

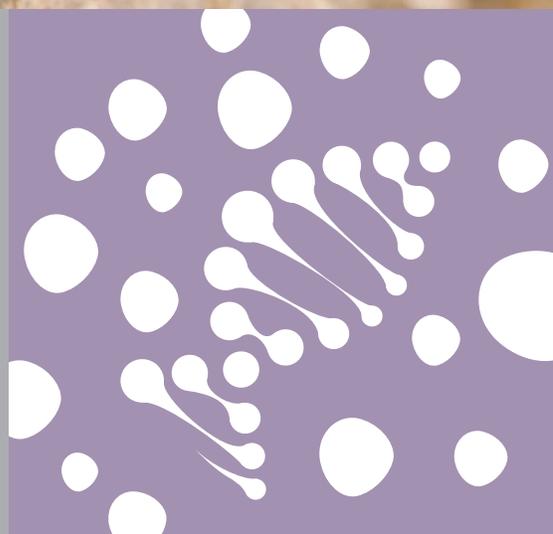


Every
Diagnosis
Counts

PathFusion

Full Pathology Imaging Suite

H&E | IHC | FISH



POWERED BY
GENASIS

ASI APPLIED
SPECTRAL
IMAGING

Complete Digital Pathology System

Integrated Solutions for Multiple Lab Needs

Whole Slide Imaging

- High image quality
- Consistent precision
- Start & walkaway

Quantitative Analysis

- Cell based analysis
- Thousands of cells for greater statistical significance
- Feature-rich software for advanced user review

View, Manage & Share

- Innovative and intuitive image viewer
- Integrated patient database & LIS connectivity
- Remote access



Cutting-edge workflow solution, bridging the gap between Brightfield and FISH pathology



Diagnostic Confidence

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



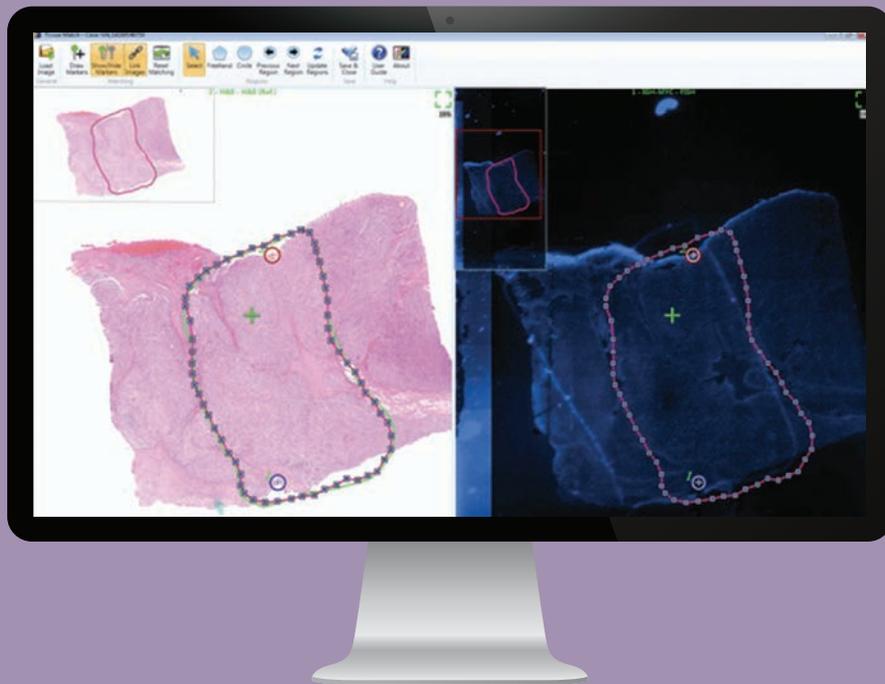
Workflow Efficiencies

Modern computerized workflows increase lab productivity and improve FTE savings



Multi Application

Comprehensive solution for a wide range of sample types, IHC antibodies and FISH probes

