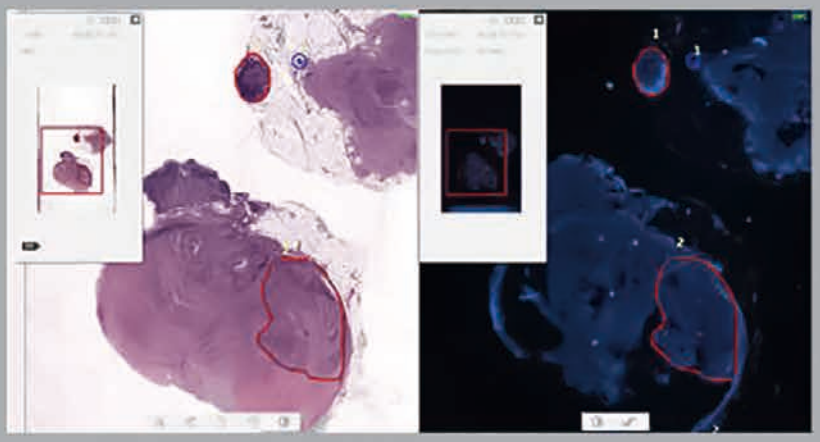
Every Diagnosis Counts

THE NEW

PathFusion

Full Pathology Imaging Suite

H&E | IHC | FISH



POWERED BY GENASIS

APPLIED SPECTRAL IMAGING

The Ultimate Digital Pathology Workflow

Get quantitative results in support of conclusive diagnosis

Welcome to your optimized workflow:

1

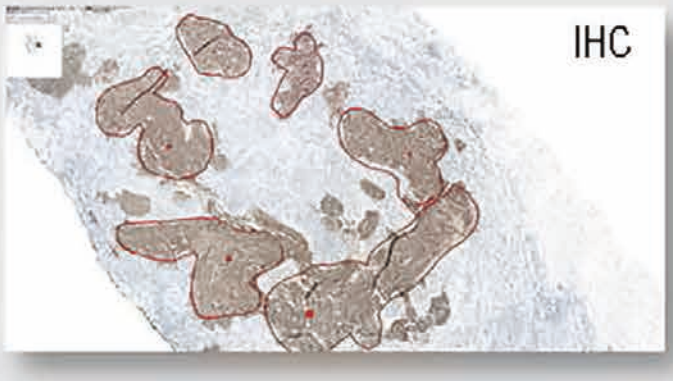
View & Mark

your reference slide

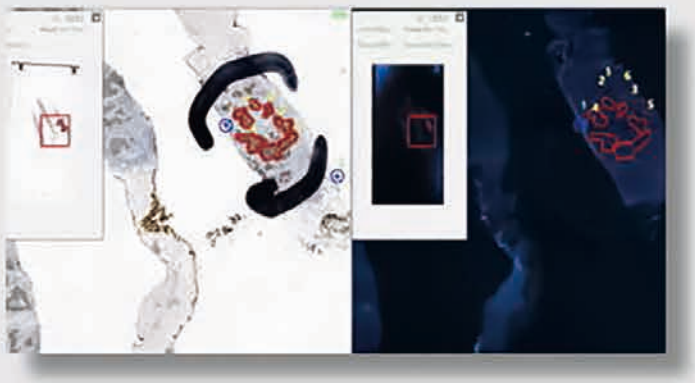
2

Match

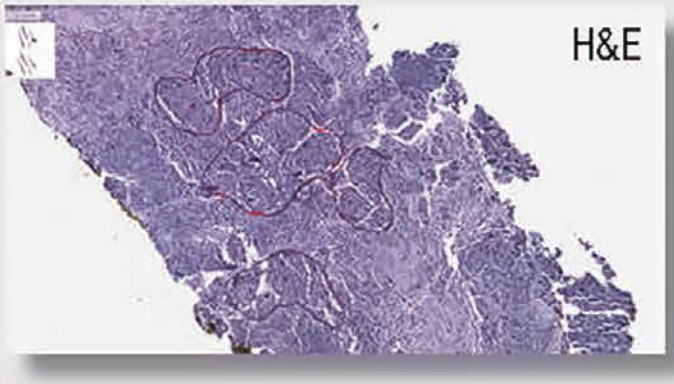
H&E or IHC tissue regions with FISH

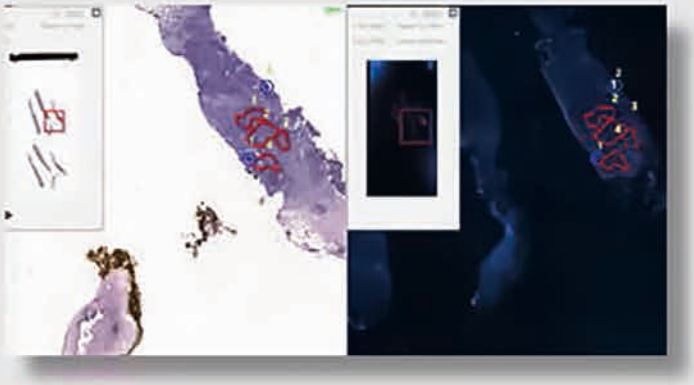


Whole Slide Imaging



Scan selected regions of interest in high magnification for FISH analysis





View&Mark >>> Match >>> Analyze >>> Report >>> Complete!

3

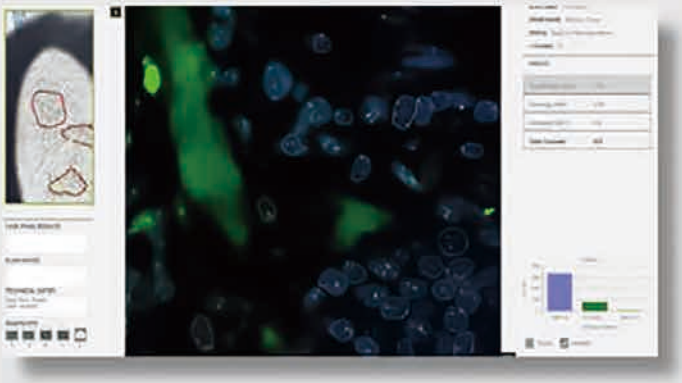
Analyze

for quantitative results

4

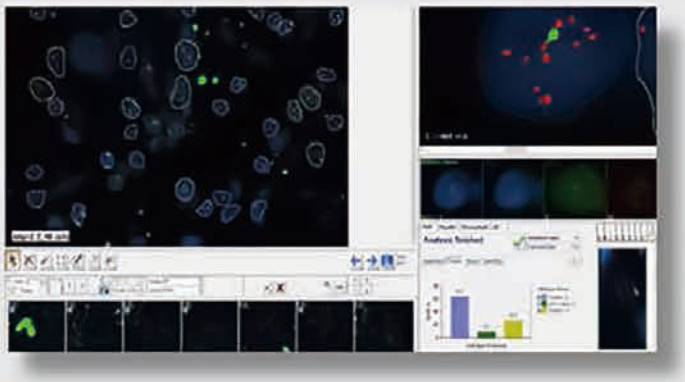
Report

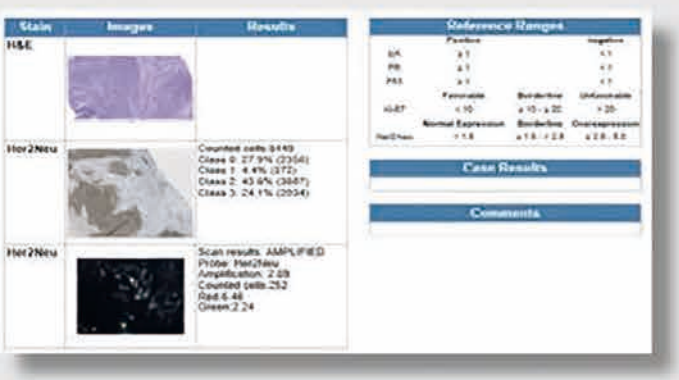
pathologist review
and case sign out



Full FISH analysis with reference map

Detailed custom reporting





Everything you need for a Complete Digital Pathology System

Multi Application

Comprehensive solution for a wide range of sample types, including primary H&E, IHC antibodies and FISH probes

Diagnostic Confidence

Accurate and validated computer-assisted analysis provides higher confidence in patient assessment

Workflow Efficiency

Modern computerized workflows increase lab productivity and improve FTE savings

High Throughput Scanner Captures Both Brightfield and Fluorescent Slides

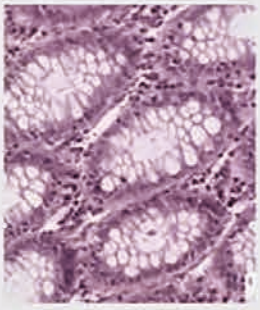
"Annotated whole slide images of H&E and FISH sections can be digitally aligned, so that areas of tumor within a section can be matched and evaluated with a greater degree of accuracy. Images can be archived permanently, providing a means for examining the results retrospectively."

