

# AIA<sup>®</sup>-600 II

Automated Immunoassay Analyzer



Large System Performance  
in a Compact, Benchtop Design



**TOSOH BIOSCIENCE**

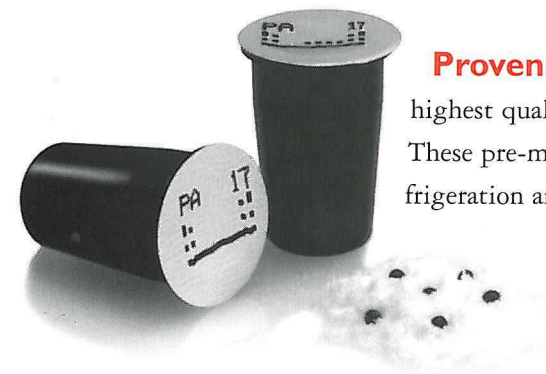
## THE AIA-600 II — THE FIRST BENCHTOP SYSTEM TO OFFER ALL THE AUTOMATION, POWER AND PERFORMANCE OF A LARGE SYSTEM.

**Compact.** Tosoh's breakthrough technology provides a no compromise immunoassay solution that fits in just 30 inches of counter space.

**Fast.** With throughput of 60 results per hour including STAT assay results in 18 minutes, the AIA-600 II is the ideal solution for time-critical tests such as cardiac markers. Continuous process operation maximizes workflow by allowing additional samples and tests to be added at any time without interrupting sample processing. Tests can be run individually or as a panel depending on clinical needs.

**Flexible.** The AIA-600 II's specialized carousel incubator lets you mix both STAT and standard assays. There is no need to batch tests. Continuous random access and continuous process operation lets you run any test, in any combination, in any order, at any time.

**Reliable.** Accuracy and result integrity are built in with features such as positive specimen ID, automated sample level sensing, disposable pipette tips and Tosoh's exclusive dual clot detection. With Tosoh's standardized reagent system, all assays are run exactly the same way which eliminates errors and variation in results.



**Proven.** Tosoh's AIA-PACK test cup technology continues to provide the highest quality results with the least amount of hands-on time, error or waste. These pre-measured, pre-packaged test cups require no preparation, no on-board refrigeration and offer ultimate consistency in result reporting.



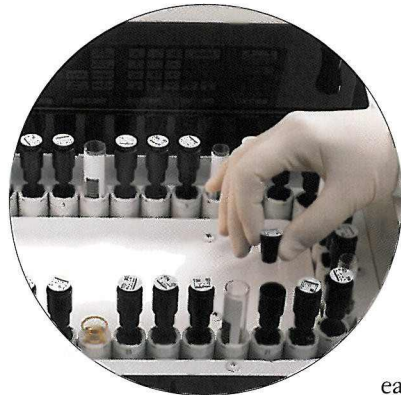
# SYSTEM OPERATION:

LARGE SYSTEM PERFORMANCE IN A COMPACT BENCHTOP DESIGN



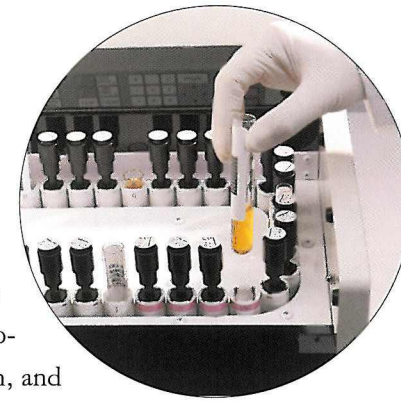
## Ease of Use

At start up, the operator simply turns the system on. A series of maintenance and system checks are performed automatically. The operator checks fluid levels, reagent supply, and paper. In just a few minutes, the system is ready to run samples.



## Walk away Convenience:

To begin testing, the operator loads bar-coded primary tubes or sample cups directly onto the system. Up to 5 unitized test cups can be loaded behind each patient sample. On the top of each test cup is a unique ID code which is read by an on-board camera. There is no need to manually order tests. Once samples and test cups are loaded, the operator presses START and walks away. Dilutions and pretreatments are performed on-board automatically.



## STAT Performance

Simply place the sample in one of the dedicated priority positions on the system, and press START. The first STAT result is reported in just 18 minutes, and additional STAT results are reported every 60 seconds thereafter. Once STAT samples are processed, the system resumes standard testing automatically.

## Data Manager (PIANO Software)

- Patient Demographics
- Full Quality Control Program
- Cumulative Reporting
- Graphical Result Tracking
- Bi-directional Interface to any LIS



# AIA<sup>®</sup>-600 II

Automated Immunoassay Analyzer



## Any Test, Any Combination, Anytime ... All the time

With continuous random access operation, additional samples and tests can be added at any time without interrupting sample processing.

## Result Integrity

To ensure the highest level of result integrity, the AIA-600 II features disposable pipette tips to eliminate carryover, automated sample level sensing for short sample detection, and Tosoh's exclusive dual clot detection which monitors the specimen at sample processing and again at the wash phase.

## Maintenance

Daily maintenance on the AIA-600 II is totally automated and requires only 5 minutes per day at system start-up. Weekly maintenance requires only a few minutes of operator time and involves simple cleaning of the washprobe.



# REAGENT TECHNOLOGY

Thousands of labs worldwide have come to rely on Tosoh's exclusive AIA-PACK test cup reagent technology.