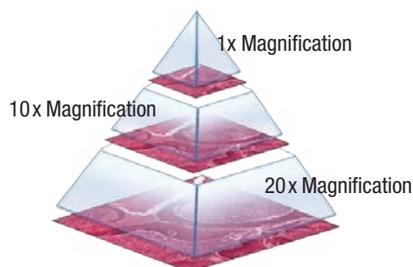
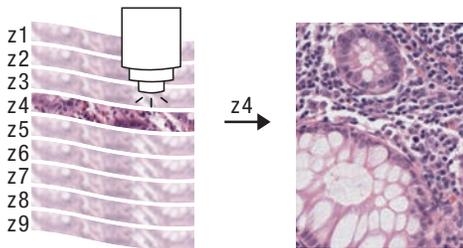
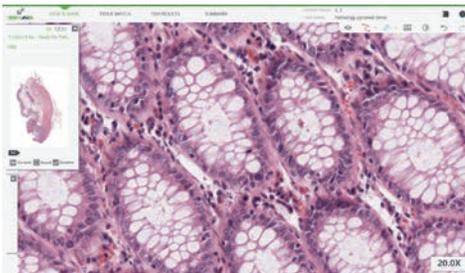


“Annotated whole slide images of H&E and FISH sections can be digitally aligned, so that areas of tumor within a section can be matched and evaluated with a greater degree of accuracy. Images can be archived permanently, providing a means for examining the results retrospectively.”

Whole Slide Imaging

Precision, Quality, Versatility

Uncompromising Image Quality Start & Walkaway Scanning



Quality Driven to the Max!

High sensitivity CMOS sensor combined with a high quality apochromatic 20x objective lens

Copes with Tissue Variability

SmartFocus™ high precision real-time focus overcomes uneven tissue samples and thickness variability

Single Click Scan

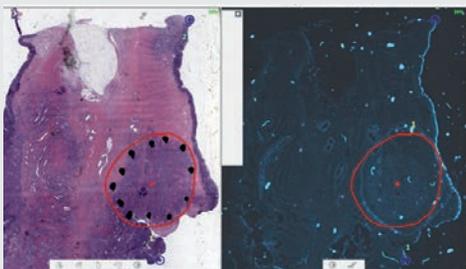
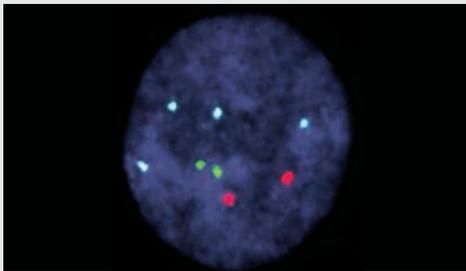
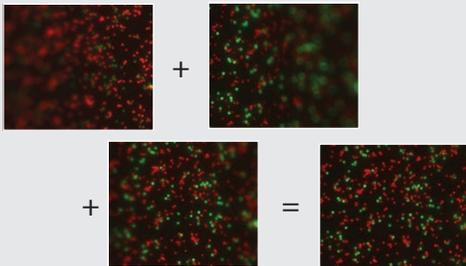
Proprietary tissue detection algorithms enable user unattended scanning with 99% accuracy

Advanced Navigation

Pyramid file structure with lossless image compression for fast, effective and user-friendly viewing

FISH Scanning

Efficiency, Accuracy, Ease-of-Use



User Independent Scanning

Unattended and overnight scanning increases lab productivity and supports greater slide volumes

Z-Stacking & 3D Focus

Image acquisition with unlimited layers of automatic Z-stack, fluorescent filter control, auto-exposure, anti-debris algorithms and automatic image enhancement