Liew M, Rowe L, Clement PW, Miles RR, Salama ME., J Pathol Inform

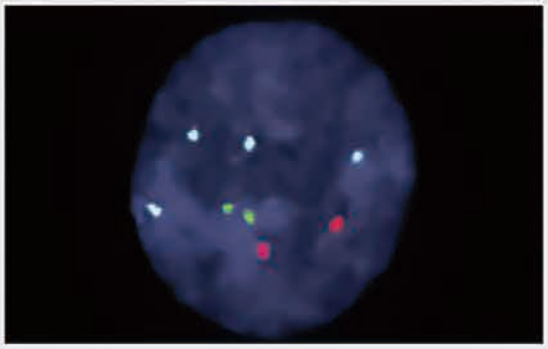
Digitize Your Slides
Start & Walkaway Scanning

Efficiency, Accuracy, Ease-of-Use

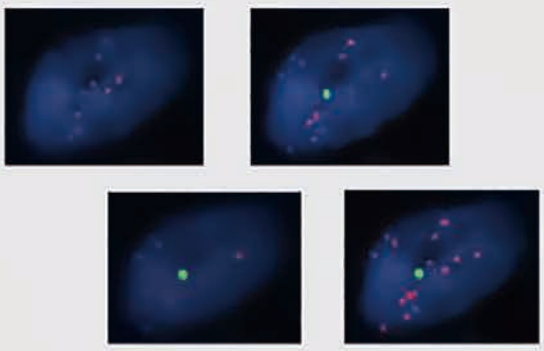
User Independent Scanning
Unattended continuous scanning increases lab productivity and supports greater slide volumes



Whole Slide Imaging
Fast and intuitive imaging viewing platform. Advanced navigation and visualization; measurement, annotation and marketing tools.



High Image Quality
High sensitivity sensor, high quality immersion oil, 60X plan apochromatic objective, fluorescent filter control, auto-exposure, anti-debris algorithms and automatic image enhancement.



Z-Stacking & 3D Focus
Image acquisition with unlimited layers of automatic Z-stack and proprietary algorithms for automatic detection of faint signals all lead to impeccable analysis and higher accuracy.

Quantitative FISH Analysis

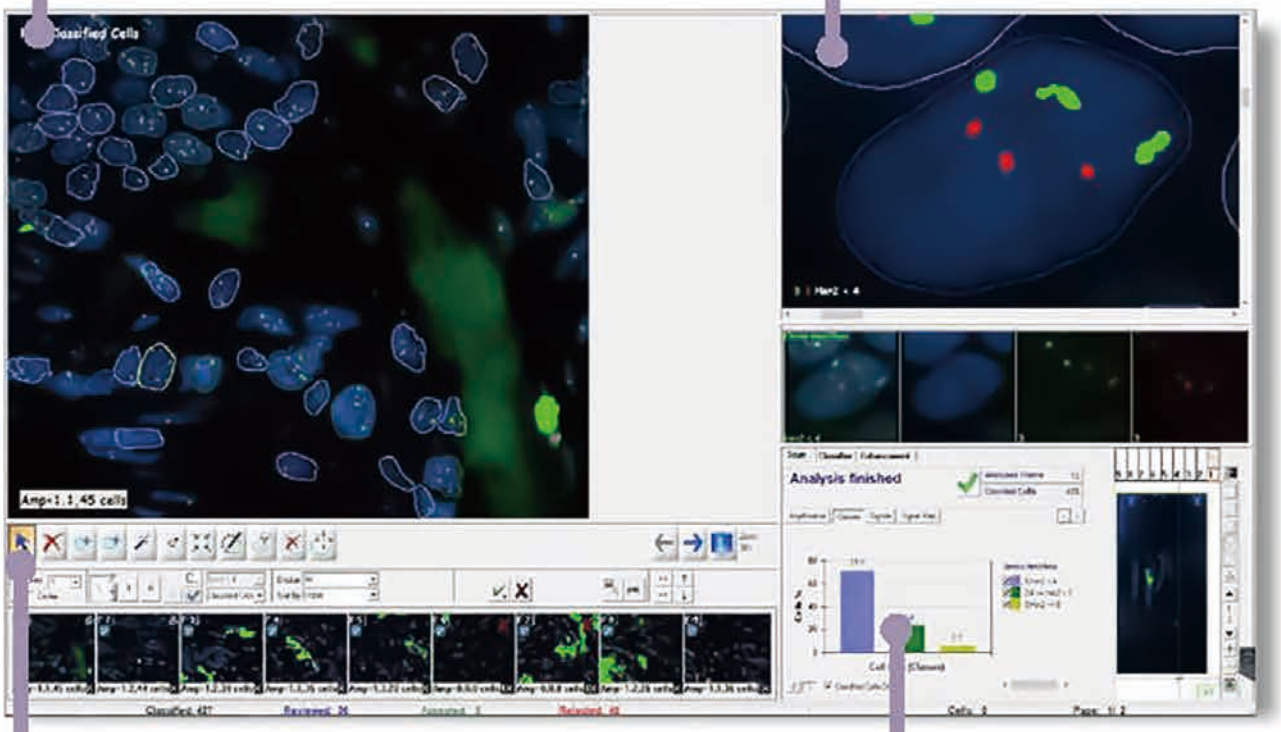
Specialized algorithms for objective results:
Proprietary algorithms for automated cell identification, signal detection and classification bring you highly accurate, standardized and reliable results.

