SPOT IMAGING™
Take a closer look

BlocDoc™
Paraffin Block
Documentation

FAST
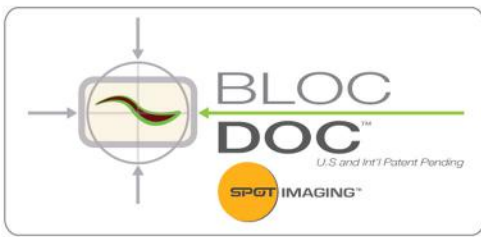
**One Button
2-Second
Operation**

2 SECS

**Easy to
Clean
Design**

Digital Block and Slide Documentation

- Meets accreditation checklist requirements

- Provides automated operation

- Provides enhances image review

- Documents all microtomy process samples

US Patent 11,257,216 B2, Int'l Patent Pending

Completing the Digital Workflow

Pathologists are great at making diagnostic determinations on the images and data they view. Now consider for a moment if not all the relevant tissue is being viewed, Pathologists cannot diagnose what they cannot see.

Pathology societies around the world have recognized that tissue maybe missing from the final slide or WSI image impacting the diagnosis made [1,2]. As a result, accreditation checklists [3,4,5] have been updated to include a requirement for a tissue tracking and review process asking the questions:

Does the lab have a quality check to assure that relevant tissue is:

1. Being cut from the block

2. Making it onto the raw slide

3. Is present in the final stained slide

4. Is scanned into the whole slide image

Pathologists and pathology directors would like to answer these questions, but in the face of falling reimbursement and rising caseloads, they do not have the resources to manually audit the hundreds of blocks and raw slides that pass through their labs every day. In the current workflow, what should be done, Can't be done.

No Pathologist or laboratory director should be faced with this compromise. Solving this problem isn't about heroics and staff overtime, it is about having an efficient tool that fits your process and provides clear reference images during slide examination.
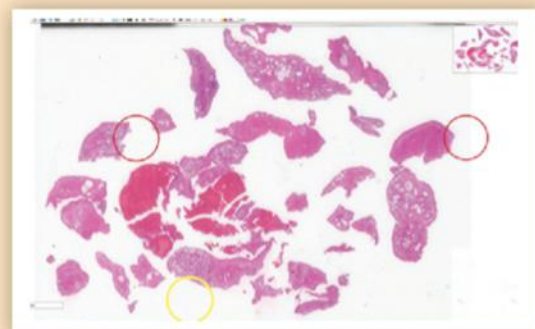
Missing Tissue

Note the subsurface tissue (circled) that is in the paraffin block that did not make it on to the slide for examination. **BlocDoc** images provide clear digital documentation enhancing both the cut surface and the subsurface tissue.

Standard Image capture makes it difficult to see the cut and subsurface tissue.

***BlocDoc** enhanced images clearly distinguish between tissue at the cut surface and tissue below the surface.*

Missing tissue can be easily accounted for as subsurface tissue or in other cases as tissue drop or unscanned.

