

**DIGITAL  
PATHOLOGY**

**EVERY  
DIAGNOSIS  
COUNTS**

## Company Overview

Applied Spectral Imaging (ASI) is a Global Leader in biomedical imaging solutions for **Pathology, Cytogenetics, and Life Sciences**.

Since 1993, ASI has delivered cutting-edge imaging platforms that streamline the diagnostic workflow - from image acquisition to quantitative analysis, reporting, and LIS integration. With more than 5,000 systems installed in over 80 countries, ASI's technology drives diagnostic accuracy and laboratory efficiency through advanced applications in **karyotyping, FISH, digital pathology, IHC, IF and spectral imaging**.

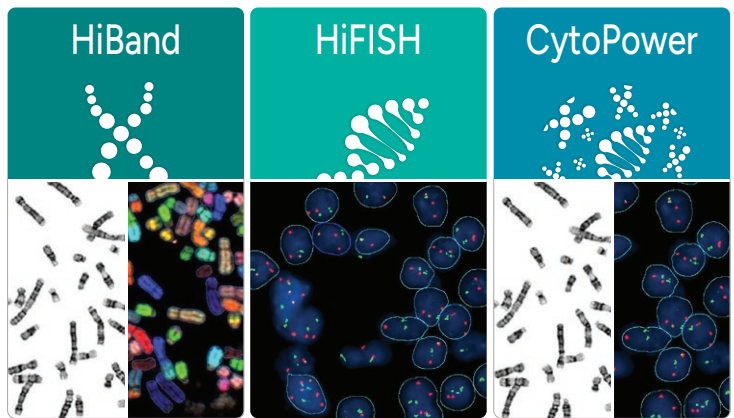
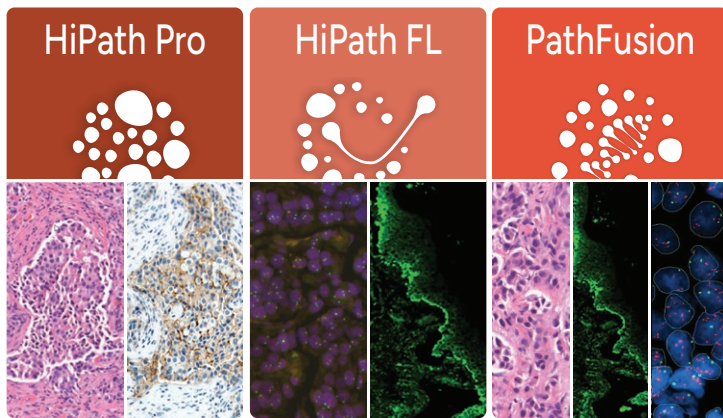
Now part of **ZYTOMICS**, a leader in cancer diagnostics, ASI integrates its pioneering imaging capabilities with ZYTOMICS' extensive portfolio of pathology reagents and automation. Both probe-agnostic and scanner-agnostic, ASI's platform provides the flexibility labs need to apply their preferred protocols with confidence.

ASI's portfolio includes **FDA-cleared and IVDR-compliant products** such as BandView, FISHView, SpotScan for CEP XY, UroVysion, ALK, and HER2/neu FISH, as well as the HiPath IHC Family for HER2, ER, PR, and Ki67.

Backed by a global distribution network and a reputation for outstanding support, ASI continues to set the standard in diagnostic imaging - committed to improving patient care with reliable, flexible, and future-ready solutions.

**Together, ZYTOMICS and ASI combine a broad reagent portfolio with advanced digital imaging - because Every Diagnosis Counts.**

## Product Portfolio



## Comprehensive Digital Pathology Solution

### Scanning, Visualization and Analysis of Brightfield and Fluorescent Slides

ASI's digital pathology platform is a comprehensive solution for the scanning, visualization and analysis of both **brightfield and fluorescence whole slide images (WSI)\***.

Enabling **tissue matching between H&E, IHC, FISH and/ or IF specimens\***, the system supports pathologists in identifying more accurately tissue area for analysis.

