



Every  
Diagnosis  
Counts

# HiFISH

Digital FISH Analysis Platform



POWERED BY  
**GENASIS**

**ASI** APPLIED  
SPECTRAL  
IMAGING

# The Ultimate Digital FISH Workflow

Digitize slides, analyze cells and report

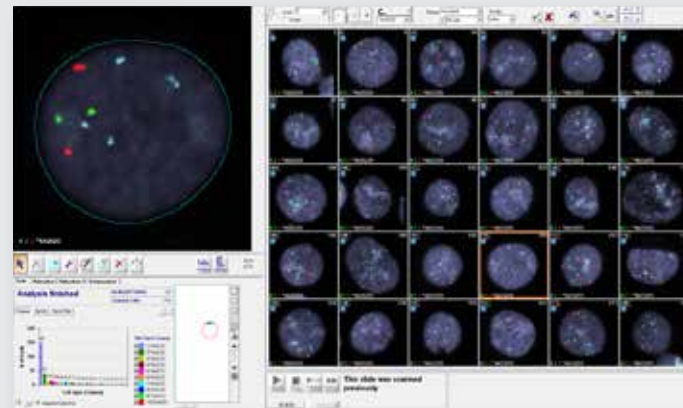
Scan >>> Analyze >>> Review >>> Report >>> Complete!

## 1 Scan & Capture



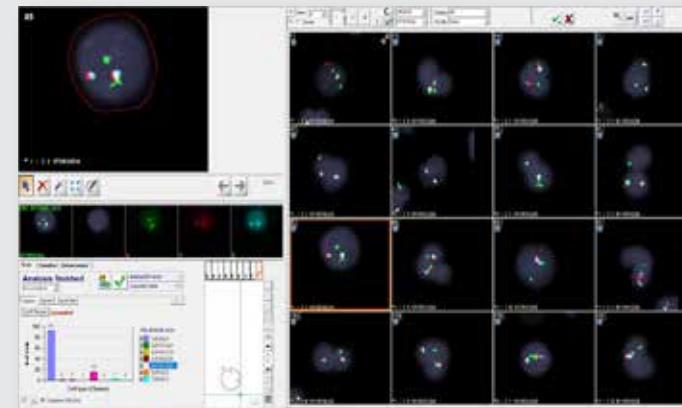
Automated FISH scan and capture with real-time analysis

## 2 View & Analyze



Flexible analysis workflows for single or multiple readers

## 3 Review & Approve



Review and approval of final statistics

## 4 Report



Create report with final statistics and cell images



## Lab Productivity

Digital workflows enable labor efficiencies and time savings every step of the way



## Diagnostic Confidence

Accurate computer-assisted analysis provides higher confidence in patient assessment

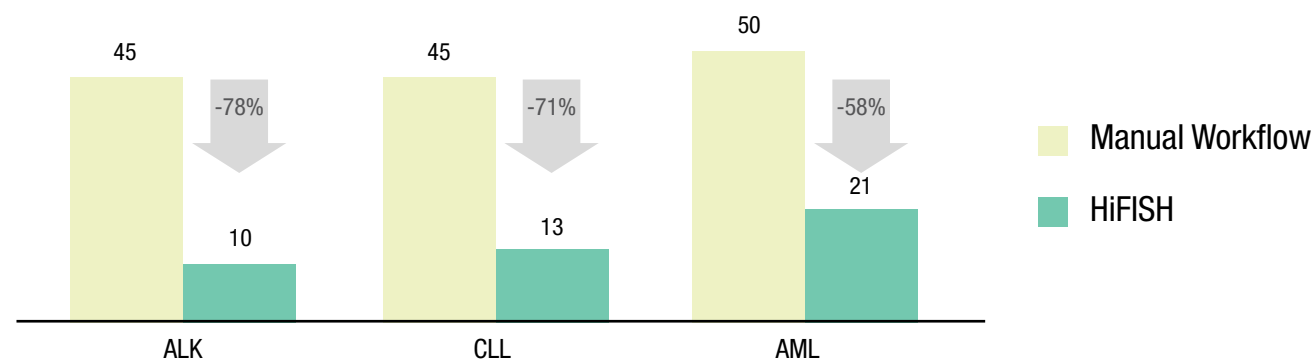


## Onscreen Analysis

Onscreen FISH analysis in the light significantly improves technologist user experience

