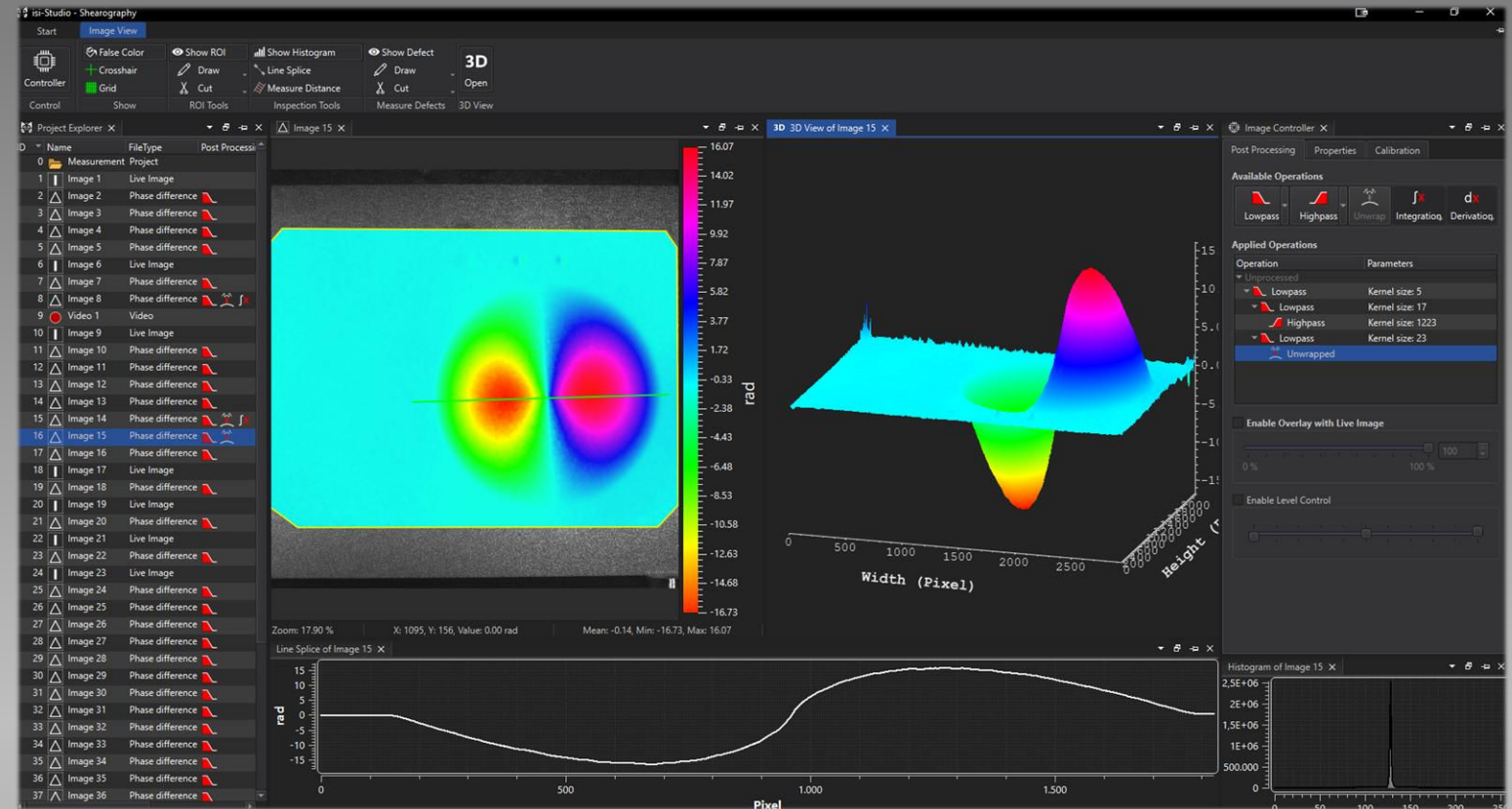




# isi-Studio Butterfly for Shearography

**NEW:** isi-Studio was **completely redesigned** and is now officially released in 2025 for SE4



# Introducing new isi-Studio Butterfly

## User Interface

- Modern and user-friendly interface
- Redesigned to make navigation **easier**, more **intuitive**, and more **efficient**
- Built with **dockable views** to support a customizable workspace layout
- Optimal for **multi-monitor setups**, with full **4K resolution support**
- Currently available in **English, German, and Chinese**, with **additional languages** planned for upcoming releases