The platform also features semi-quantitative analysis of both **nuclear and membranous IHC staining (HiPath Pro)**, visualization of **immunofluorescence (IF) images (HiPath FL)** as well as combined visualization of brightfield and fluorescent specimens (**PathFusion**).

Enabling the review of **H&E and FISH images side-by-side**, PathFusion supports the identification of

FISH signals in the morphological context, helping to confirm tissue regions for scanning and analysis at higher magnification. Furthermore, combined visualization of up to four registered images of **H&E and fluorescent immunostains** helps correlate **protein expression with tissue architecture**, streamlining the analysis of skin and renal biopsies.

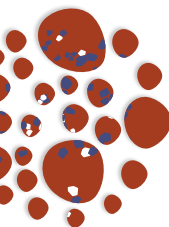
Finally, **tissue detection**, tissue matching with brightfield images acquired on **third-party scanning systems**, and semi-quantitative analysis across **multiple sample types and FISH probes** further enhance the flexibility and diagnostic efficiency of ASI's digital pathology platform.



### Image Acquisition Platforms

From 1-slide manual capture to 9 or 99-slide scanners, ASI offers **versatile** and **modular** platforms which easily adapt to the evolving **needs** of the lab. Equipped with computer-aided tissue detection algorithms for both **brightfield and fluorescent** specimens, ASI's digital pathology scanning technology identifies and locates tissue on the slide, reducing the potential for human error and improving overall scanning efficiency. This **unattended continuous scanning** helps technologists focus on other important tasks while handling **large volumes** of slides and maintaining **high productivity**.

\* Whole Slide Imaging and tissue matching are for Research Use Only.



# HiPath Pro

**HiPath Pro** is a state-of-the-art digital pathology software that provides standardized analysis of **brightfield images acquired on ASI or third-party scanners**. With its streamlined workflow, HiPath Pro offers a user-friendly interface featuring advanced marking and annotation tools, **tissue matching\*** across multiple images, and automatic transfer of regions of interest between registered slides. **Semi-quantitative IHC analysis** of both nuclear and membranous staining can be performed on images acquired on ASI or other scanning systems.



## Semi-quantitative IHC Analysis

Supporting both nuclear and membranous staining, HiPath Pro's IHC analysis features multiple markers including **ER, PR, HER2, Ki67 and more**. The analysis is applicable to images acquired on ASI or **other scanning systems**.



"Manual HER2 assessment may be hampered in cases of high intra-tumoral heterogeneity, particularly when assessing HER2 low.

In such cases, computational analysis emerges as a useful integrative method providing objective and reproducible scoring across heterogeneous tissue."



*Petcu E et al. Virchows Archiv 487,  
PS-02-004, 2025*

## ScanLink Pathology

ScanLink enables **seamless import of brightfield whole slide images\*** from external scanners for agnostic viewing and analysis. Compatible with multiple image formats including **DICOM, SVS, DZI** and **NDPI**, ScanLink enables the manipulation of third-party brightfield images as if they were acquired on the ASI scanning platform.

## Benefits to your lab

- ◆ Computer-aided **tissue detection**
- ◆ Review up to **80X digital zoom**
- ◆ **Matching** of up to 4 images
- ◆ Automatic **transfer of ROIs**
- ◆ Semi-quantitative **IHC analysis**
- ◆ Support **multiple image formats**

\* Whole Slide Imaging and tissue matching are for Research Use Only.

