



1 Scan...
150
Barcodes!!

PATHTRACKER

PathTracker™

Bulk Barcode Reader



Patent Pending

Hand Scanning Batches of Barcodes is Problematic...

Every lab manager and pathology director knows the importance of tracking samples from start to finish. A few losses and your lab's credibility will be in question from both your clinical colleagues as well as your state's regulatory agency.

Best practices dictate "way point" scanning of samples as they traverse histological processing, pathology diagnosis and long term archiving.

While "way point" scanning has helped sample tracking greatly, it has introduced its own issues

related to the number of scans required at each process step and the difficulty of ensuring all cassettes and slides in a basket or index are scanned. The result is mind numbing work and frustrating re-scanning of mismatched manifests.

PathTracker automates this process, eliminating non-value added work and its associated errors.



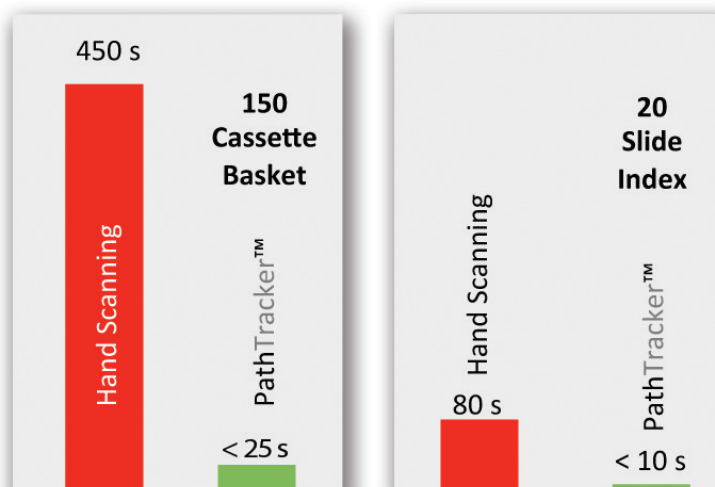
Bulk Sample Tracking Made Easy

PathTracker replaces laborious and error prone hand scanning of cassette and slides with a single push of a button. PathTracker incorporates patented technology to acquire, process, analyze and log all the barcodes in the field of view.

150 cassette processing baskets are scanned in less than 30 seconds, compared to 7.5 minutes for hand scanning. Slide indexes are completed in less than 10 seconds vs 1 minute 20 seconds for hand scanning.

Critically, you can rest assured that all the cassettes were read and any damaged or poorly printed barcodes are flagged. PathTracker then provides a set of correction tools to automatically or manually correct these barcodes ensuring your production run continues through its processing.

Once approved, PathTracker transfers the data set to your LIS and stores the source image and data set to its backup archive.



Realize the Digital Pathology Promise

- Minimize Errors
- Consistently Track Samples: Origin to Archive
- Increase Productivity and Lab Utilization
- Eliminate Operator Frustration
- Maintain Personnel Focus

PathTracker™

Archiving Made Manageable | PathTracker™

PathTracker is a practical and affordable management system for your slide and cassette archive. First, it saves time scanning your cassettes and slides into the archive system. Next it saves money with the ability to use standard cassettes storage drawers rather than expensive proprietary storage drawers that will be archived for years to come. When you need a cassette or slide, PathTracker provides an easy to use search interface that provides the location of the sample for retrieval and then tracks the location of the loan and when its due back. When it's time to return the block or slide, PathTracker eliminates the refiling fees. Simply add the slide or cassette to the next storage container and PathTracker logs it in, updates the database and tracks its new location.



Backed Up and Available Network Wide

PathTracker is configurable to be a stand-alone instrument or a networked resource that utilizes the IT infrastructure. As a network device, PathTracker supports a centralized database for tracking sample assets from multiple terminals across your network. This ensures data backup security as well as remote access from any PathSuite system in the network. Automated archive maintenance is configurable with settings for storage duration on screen images, scannable images, tracking data and long term sample transaction data. PathTracker is an integrated pathology data solution.