BlocDoc Addresses Pathology Requirements

SPOT Imaging combines 55 years' experience and a dedicated pathology focus to bring you, **BlocDoc**™ The New Standard in Paraffin Block and Slide Documentation.
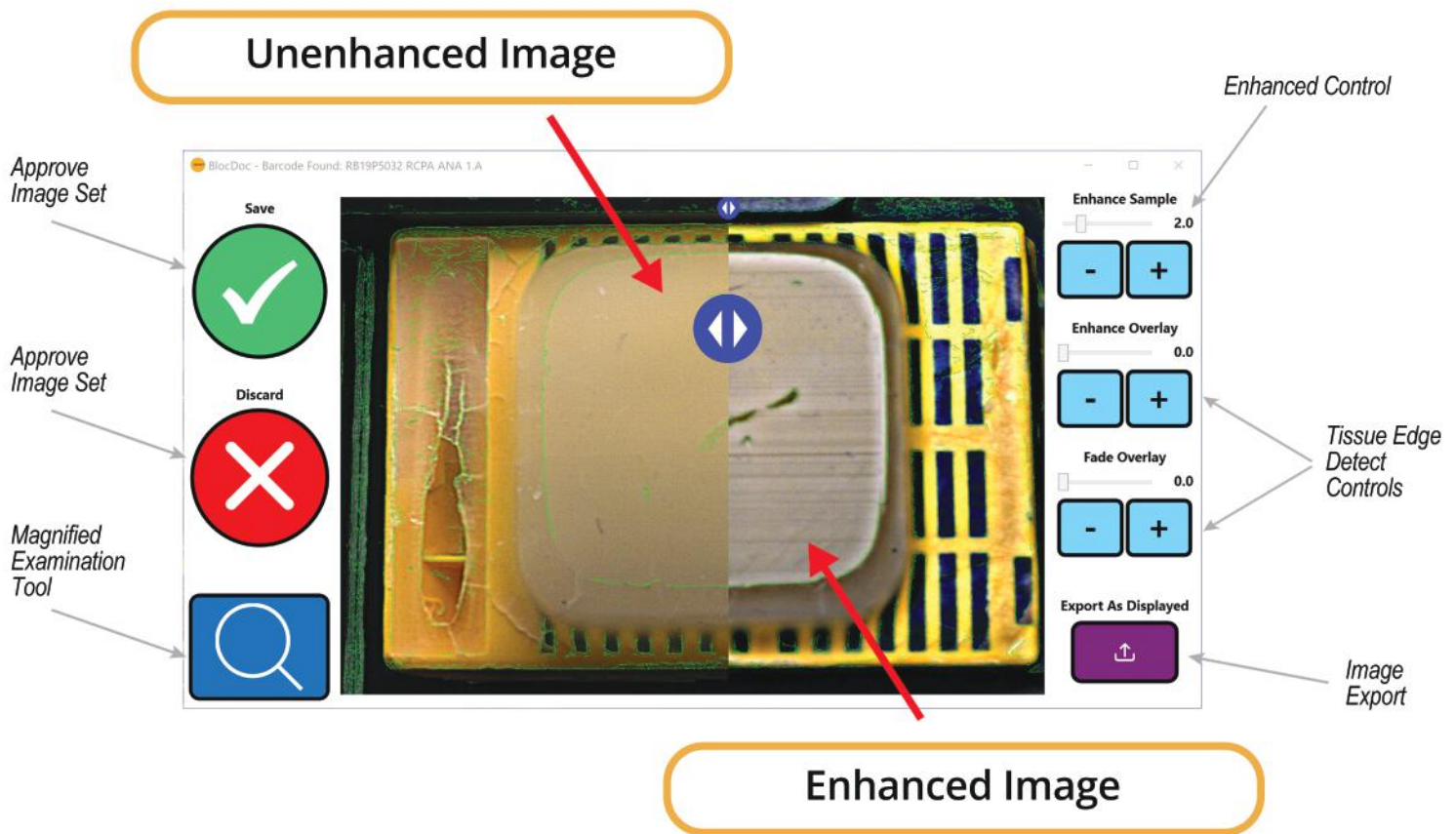
BlocDoc meets accreditation checklist requirements by providing pathologists digital reference images of the cut block and raw slides at the time of slide examination (glass or WSI).

BlocDoc provides enhanced image review of the:

- **Cut Surface of the Paraffin Block**
- **Below Surface Tissue in the Paraffin Block**
- **Raw Slide Tissue Levels**

BlocDoc also provides reference labs an efficient tool for documenting incoming tissue blocks and slides providing an accurate record of what has been received.

BlocDoc is the Right Tool for the Job...

