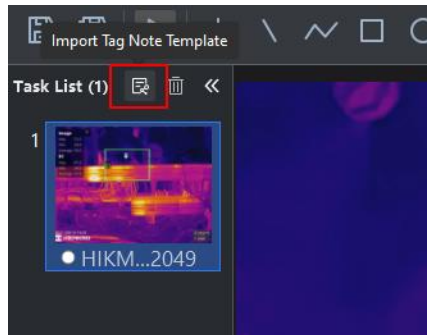
- Supports adding, importing, exporting, and editing tag note templates.



- In Annotations panel, supports setting the tag note content and template of a single image, and the settings will be saved to the image for later use.

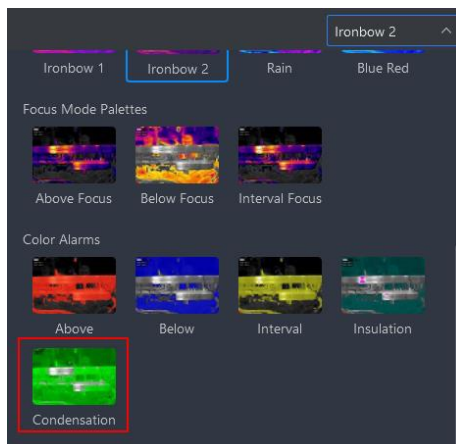


- Supports setting the tag note template which will be applied to all images in task list.



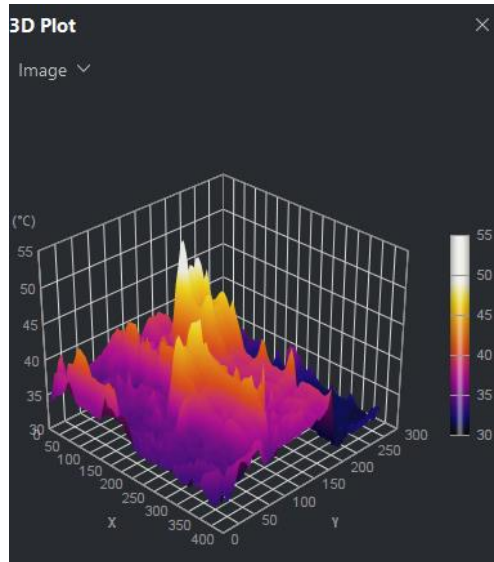
2.4.4 Condensation Alarm

Support condensation alarm. In this alarm type, surface where the relative humidity exceeds the set threshold will be color marked.



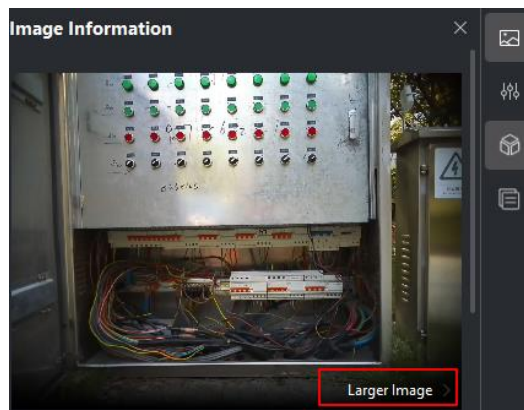
2.4.5 3D Temperature Distribution Plot

The 3D temperature distribution plot is generated based on the positions and temperatures of pixels of images. The values of X axis and Y axis represent the positions of pixels, and the values of Z axis represents the temperatures of pixels. You can right-click the model to export/copy it for further use.



2.4.6 View Large Visual Image

Supports viewing larger visual image in Image Information pane.



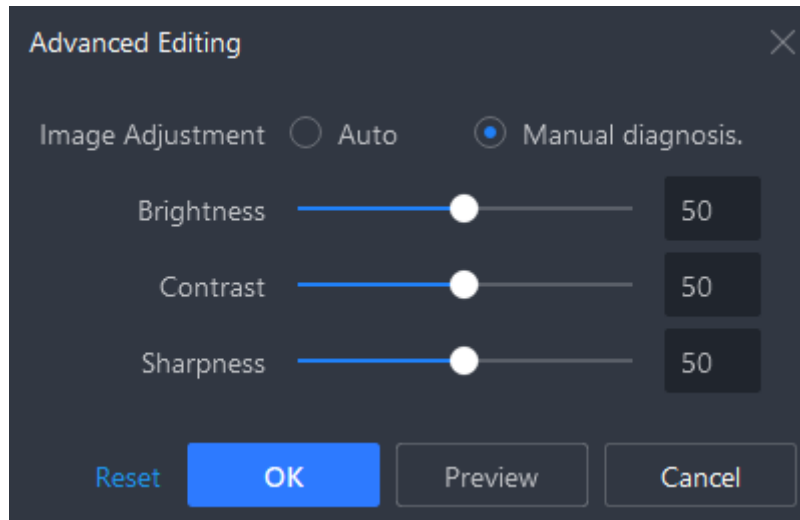
2.4.7 Measurement Tool

If a measurement parameter of a tool is not the same as that of the image, the tool name will be marked with *.

Name	Max.	Min.	Avg./Cent.
Image	53.2 °C	30.6 °C	36.0 °C/ 36...
*R1	47.2 °C	30.5 °C	37.5 °C

2.4.8 Advanced Editing

Supports selecting from Auto and Manual modes for adjusting an image.