## Increased Lab Productivity with Automation

Over 55% Time Savings (Minutes / Case)



“HiFISH allows us to view much more cells than we would with a manual microscope, which leads to more accurate and reliable results. Manual FISH analysis is also tedious and leads to technologist fatigue but HiFISH never gets tired.”

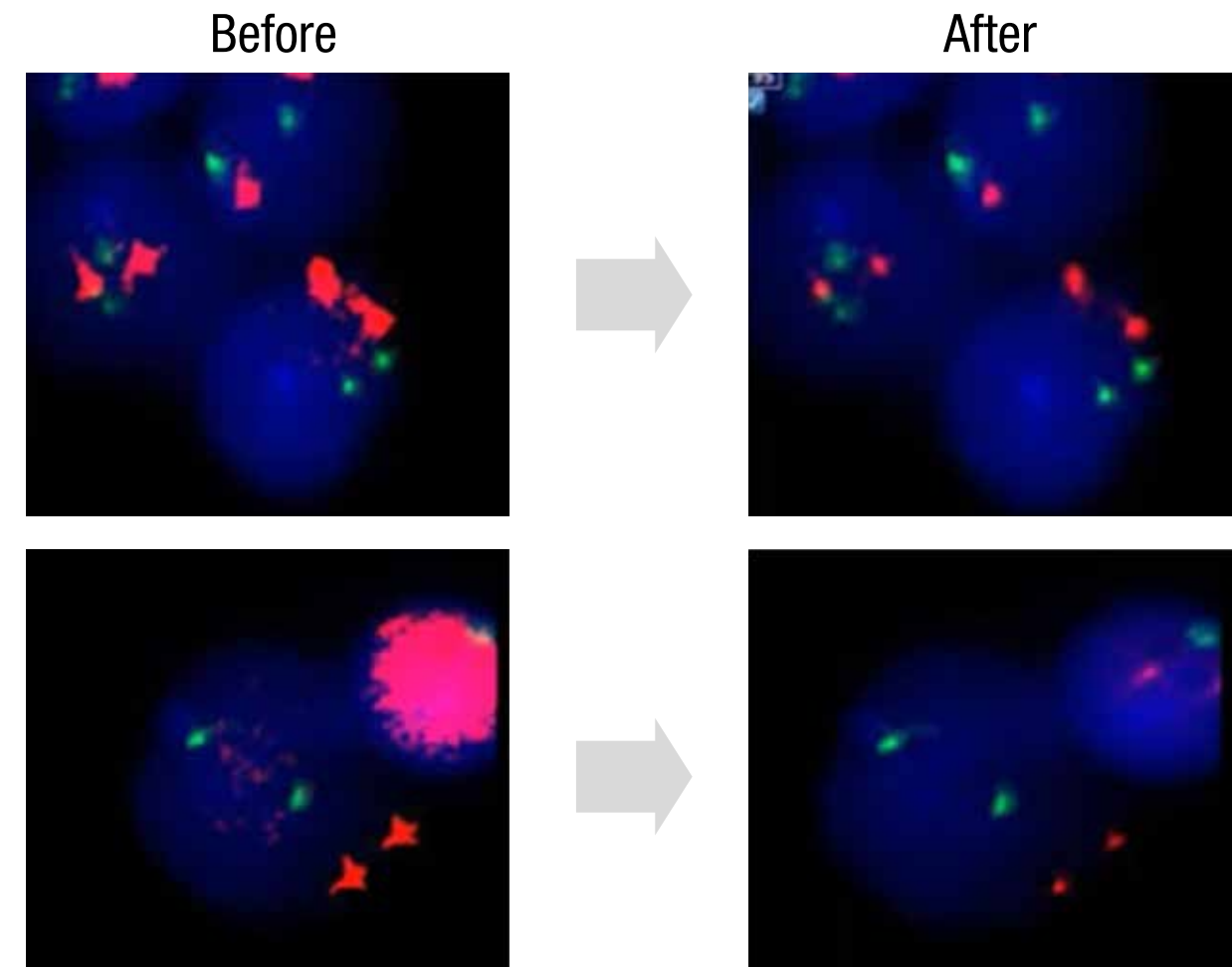
Dr. Yarin Hadid, Bnai Zion Medical Center