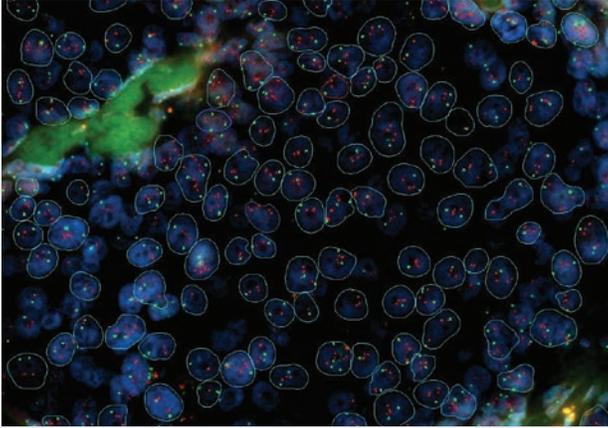
Image Quality

High sensitivity sensor, high quality immersion oil, 60x plan apochromatic objective and proprietary algorithms for automatic detection of faint signals lead to impeccable image quality and accuracy

TissueMatch™

High precision tissue matching based on pathologist digital marking of tumor regions leads to increased diagnostic confidence

FISH Analysis



Accuracy

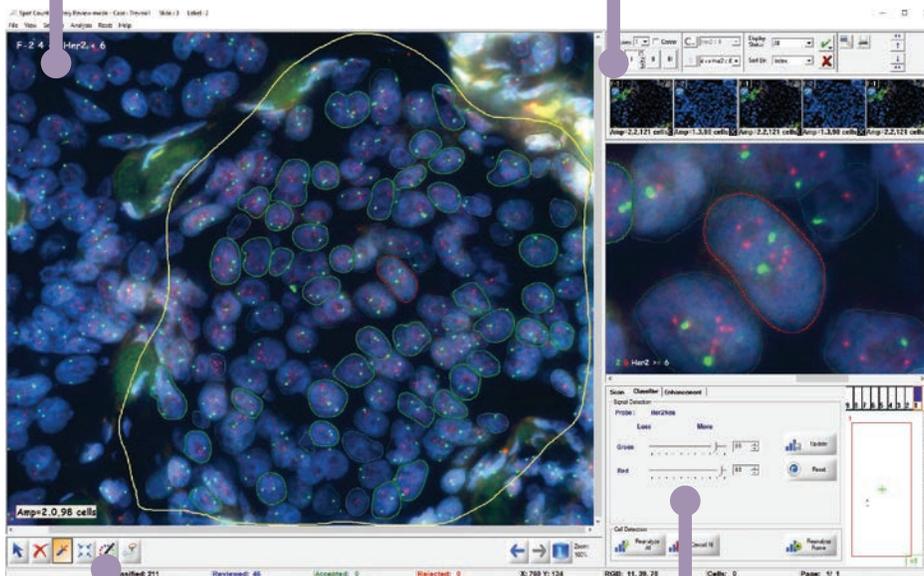
Proprietary smart algorithms designed for automated cell and signal detection and classification leading to consistent, standardized and reliable results

User Experience

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

High image quality obtained with a 60x plan apochromat objective

Customizable workspace with multiple view options



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

Signal sensitivity adjustment post-scanning

Vast Clinical Use

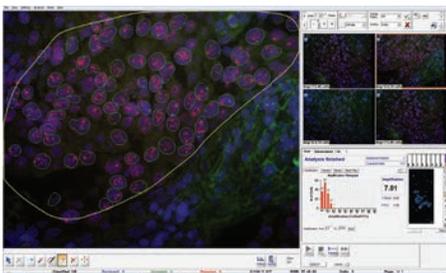
- ✓ Breast
- ✓ Lung
- ✓ Prostate
- ✓ Gastrointestinal
- ✓ Skin
- ✓ Bladder
- ✓ Brain
- ✓ Cervix
- ✓ Bone Marrow
- ✓ Blood
- ✓ Lymph nodes

Vendor Neutral

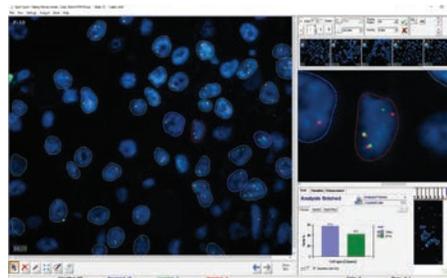
“Digital FISH analysis provides more efficient and accurate results and better patient care in comparison to traditional FISH methods.”

