aim|Lab
Automation Technologies

YOUR ANSWER TO SAMPLE TUBE SORTING, STORING AND TRACKING

PATHFINDER
450S SORTER

Lab automation made easy

BENEFITS

- ✔ Improves Sample Turnaround Time
- ✔ Free up valuable lab staff for more productive tasks
- ✔ Reduces manual sampling handling errors
- ✔ Avoids missing test orders
- ✔ Eliminates lost or misplaced tubes
- ✔ Simplifies training for new staff
- ✔ Improves workflow and efficiency

STEP 2

Tubes are individually collected and identified via the barcode label.

STEP 3

PathFinder 450S communicates with the LIS, confirms the arrival of the specimen and verifies the testing or storage requirements for the tube.

PathFinder 450S

ore   ESR   HbA1c   Coag   Sickle Cell   SMS Slide   Error

STEP 5

Repeat loading until all tests are complete and tubes placed to storage.

STEP 4

Tubes are placed in destination racks for analysis or storage.

PATHFINDER 450S SORTER

The PathFinder 450S is a bench-top robotic workstation for managing pre and/or post analytical sorting, storing and tracking of sample tubes in a laboratory. When key sorting decisions are required, the PathFinder 450S will give you the peace of mind that your samples are being sent to the correct destination automatically and without mistakes.

The instrument's compact size allows it to be easily accommodated anywhere in the lab making it ideally suited to solve your sorting bottlenecks. You'll be amazed with the overall improvement in sample handling and ultimately the workflow in the lab. What's more, the PathFinder 450S' size and flexibility in configuration makes tube automation accessible to small and medium laboratories.

The PathFinder 450S processes samples at up to 450 tubes per hour. Tubes are sorted into various destination racks based on the tube's barcode identification. Racks can be loaded and unloaded at any time without stopping the instrument and impacting the throughput.

With simple, robust functionality, the PathFinder 450S can help laboratories address many of the challenges associated with sample management.
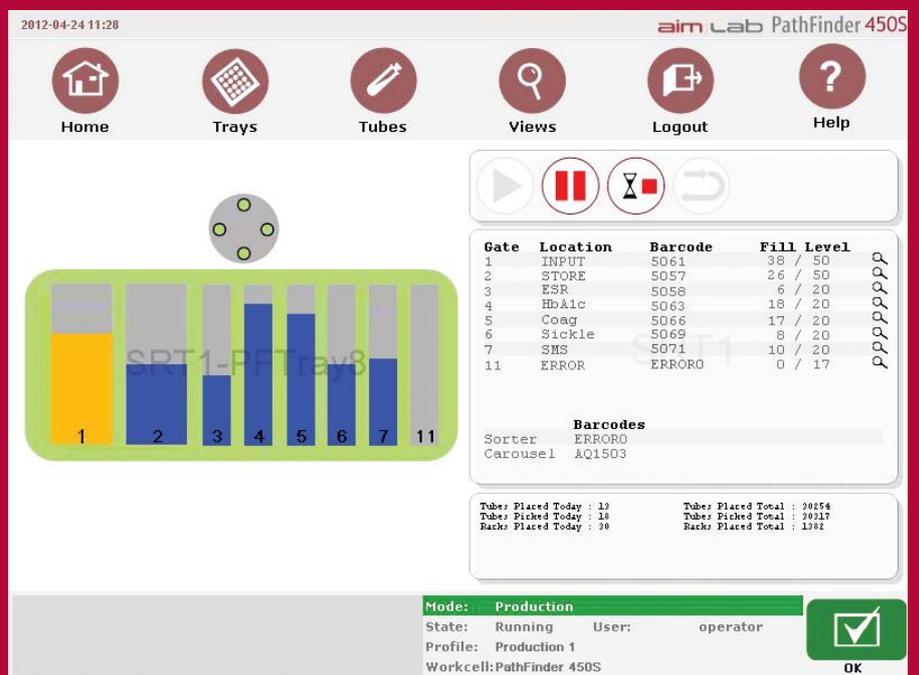
EASY-TO-USE SOFTWARE

All the operator needs for routine operation is displayed through the Graphical User Interface which provides the current sorting and instrument status via colored graphical displays, intuitive icons and message windows. More detailed information can be easily obtained if required by clicking on a module graphic or in the case of diagnostics, through pop-up help menus.

It is easy to search for the location of a specific tube through the in-built database either via the local touch screen or anywhere on your network using your browser.

Statistical reports and graphs on the number of tubes processed or how they have been distributed over a selectable time period can be generated on demand. In fact, the instrument status along with the ability to access productivity reports can also be accessed remotely through the network or via the Internet.

APPLICATIONS

- ✔ **Distribution of samples to different departments or analyzers on receival**
- ✔ **Prioritised recursive sorting of samples to different analyzers, for example, in hematology**
- ✔ **Auditing test panel completeness prior to storage**
- ✔ **Inter and intra lab sample tracking**
- ✔ **Sample workflow enhancements**

ADAPTABLE

- ✔ **Can be configured to pick from or place directly into analyzer racks**
- ✔ **Handles all standard sample collection tubes**
- ✔ **Quick layout changes for different applications**
- ✔ **Color coded sample racks for ease of identification**
- ✔ **Different tube gripper options to suit closely spaced tubes**
- ✔ **Choice of different languages**

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THE PATHFINDER FAMILY

Along with the PathFinder 450S Sorter, Aim Lab Automation Technologies offers a family of specimen tube automation solutions ranging from the PathFinder 900 Plus, a fully automated multifunctional tube management system to the bench top PathFinder 350A for post analytical capping and sorting of sample tubes.

One or more PathFinder systems (either 450S or 350A) can integrate with the PathFinder 900 Plus to provide a network of systems enabling error free sample prioritizing and tracking within the same site or between laboratories which share a common LIS system.

PathFinder 350A Archiver

PathFinder 900 Plus

PATHFINDER 450S SPECIFICATIONS

THROUGHPUT

Up to 450 tubes/hour

PRESENTED TUBES

Handles most standard sample collection tubes from major tube manufacturers

Diameter: 12 -16 mm

Height: 63mm – 120mm

RACK TYPES

PathFinder coloured racks - 20 well (PF20), 50 well (PF50)

Choice of rack adapters for different analyzer racks

Stat/Error rack

SORTING AREA CAPACITY

Up to 266 samples

LIS INTERFACE

Bi-directional interface; CLSI/NCCLS LIS2-A (ASTM E 1394-91)

DIMENSIONS

100cm (40") L x 45cm (18") W x 52cm (21") H

COMBINED WEIGHT

38kg (84lbs) - Sorter module, specimen tray, compressor

POWER SUPPLY

Sorter: 100 - 240VAC, 50 - 60Hz, 150W

Compressor: 100–120/220-240 VAC, 60/50 Hz, 100W

OPERATING TEMPERATURE RANGE

10°C - 35°C (50°F - 95°F)

UTILITIES REQUIRED

Power

Network point

CERTIFICATION

Designed and manufactured in accordance with ISO13485

2004/108/EC and 2006/95/EC

![aim|Lab Automation Technologies]

www.aimlab.com

International Head Office

10-22 Hornibrook Esplanade, Clontarf, Qld 4019, Australia

P: +61 7 3897 1600

F: +61 7 3283 7922

E: aimlab@aimlab.com