## Digitize Your Slides

### Robust Image Quality Through Adaptive Statistical Algorithms

Validated to identify what the human eye may not see for standardized results

- ✓ Sophisticated acquisition parameters optimization
- ✓ Consistent signals appearance across sample
- ✓ Reduction of external debris and nuclear noise
- ✓ Eliminated need for manual parameters manipulation
- ✓ Optimized visualization & classification



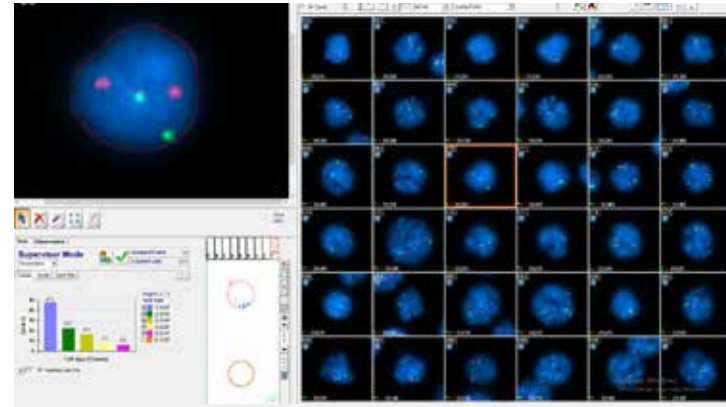
# Digital FISH Analysis

Accuracy, Consistency, Ease-of-Use

## Versatile FISH review and analysis workflows

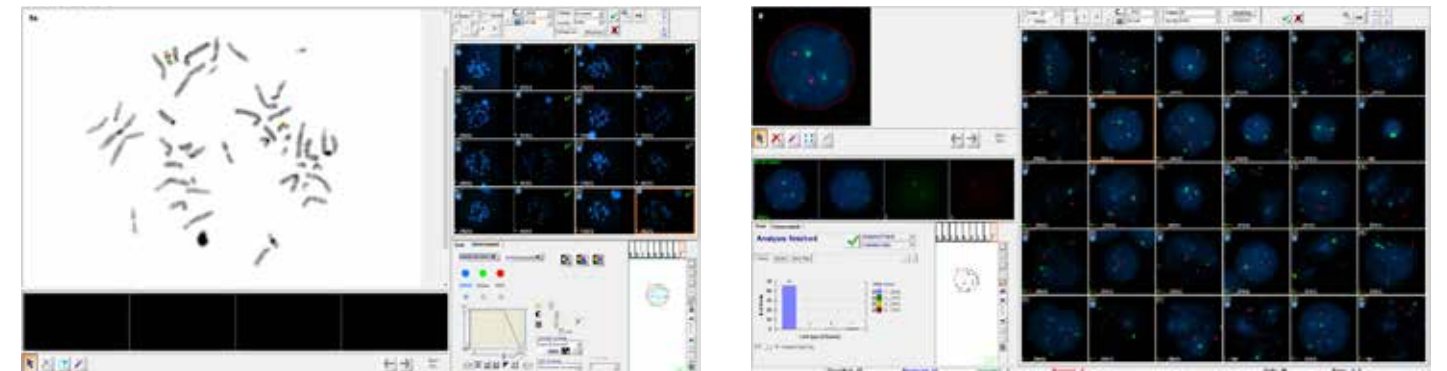
Flexible to match your laboratory needs

- ✓ Multi-reader double blinded analysis
- ✓ Supports multi-well slides
- ✓ Status indication per region
- ✓ Informative slide statuses for better workflow management
- ✓ Integrated QC application