Liew M, Rowe L, Clement PW, Miles RR, Salama ME., J Pathol Inform. 2016

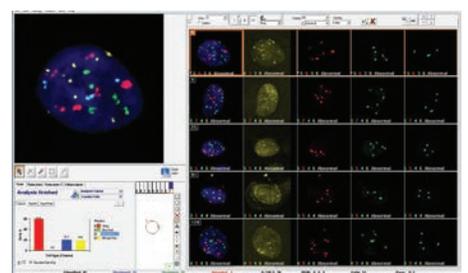
HER2/neu (Breast)



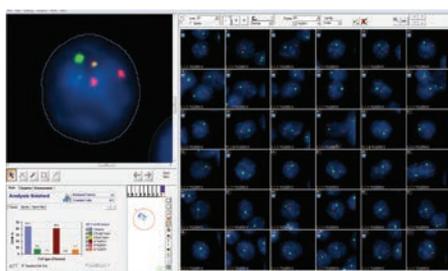
ALK (Lung)



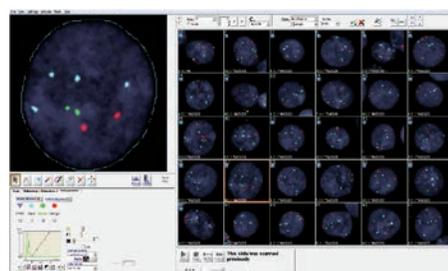
UroVysion (Bladder)



Hematology Fusion

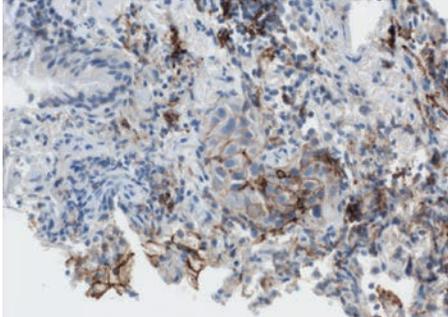


Hematology Enumeration

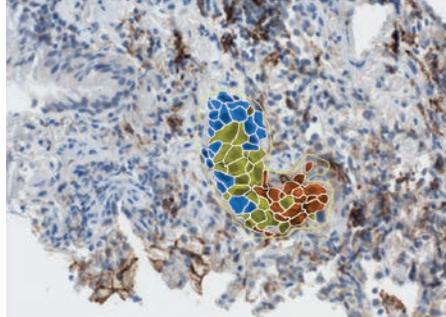


IHC Quantitative Scoring

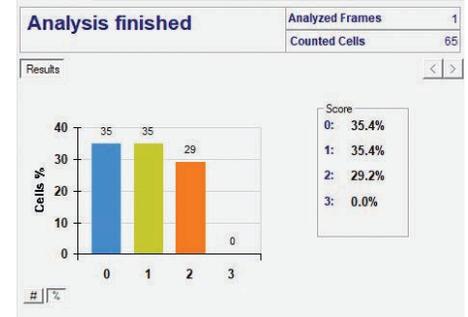
Standardization at the Click of a Button