Hardware can be easily controlled

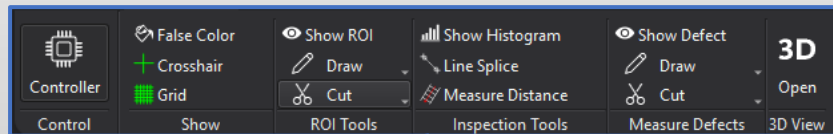
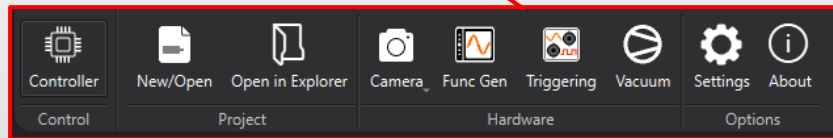
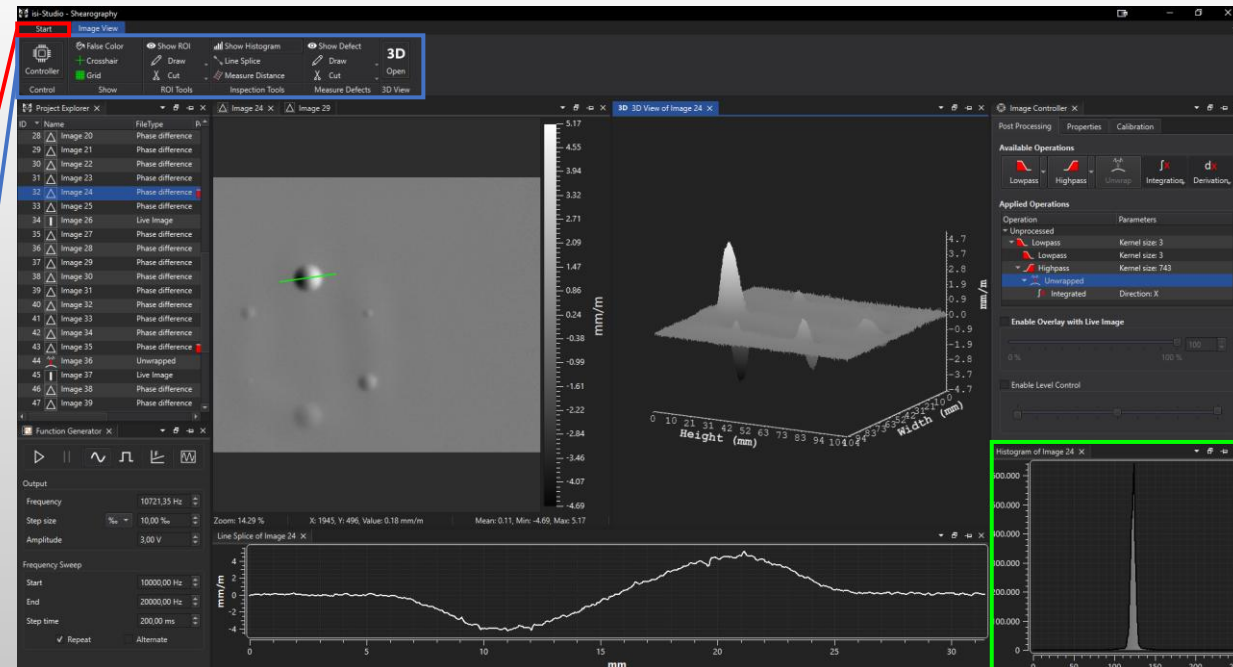