Unenhanced Image

Enhanced Control

Approve Image Set

Approve Image Set

Magnified Examination Tool

Enhance Sample 2.0

Enhance Overlay 0.0

Fade Overlay 0.0

Tissue Edge Detect Controls

Export As Displayed

Image Export

Enhanced Image

1- Filippo Fraggetta,1 Yukako Yagi, 2 Marcial Garcia-Rojo,3 Andrew J. Evans, 4 J. Mark Tuthill, 5 Alexi Baidoshvili, 6 Douglas J. Hartman, 7 Junya Fukuoka, 8 and Liron Pantanowitz 7 The Importance of eSlide Macro Images for Primary Diagnosis with Whole Slide Imaging: J Pathol Inform. 2018; 9: 46. Published online 2018 Dec 24. doi: 10.4103/jpi.jpi_70_18

2- Vincenzo L'Imperio, Fabio Gibilisco, Filippo Fraggetta; (2021), What is Essential is (No More) Invisible to the Eyes: The Introduction of BlocDoc in the Digital Pathology Workflow. J Pathol Inform, 12(1), 15. https://www.jpathinformatics.org/text.asp?2021/12/1/32/326167.

3- Liron Pantanowitz, MD; John H. Sinard, MD, PhD; Walter H. Henricks, MD; Lisa A. Fatheree, BS, SCT(ASCP); Alexis B. Carter, MD; Lydia Contis, MD; Bruce A. Beckwith, MD; Andrew J. Evans, MD, PhD; Christopher N. Otis, MD; Avtar Lal, MD, PhD; Anil V. Parwani, MD, PhD Validating Whole Slide Imaging for Diagnostic Purposes in Pathology: Archives of Pathology Laboratory Medicine — Vol 137, December 2013; p.-1710-1722:

4- Peter Hufnagl, Ralf Zwönitzer, Gunter Hadroske; Guidelines Digital Pathology for Diagnosis on (and Reports of) Digital Images Version 1.0 Bundesverband deutscher Pathologen e.V. (Federal Association of German Pathologist) diagnostic pathology 2018, 4:266

5- Simon Cross, Peter Furness, Laszlo Igali, David Snead, Darren Treanor Best practice recommendations for implementing digital pathology : The Royal College of Pathologists; Unique document number G162, Date active: January 2018

Streamlined for the Histology Lab...

BlocDoc not only meets the needs of the accreditation checklist, it meets the needs of the personnel using it by providing...

Streamlined Workflow

BlocDoc is an automated image capture system optimized for the Histology workflow.

For the **Microtomis**t, it is as simple as placing the block onto the sample holder and pushing the trigger button. This is typically a 2 second operation that allows the microtomist to return to their work until they are ready to place the next block or slide.

In the background, BlocDoc takes care of the image acquisition...

- First, a set of reflected and polarized light images are captured.

- Next, the sample barcode is captured and decoded

- Lastly, **BlocDoc** automatically saves the images to the image repository based on the barcode information captured.

BlocDoc Time Savings

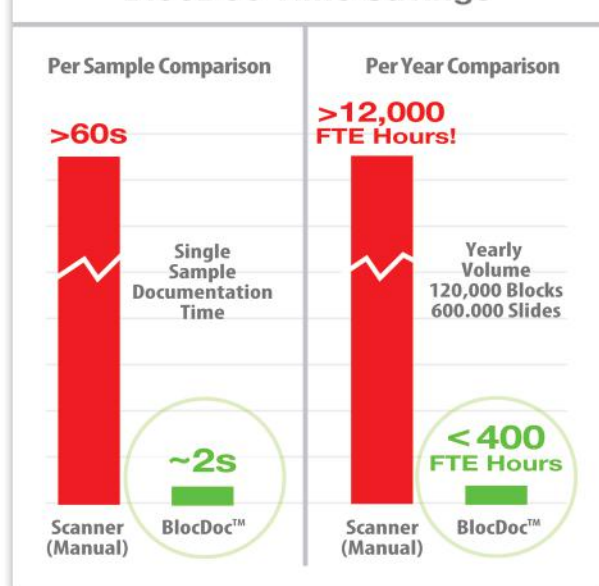| Per Sample Comparison	Per Year Comparison
>60s	**>12,000 FTE Hours!**
Single Sample Documentation Time	Yearly Volume 120,000 Blocks 600.000 Slides
~2s	**<400 FTE Hours**
Scanner (Manual) BlocDoc™	Scanner (Manual) BlocDoc™

Full Sample Support

BlocDoc is one instruments that is quickly converted to run standard blocks and slides to one that runs whole mount blocks and slides. The sample holders change out in less than 5 seconds allowing even short runs of whole mounts to be easily accommodated on any **BlocDoc** instrument.