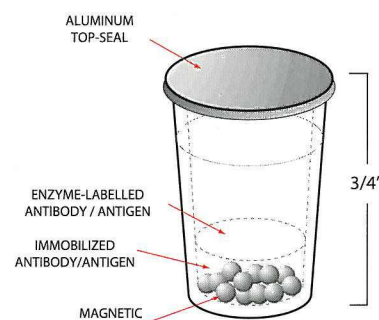


## Simply a Great Reagent Format

- Single, unitized test cups
- No mixing, measuring or preparation
- Calibration stability up to 90 days for most assays
- Stores two calibration curves per assay
- Dry format requires no on-board refrigeration
- All reagent trays & cups are coded with test ID & lot number for automated scheduling

## Tosoh's Universal Reagent—The AIA-PACK Test Cup

The AIA-PACK test cup format works with all Tosoh automated immunoassay systems. From bench-top systems with a capacity of 60 results per hour to high-throughput systems that deliver 120 results per

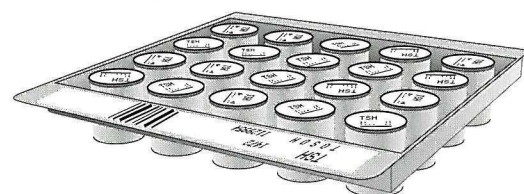


hour, Tosoh's standardized test cup format ensures accurate, consistent performance.

Because Tosoh reagents are system-interchangeable, laboratories with more than one Tosoh system can order and use the same reagents. Transition from one system to another is seamless, ensuring consistent results and efficient, economical operation for the laboratory.

## Expanding Menu

The Tosoh AIA-PACK test menu provides an extensive range of immunoassay tests including thyroid hormones, cardiac markers, tumor markers, reproductive hormones, anemia markers, and an expanding array of new assays.



# SYSTEM SPECIFICATIONS

## System Operation

- Random access — run any test, any combination, in any order, at any time
- Continuous process — no "Pause" for sample or reagent additions
- STAT assay performance — STAT results within 18 minutes
- Integrated touchkey operation
- Bi-directional interface

## Sample Handling

- Auto dilution, auto pretreatment
- Accepts a wide variety of primary tube sizes
- 10-150 ul sample volume
- Automated sample level sensing

## Result Integrity

- Positive specimen ID
- Disposable pipette tips
- Dual clot detection

## Performance

- Throughput of 60 results per hour
- Two calibration curves stored per analyte
- Third generation sensitivity

## Tosoh Test Cup Reagent System

- 90 day stored calibration stability on most assays
- No on-board refrigeration required
- No mixing, no measuring, no waste

## Data Management / Quality Control (PIANO Software)

- Interface can be linked to any LIS or an optional data management system
- Full range of patient demographics
- Quality control
- Cumulative reporting
- Graphical tracking of individual patient results

## Instrument Specifications:

**Size:**  
Width: 80.3 cm  
Depth: 73.9 cm  
Height: 50.3 cm  
Weight: 67 kg

## Interface:

Bi-directional  
Host query  
Communications via ASTM standards

## Electrical:

Voltage: 220-240 VA  
Frequency of 50/60 Hz



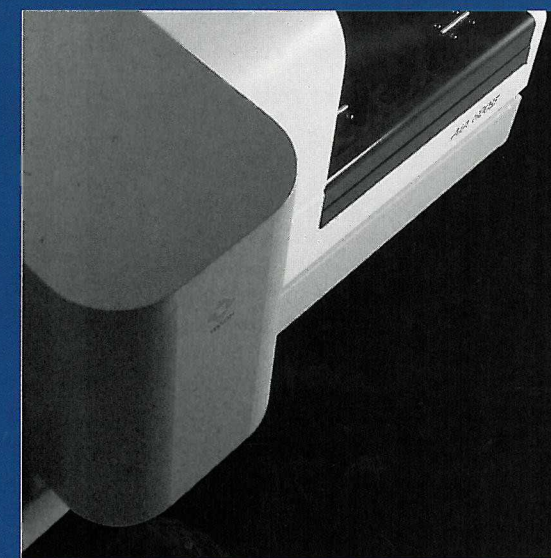


- Compact Benchtop Size
- Throughput of 60 Results per Hour
- STAT Assay Results in 18 Minutes
- Third Generation Sensitivity
- Primary Tube Sampling
- Automated Sample Dilution & Pretreatment
- Dual Clot Detection



**AIA<sup>®</sup>-600 II**  
Automated Immunoassay Analyzer

## LARGE SYSTEM PERFORMANCE



IN A COMPACT, BENCHTOP DESIGN



**TOSOH BIOSCIENCE**

TOSOH

### EUROPE

Transportstraat 4  
3980 Tessenderlo  
BELGIUM  
Tel. +32 (0)13 66 88 30  
Fax: +32 (0)13 67 24 94

### FRANCE

"Les Sables de Sary"  
69, Rue des Sables de Sary  
45770 Saran  
Tel. +33 (0)238 72 44 44  
Fax: +33 (0)238 72 44 40

### UK

The Business Centre  
Edward Street, Redditch  
B97 6HA Worcestershire  
Tel: +44 (0)1527 59 29 01  
Fax: +44 (0)1527 59 29 02

### ITALY

Corso Susa 299/A  
10098 Rivoli-Torino  
Tel. +39 011 95 19 333  
Fax: +39 011 95 19 329

### DEUTSCHLAND

Zettachring 6  
70567 Stuttgart  
Tel: +49 (0)711 1325 760  
Fax: +49 (0)711 1325 762

### SWITZERLAND

Fanghöfli 14  
6014 Littau-Luzern  
Tel. +41 (0)41 250 44 80  
Fax: +41 (0)41 250 50 64