# QC Application - Simultaneous Interphase & Metaphase Capture

Identify probe signals on chromosomes to confirm FISH analysis accuracy



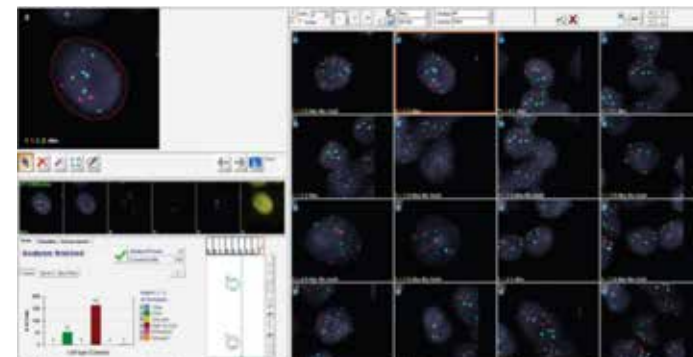
“Digital FISH analysis provides more efficient and accurate results and better patient care in comparison to traditional FISH methods.”

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

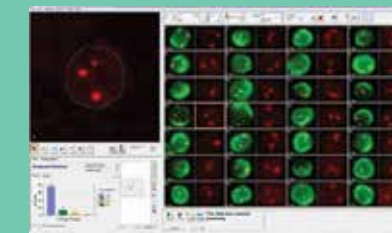
## Diagnostic Confidence

Improved Patient Care Through Better Results

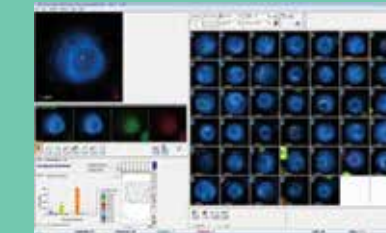
- ✓ Robust and consistent high image **quality**
- ✓ No signal missed with 3D capture
- ✓ **Accurate** signal detection and cell classification
- ✓ **Robust signal visualization**
- ✓ Automatic **detection** of **abnormal patterns**
- ✓ **Consistent**, standardized and reliable results
- ✓ Probe vendor-agnostic