Implementation Is Easy...

SPOT Imaging provides the expertise to assist your team with each phase of implementation:

Demonstrations: The SPOT Virtual Demo can quickly and conveniently show your team the PathTracker workflow and validate the practicality of the PathTracker solution.

IT Qualification: Workflow and LIS Connectivity is an important responsibility of any hospital IT Department. SPOT's IT management team can readily answer your IT department's questions and outline the installation process.

Budgeting: Capital committee presentations can be daunting to prepare. SPOT provides assistance in preparing your budgetary presentation with calculators, quotes and infographics that show investment, savings, revenue and ROI. Additionally, SPOT can provide links to peer-reviewed articles regarding studies that support each of the foundation principles of implementation.

Preinstall Prep, Installation and Training: Our experienced installers will provide your team with pre-install check lists and schedule reminders. At installation we uncrate, check-in components, assemble and configure the system to the specific preferences of your institution. Even though the PathTracker is easy to learn and use, we provide on-site personnel training and initial-use support to ensure your team successfully adopts the PathTracker workflow.

Service and Subscription: Ongoing support is essential to ensure that your system is ready to use when your team needs it. SPOT provides a variety of service plans designed to meet the needs of your institution. These plans cover hardware warranty and service, software subscription and technical help desk services. Contact us for details.

PathTracker™ is a Budget Positive Solution

The Math is Simple, the Results are Impressive...

Reduce Scans...

Per 1000 Cassettes



Manual Scanning:
1000 Scans

PathTracker Scanning:
7 Scans!

Reduce Errors...

Manual Operations Average
1 Error per 1000^{1,2}



Manual Scanning:
1 For Every 2
Baskets Processed

PathTracker Scanning:
1 For Every 150
Baskets Processed

Save Time...

Per 120,000 Cassettes Tracked:



Manual Scanning:
600 EFT Hours³

PathTracker Scanning:
6.6 EFT Hours⁴

SAVINGS: 593.4 EFT Hours

Per 600,000 Slides

(from 120,000 Cassettes):

Manual Scanning:
2,500 EFT Hours³

PathTracker Scanning:
25 EFT Hours⁵

SAVINGS: 2,475 EFT Hours

Save Money...

Per 1000 Recuts⁶:



Cost w/ Standard Refiling Charges: \$50,000

PathTracker w/ No Refiling Charges: \$25,000

SAVINGS: \$25,000

Per 500 Cassette Storage Drawers Used⁷:

Cost of Proprietary Drawers: \$16,000

Cost of Standard Drawers: \$8,000

SAVINGS: \$8,000

Save Time, Save Money, Get Productive, Get PathTracker!!

1 - Carraro P, Plebani M. Errors in stat laboratory: types and frequencies 10 years later. Clin Chem 2007; 53: 1338-42.

2 - Effectiveness of Barcode Tracking in Documenting Errors & Preventing Patient Specimen Identification Incidents in Anatomical Pathology Laboratory, Dr .K.C. Lee, Department of Pathology Princess Margaret Hospital, 15 May 2013 PPT

3 - Based on 3 seconds per scan, 6 scanning way points

4 - Based on 150 cassettes per basket 30 seconds per scan, 6 scanning way points

5 - Based on 20 slides per index 8 seconds per scan, 6 scanning way points

6 - Based on \$25 per request and \$25 per restock

7 - Based on \$32 per proprietary drawer (250 cassettes/drawer) and \$16 per non-proprietary (250 cassettes/drawer)

PathTracker™ | Addressing Your Needs



Lab Manager Needs:

Support of Digital Pathology Roadmap

Reduce EFT

Reduce Recut Costs

Minimize Errors

Maintain Lab Accreditation

Support of Current Infrastructure

PathTracker Provides:

Foundation Element for Sample Tracking

Reduces Sample Scanning Time

System Eliminates Cassette Refilling Costs

Flags Location Missing Barcodes

Provides Assured Sample Tracking

Supports Current LIS and Sample Containers



Hospital Administrators Needs:

Maximize Employee and Equipment Utilization

Support Health Network Reputation & Ranking

Assured Sample Tracking

Equipment Standardization

Best ROI and Competitive Capital Purchase

PathTracker Provides:

Eliminate Non-Value Added Activity

Minimizes Error and Lost Samples

Ensures Sample Chain of Custody

Tracks Cassettes and Slides

<1/2 the Cost of Nearest Competitor



Pathology Assistant and Histologist Needs:

Easy to Learn

Easy to Use

Ergonomic Design

Address Damaged or Poorly Printed Barcodes

PathTracker Provides:

Graphical User Interface

System Optimized for Sample Tracking

Open Design with Easy Access to Samples and Controls

User Lot Approval and Operator Manual Input Override



IT Department Needs:

Choice of LIS Data Transfer Interfaces

Data Backup

Easy Installation and Maintenance

PathTracker Provides:

Hand Scan Emulation Mode, Flat File or Full LIS Driver

Internal Database with Historical Review & Download

Access to SPOT Programmers, Installers and Tech Support

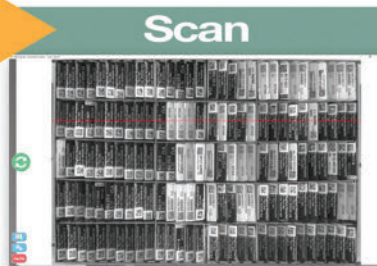
PathTracker™ | Software

Basic Tracking Interface Module

The Basic Tracking Interface is our entry level (and first release) software. It provides a plug-in replacement for hand held scanners that are currently in use. This allows labs to quickly benefit from PathTracker's scanning speed and accuracy while the Advanced LIS Interface is implemented for your Lab.



Align your container to the field of view and you're ready to scan.



Click the start button and PathTracker's sophisticated hardware and software finds the barcodes for you.



In the real world, not all barcodes are created equal. PathTracker acknowledges that some barcodes will be less than optimal due to contamination, damage or printer issues. It flags these with a red rectangle.



At the users workstation, the PathTracker Data Client App notifies the user that data is ready for clipboard transfer into the LIS tracking field.



With approval, the data set and reference image are stored to the PathTracker Network archive database.



PathTracker provides correction tools to ensure your workflow continues to completion while printing issues are addressed.

Future Releases:

Advanced LIS Interface Software Module

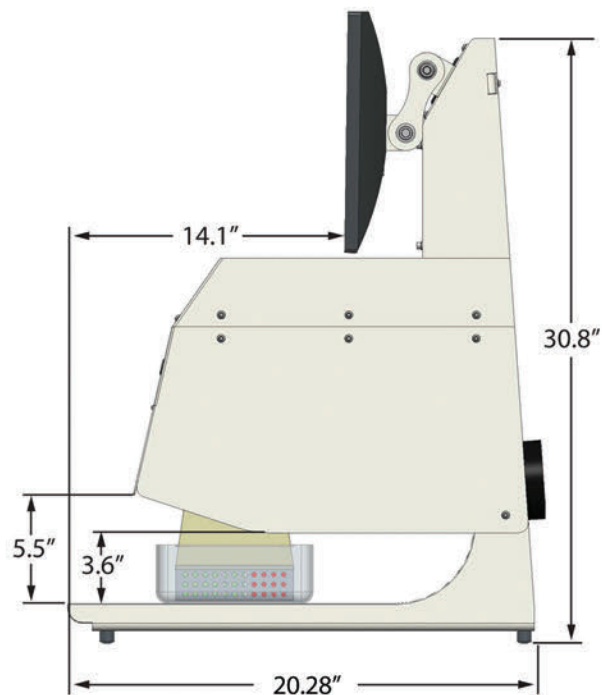
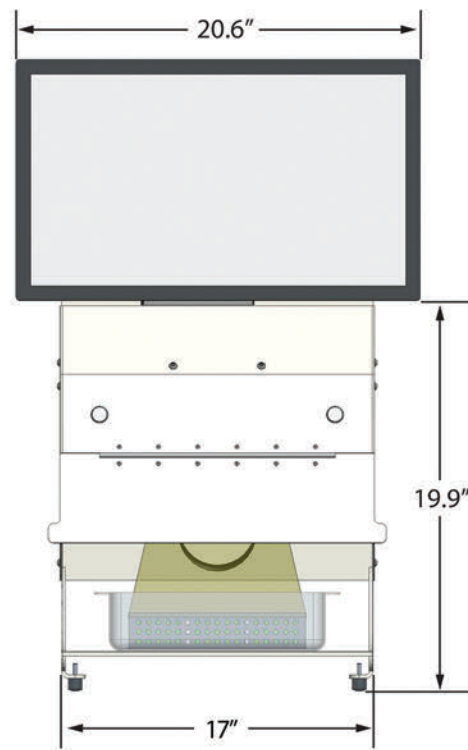
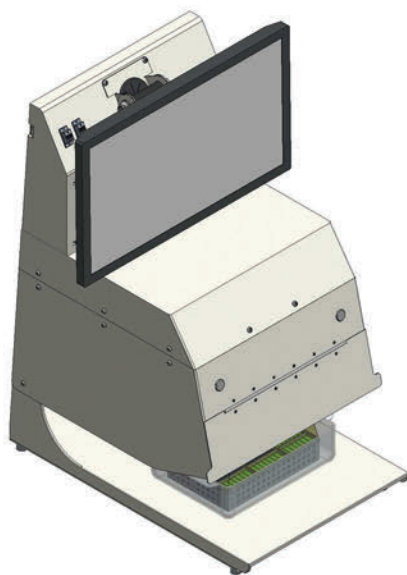
PathTracker Advanced LIS Interface is an interactive interface that will interrogate the modality work list and flag samples that are missing or late to the next processing step, allowing users to head off problems in a timely fashion.

Archive Management Software Module

PathTracker Archive provides network based archive management interface for scanning and registering sample storage locations into the PathTracker database. As slides and cassettes are needed, PathTracker provides the location and will generate a request email to the responsible party. Once the sample is received, PathTracker will use its contact list to print labels and register who the sample was sent to. Additionally, PathTracker will generate a reminder email when the sample is due back to the loaning party. When the sample is returned, PathTracker eliminates your refiling fees by allowing the sample to be included in the next archiving run. PathTracker automatically records the new storage location and updates its records.

PathTracker™ | Hardware Specifications

Specifications	Metric	SAE
Computer OS	Win 10 Pro	Win 10 Pro
USB 3.0 Ports	2	2
Washable Keyboard and Mouse	(optional)	(optional)
Hand Held Barcode Reader	(optional)	(optional)
Display		
Touch Screen	Standard	Standard
Size (diagonal)	54.5 cm	21.5"
Resolution	1920 x 1080	1920 x 1080
Sample Capacity		
Maximum Cassette FOV (HxV)	22.9 x 15.3 cm	9.0" x 6.0"
Maximum Number of Cassettes	150	150
Maximum Microscope FOV (HxV)	34.3 x 22.9 cm	13.5" x 9.0"
Maximum Number of Slides	20	20
Maximum Container Height	14.0 cm	5.5"
Instrument Size		
Height	78.2 cm	30.8"
Width	43.1 cm	17"
Depth	51.5 cm	20.28"
Ventilation Coupling		
Diameter	10.2 cm	4"
Height from Table Top	21.3 cm	8.4"
Weight	38.21 kgs	84.25 lbs
Power		
Source Voltages	240VAC 50Hz	120VAC 60Hz
Consumption	TBD (< 180W)	TBD (< 180W)
Fuse	TBD (1.0 A)	TBD (1.5 A)
Certifications	CE, FCC Class A, RoHS	CE, FCC Class A, RoHS