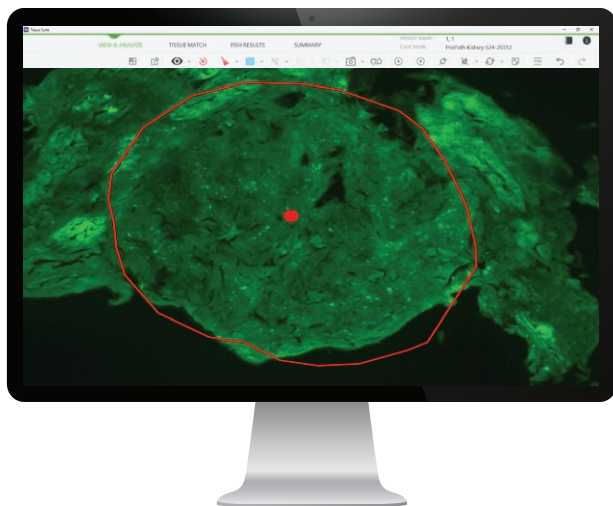


# HiPath FL

HiPath FL enables the scanning and visualization of **fluorescence whole slide images\*** at 20x or 40x magnification, supporting the review of fluorescent signals across the entire tissue section. This broader view supports a more accurate selection of relevant regions for high-magnification imaging and analysis.

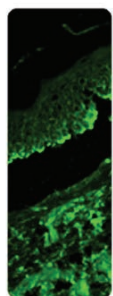
With its **tissue matching\*** capabilities, HiPath FL supports **side-by-side visualization** of up to four fluorescent specimens, enabling efficient review of FISH and IF panels.

Beyond analysis, HiPath FL allows **preservation of fluorescence** data in a durable, shareable digital format that can be revisited for comparison or follow-up.



## Benefits to your lab

- ◆ Digital review of **multiple fluorescent specimens** side-by-side
- ◆ Detection and evaluation of **FITC-labeled biomarkers** across multiple targets
- ◆ Workflow applicable to multiple tissue and cell types, including **skin and kidney**
- ◆ **Stain-vendor agnostic** for enhanced lab flexibility
- ◆ **Archiving of entire fluorescent slide** for future review and comparison



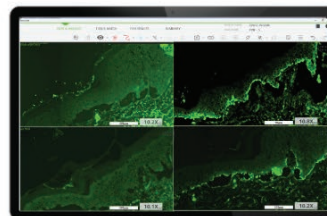
IF slide staining



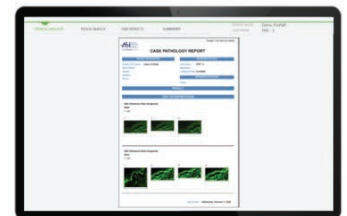
WSI scan at 20x or 40x



Selection of up to four IF images from the image gallery

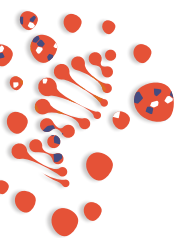


Review of up to four registered IF images side-by-side



Case report to be sent to the LIS

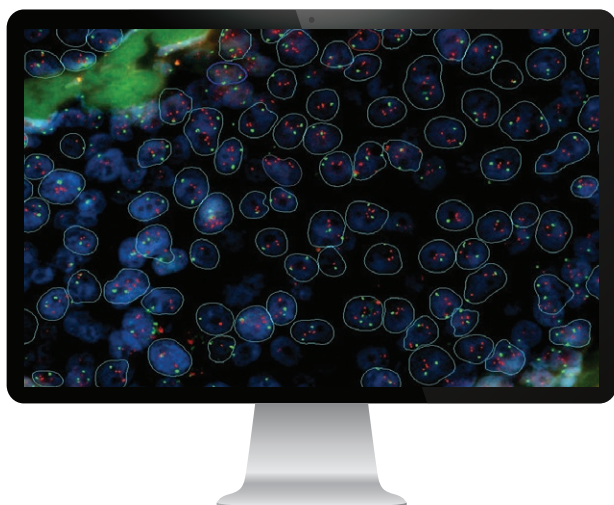
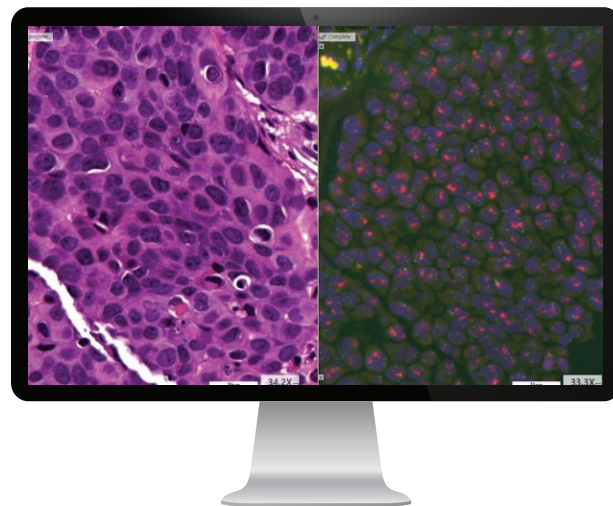
\* Whole Slide Imaging and tissue matching are for Research Use Only.