Optimized User Experience

Onscreen analysis with user customizable workspaces, "Magic Tool" for multiple analysis operations and post-scanning sensitivity adjustment

High image quality with flexible objective options based on specimen and user need - 40X, 60X or 100X

Customizable workspace with multiple view options



Novel "Magic Tool" for easy and fast cell addition, deletion and boundary editing

Quantitative analysis with pre-defined stop criteria and detailed results

Unlimited FISH Analysis across sample types

Vast Clinical Use

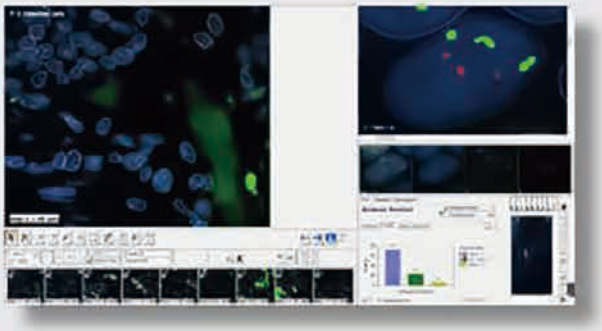
- Breast
- Lung
- Prostate
- Gastrointestinal
- Skin
- Bladder
- Brain
- Cervix
- Bone Marrow
- Blood
- Lymph nodes

"Digital FISH analysis provides more efficient and accurate results and better patient care in comparison to traditional FISH methods."

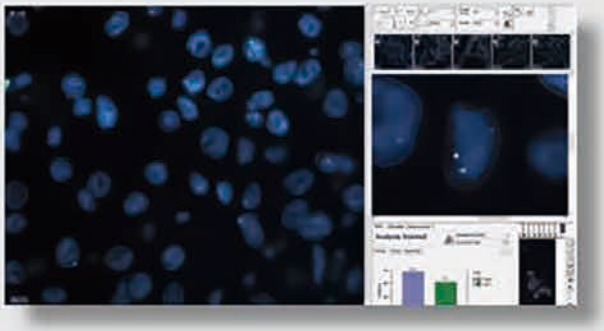
Liew M, Rowe L, Clement PW, Miles RR, Salama ME., J Pathol Inform

Vendor neutral probes compatible with all sample types, does not limit your probes selection.