Original Image



Analyzed Image



Quantitative Scoring

There's Strength in Numbers

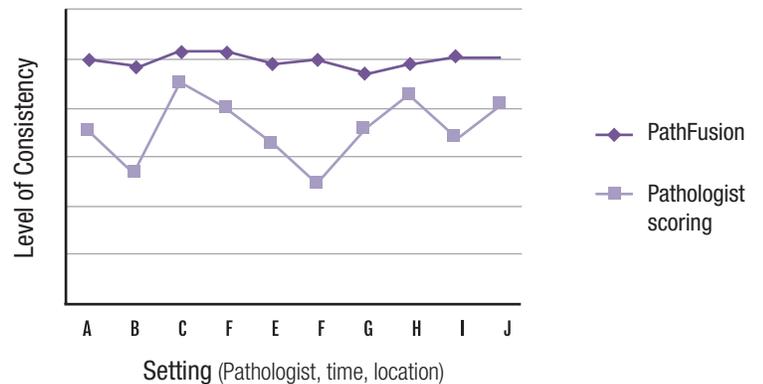
Cell based analysis

Analysis of 1000's of cells in relevant tumor regions

Statistical analysis for

- ✓ Each frame
- ✓ Regions of Interest within frames
- ✓ Combined scoring of all frames

Consistency of Results Across Varied Settings



All nuclear and membrane staining

Wide range of tissue samples (e.g. breast, lung, colon, bladder, brain)

Vendor neutral - supports markers by all suppliers

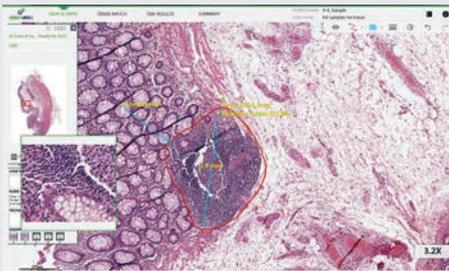


*FDA cleared for FISHView, SpotScan for CEP XY, UroVysion, ALK and HER2/neu FISH, and for HiPath IHC Family for HER2, ER, PR, and Ki67, on the manual configuration

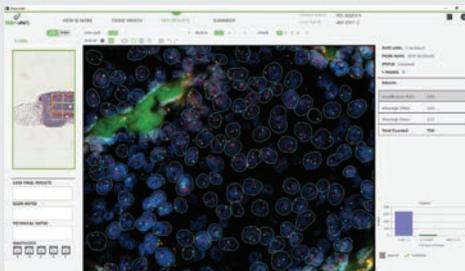
TissueSuite™

One-Stop-Shop Pathologist Interface

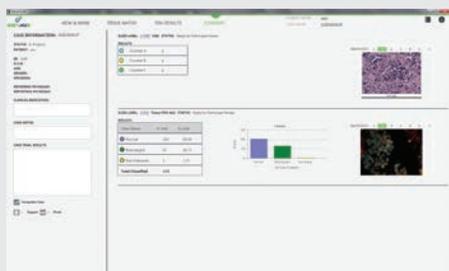
Confidence, Simplicity, Quality



MARK



VALIDATE



REPORT

Innovative Image Viewer

Fast and friendly image viewing and sophisticated navigation with simple user-defined measuring and marking tools

FISH Analysis Validation

Display of analyzed FISH images based on the marked H&E tumor regions, with multiple viewing options and Fields of View

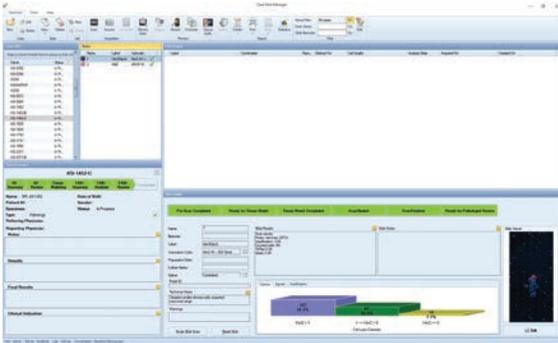
Case Summary

One-click report with Pathologist selected images and slide results, in one customizable view

Data Management and Connectivity

Modern Paperless Workflow

Central Portal and Database Easily Integrates with Lab LIMS



Case Data Management (CDM)