# PathFusion

PathFusion offers a comprehensive digital pathology workflow, **bridging the gap between brightfield and fluorescence imaging** across multiple probe vendors and sample types.

With its **tissue matching\*** capabilities and its automatic transfer of regions of interest from H&E or IHC images acquired on ASI or third-party scanners to whole slide FISH or IF images\* scanned on the ASI platform, PathFusion combines **versatility** and **reliability**.

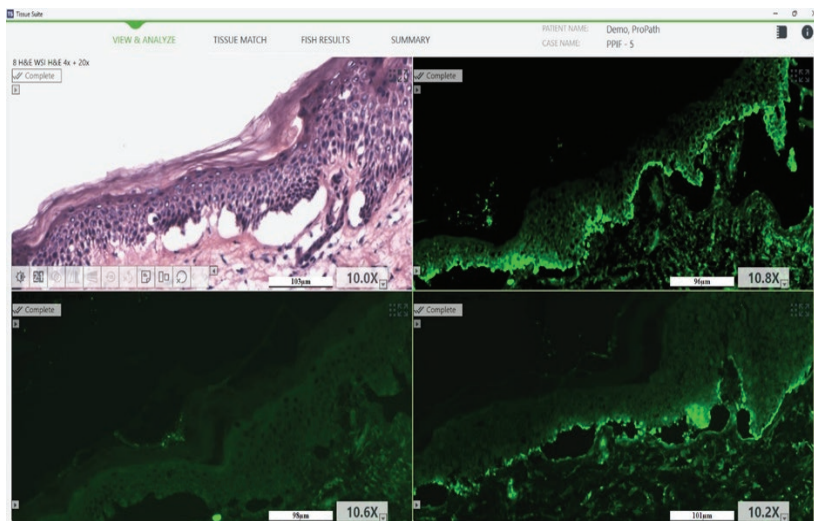


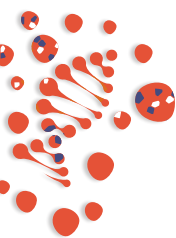
## Semi-quantitative FISH Analysis

Precise targeting of FISH tissue enables capturing of relevant frames at high magnification for **standardized signal detection and cell classification**. This, combined with robust and consistent image quality, offers a reliable analysis, even for complex probes and samples.

“Synchronous review of H&E and immunofluorescent (IF/FITC) specimens helps correlate signal localization directly with tissue morphology, particularly useful in the examination of dermatopathology panels.”

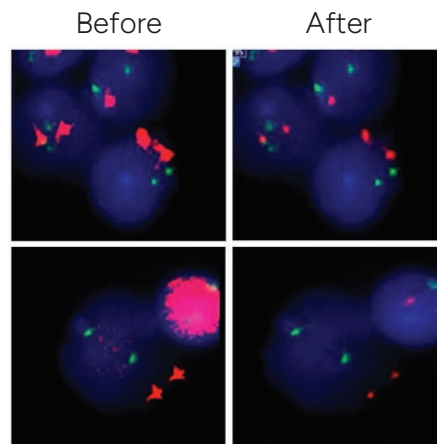
Law R et al. *Laboratory Investigation* 106, 412, 2026





## High Image Quality

ASI's unique scanning capabilities enable image acquisition with **unlimited Z-stack layers**, powered by proprietary algorithms designed to **detect even faint fluorescence signals**. Adaptive statistical algorithms **dynamically optimize acquisition parameters**, while robust signal detection, **debris reduction**, and image enhancement technologies ensure exceptional fluorescence image quality.