2.4.9 Shortcut Key

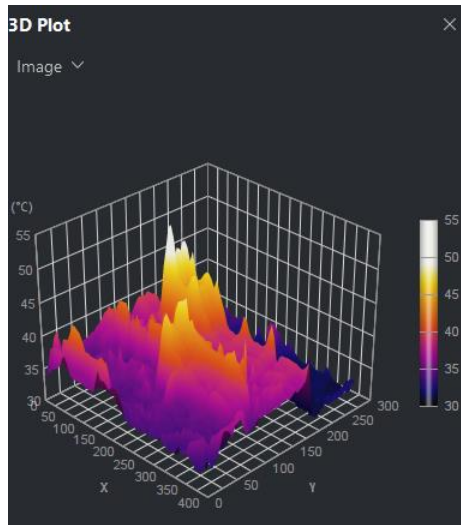
Shortcut Key	Function
↑ (up arrow)	Move up a measurement tool.
↓ (down arrow)	Move down a measurement tool.
← (left arrow)	Move left a measurement tool.
→ (right arrow)	Move right a measurement tool.
Delete	Delete a measurement tool.

2.5 Video Analysis

2.5.1 3D Temperature Distribution Plot

The 3D temperature distribution plot is generated based on the positions and temperatures of pixels of live video images. The values of X axis and Y axis represent the positions of pixels, and the values of Z axis represents the

temperatures of pixels. You can right-click the model to export/copy it for further use.

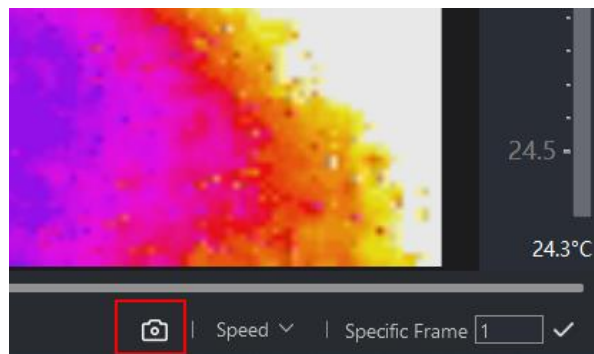


2.5.2 Convert Video Format

Supports exporting the video in MP4 format to the local PC.

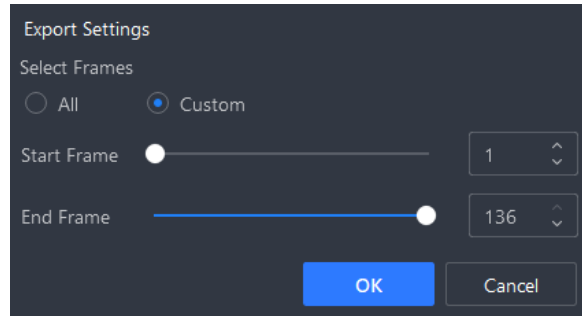
2.5.3 Capture Image

Supports capturing images and auto saving them to the local PC.



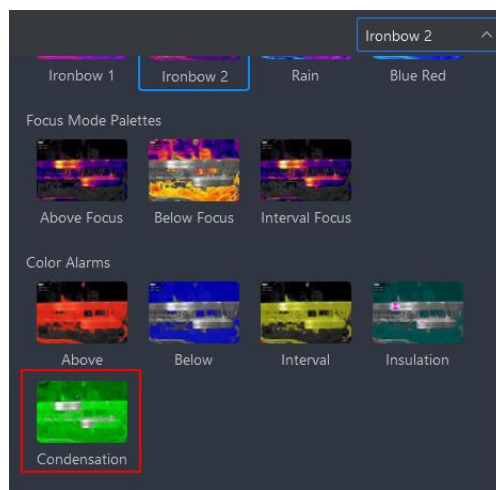
2.5.4 Clip Video

Supports setting the number of video frames to be exported when you are exporting a video.



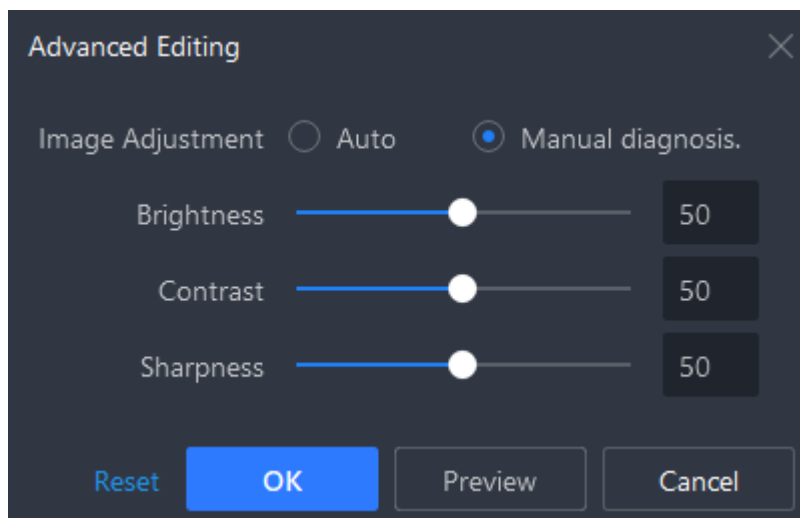
2.5.5 Condensation Alarm

Supports condensation alarm. This function is the same as that in Image Analysis.



2.5.6 Advanced Editing

Supports advanced editing. This function is the same as that in Image Analysis.