Image view options are more cleanly structured



panels can be rearranged flexibly

# Introducing new isi-Studio Butterfly

## Powerful Hardware Integration

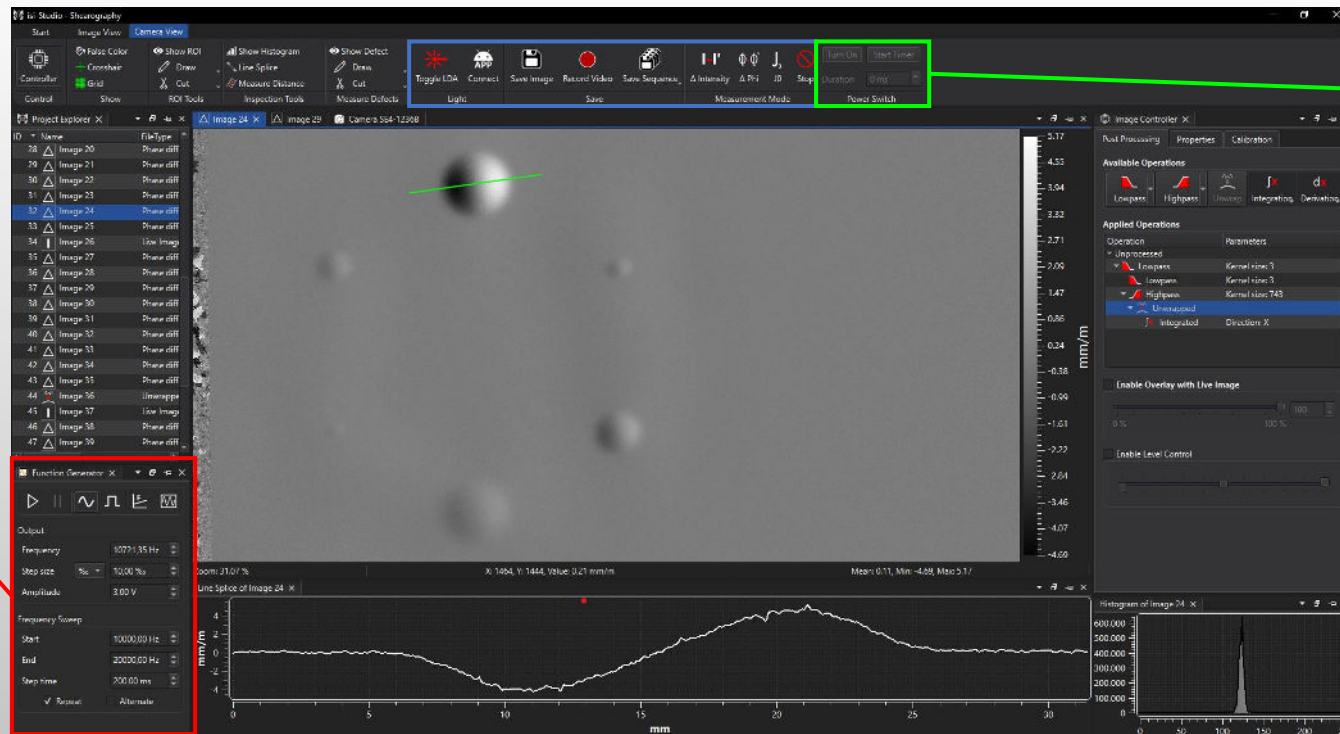
- All connected hardware is **managed and controlled** directly within isi-Studio
- All devices are **fully hot-pluggable** - the system **automatically recovers** without requiring a session restart
- Already prepared for **future hardware releases**, thanks to its **new software architecture**
- Offers **backwards compatibility** with numerous isi-sys hardware devices