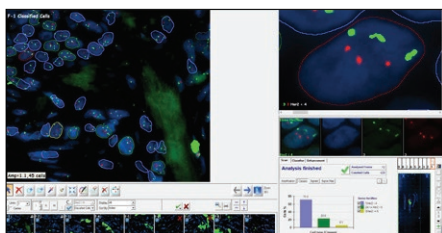
Consistent Signal Appearance

## Benefits to your lab

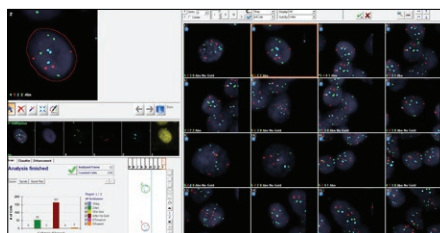
- Single application for side-by-side review of H&E, IHC, FISH and/or IF WSI\*
- Applicable to **multiple tissue and cell types**
- Precise targeting** for high-magnification scanning
- Z-Stacking & 3D Focus** for higher accuracy
- Export of FISH images** to image portals

“Quantitative imaging provides highly reliable HER2 FISH analysis by a more objective enumeration of a greater number of cells, removing manual scoring bias and importantly improving standardization across scoring with similar results to manual methods.”

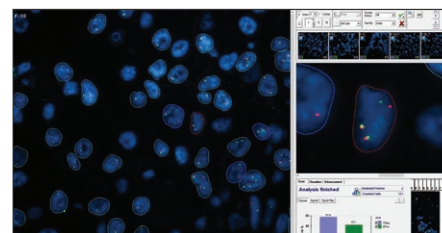
*Wilcock DM et al. Arch Pathol Lab Med 147(12):1402-1412, 2023*



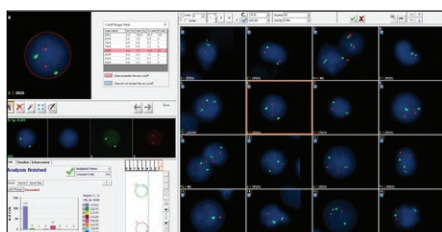
HER2/neu (Breast)



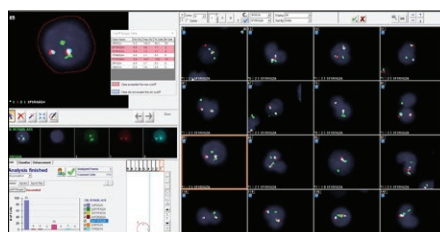
UroVysion



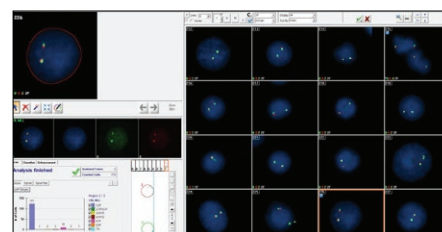
ALK (Lung)



Hematology Enumeration



Hematology Fusion



Hematology Breakapart

# ● Bridging the Gap between Brightfield Pathology and Fluorescence Imaging

# 1

## Scan, View & Mark

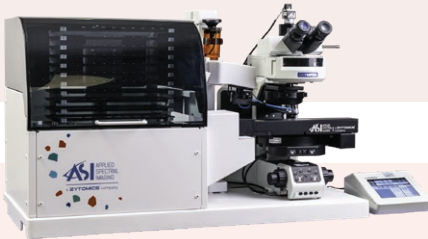
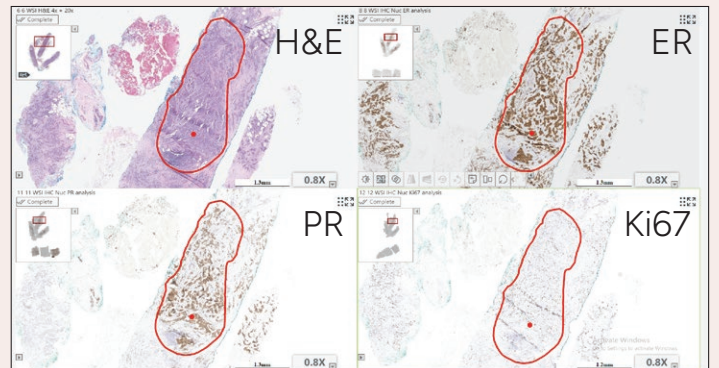
Acquire brightfield and fluorescence images in a single platform\*

