



AIRA
M A T R I X

Artificial Intelligence
Transformed Analyses

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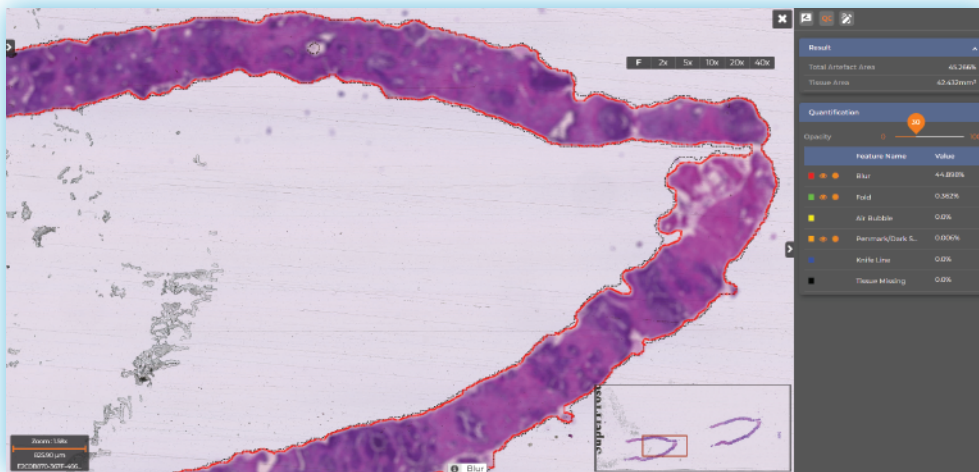
Identification and Quantification of Artifacts in WSIs

Ensure Only High-Quality WSIs Reach Your IMS

Key Capabilities

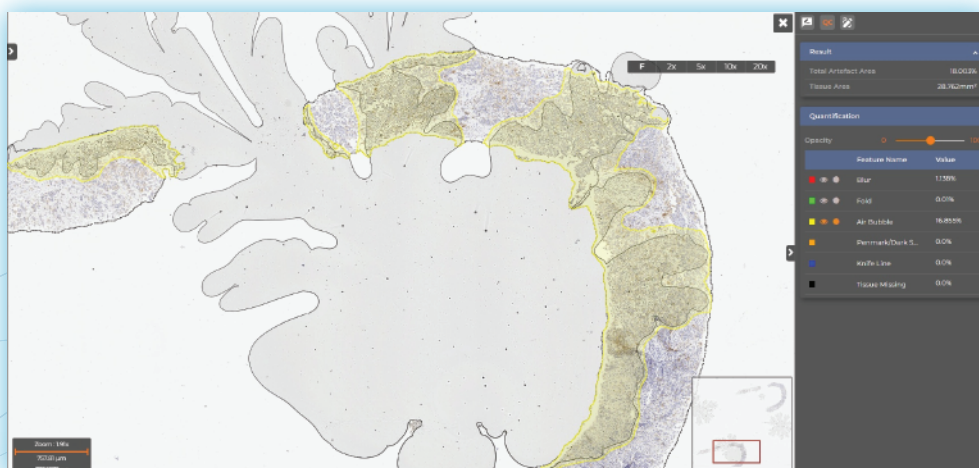
Advanced Artifact Detection

- ✓ Processing Artifacts: Tissue folds, pen marks, air bubbles, coverslip lines, knife lines, dark spots
- ✓ Scanning Artifacts: Out-of-focus areas, missing tissue, no tissue detected



Automated QC with Customizable Thresholds

- ✓ Flag images as Accept, Reprocess, or Rescan based on user-defined thresholds
- ✓ Processes 10 WSIs per minute (1GB each) with 95% sensitivity and 96% specificity