Halogen Floodlight  
for thermal loading



Function Generator  
for dynamic loading  
with Piezoshaker



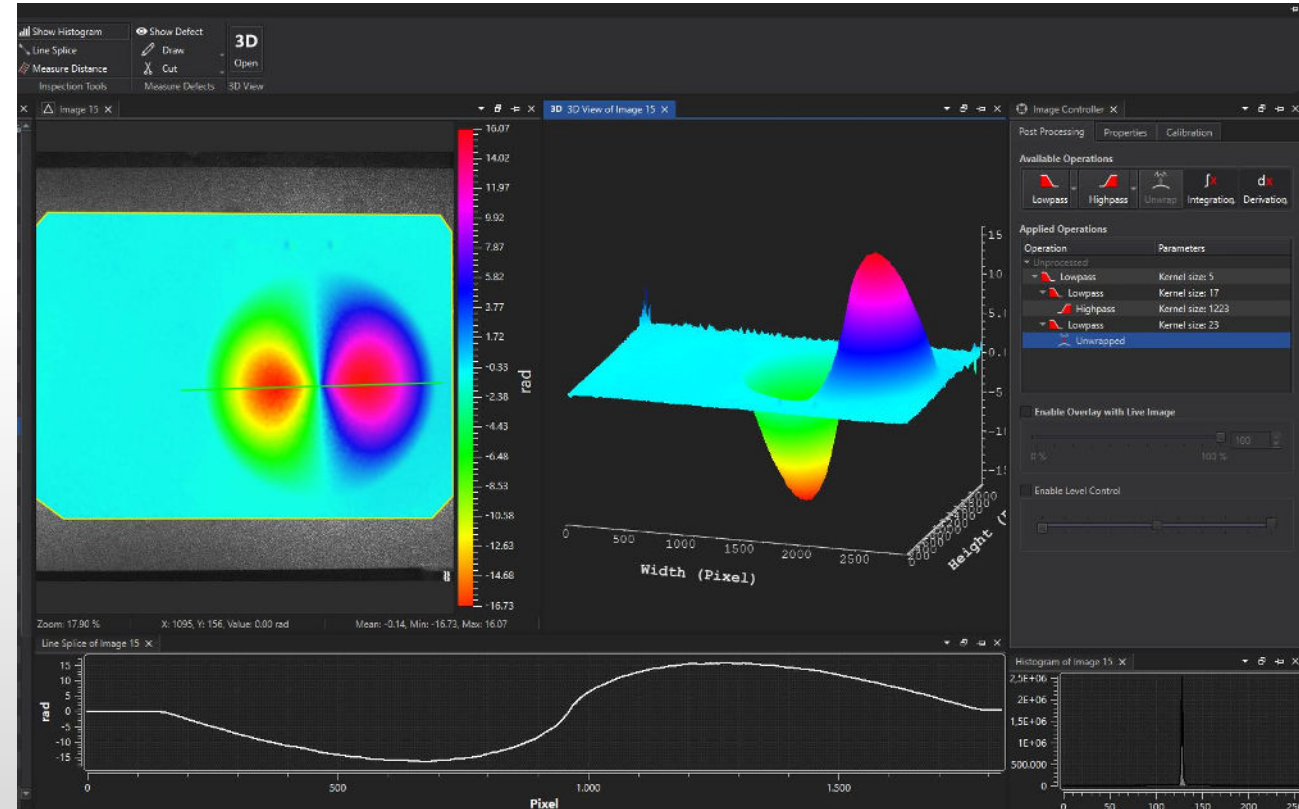
### Connected Hardware:

| Device Name         | Status    |
|---------------------|-----------|
| Switch Device       |           |
| Halogen Switch      | Available |
| Function Generator  |           |
| Function Gen        | Available |
| Camera              |           |
| SE4-1236B           | Available |
| Trigger I/O Control |           |
| SE-Control          | Available |
| Remote Shearing     |           |
| Piezomotor          | Available |

# Introducing new isi-Studio Butterfly

## Improved Algorithms

- Faster **real-time phase reconstruction** and **filtering**
- **Predefined measurement routines** enable repeatable results across sessions and users
- **Shear distance** and **image scale** can automatically be determined, reducing manual setup effort
- **Exposure time can be adjusted automatically** to achieve optimal results under varying conditions
- **Highlighting over- and underexposed pixels**, for easier manual exposure setup



## Advanced inspection tools

- Offers a set of tools for inspecting both **real-time** and **post-processed images**
- These include **Histogram View**, **Line-Splice View**, and **3D View**, all shown in the image above
- Precisely **determines defect size in millimeters**



# Introducing new isi-Studio Butterfly

## Compatible with isi-Studio App

- isi-Studio App retains the same features as before, with **improved performance** and a **more organized layout**
- The App enables **precise marking of defect locations** on the object's surface
- It includes **additional features** for SE4 Sensor operation, such as image saving, video recording, masking, or laser control (on/off)
- It also enables adjustment of the exposure time