# 2

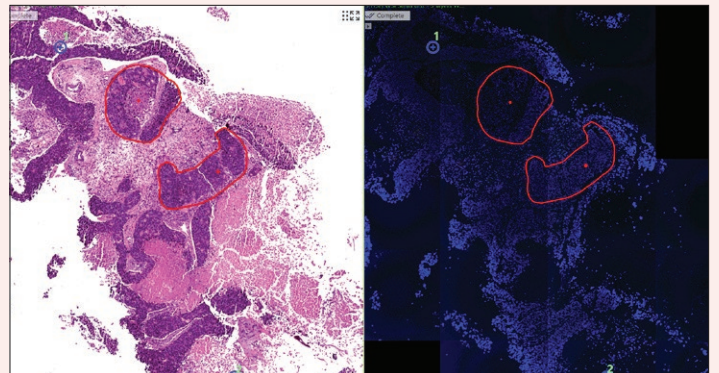
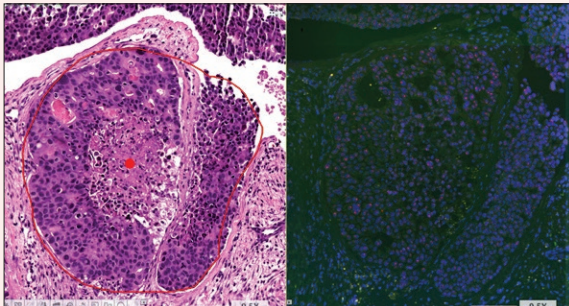
## Match & Align

Simultaneously review up to 4 registered slides and automatically transfer regions of interest

HiPath Pro



PathFusion



\* Brightfield images can also be imported from third-party scanners

# 3

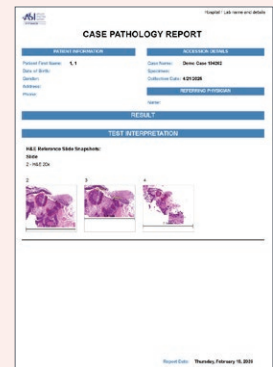
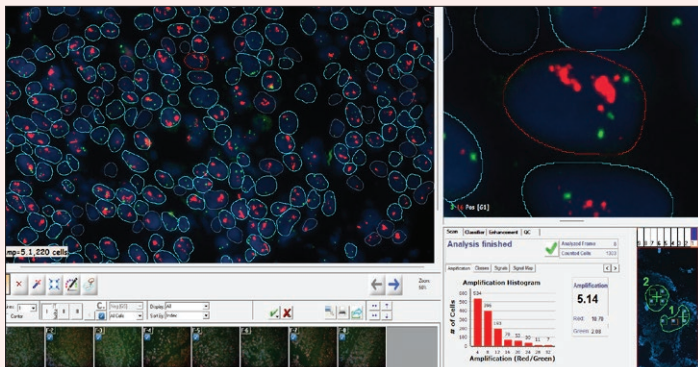
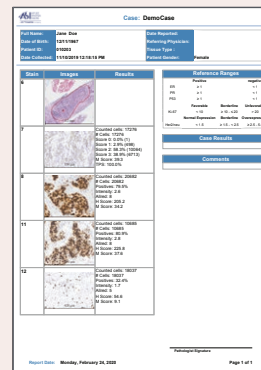
## Analyze