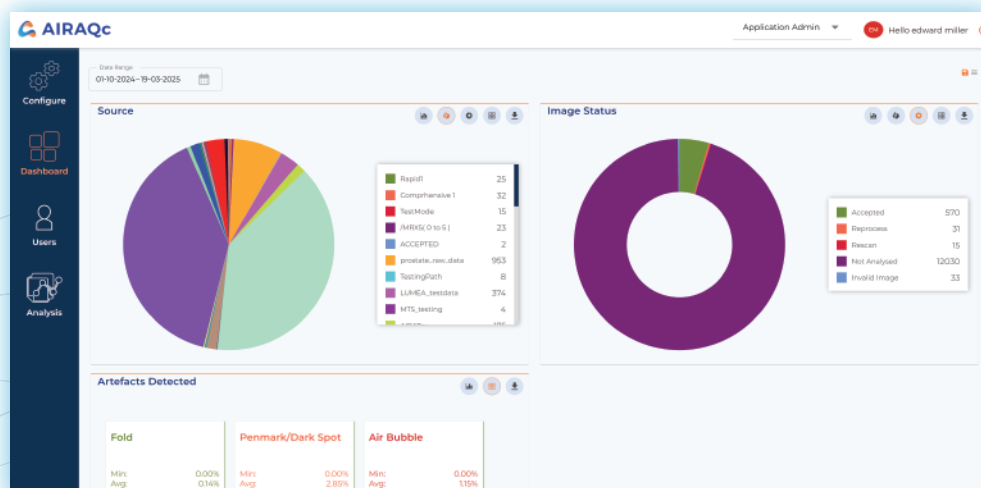
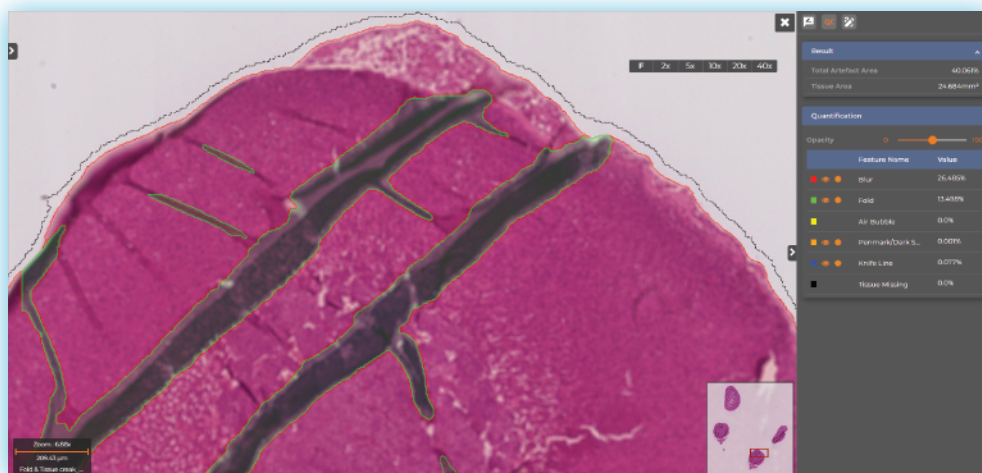


Real-Time Analytics & Compliance Support

- ✓ Detailed artifact reports for root cause analysis & corrective actions
- ✓ A centralized dashboard for lab-wide QC insights
- ✓ Supports CLIA compliance with full audit traceability

Seamless Integration & Flexible Deployment

- ✓ Works with LIS, IMS, and PACS, ensuring no workflow disruption
- ✓ Compatible with all major WSI formats
- ✓ On-premise or Cloud Deployment, tailored to pathology lab setup

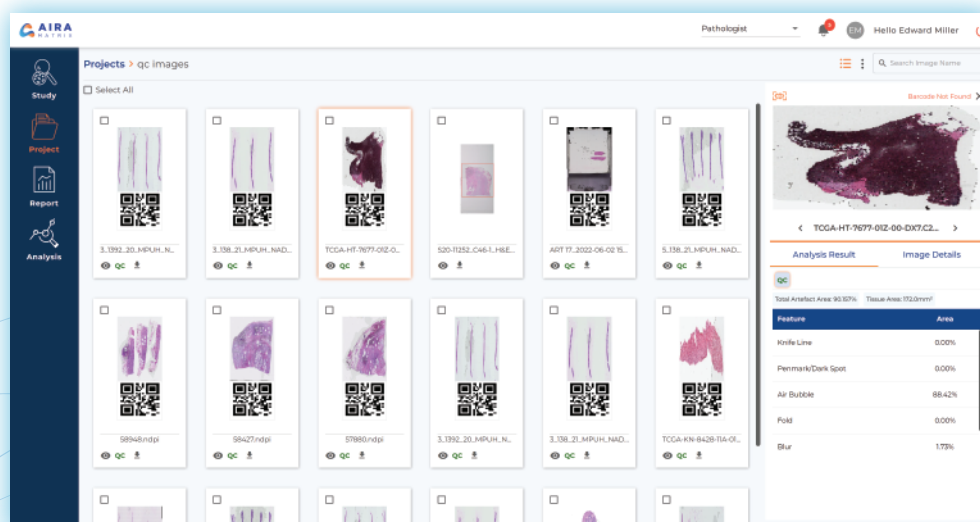


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Identification and Quantification of Artifacts in WSIs

Specifications

Supported Stains	H&E, IHC
Species	Agnostic
Artifacts Detected	Tissue folds, pen marks/ dark spots, air bubbles, coverslip lines, knife lines, out of focus, missing tissue, no tissue
Analysis Mode	Auto, Manual
Throughput	10 WSIs per minute (1GB each)
Deployment	Cloud, On-Premise
Output Format	CSV, Excel
Scanner Compatibility	Compatible with multiple image formats and scanners



Impact on Pathology Workflow

- ✓ **Boosts Diagnostic Confidence**
Reduce false positives and negatives in downstream image analysis
- ✓ **Minimizes Rework & Downtime**
Detects errors before images enter IMS, reducing costly rework
- ✓ **Optimizes AI-Assisted Pathology**
Eliminates low-quality images that could skew AI models performance
- ✓ **Regulatory & Audit-Ready**
Provides consistent, reproducible QC, ensuring accreditation compliance
- ✓ **Maximizes Efficiency & Cost Savings**
Reduces manual QC time while enabling 100% image quality control coverage and 24/7 automated processing

Ready to Automate Your WSI Quality Control?

Schedule a Demo & See AIRAQc in Action

Write to solutions@airamatrix.com

solutions@airamatrix.com



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