Standard Mount Sample Holder Cassette & Slide Pockets- Side by Side With Cassette & Slide Mounted

Whole Mount Sample Holder Shared Cassette / Slide Pocket With Cassette Mounted

Whole Mount Sample Holder Shared Cassette / Slide Pocket With Slide Mounted

ENHANCED IMAGES FOR THE PATHOLOGIST...

BlocDoc's enhanced images provide the pathologist with a virtual solution that is better than having the physical specimen block in hand.
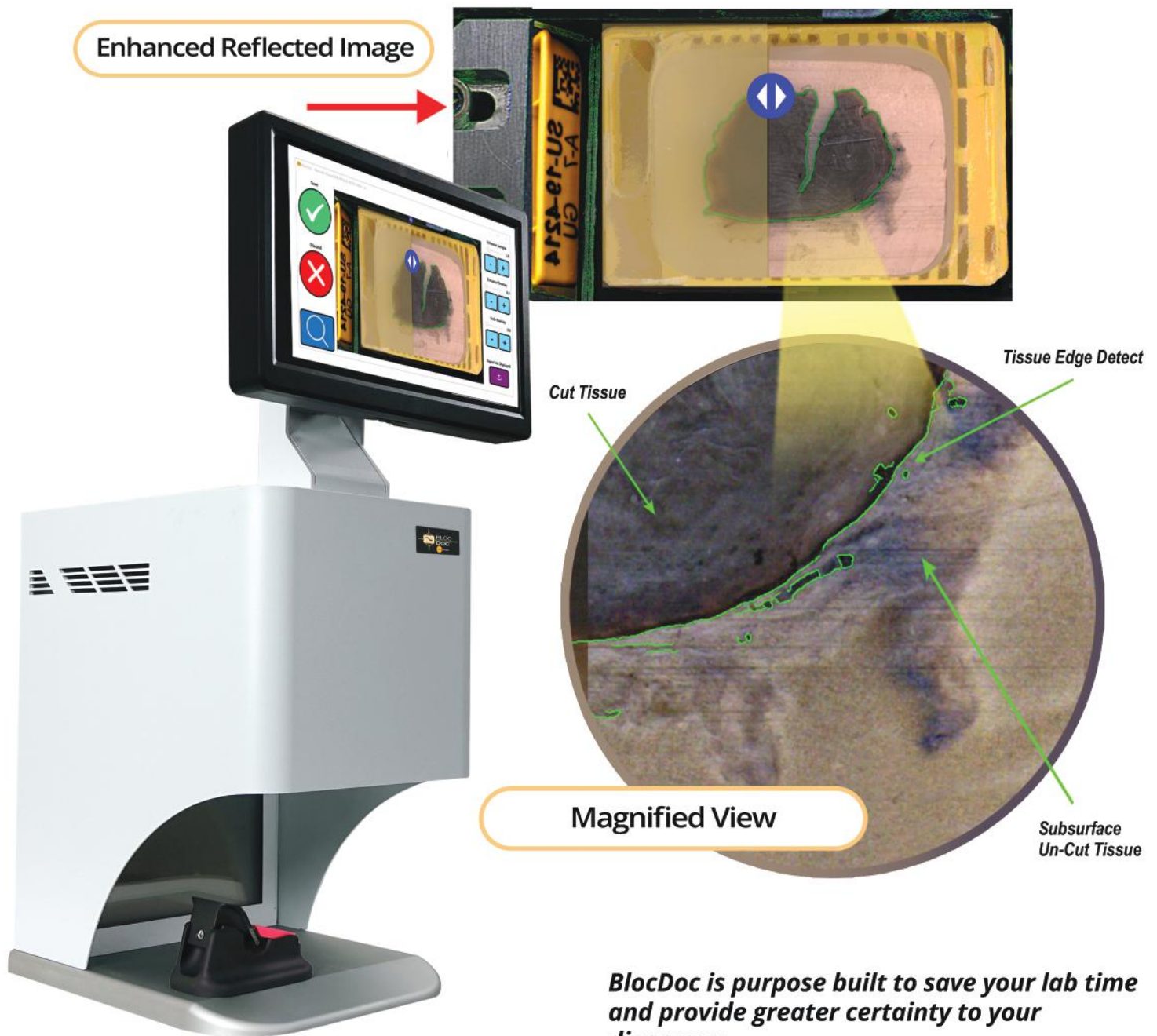
Clarifying the View