Perform analysis for standardized results

# 4

## Report

Prepare customized reports including screenshots, images and results

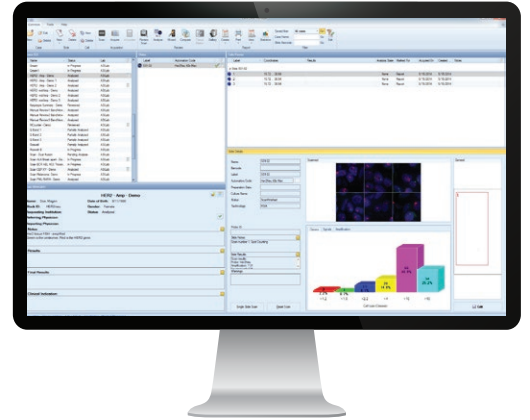


## Case Data Manager and LIS Connectivity

With its **Case Data Manager (CDM)** application, ASI offers a unique and comprehensive solution that can help streamline the data management process and provide a more **efficient and secure system** for the pathology laboratory. By integrating with the **Lab Information System (LIS)**, ASI's platform can help manage data more effectively, saving time and resources.

### Benefits to your lab

- ◆ **Paperless** workflow
- ◆ Central portal and **database**
- ◆ Secure integration with **LIS**
- ◆ APIs supporting **multiple LIS integrations**
- ◆ Supports **HL7/FHIR, XML, ShireText** and more
- ◆ Data integrity & **HIPAA compliance**



## GenASIs AnyWhere

ASI's **advanced virtual access** solution enables HIPAA-compliant access to your lab's GenASIs platform from any location. This secure solution makes remote data management easy, ensuring that you can **access your lab's data anytime, anywhere**.

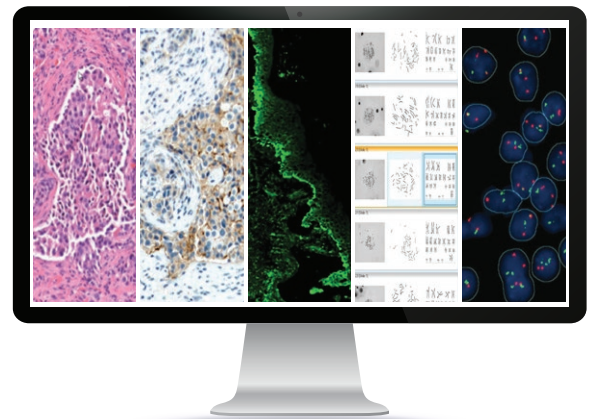
### Benefits to your lab

- ◆ Optimal for **remote consultation**, educational and training needs
- ◆ Uncompromised **data security**
- ◆ Efficient management and maintenance of **multiple systems, and users**
- ◆ Compatible with Microsoft Remote Desktop Services (RDS) **Citrix, VMware Horizon**



## All-in-One Solution

Combining digital pathology, karyotyping, IF and FISH, ASI's **All-in-One** solution offers a **comprehensive workflow** from scanning to image viewing, analysis and reporting for both brightfield and fluorescent images. All-in-One provides a modular and versatile solution addressing the needs of both **cytogenetics** and **pathology** laboratories in one single platform.



## Advanced Reporting

ASI's reporting tool provides a user-friendly interface to create laboratory-branded **customizable reports** according to the user's needs.

### Benefits to your lab

- ◆ **Dedicated report** for each application
- ◆ **Semi-quantitative** and **graphical** results
- ◆ User-selected **screenshots** and **images**
- ◆ **Freehand report** using multiple annotation styles

## Future-Ready IT System

Take advantage of ASI's future-ready platforms to enhance the **compliance and security** of your lab operations.