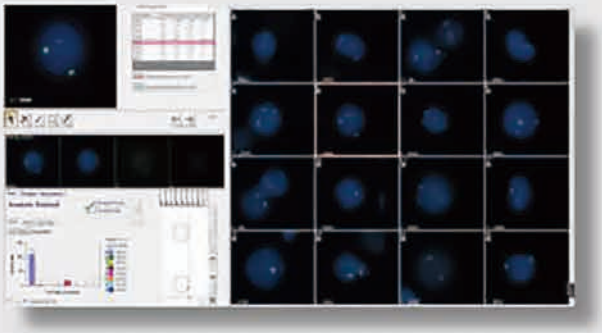
HER2/neu (Breast)



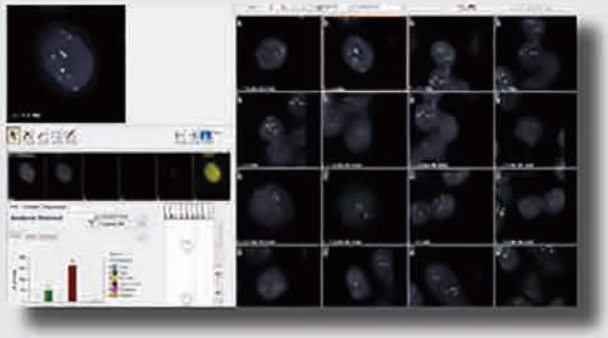
ALK (Lung)



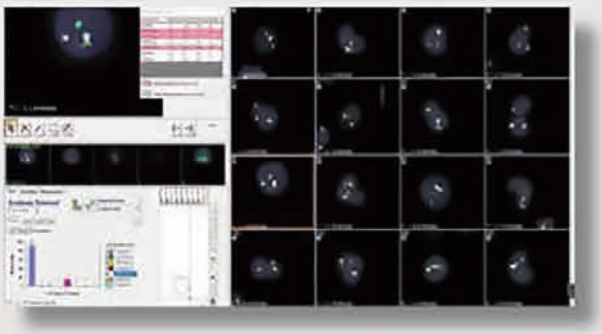
Hematology Enumeration



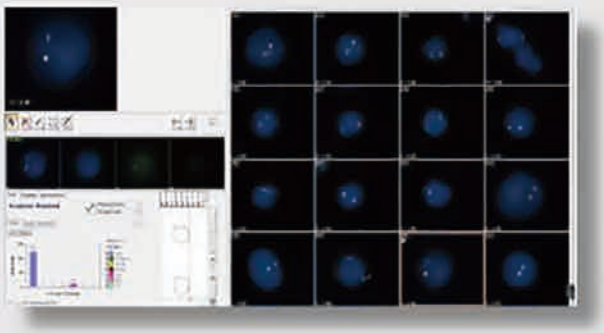
UroVysion



Hematology Fusion

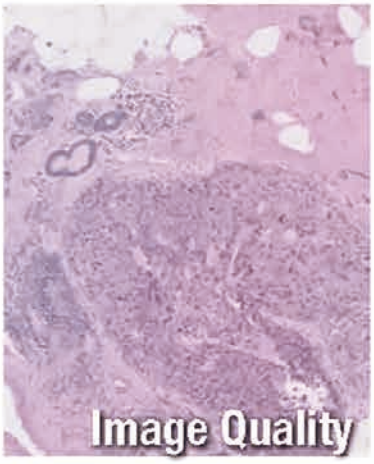


Breakapart



Benefits to your Diagnostics:

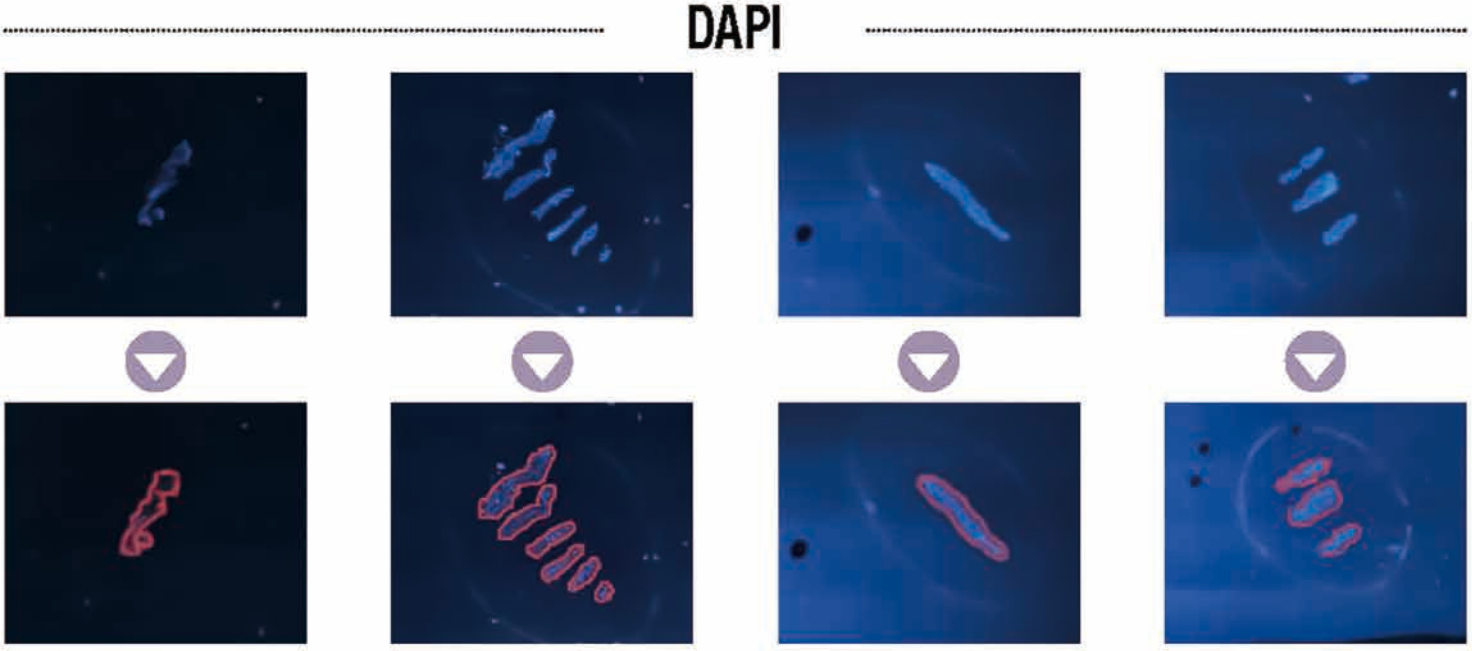
- Exceptional on-screen **image quality**
- Accurate, computer-aided analysis for **standardization**
- **Intuitive navigation** and improved workflow
- **Signal segmentation** and quantitative results
- And so much **more**...



Artificial Intelligence based Algorithms: FISH Tissue Detection

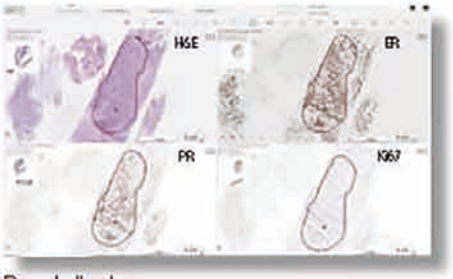
Validated for Precision

Our Artificial Intelligence based DAPI tissue detection algorithm is trained and validated to identify tissue on whole slide imaging with high accuracy

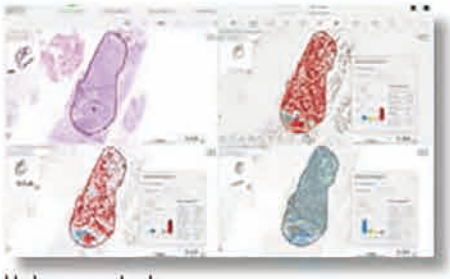


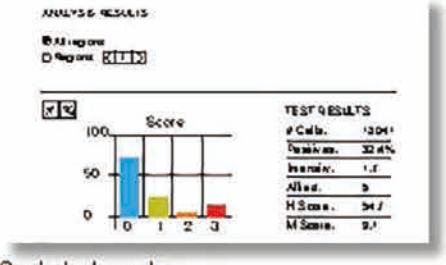
Integrate IHC for more testing capabilities

