

# Immunoassay near-at-hand

Tosoh's Test Cup Reagent

## ST AIA-PACK

### AIA System Assay Principle

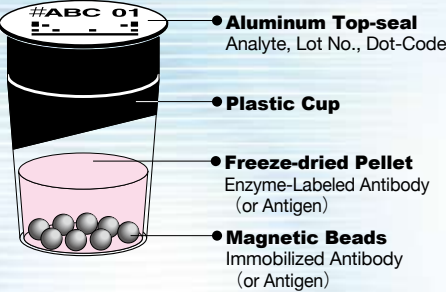
#### ST AIA-PACK Test Cup

Tosoh's reagent system used with the AIA-360 is completely self-contained within our ST AIA-PACK test cups.

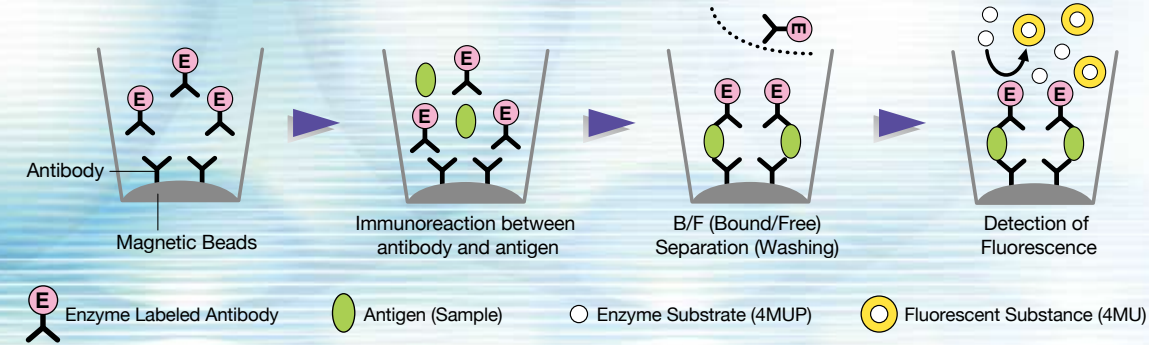
The ST AIA-PACK test cups are disposable plastic cups containing the necessary reagents for one test immunoreaction.

The contents of the test cups are freeze-dried and sealed for long term storage. All reactions and fluorescence measurements are performed in the test cup.

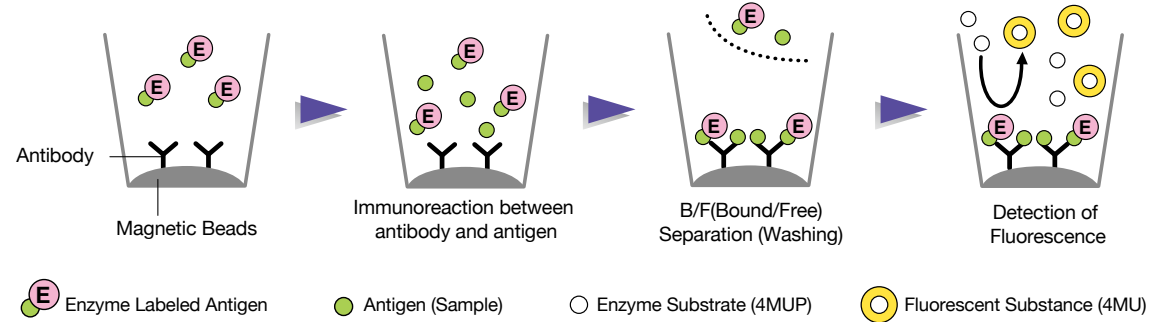
The same standardized procedure is used for all assays on the AIA systems, allowing the labor saving benefit of true random access.