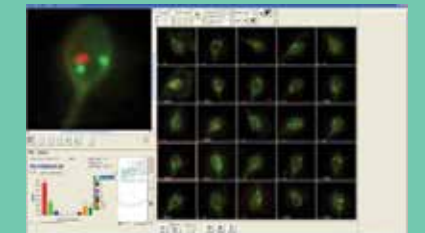
# HiFISH for Research Applications



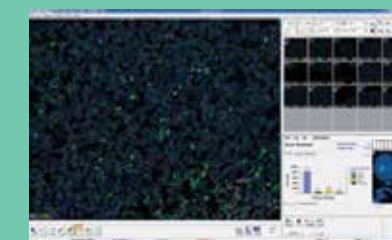
Circulating Tumor Cells



clgFISH



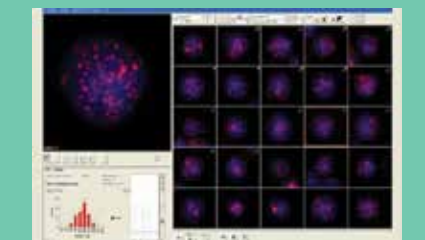
Sperm Cells



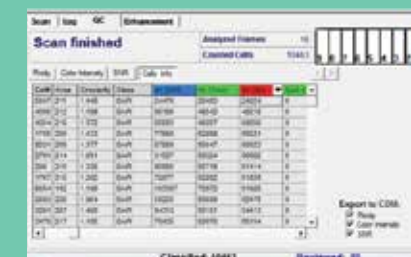
Immuno Fluorescence



Successive Staining



Telomeres



## Quality Control of Probe Assays

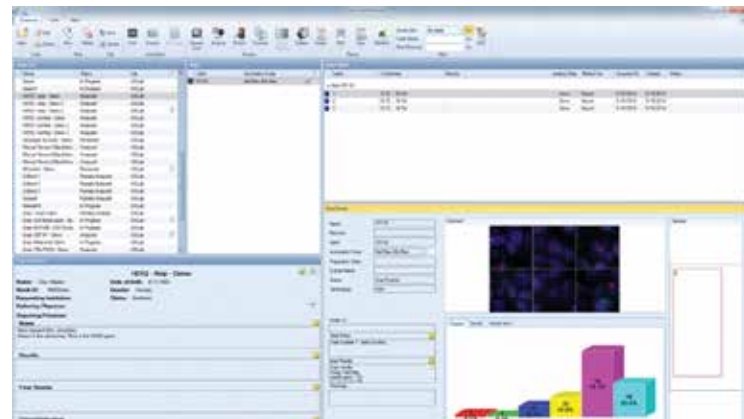
Cell phenotyping and signal classification

Measurement and display of multiple cellular and signal properties

# Data Management and Connectivity

Modern Paperless Workflow

## Central Portal and Database Easily Integrates with Lab LIS



Case Data Management (CDM)

- ✓ Efficient
- ✓ Comprehensive
- ✓ Eliminates human error

# Become a Data-Driven Lab with LabLife™

## Generate lab performance statistics



### 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

# GenASIs AnyWhere™

## A Virtual Laboratory

GenASIs™ AnyWhere is Applied Spectral Imaging's complete remote access solution enabling HIPAA-compliant access, review, analysis, and sign-off of cases from any location, via a secure link to your lab's GenASIs platform.

**In today's world, working remotely has become a necessity.**

- ✓ Optimal for remote consultation, educational and training needs
- ✓ Uncompromised data security
- ✓ Efficient management and maintenance of multiple systems, and users
- ✓ Distance-bridging for multi-site and geographically distributed organizations
- ✓ Increases productivity and reduces turnaround time



### 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 90 countries. 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.

ASI's wide FDA clearance portfolio includes: FDA clearance for BandView, 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