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

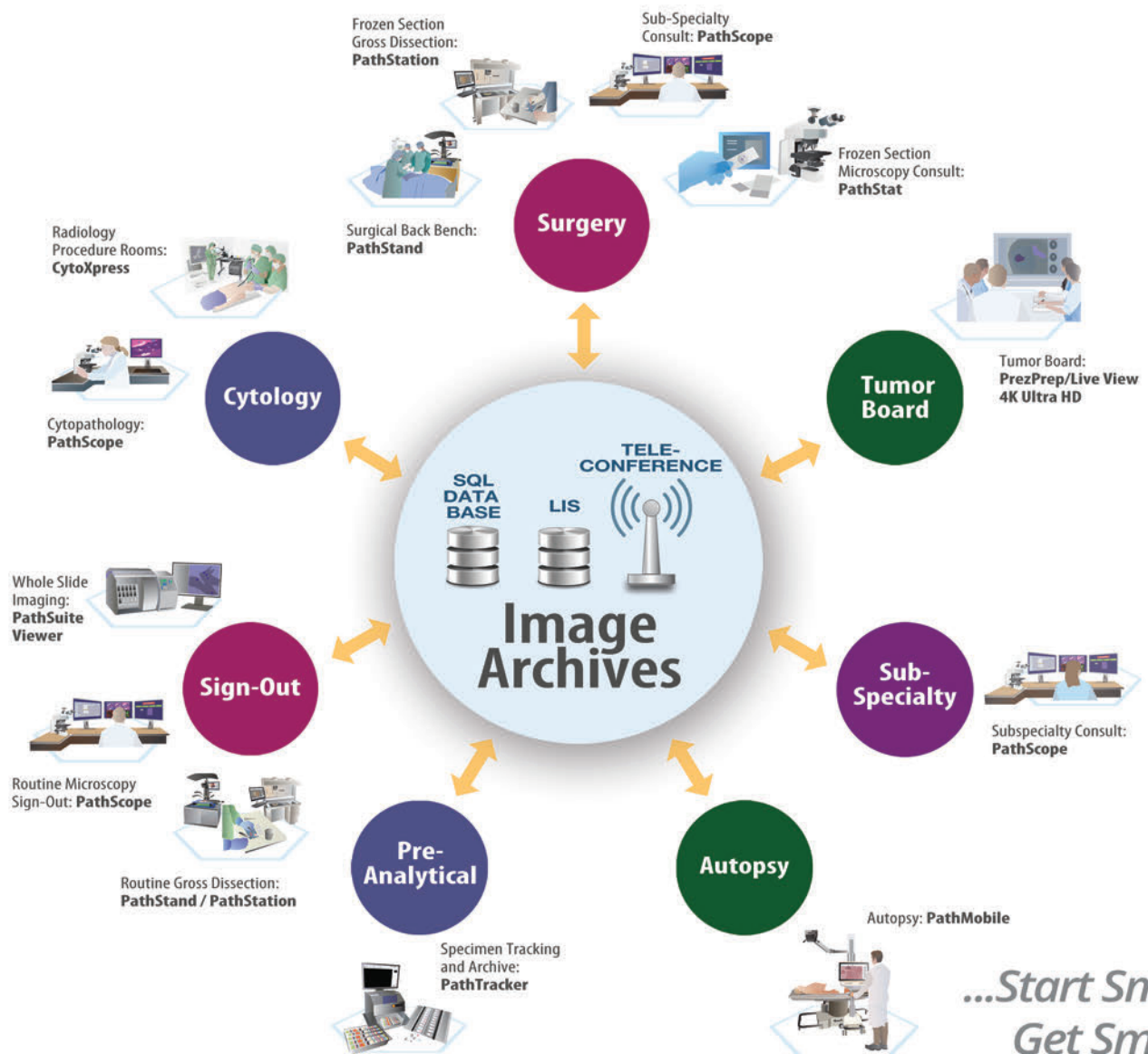
Purpose Designed Hardware and Software

Great Images, Clean Layouts

Configurable Hardware and Software

Budget Positive ROI's

Expandable, Interconnected, Modular Solutions



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