#### One Step Sandwich Method



#### One Step Competitive Method



Automated Enzyme Immunoassay System

## AIA-360

### SPECIFICATIONS

Assay Principle	Fluorescence Enzyme Immunoassay
Detection	LED illuminant, non flow cell / TOP-TOP photometry method
Throughput	36 tests per hour
Reaction time	Antigen antibody reaction: 10 minutes
Sample loading Capacity	Maximum 25 samples
Reagent loading Capacity	Maximum 25 tests
Test for each sample	4 tests per sample
Sampling	Fixed probe with clot detection function
Sample containers	Primary tube : 13 × 75, 13 × 100, 16 × 75, 16 × 100 mm (Diameter × Length) Dedicated sample cup
Specimen barcodes	CODE39, CODE128, ITF, NW-7 compatible (compliant with ASTM14466-92 and CLA guideline compliant barcodes) Min. element width (narrow) : 0.191 (0.254 or over recommended)
Interface	RS-232C
Size / Weight	400 (W) × 400 (D) × 520 (H) mm / 29 kg
Power requirement	AC100-240 V 50 / 60 Hz 250 VA
Operating Environment	Temperature: 15-30 °C, Humidity: 40-80 %
Conformance Status	EMC standard EN60601-1-2: 2001 CISPR class and group categories Class A, Group 1 FCC Part15 Sub, Part B Class A

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TOSOH

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Certified Management System  
• ISO 9001  
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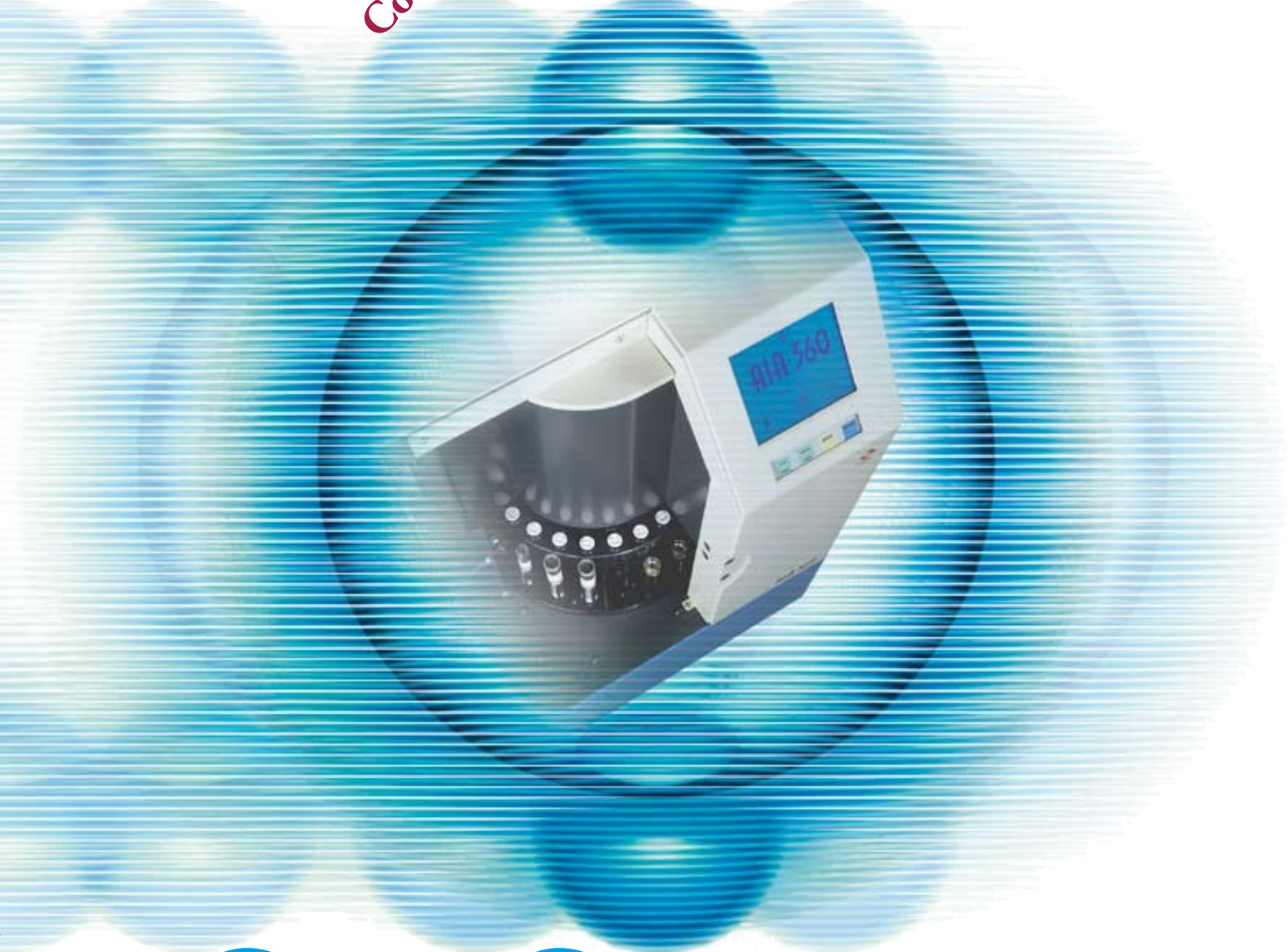