IHC automated workflow on WSI with panel display



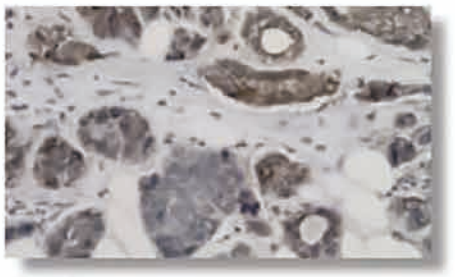
Panel display

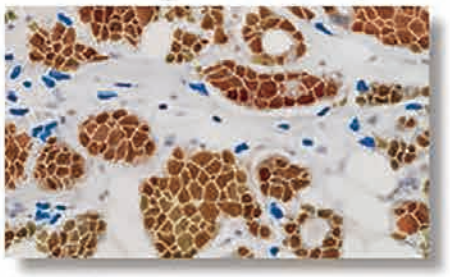

Unique analysis

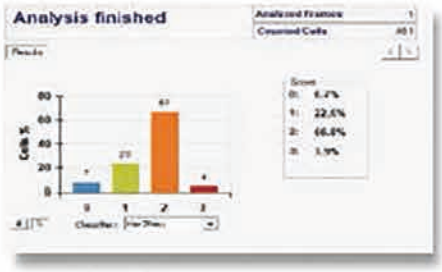


Statistical results

*IHC manual workflow with digital analysis for standardization


Original


Analyzed

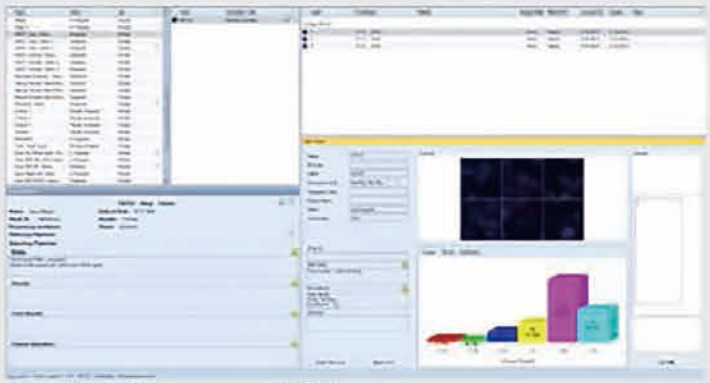


Statistical results

All nuclear and membrane staining. Wide range of tissue samples (e.g. breast, lung, colon, bladder, brain). Vendor neutral - supports markers by all suppliers

Data Management and Connectivity

Central Portal and Database. Easily Integrates with Lab LIS


Case Data Management (CDM)

- Efficient
- Comprehensive
- Eliminates human error

* FDA CLEARED

*FDA cleared for FISHView, SpotScan for CEP XY, UroVysion, ALK and HER2/neu FISH, and for HiPath IHC Family for HER2, ER, PR, and Ki67, on the manual configuration

Become a Data-Driven Lab with LabLife

NEW

Generate lab performance statistics

LabLife ™ for Lab Management

Benchmarks

Calculate performance benchmarks and track your KPIs. Meet certification and regulatory requirements

Optimization

Identify best practices to increase ROI per case and focus improvement efforts

Growth

Justify investment in additional capital equipment for the lab

Annual analysis and review

Compare performance year on year and make data driven decisions

Work from anywhere

GenASIs AnyWhere™ for Remote Access

Lab Connectivity Anytime, Anywhere

Review, analyze and sign off case information from any location via a secured network

Advanced Reporting

1D/2D Barcode Reader

LIS Connectivity

- ✓ Performance
- ✓ Security
- ✓ Data Integrity

HIPAA Compliant

ASI Company Overview

Applied Spectral Imaging (ASI) is a global leader in biomedical imaging with a comprehensive product portfolio and a global distribution footprint.

Founded in 1993, ASI markets, services and supports its products in nearly 50 countries. With a wide FDA clearance portfolio, you can rest assured that ASI applications have been rigorously tested for compliance and clinical use.

The Company's technology, powered by GenASIs, enables pathology, cytogenetics and research laboratories to provide advanced diagnostics to patients through superior digital diagnostic tools.

