

# Aperio User Training Agenda - 2009

## Day 1 – ScanScope

Lunch: Noon    Breaks: 10 AM, 2PM

Course	Course Objectives
<b>ScanScope Overview</b>	<ul style="list-style-type: none"> <li>• ScanScope – What is it?               <ul style="list-style-type: none"> <li>○ ScanScope Models and applications</li> </ul> </li> <li>• Hardware and System Components               <ul style="list-style-type: none"> <li>○ ScanScope PC</li> <li>○ ScanScope Scanner</li> <li>○ Scanner Components</li> <li>○ ScanScope Connections</li> <li>○ Typical System Layout</li> </ul> </li> <li>• Software               <ul style="list-style-type: none"> <li>○ ScanScope Console</li> <li>○ Associated User Applications</li> <li>○ Aperio Service Manager</li> </ul> </li> </ul>
<b>ScanScope User Basics</b>	<ul style="list-style-type: none"> <li>• Describe the Recommended Operating Environment</li> <li>• Describe ScanScope Components</li> <li>• ScanScope Initialization</li> <li>• Clean/Inspect Slides Before Scanning</li> <li>• Describe Scanning Steps</li> <li>• Access/Use ScanScope Console               <ul style="list-style-type: none"> <li>○ View Slide/Rack Status</li> <li>○ Access/Use of Slide Operations Menu, Main Menu</li> </ul> </li> <li>• Perform Manual Scanning using Console               <ul style="list-style-type: none"> <li>○ Access/Use Start Tab</li> <li>○ Access/Use Scan Area Tab</li> <li>○ Access/Use Focus Tab</li> <li>○ Access/Use Calibrate Tab</li> <li>○ Access/Use Scan Tab</li> </ul> </li> <li>• Perform Snapshot</li> <li>• Perform Automatic Scanning</li> <li>• Perform Light Maintenance</li> </ul>
<b>ScanScope Advanced Scanning</b>	<ul style="list-style-type: none"> <li>• Scan Area Adjustments               <ul style="list-style-type: none"> <li>○ Wide vs. Narrow Stripe</li> <li>○ Focus – Interstripe vs. Pre-focus</li> <li>○ CWS Files</li> </ul> </li> <li>• Focus Adjustments               <ul style="list-style-type: none"> <li>○ Manual Focus Point Placement</li> <li>○ Focusing with Live Window</li> <li>○ Focus Offset</li> </ul> </li> <li>• Calibration Adjustments               <ul style="list-style-type: none"> <li>○ Default Stripe</li> </ul> </li> <li>• Configuration               <ul style="list-style-type: none"> <li>○ Motion Properties</li> <li>○ ScanScope Properties</li> </ul> </li> <li>• Parameter Sets</li> <li>• Maintenance               <ul style="list-style-type: none"> <li>○ Presnap</li> <li>○ Camera Gains</li> </ul> </li> </ul>

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Lunch: Noon Breaks: 10 AM, 2PM

Course	Course Objectives
<b>Image Viewing</b>	<ul style="list-style-type: none"><li>• ImageScope<ul style="list-style-type: none"><li>○ Components (Tools/Menus)</li><li>○ Basic Features<ul style="list-style-type: none"><li>▪ Pan</li><li>▪ Zoom</li><li>▪ Rotation</li></ul></li><li>○ Viewing Multiple images simultaneously</li><li>○ Annotate images<ul style="list-style-type: none"><li>▪ Pens</li><li>▪ Shapes</li><li>▪ Ruler</li></ul></li><li>○ Image Analysis</li><li>○ Report Images</li><li>○ Image Capture<ul style="list-style-type: none"><li>▪ Save Images/Snapshots</li><li>▪ Extract regions</li></ul></li><li>○ Image Quality Overview</li></ul></li><li>• WebScope<ul style="list-style-type: none"><li>○ Different Views and Image Menu/Tools</li><li>○ Annotations and Analysis</li></ul></li></ul>