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

## Global Presence

**4,500**

Systems installed worldwide

**86**

Countries through direct & indirect sales forces

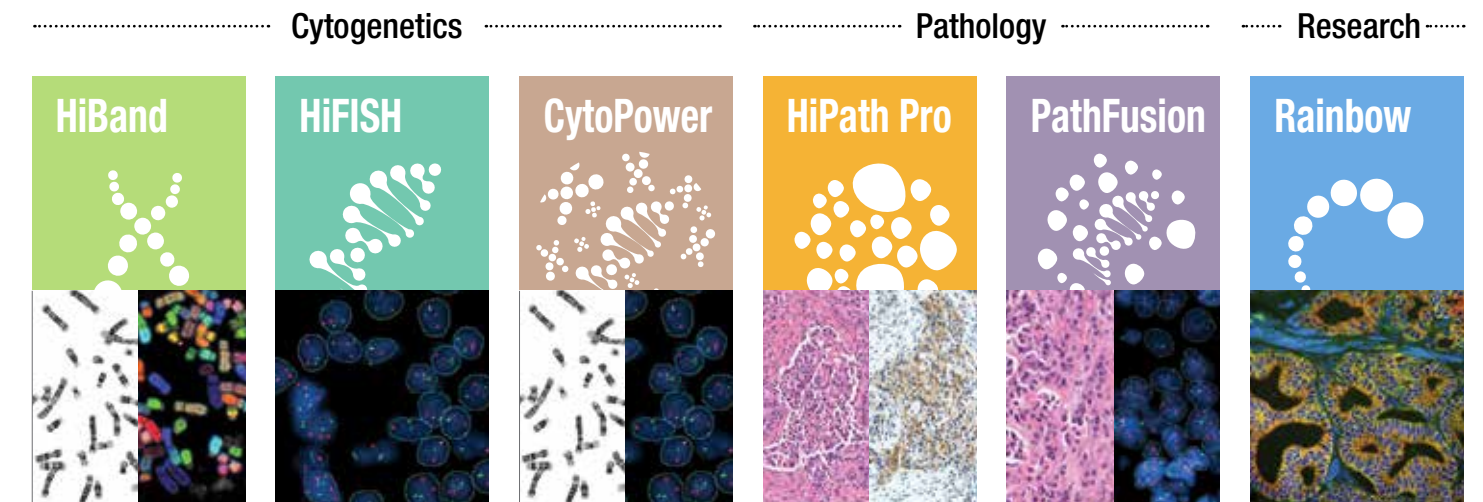
**71**

Third party distribution partners

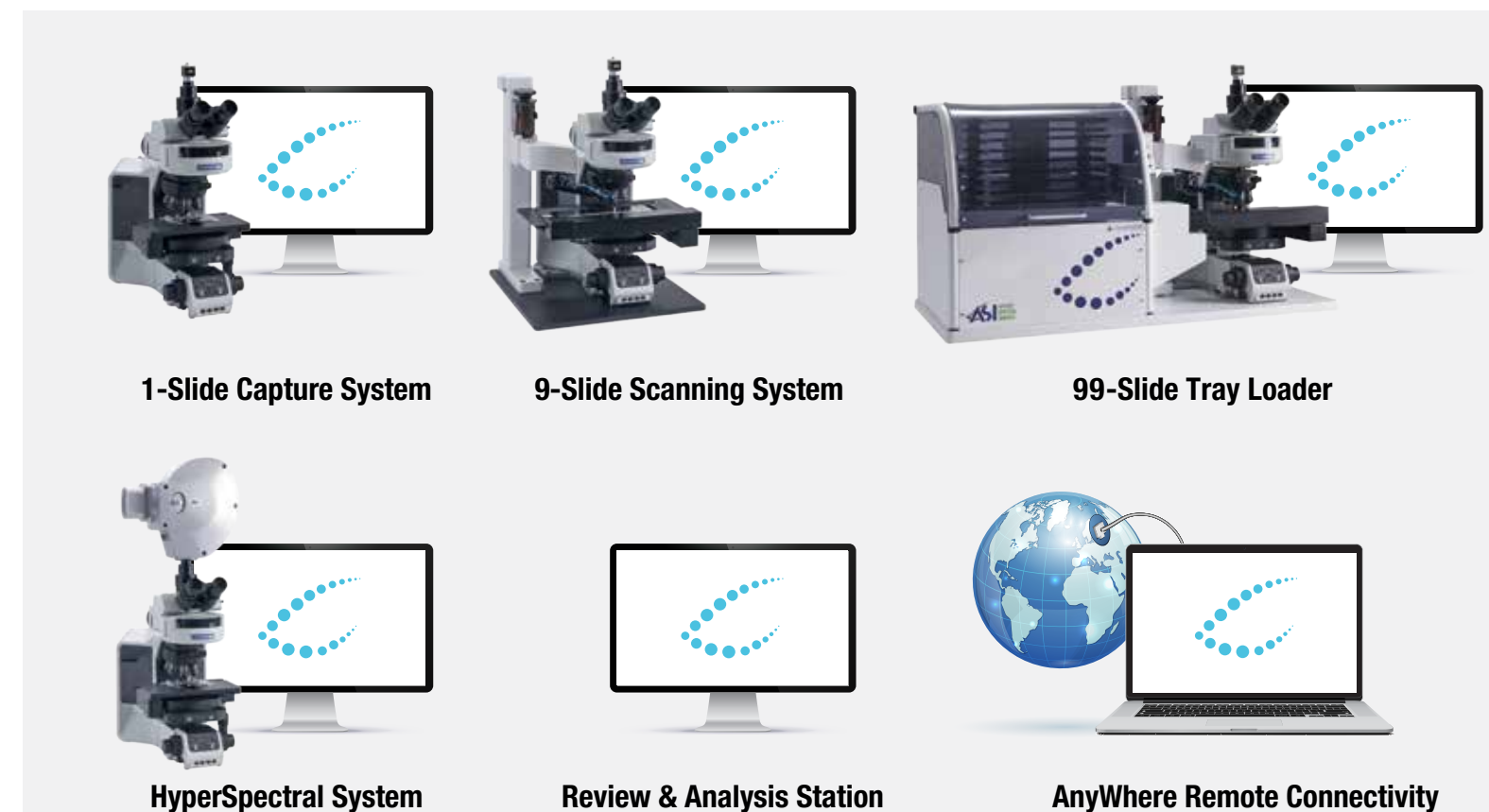


# The Company's Product Portfolio

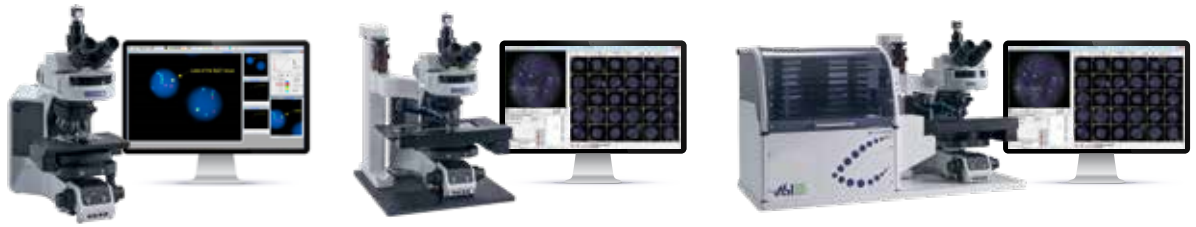
## Imaging & Analysis Solutions for Laboratories



## Diverse platforms can accommodate all laboratory needs



# System Specifications



	Manual 1 Slide		9 Slide Motorized Stage		99 Slide Tray Loader	
<b>Microscope Support</b>	FL upright microscopes		OLYMPUS BX61 FL OLYMPUS BX63 FL ZEISS AxioImager Z2 FL		OLYMPUS BX61 FL OLYMPUS BX63 FL ZEISS AxioImager Z2 FL	