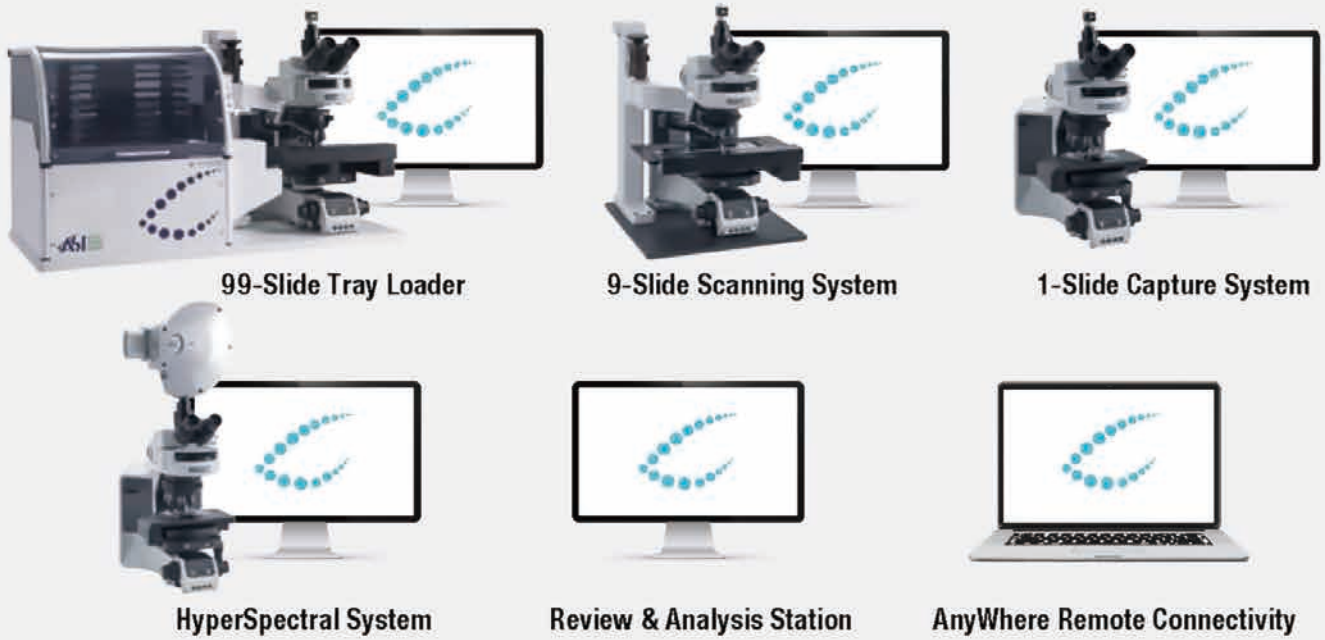
ASI has a wide portfolio of dedicated solutions for brightfield, fluorescence and spectral imaging and analysis, including HiPath Pro, PathFusion, HiBand, HiFISH, CytoPower and Rainbow.

The Company has offices in the US and Asia and a global network of distribution partners.

Product Portfolio

Cytogenetics | Pathology | Research

Diverse platforms to accommodate all laboratory needs



99-Slide Tray Loader

9-Slide Scanning System

1-Slide Capture System

HyperSpectral System

Review & Analysis Station

AnyWhere Remote Connectivity

System Specifications

	Manual 1 Slide		9 Slide Tray Loader		99 Slide Motorized Stage	
Microscope Support	BF and FL upright microscopes		OLYMPUS BX61 BF+FL OLYMPUS BX63 BF+FL ZEISS Axiolmager Z2 BF+FL		OLYMPUS BX61 BF+FL OLYMPUS BX63 BF+FL ZEISS Axiolmager Z2 BF	
Objectives	Olympus 4x/0.16NA 20x/0.5NA 40x/0.75NA 60x/1.25NA	ZEISS 5x/0.16NA 20x/0.5NA 40x/0.75NA 63x/1.25NA	Olympus 4x/0.16NA 10x/0.3NA 20x/0.5NA 40x/1.4NA 60x/1.25NA	ZEISS 5x/0.16NA 10x/0.3NA 20x/0.5NA 40x/1.3NA 63x/1.25NA	Olympus 4x/0.16NA 10x/0.3NA 20x/0.5NA 40x/1.4NA 60x/1.25NA	ZEISS 5x/0.16NA 10x/0.3NA 20x/0.5NA 40x/1.3NA 63x/1.25NA
Camera	5MP CMOS Color		5MP CMOS Color		5MP CMOS Color	
Slide Capacity	1 slide		9 slides		99 slides PLUS	
Barcode	Handheld 1D/2D		Handheld 1D/2D		Integrated 1D/2D	
Automated Oil Dispenser	N/A		Optional		Integrated	
Dimensions (WxDxH)	According to clients microscope		61cm x 69cm x 85cm (24"x27.2"x33.5")		100cm x 90cm x 90cm (39.4"x 35.5"x 35.5")	
Weight	According to clients microscope		45kg 99.2lb		80kg 176.4lb	

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