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## Day 2 – Spectrum Plus

Lunch: Noon Breaks: 10 AM, 2PM

Subject	Course Objectives
<b>Spectrum Plus Overview</b>	<ul style="list-style-type: none"> <li>• Applications and Workflow</li> <li>• Data and Image Management</li> <li>• Intelligent Data Retrieval</li> <li>• Security and Data Groups</li> <li>• Image Viewing (ImageScope)               <ul style="list-style-type: none"> <li>○ Viewing Images</li> <li>○ TelePath Live and Digital Slide Conferencing</li> </ul> </li> <li>• Connectivity and Interfacing</li> <li>• Spectrum Plus Add-ons               <ul style="list-style-type: none"> <li>○ Reports</li> <li>○ TMA Lab</li> <li>○ Image Analysis</li> </ul> </li> </ul>
<b>Spectrum Plus User Basics</b>	<ul style="list-style-type: none"> <li>• Spectrum Login</li> <li>• View and Change My Settings</li> <li>• Access Menus and Toolbars</li> <li>• Access Cases/Projects, Specimens, Slides/Images</li> <li>• Search Features</li> <li>• Generate Reports</li> </ul>
<b>Spectrum Plus Data Management</b>	<ul style="list-style-type: none"> <li>• Workflow</li> <li>• Slide Data</li> <li>• Setting Scan Data Group</li> <li>• Building Data Hierarchy</li> <li>• Adding Slides/Images Manually</li> <li>• Batch Analysis</li> <li>• Compliance</li> <li>• Exporting Data</li> <li>• Copying Images</li> </ul>
<b>Spectrum Plus Administration</b>	<ul style="list-style-type: none"> <li>• Open Service Manager and check services</li> <li>• Set Spectrum Plus configuration</li> <li>• Login to Spectrum Plus and set system settings</li> <li>• Create Data Groups</li> <li>• Create Users and Roles</li> <li>• Edit Data Tables</li> <li>• Add Stains</li> <li>• Add Body Sites</li> <li>• Create Customers</li> <li>• Add Report Comments</li> <li>• Slide Specific Processing</li> </ul>
<b>TelePath Live and Digital Slide Conferencing</b>	<ul style="list-style-type: none"> <li>• Define and describe uses for TelePath Live</li> <li>• Describe difference between Live Video and Z-Stacks</li> <li>• Configure and Connect</li> <li>• Define and describe uses for Digital Slide Conferencing</li> <li>• Initiate, configure and conduct a Digital Slide Conference</li> <li>• Join a Digital Slide Conference</li> </ul>

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## Day 3 - Image Analysis and TMA Lab

Lunch: Noon    Breaks: 10 AM, 2PM

Subject	Course Objectives
<b>Image Analysis 101</b>	<ul style="list-style-type: none"> <li>• Overview of all Image Analysis Tools (purpose, input/output parameters, how to use)               <ul style="list-style-type: none"> <li>○ Area Quantification (Positive Pixel Count, Color Deconvolution, Colocalization)</li> <li>○ Cell Quantification (Nuclear, Membrane)</li> <li>○ Rare Event Detection (Micromet)</li> <li>○ Microvessel Analysis</li> </ul> </li> <li>• Installation</li> <li>• Creating and using Macros and Classifiers</li> <li>• Managing Macros and Classifiers in Spectrum Plus</li> <li>• Batch Processing in Spectrum Plus</li> <li>• Exporting and analyzing Image Analysis Results (Excel)</li> <li>• Scalable Processing Architecture (Load Balancing)</li> <li>• Use Image Analysis Tools on Examples (hands-on)</li> </ul>
<b>TMA Lab</b>	<ul style="list-style-type: none"> <li>• Describe Function/Application of TMA Lab</li> <li>• Create TMA Block Templates</li> <li>• Segment TMA Slides</li> <li>• View TMA Spots</li> <li>• Customizing TMA Lab Data Tables</li> <li>• Associate TMA Cores to Specimens</li> <li>• Analyze TMA Spots</li> <li>• Export Metadata and Images</li> </ul>
<b>Genie</b>	<ul style="list-style-type: none"> <li>• Define Genie Terminology</li> <li>• Describe Genie's Origin/Background and Benefits.</li> <li>• Describe Genie Development Workflow</li> <li>• Create Genie Project</li> <li>• Create Genie Training Set</li> <li>• Add Slides to Training Set</li> <li>• Create Classes</li> <li>• Annotate Images</li> <li>• Generate Montage</li> <li>• Create a Classifier</li> <li>• Test Classifier and Adjust</li> <li>• Use Classifier</li> <li>• Export/Import Classifier</li> </ul>
<b>Digital IHC Pathologist Training</b>	<ul style="list-style-type: none"> <li>• Personal Settings (Spectrum Plus, ImageScope)</li> <li>• Case management (work lists, open cases, change status, go to next case)</li> <li>• View cases, specimens and slide information</li> <li>• View multiple slides synchronized side-by-side, pan and zoom, view separate stains, annotate, generate report images</li> <li>• Run quantitative image analysis</li> <li>• Automated data flow from analysis to reports (image analysis results, manual scores, automated score and interpretation calculators)</li> <li>• Enter data accurately and quickly (canned comments)</li> <li>• Create professional reports with slide images</li> </ul>