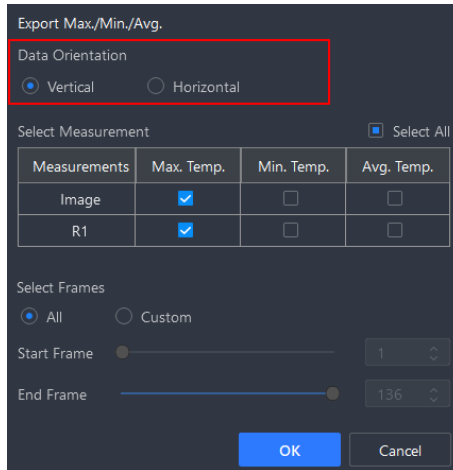


2.5.7 Edit Measurement Tool

Supports adding, deleting, and editing ellipse tool, circle tool, and delta.

2.5.8 Temperature Curve Data Orientation

Supports setting the temperature curve data orientation in the CSV file when exporting the measured temperatures at Max./Min./Avg.



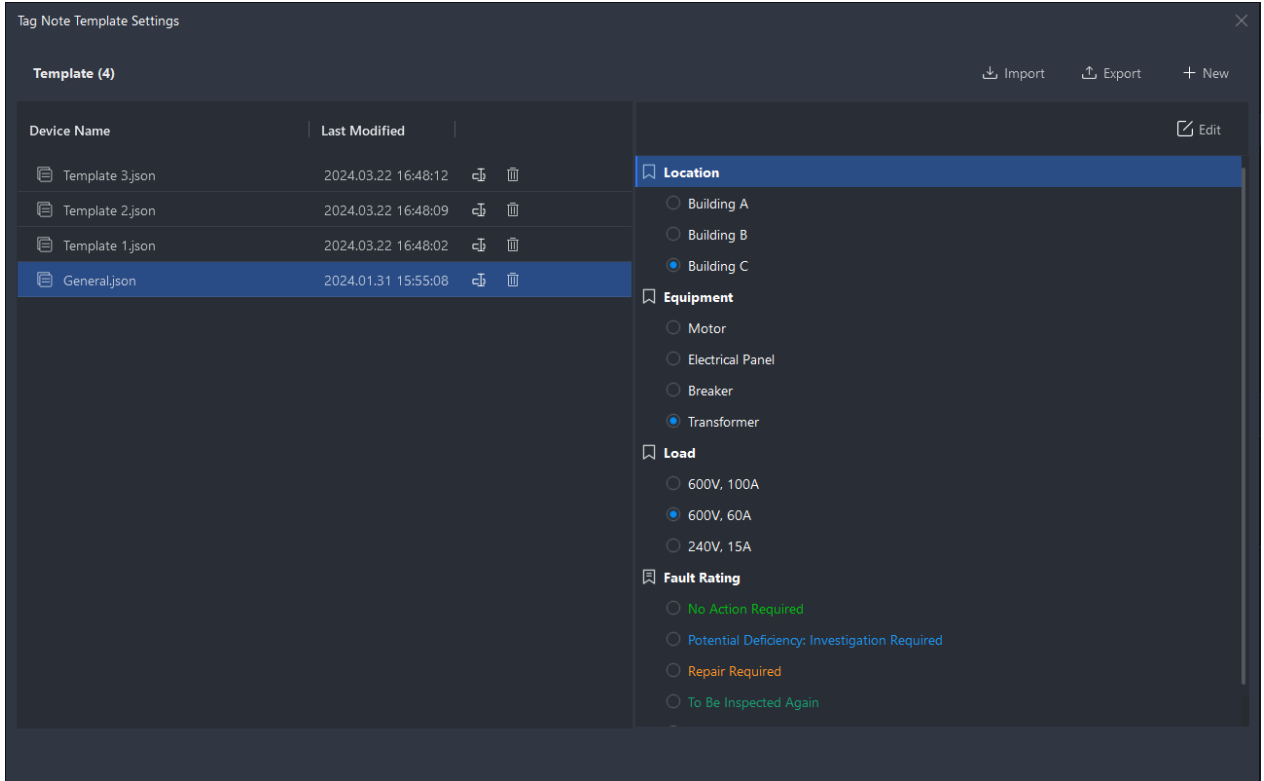
2.5.9 Shortcut key

Shortcut Key	Function
space bar	Play/pause the video.
←(back arrow)	Previous video frame.
→(forward arrow)	Next video frame.
F4	Capture an image.