BlocDoc's patented* imaging process provides enhanced views of the block's cut surface as well as views of the subsurface, uncut tissue. This eases the visualization of what tissue made it to the slide and what tissue is still in the block. Additional images provide documentation of the raw unstained slide tissue, supporting reviews of each tissue level before staining.

The **BlocDoc** system not only makes the tissue review process more convenient it makes the review clear.

*Patent Pending US and Int'l

Enhanced Reflected Image

Cut Tissue

Tissue Edge Detect

Magnified View

Subsurface Un-Cut Tissue

BlocDoc is purpose built to save your lab time and provide greater certainty to your diagnoses.

BlocDoc Addresses Your Needs

Microtomist Needs:

| Easy To Learn |
| Easy To Use |
| Ergonomic Design |
| Addresses Bad Barcodes |

BlocDoc Provides:

| Graphical User Interface |
| One Button Push / Automatic Operation |
| Easy to use Sample Holders |
| On-Screen Correction Tools |

Pathologist Needs:

| Easy To Learn & Use |
| Sample Images Part of Case File |
| Enhanced Images |
| Answers Tissue Completeness |

BlocDoc Provides:

| Graphical User Interface |
| Open Images from Case File Image Gallery |
| Patented Imaging and Enhancement Techniques |
| View Cut Surface and Tissue in Block |

Histology Manager Needs:

| Completes Digital Pathology Workflow |
| Increases Lab Efficiency |
| Reduces Errors |
| Maintains Lab Accreditation |
| Support All Sample Types |

BlocDoc Provides:

| Digital Sample Assets |
| 2 s Operation Eliminates Calls for Physical Block Transport |
| Inspection Performed Prior to Slide Delivery |
| Addresses CAP Accreditation Checklist |
| Swappable Sample Holders for Standard & Whole Mount |

IT Department Needs:

| Easy Setup and Maintenance |
| Simple LIS Data Transfer |

BlocDoc Provides:

| Software Pre installed |
| Simple Sweep Directory or Full HL7 Synchronization |

Hospital Administrator Needs:

| Increases Lab Efficiency |
| Increases Diagnoses Certainty |
| Reduces Hospital Risk Profile |

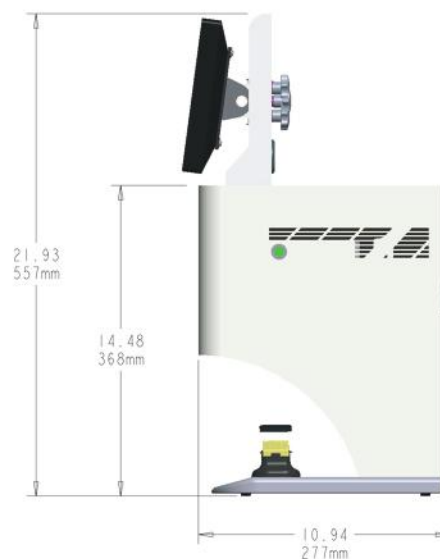## **BlocDoc** Provides:

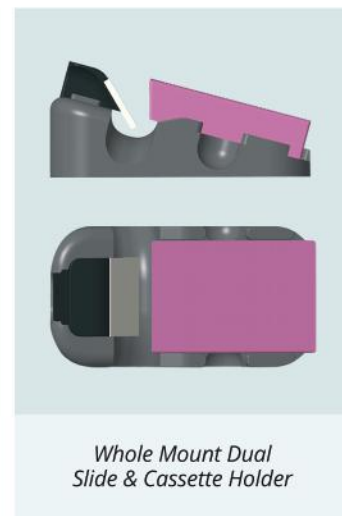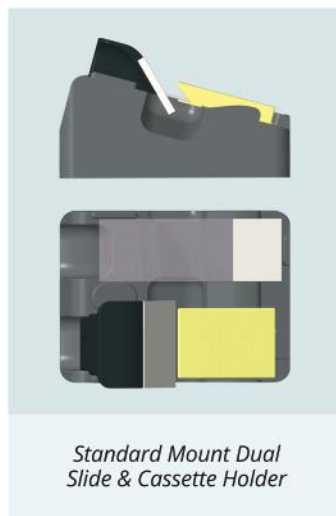| Leverage Assets and Greater ROI |
| Better Patient Outcomes and Higher Hospital Ranking |
| Greater Diagnostic Certainty and Less mistakes |