### Benefits to your lab

- ◆ **IT readiness** with Windows 11, MS Windows Server 2025, MS SQL Server 2025
- ◆ Transparent Database Encryption (**TDE**)
- ◆ **Enterprise infrastructure** for larger databases
- ◆ Citrix/RDS **virtualization**
- ◆ **Cybersecurity compliance** including penetration test certificate

## LabLife Statistics



**Benchmarks**  
Calculate performance and track KPIs



**Optimization**  
Identify best practices to increase ROI



**Growth**  
Justify investment in additional capital equipment



**Annual Review**  
Compare performance year on year

## Diverse Image Acquisition Platforms



1-Slide Capture System



9-Slide Scanning System



99+ Slide Tray Loader



HyperSpectral System



Review & Analysis Station

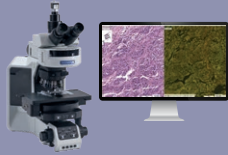


AnyWhere Remote Connectivity

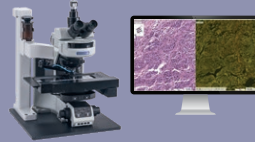
## Adapted Service Offering

The ASI team is committed to supporting your laboratory by providing expert and superior service throughout the year. Different **Service Packages** are available to provide the highest level of service according to your specific needs.

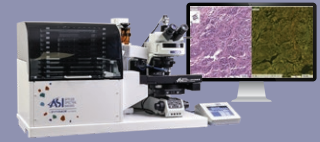
# System Specifications



Manual 1 Slide



9 Slide Motorized Stage



99+ Slide Tray Loader

		HiPath Pro	PathFusion	HiPath Pro	HiPath FL	PathFusion	HiPath Pro	HiPath FL	PathFusion
Microscope Support	OLYMPUS	BF upright microscopes	BF+FL upright microscope	BX63* BF	BX63* FL	BX63* BF   FL	BX63* BF	BX63* FL	BX63* BF   FL
	ZEISS			Axiolmager Z2 BF	Axiolmager Z2 FL	Axiolmager Z2 BF   FL	Axiolmager Z2 BF	Axiolmager Z2 FL	Axiolmager Z2 BF   FL
Objectives	OLYMPUS	4x/0.16NA 20x/0.5NA 40x**/0.75NA	4x/0.16NA 20x/0.5NA 40x**/0.75NA 60x/1.25NA	4x/0.16NA 10x**/0.3NA 20x/0.5NA	4x/0.16NA 10x**/0.3NA 20x/0.8NA 40x**/0.75NA	4x/0.16NA 10x/0.3NA 20x/0.5NA 40x**/1.3NA 60x/1.42NA	4x/0.16NA 10x/0.3NA 20x/0.5NA	4x/0.16NA 10x**/0.3NA 20x/0.8NA 40x**/0.75NA	4x/0.16NA 10x/0.3NA 20x/0.5NA 40x**/1.3NA 60x/1.42NA
	ZEISS	5x/0.16NA 20x/0.5NA 40x**/0.75NA	5x/0.16NA 20x/0.5NA 40x**/0.75NA 63x/1.44NA	5x/0.16NA 10x**/0.3NA 20x/0.5NA	5x/0.16NA 10x**/0.3NA 20x/0.8NA 40x**/0.75NA	5x/0.16NA 10x/0.3NA 20x/0.5NA 40x**/1.3NA 63x/1.44NA	5x/0.16NA 10x/0.3NA 20x/0.5NA	5x/0.16NA 10x**/0.3NA 20x/0.8NA 40x**/0.75NA	5x/0.16NA 10x/0.3NA 20x/0.5NA 40x**/1.3NA 63x/1.44NA
Camera	5MP CMOS Color			5MP CMOS Color	5MP CMOS B&W or Color	5MP CMOS Color	5MP CMOS Color	5MP CMOS B&W or Color	5MP CMOS Color
Slide Capacity	1 Slide			9 Slides			99 Slides		
Barcode Reader	Handheld 1D/2D			Handheld 1D/2D			Integrated 1D/2D		
Automated Oil Dispenser	N/A			NA	Optional	Integrated	NA	Optional	Integrated
Dimensions (WxDxH)	According to installed microscope			61cm x 69cm x 85cm (24"x27.2"x33.5")			100cm x 90cm x 90cm (39.4"x35.5"x35.5")		
Weight	According to installed microscope			45kg   99.2lb			80kg   176.4lb		

\* ASI still supports Olympus BX61

\*\* Optional

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