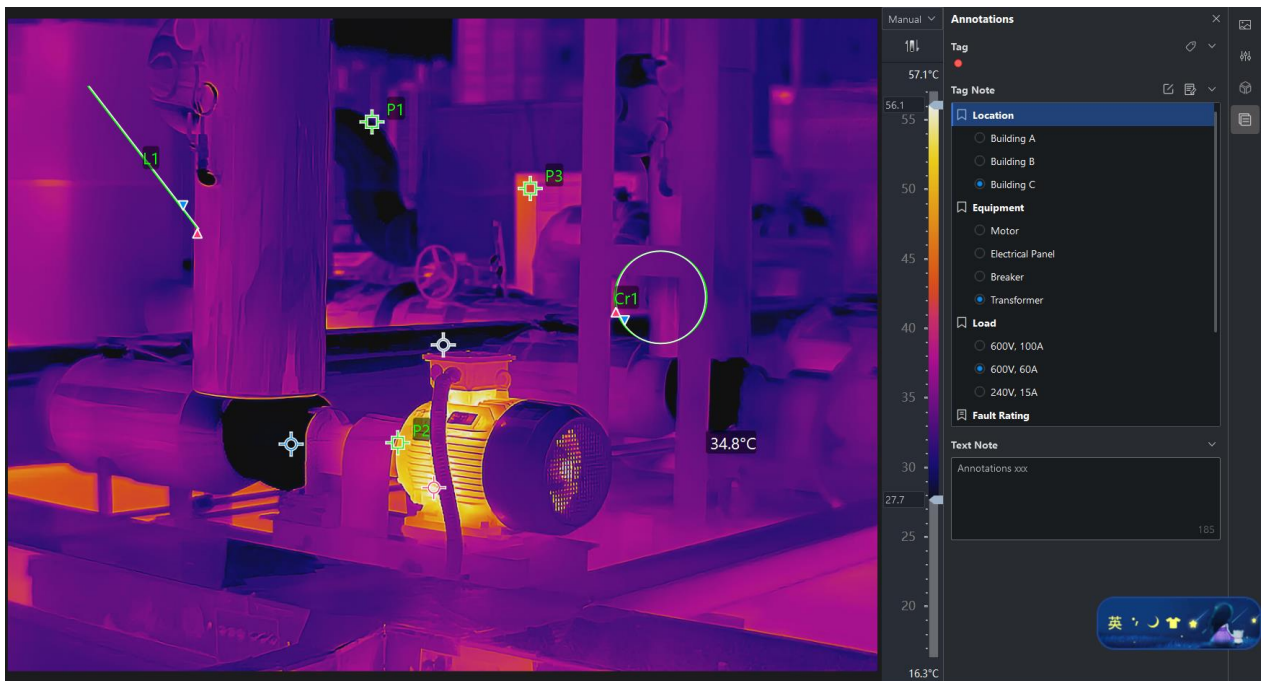
2.6 Tag Note

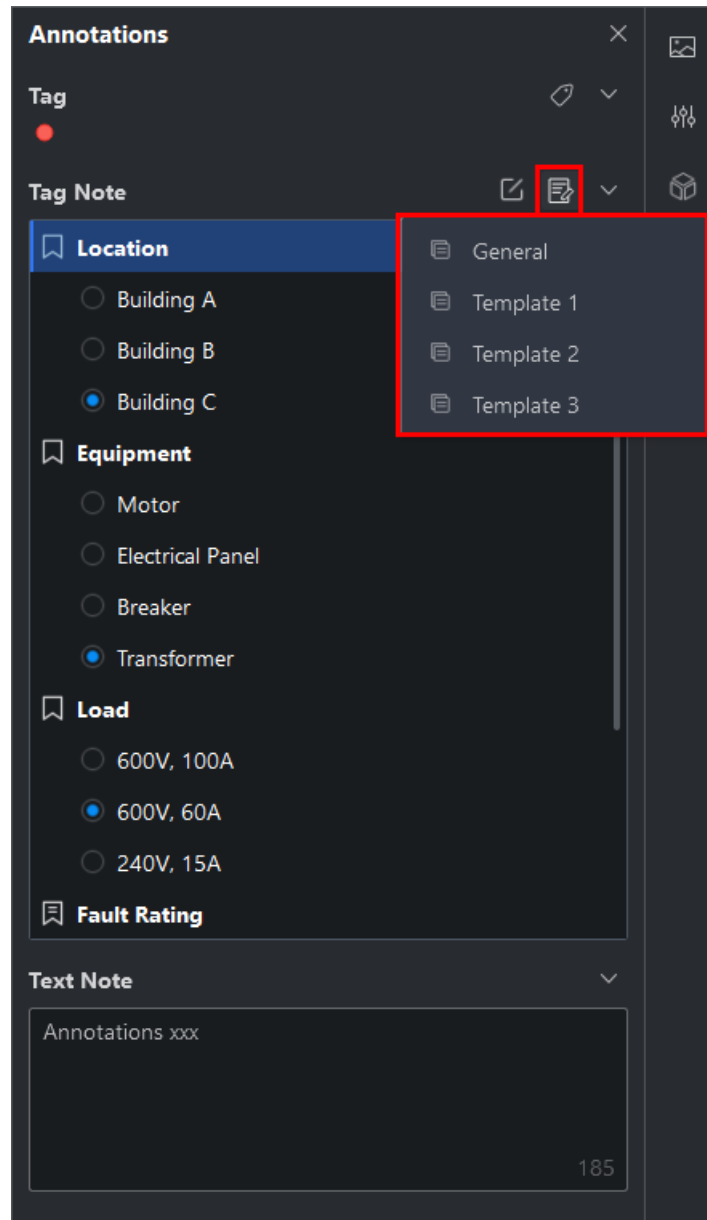
The tag note function adds to the convenience of information collection and reuse. Currently this function is only supported by images.

- Supports tag note template management, including adding, editing, and deleting templates. Supports importing/exporting templates for template exchange between different client softwares.



- Supports configuring specific tag notes or using an existing tag note template for the current picture during analysis. If you select an existing template after specific tag notes are configured, the configured tag notes will be overwritten and lost.