<b>Objectives</b>	Olympus 10x/0.3NA 60x/1.25NA	ZEISS 10x/0.3NA 63x/1.25NA	Olympus 10x/0.3NA 40x/1.4NA 60x/1.25NA	ZEISS 10x/0.3NA 40x/1.3NA 63x/1.25NA	Olympus 4x/0.16NA 10x/0.3NA 40x/1.4NA 60x/1.25NA	ZEISS 5x/0.16NA 10x/0.3NA 40x/1.3NA 63x/1.25NA
<b>Camera</b>	5MP CMOS Monochrome		5MP CMOS Monochrome		5MP CMOS Monochrome	
<b>Slide Capacity</b>	1 slide		9 slides		99+ slides	
<b>Barcode Reader</b>	Handheld 1D/2D		Handheld 1D/2D		Integrated 1D/2D	
<b>Automatic Oil Dispenser</b>	N/A		Optional		Integrated	
<b>Dimensions</b>	According to clients microscope		61cm x 69cm x 85cm (24" x 27.2" x 33.5")		100cm x 90cm x 90cm (39.4" x 35.5" x 35.5")	
<b>Weight</b>	According to clients microscope		45Kg 99.2lb		80Kg 176.4lb	

SCAN ME



North America  
Applied Spectral Imaging Inc.  
Tel: +1 760 929 2840  
sales-inc@spectral-imaging.com

Headquarters  
Applied Spectral Imaging Ltd.  
sales@spectral-imaging.com



www.spectral-imaging.com