BlocDoc Specifications

BlocDoc Specifications

Specification	Metric	SAE
Computer OS	Win 10 Pro	Win 10 Pro
USB 3.0 Ports	1	1
LAN Port	1	1
Keyboard and Mouse	Standard Wireless	Standard Wireless
Hand Held Barcode Reader	Optional	Optional
Display		
Touch screen	Standard	Standard
Size Diagonal	256.5 mm	10.1"
Resolution	1920 x 1080	1920 x 1080
Power / Environment		
Input	100-240VAC 2.5A 50/60Hz	
Fuse	5A 100-240VAC 5x20mm SloBlo	
Operating Temperature	0-40 C / 32-104 F	
Cautions	For Indoor use ONLY. For use with Diagnostic Instruments, Inc. BlocDoc Software.	
Certifications	CE, FCC Class A, RoHS	
Instrument Size		
Height	21.93"	557 mm
Width	9.50"	241 mm
Depth	10.94"	277 mm
Weight		
Instrument	35 lbs	15.8757 kg
Shipping	45 lbs	20.4117 kg
Sample Holders		
Standard Mt. Slide	For Std Slide Only Documentation	
Standard Mt. Cassette	For Std Cassette Only Documentation	
Standard Mt. Dual-Cassette & Slide	For Serial Std Slide & Cassette Documentation	
Whole Mt. Dual-Cassette & Slide	For All Whole Mount Sample Documentation	
Additional Cassette Barcode Mirrors	Spares for Quick 2 sec Swap When Dirty	

SPOT Sample Holder Units

Sample holders designed to hold standard and whole mount cassettes and slides.

9.50
241mm

9.20
234mm

21.93
557mm

14.48
368mm

10.94
277mm

Standard Mount
Slide Holder

Standard Mount
Cassette Holder

Standard Mount Dual
Slide & Cassette Holder

Whole Mount Dual
Slide & Cassette Holder

SPOT Integrated Pathology

Clinical Team Needs:

- Team Collaboration
- Streamlined Workflows
- Clear Professional Presentations
- Support of Existing Infrastructure
- Easy to Budget
- Stepwise Implementation