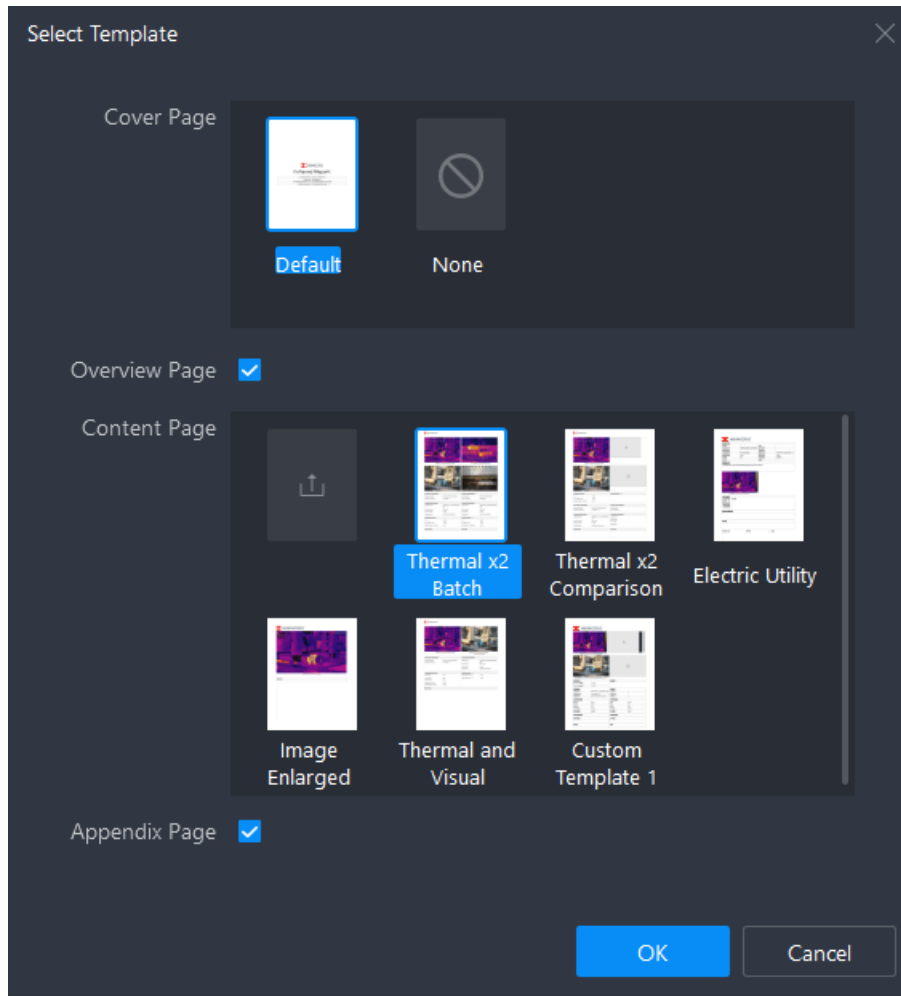




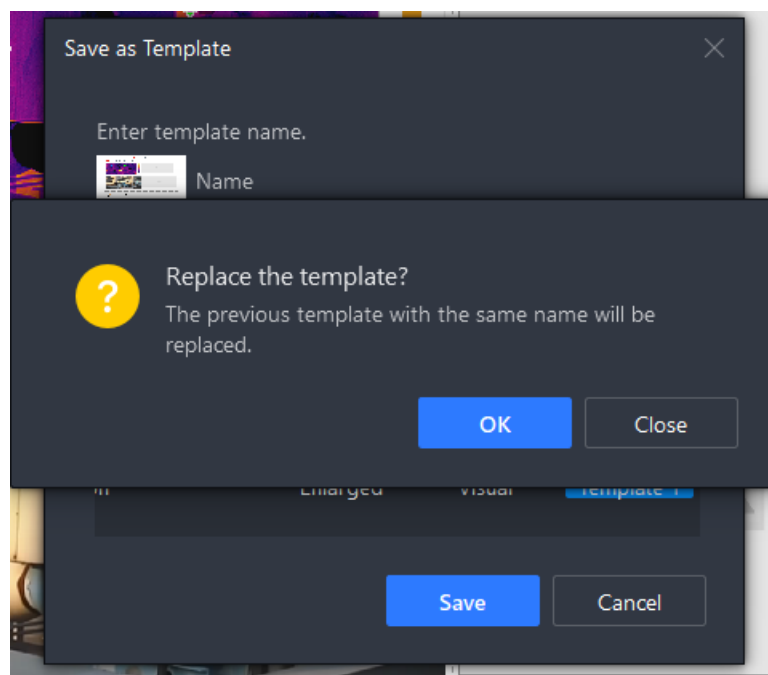
2.7 Report

2.7.1 Report Template

- Updated the system template types and optimized the layout of report objects.

