ONLINE IMAGING KIT

The Online Imaging Kit is a complete imaging environment that combines high-resolution industrial image acquisition hardware with an advanced image processing and analysis software framework. The platform enables users to capture images, apply processing techniques, and extract quantitative measurements.

Imaging Hardware System

Industrial Image Acquisition Unit

- 5 megapixel resolution
- Gigabit Ethernet-based acquisition
- GenICam compliant architecture
- High-quality digital imaging pipeline
- Continuous or triggered capture capability

Optical and Mechanical Support

- Compatible with laboratory optics
- Supports macro and micro observation
- Adjustable positioning
- Stable imaging geometry

Connectivity and Deployment

- Ethernet image transfer
- Long cable operation capability
- Connection through network infrastructure
- Multiple system accessibility

System Workflow

Image Acquisition → Image Processing → Analysis and Measurement → Application Output. The platform supports a complete imaging workflow from raw image capture to quantitative analysis and reporting.

Images are for representation purposes only

Scientific Imaging Platform

Integrated Image Acquisition and Analysis Platform

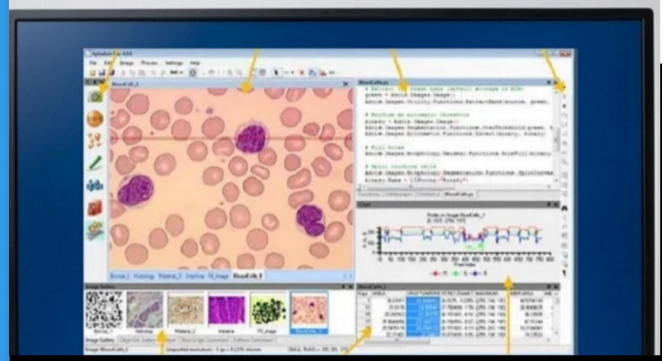
Application Domains

Scientific imaging workflows, quantitative image analysis, Biomedical, Industrial inspection research, material and surface evaluation, algorithm development and validation, academic laboratory environments.

91 44 43132630

info@onlsol.com

www.onlsol.com



ONLINE IMAGING KIT

Software Platform

Acquisition & Visualization

Tools to capture and manage images from cameras with display of live and stored images, including annotation and graphical overlay capabilities.

Processing & Analysis

Extensive library of operations: filtering, enhancement, segmentation, Frequency, Morphology,Texture and calibrated measurement tools for quantitative extraction of information.

Management & Object Sets

Structured representation of regions, contours, and skeletons with tools for storage, organization, and handling of images and derived objects.

specifications are subjected to change without prior notice

Development & Integration

The platform supports development of customized imaging applications and automation workflows.

- GUI based Development of entire application
- Native libraries and .NET components
- Python and C# integration
- Macro scripting support
- Standalone imaging application development
- Custom graphical user interfaces

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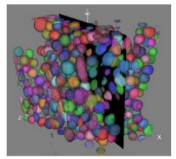
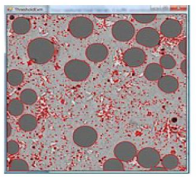
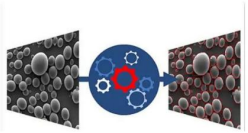
Optional Extension Modules



3D Image Processing: Processing, visualization and measurement of volumetric image data with quantitative analysis capabilities.

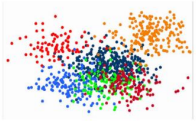
Large Image Processing: Support for large datasets through 64-bit processing architecture for high-resolution analysis.

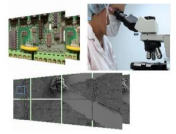




Deep Learning Extensions
Extensions to setup and use a Deep Learning solution

Color Extension and classification modules





Multifocus
Virtual Image Capture
Virtual Image Stitcher

SPECIAL MULTIPLE LICENCE FOR ACADEMIC SUBSCRIPTION

Organization Profile

Online Solutions Imaging Pvt Ltd provides imaging and vision engineering solutions including system design, integration, training and application development for the past 30 years in India. Online Solutions along with ADCIS France also can conduct special classes on various Imaging concepts online at cost.

System Design • Training • Integration • Support