TOSOH

Automated Enzyme Immunoassay System

## AIA-360

Compact • Fast • Simple • Accurate  
Immunoassay near-at-hand



# AIA-360



Compact · Fast · Simple · Accurate

Immunoassay near-at-hand

Automated Enzyme Immunoassay System

# AIA-360

**Compact and Lightweight**

**Easy to Use, Easy to Load**

**Fast reporting**

**Continuous Random Access**

**Reliable Patient Results**

**Wide array of Parameters**



**Compact and Lightweight**

The AIA-360 requires little counter space. Its compact design is suitable for physician office laboratories, work stations for small hospitals, cardiac and specialty testing.



**Easy to Use, Easy to Load**

Once samples and test cups are loaded, the operator presses START and walks away.



The operator may load bar-coded primary tubes or sample cups directly on the system. Up to four assays per specimen can be loaded.

The touch screen user interface provides easy access to screens associated with daily operations.



**Fast reporting**

With a throughput of 36 tests per hour, the AIA-360 reports its first result in approximately 19 min.



Advanced Sample Carousel

On-Board Printer

Substrate

Touch Screen

Operation Keys



Bottle Tray

**Reliable Patient Results**

The AIA-360 uses a bar-coded system to identify patient samples as well as a positive test cup ID to reduce user errors. Sample level sensing notifies the operator of a short sample detection. The system is also equipped with clot-detection to maintain result integrity and a fixed probe to minimize expendables.

**Continuous Random Access**

The Sample carousel holds up to 25 patient samples and 25 test cups at once. The AIA-360 allows the user the option loading the entire carousel or adding the samples as needed. Additional samples and tests can be added at any time without interrupting sample processing.



**Wide array of Parameters**

With Tosoh's expanding test menu including cardiac markers, diabetes markers, tumor markers, thyroid and reproductive hormones and more, the AIA-360 can run many test menu for ST AIA-PACK.



Automated Enzyme Immunoassay System

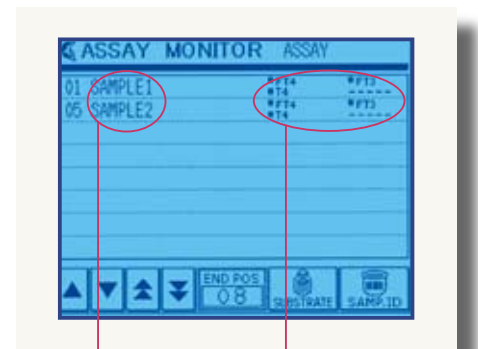
# AIA-360

**Simple Assay Operation**

**OPENING Screen**



**ASSAY MONITOR Screen**



**SAMPLE ID**  
Sample ID (up to 16 characters) can be displayed on the screen when the specimen is read.

**ANALYTE**  
Analytes in the reagent cups read from the camera are displayed for each sample.

**Sample Assay Result Printout**

Operator name	Assay Time/Date
Sample ID	OP: No. 025 03/11/21 14:04
Analyte name	Sample ID: SAMPLE1
Meas. value	Analyte: #FT3 Lot: 44 :21
Error flag	Result : 2.75 pg/ml
Rate value	Flag : 18.791511536
Reagent cup lot	Analyte: #T4 Lot: 18 :22
Position no.	Result : 1.7 ug/dl
	Flag : 56.727352142