PathSuite Provides:
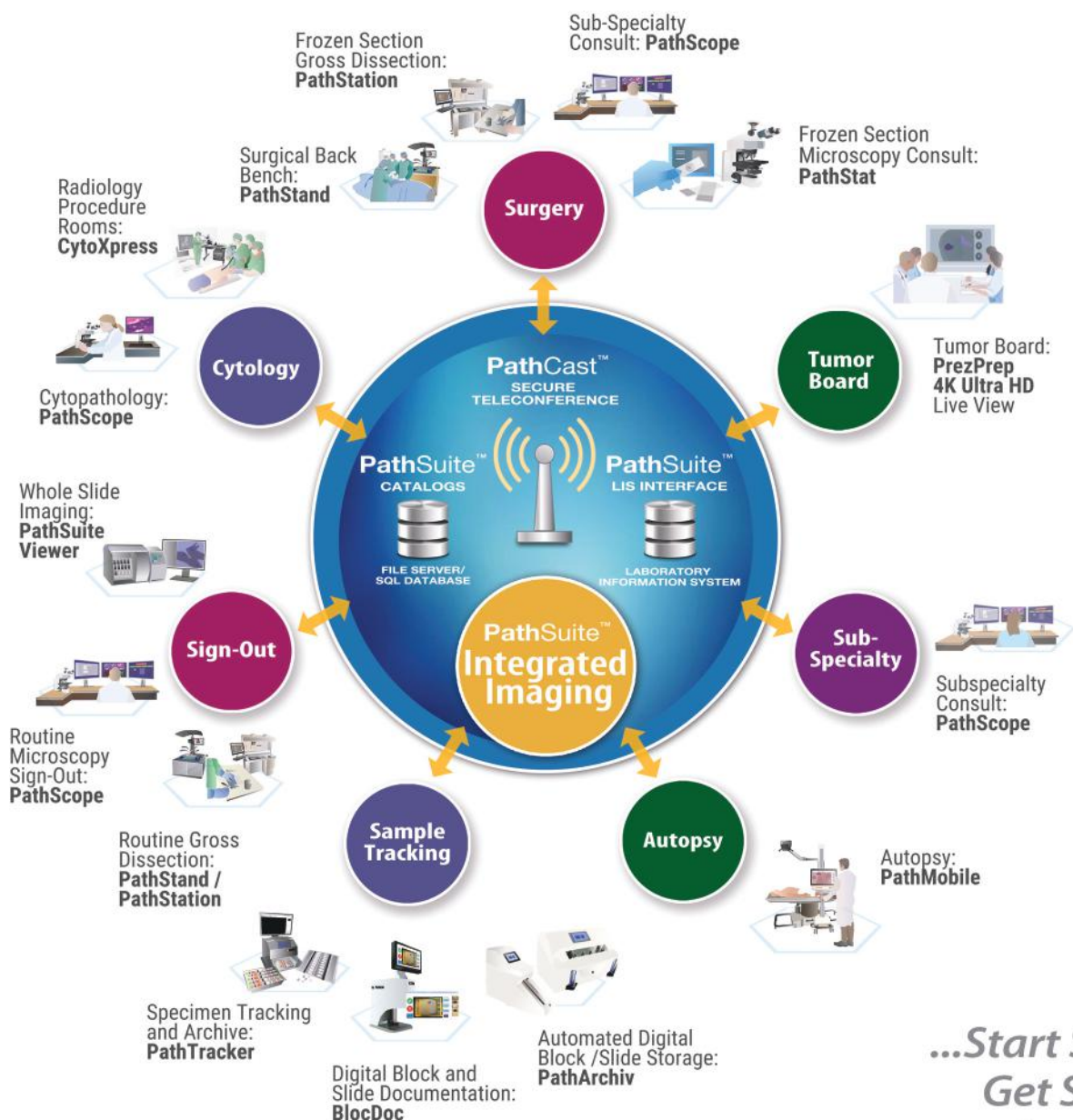
- Central Archive and Telepathology Links
- Purpose Designed Hardware and Software
- Great Images, Clean Layouts
- Configurable Hardware and Software
- Budget Positive ROI's
- Expandable, Interconnected, Modular Solutions

Frozen Section Gross Dissection: **PathStation**

Sub-Specialty Consult: **PathScope**

Surgical Back Bench: **PathStand**

Frozen Section Microscopy Consult: **PathStat**

Radiology Procedure Rooms: **CytoXpress**

Surgery

Tumor Board: **PrezPrep 4K Ultra HD Live View**

Cytology

Tumor Board

Cytopathology: **PathScope**

PathCast™ SECURE TELECONFERENCE

Whole Slide Imaging: **PathSuite Viewer**

PathSuite™ CATALOGS

PathSuite™ LIS INTERFACE

PathSuite™ Integrated Imaging

FILE SERVER/ SQL DATABASE

LABORATORY INFORMATION SYSTEM

Sign-Out

Sub-Specialty

Subspecialty Consult: **PathScope**

Routine Microscopy Sign-Out: **PathScope**

Sample Tracking

Autopsy

Autopsy: **PathMobile**

Routine Gross Dissection: **PathStand / PathStation**

Specimen Tracking and Archive: **PathTracker**

Digital Block and Slide Documentation: **BlocDoc**

Automated Digital Block /Slide Storage: **PathArchiv**

...Start Small, Get Smart, Scale Up!