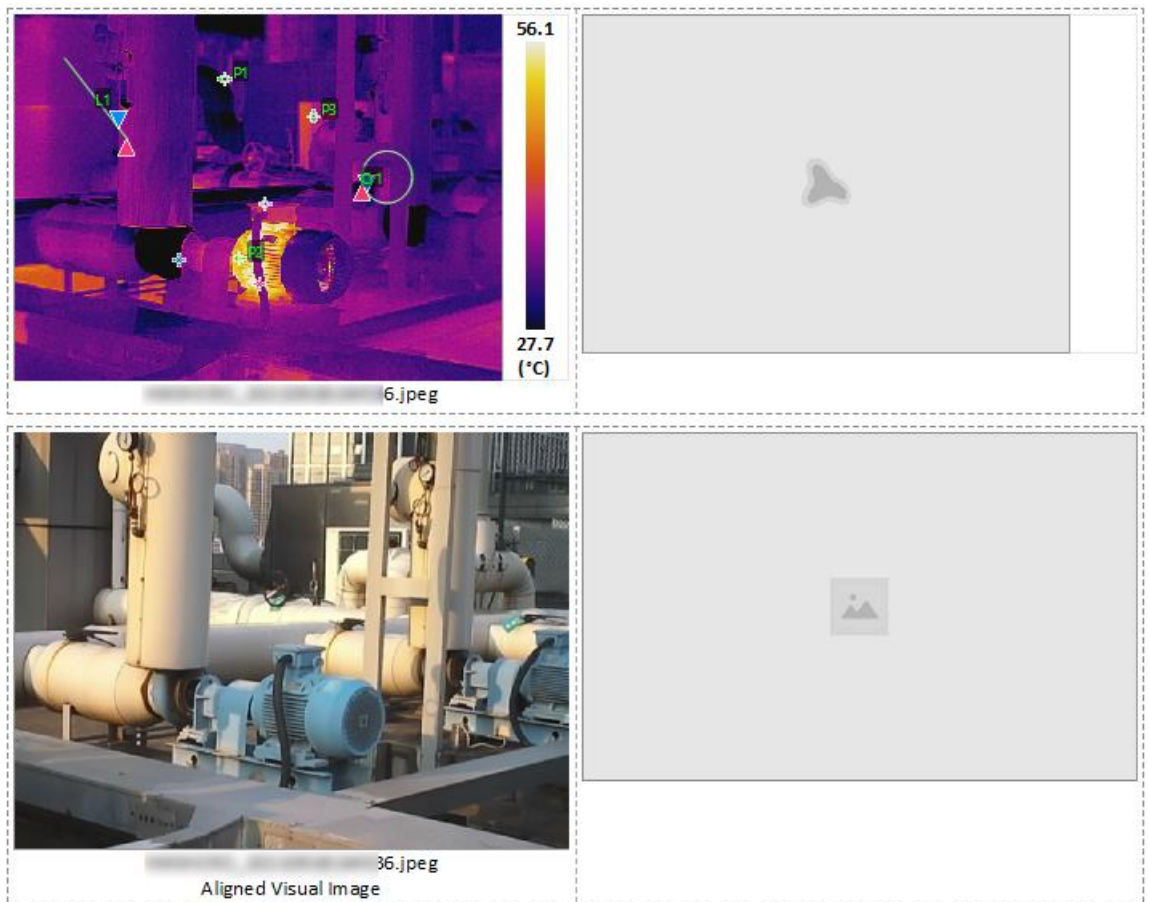


- Supports overwriting templates with duplicate names when you save templates.

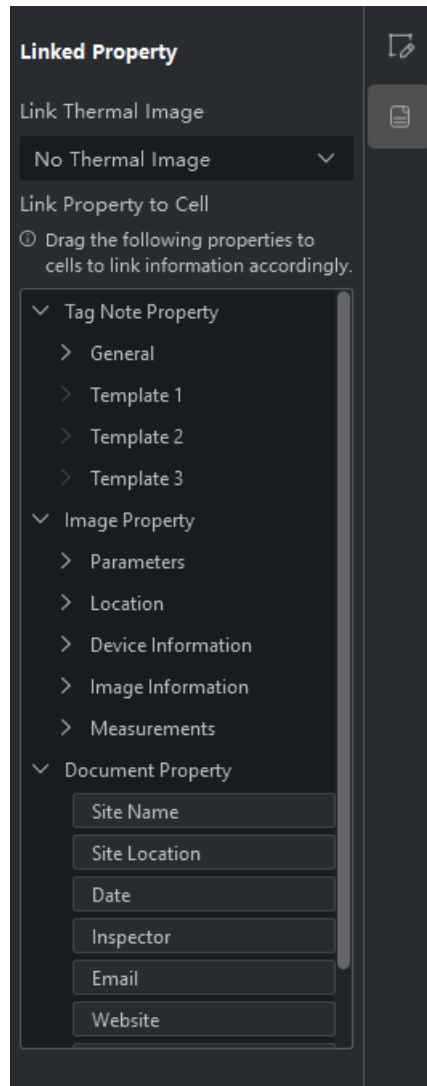


2.7.2 Report Object

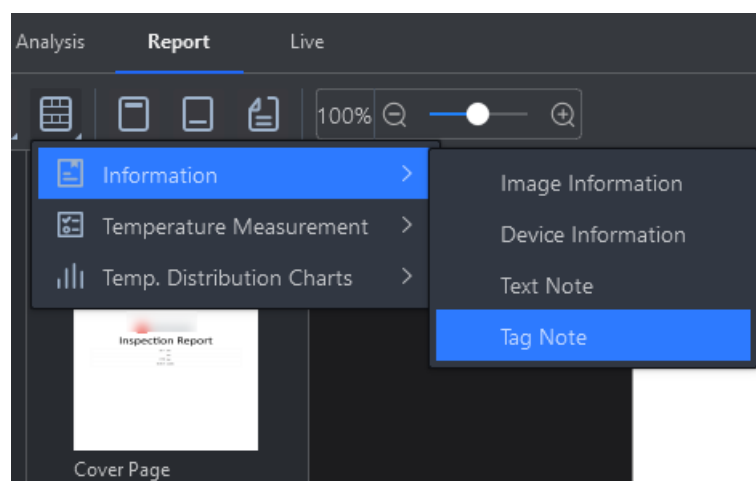
- Supports adding title object (originally text object) and customizing the content; for simple text content, supports entering the text directly in an empty row without adding any objects.
- Supports managing report object layout by the custom table object, where image-type and table-type objects (custom table itself included) can be inserted, deleted, or dragged. Without the custom table object, only supports one object in a single row. Supports hiding/showing the table border.



