



aim|Lab
Automation Technologies

PATHFINDER 900 PLUS

TAKING THE STRESS OUT OF MANAGING YOUR
SAMPLES

Lab Automation Made Easy



Key Benefits

- Improves laboratory workflow and sample Turn Around Time
- Minimizes manual handling errors and decision steps
- Decreases biohazard exposure
- Reduces lost or misplaced tubes
- Reduces RSI injuries
- Assists in tracking samples as they move through the laboratory
- Free up lab staff for more productive work

Applications

- Automated aliquoting and distribution of secondary tubes
- Automated decapping and distribution of decapped primary tubes
- Recursive distribution of samples based on test priority
- Auditing test panel completeness
- Capping and archiving of samples into low cost storage racks
- Foil sealing and sorting of prepared "send out" tubes ready for transport

Flexibility

The PathFinder 900 Plus has been developed with flexibility as an essential design criteria. Sample racks can be loaded or unloaded from the front or either side of the instrument onto easily configurable specimen trays. Any rack position (and there can be up to 40 in total) can be set up as either an input or output position giving ultimate flexibility in the layout. As a result, the instrument can be configured specifically to optimize the workflow based on both the workload and layout of your laboratory. Several operators can access the system at the same time without getting in each other's way.

User-centric design

The flexibility also characterizes the way the system processes samples. Tubes can be directly picked from or placed into different analyser racks or low cost PathFinder automation racks. PathFinder racks are conveniently available in different capacities and colors and make ideal destination or storage racks. Operators are alerted to empty input racks or full output racks as soon as they need replacement. Even partially filled racks can be replaced at any time without stopping the instrument and impacting throughput. The system layout can be changed in a matter of minutes as the workload changes throughout the day.

Compact Size

With a footprint of only 2.5m x 1.4m (8.2' x 4.6') and a working area that allows operator access from both the front and the sides, the PathFinder 900 Plus is compact in size for the functionality and flexibility it offers. The component modules fit through a standard doorway so the system can be subsequently assembled on site with minimal disruption to existing infrastructure or the laboratory layout.

Parallel Processing

The dual track design allows parallel sample processing to improve overall efficiency. Samples that require only sorting will bypass sample queues for aliquoting and capping. The PathFinder 900 Plus workcell controller monitors the input workload to automatically optimize the work directed to each module. This workload balancing capability ensures maximum throughput performance of each module is maintained under varying workloads.

Learn more about the range of instruments in the PathFinder family.

<https://www.aimlab.com/products/pathology-automation>

PathFinder 900 Plus Specifications

THROUGHPUT

Up to 1,200 sorted tubes/hour (sorting only)

Up to 1,000 de-capped tubes/hour (de-capping only)

Up to 1,100 foil capped tubes/hour (capping only)

Up to 560 total tubes/hour de-capping and aliquoting (1 primary: 3 secondary)

SAMPLE ID

Positive barcode identification

Tube type recognition

PRESENTED TUBES

Handles most standard sample collection tubes from major tube manufacturers

Diameter: 12 - 16 mm

Height: 63mm - 120mm (depending on rack)

RACK TYPES

PathFinder racks - 20, 50 or 128 well sample racks, available in different colours

Choice of rack adapters for loading different analyser racks

Stat/error rack

SORTING AREA CAPACITY

Up to 1,016 samples (16mm OD tubes)

Up to 2,064 samples (13mm OD tubes)

LIS INTERFACE

CLSI/NCCLS LIS1-A (ASTM1381-95) and LIS2-A (ASTM1394-97), bi-directional (TCP/IP or File Transfer)

DIMENSIONS

2.5m (8.2') L x 1.4m (4.6') W x 1.8m (5.9') H

POWER SUPPLY

220 - 240VAC, 50 - 60Hz, 2400W

OPERATING TEMP. RANGE

10°C - 35°C (50°F - 95°F)

UTILITIES REQUIRED

Power

Network point

Compressed air

CERTIFICATION

Designed and manufactured in accordance with ISO13485

Meets 2014/30/EU, 2014/35/EU, REACH, RoHS



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