Imagista corporation

【NEW RELEASE】

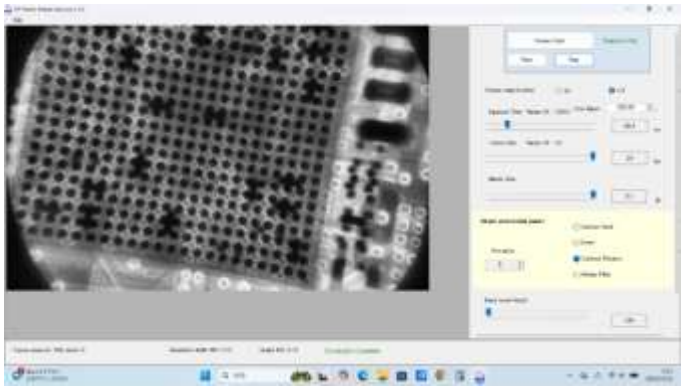
"X-Point Power Action": Advanced X-ray Image Processing & Viewing Software

We are pleased to announce the release of **X-Point Power Action**, a high-performance viewer software designed to maximize the capabilities of our "X-Point Super Zero" X-ray CMOS camera. This viewer is for the guest who want to evaluate our product and for the possible users of our X-ray cameras.

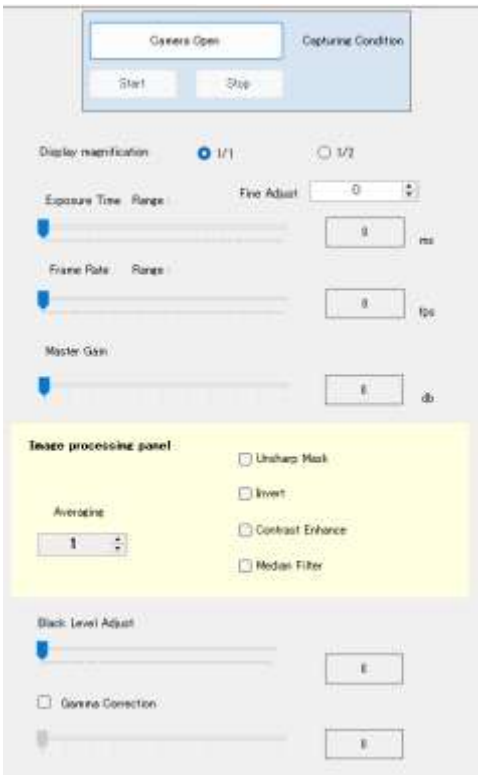
■ Intuitive Control for Optimal X-ray Imaging

X-Point Power Action is a viewer software developed with an uncompromising focus on on-site usability. Its standout feature is the integration of all controls for handling X-ray image—from camera settings like exposure time, frame rate, and gain adjustment to advanced image processing such as unsharp masking and contrast enhancement—onto a **single unified panel** alongside the live picture. This allows users to fine-tune video capture conditions while observing changes in real-time, enabling anyone to intuitively capture high-definition transmission images.

Main Screen



Control Panel



■ Key Features

- **GenICam Compliant**
  Supports GenICam, the global standard for industrial cameras. This ensures stable camera control and high versatility across various interfaces, including GigE and USB.

- **Advanced Image Processing via OpenCV**
  Built on the globally trusted **OpenCV** library. The software comes standard with powerful algorithms essential for X-ray inspection, such as noise reduction (median filters), sharpening, and image integration (averaging) for reducing inherent noise.

- **One-Panel Interface**

  Capture settings and image processing controls are functionally organized on a single screen. This eliminates the need to navigate complex menu hierarchies, allowing all tasks to be completed in one view.

■ Technical Overview

What is GenICam?

Generic Interface for Cameras(**GenICam) are** standards established by the EMVA (European Machine Vision Association) to provide a generic programming interface for industrial cameras. It allows cameras to be operated using a unified method regardless of the manufacturer's driver, ensuring excellent future system scalability and maintainability.

What is OpenCV?

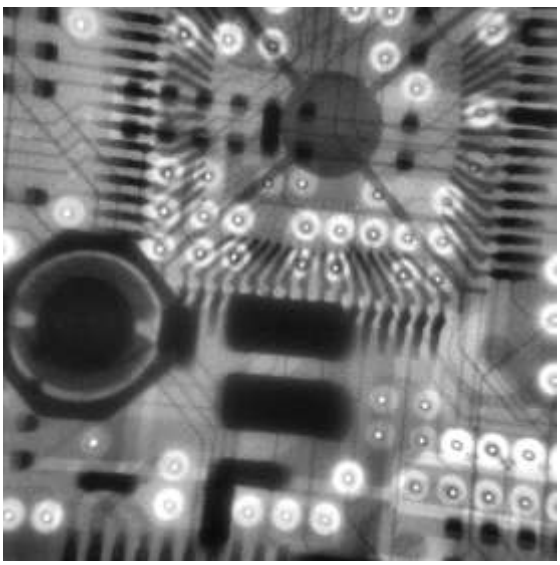
An extensive open-source library for image processing and computer vision. Widely utilized in everything from academic research to cutting-edge industrial automated inspection systems, it enables advanced image analysis and machine learning applications.

■ Product Visualization

- **Main Screen:** Displays high-resolution, 1936 × 1216 pixels video in real-time.
- **Image Processing Examples:**

Includes standard capture, contrast enhancement, monochrome inversion (negative), edge enhancement, and noise reduction.

[Contrast Enhancement]



[Inverted Image]