- Supports linking report information object, summary table object, and custom table object with properties of multiple types.



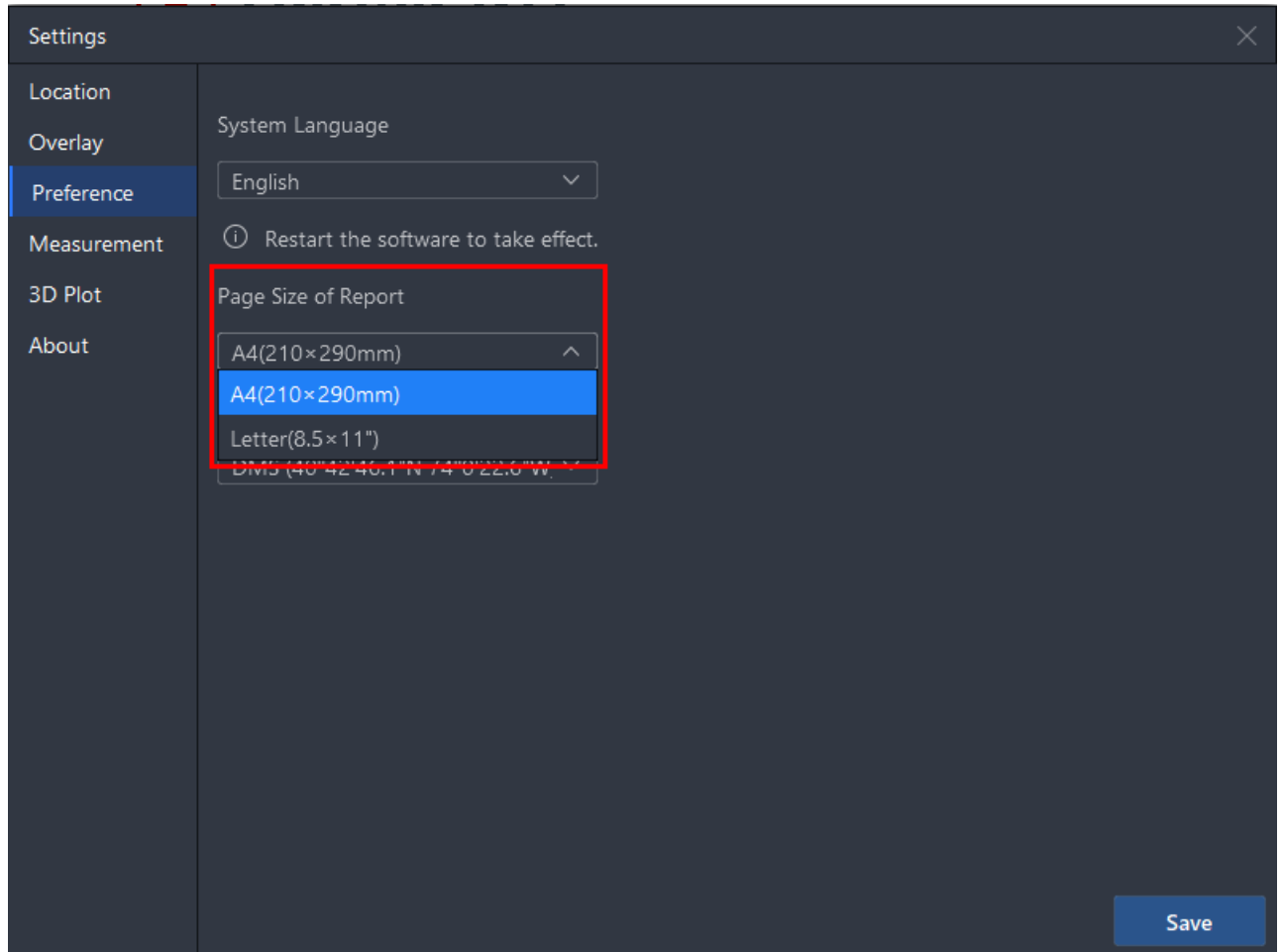
- Supports adding tag note object to the report.



- Supports displaying the visual image object of the same rotation angle and scaling ratio with the thermal image object
- Supports displaying the OSD information configured during analysis in the visual image object and thermal image object synchronously