- ✓ Efficient
- ✓ Comprehensive
- ✓ Eliminates human error

GenASIs AnyWhere™ for Remote Access

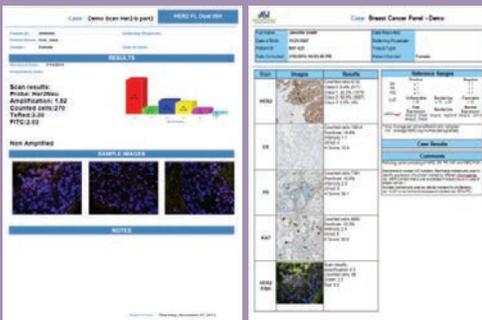
Lab Connectivity Anytime, Anywhere

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



Remote access, review and analysis

Advanced Reporting



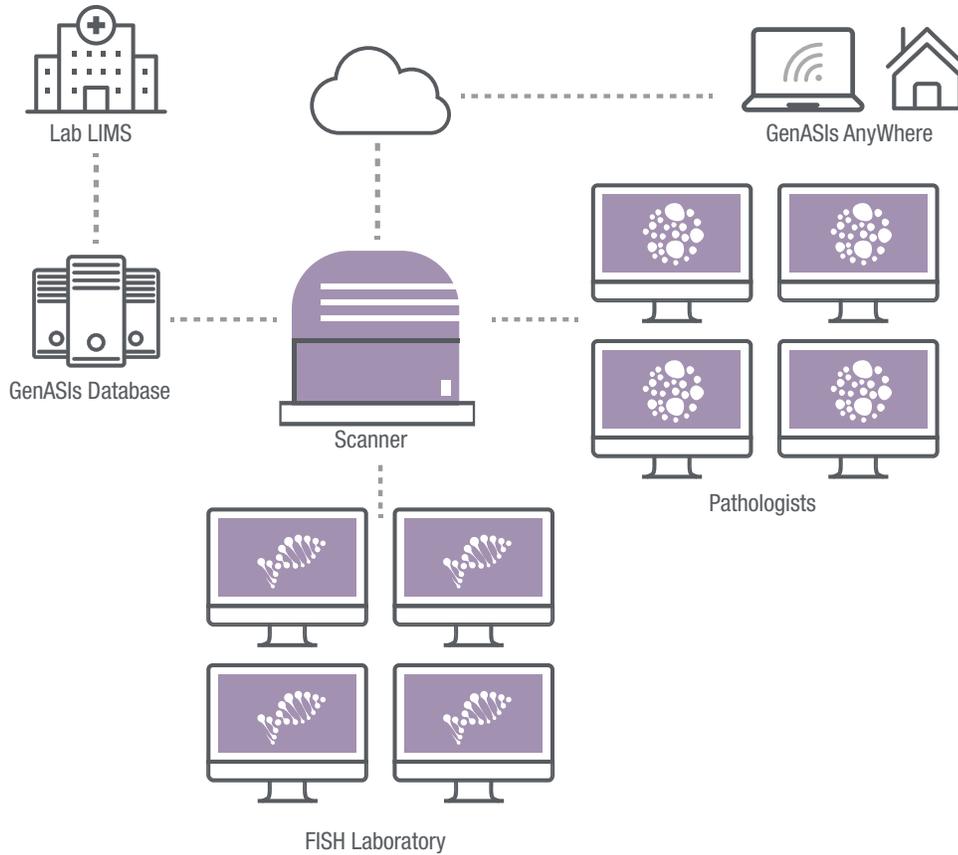
1D/2D Barcode Reader



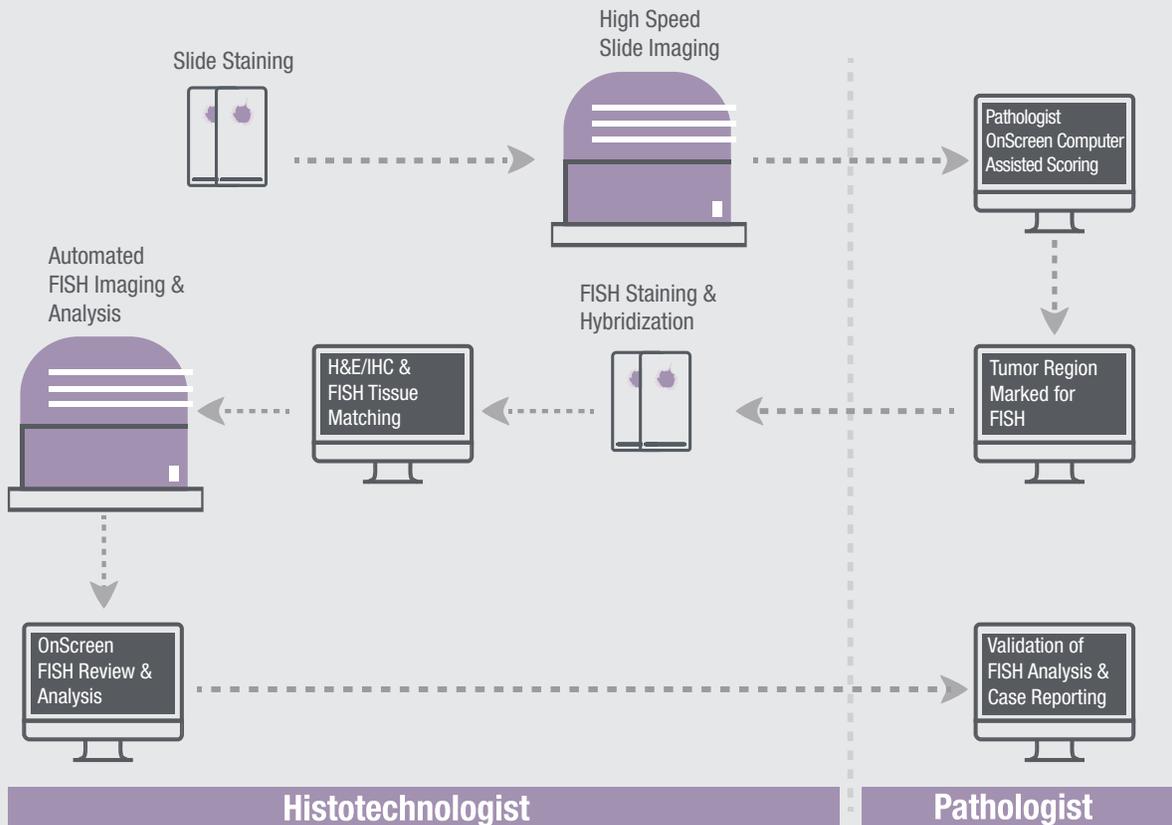
LIMS Connectivity

- ✓ Performance
 - ✓ Security
 - ✓ Data Integrity
- HIPAA Compliant

Centralized Scanning with Remote Review & Analysis



End-to-End Pathology Workflow





	Manual 1 Slide	9 Slide Tray Loader	99 Slide Motorized Stage
Microscope Support	BF and FL upright microscopes	OLYMPUS BX61 OLYMPUS BX63 ZEISS Axiomager Z2	OLYMPUS BX61 OLYMPUS BX63 ZEISS Axiomager Z2
Objectives	4x/0.16 or 5x/0.16 20x/0.5 40x/0.75 60x/1.42 or 63x/1.25	4x/0.16 or 5x/0.16 10x/0.3 20x/0.5 40x/1.3 60x/1.42 or 63x/1.25	4x/0.16 or 5x/0.16 10x/0.3 20x/0.5 40x/1.3 60x/1.42 or 63x/1.25
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)	20cm x 60cm x 50cm	45cm x 90cm x 85cm	100cm x 90cm x 85cm
Weight	8 kg	54 kg	82 kg

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