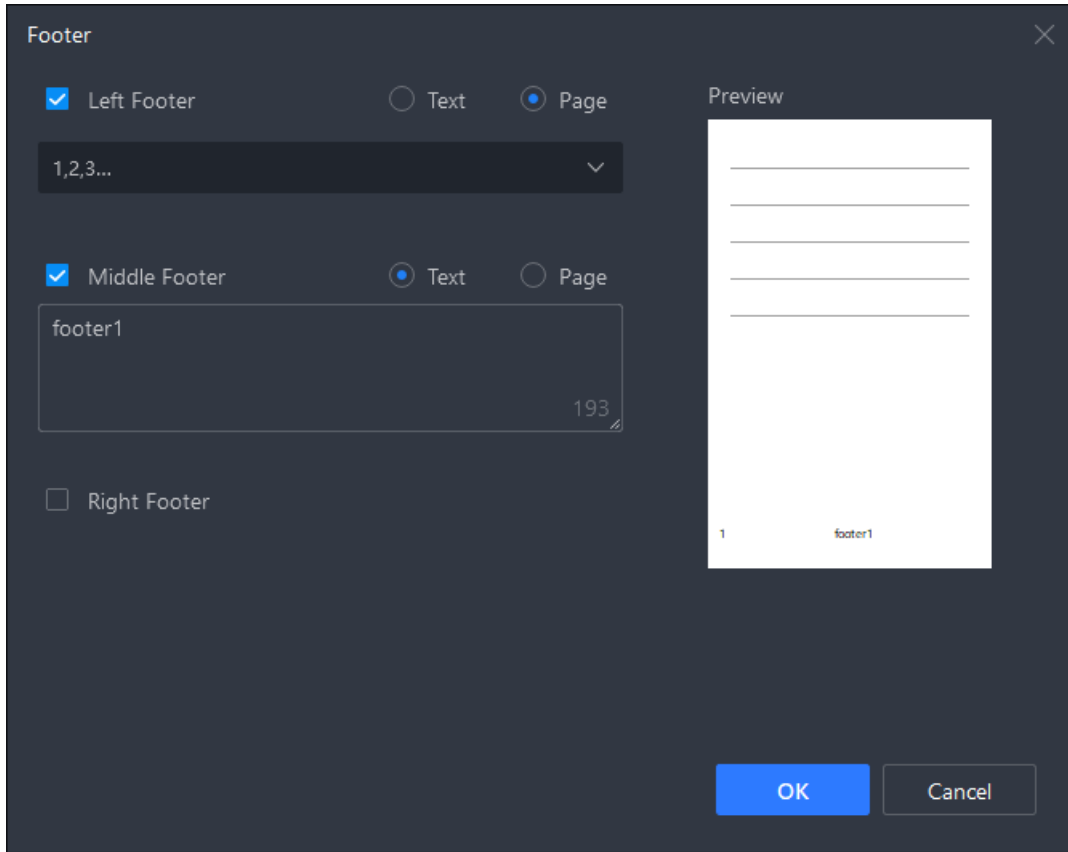
2.7.3 Report Page

Supports setting the page size of report.



2.7.4 Header/Footer

Supports adding and configuring footers for the report for displaying specific texts or the page No. In the client, the positions of header and footer are only for reference; the actual header and footer in the exported report will be displayed by the page break.



2.7.5 Task List

Supports dragging images from the task list to the report directly.

Replace the thermal image by dragging an image from the task list to the target thermal image object position; generate new content page(s) by dragging thermal image(s) to other positions like the report over view area or non thermal image object areas.

2.7.6 Shortcut Key

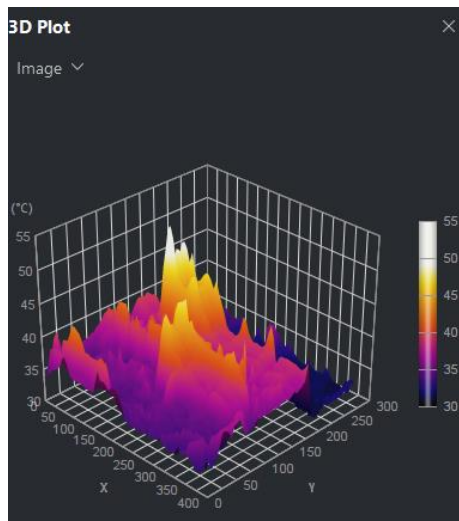
Shortcut Key	Function
Ctrl + C	Copy cell.
Ctrl + V	Paste cell.
Ctrl + X	Cut cell.
Ctrl + Alt + C	Add Content page.
Ctrl + Alt + B	Add blank page.
Alt + T	Edit template.
Alt + P	Edit document property

Shortcut Key	Function
Alt + H	Edit header
Alt + G	Switch page.
Ctrl+Scroll	Scale page.

2.8 Live

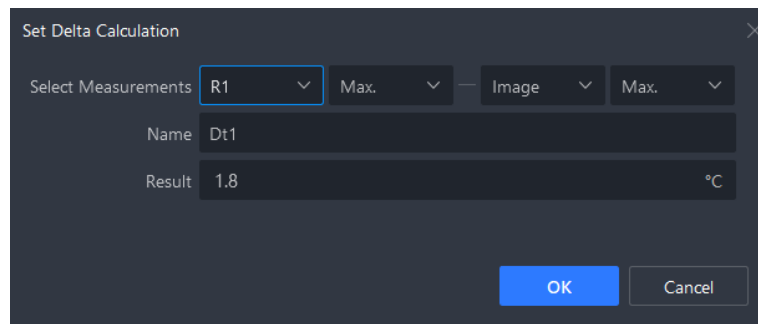
2.8.1 3D Temperature Distribution Plot

The 3D temperature distribution plot is generated based on the positions and temperatures of pixels of live video images. The values of X axis and Y axis represent the positions of pixels, and the values of Z axis represents the temperatures of pixels. You can right-click the model to export/copy it for further use.



2.8.2 Delta

Supports configuring deltas.



2.8.3 Advanced Editing

Supports advanced editing. This function is the same as that in Image Analysis.

2.8.4 Shortcut Key

Shortcut Key	Function
Ctrl + F10	Start/stop recording.
Ctrl + R	Rotate the image.
F4	Capture an image.
Enter	Apply the frame rate setting to the device.



HIKMICRO

See the World in a New Way