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 ℃, 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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Certified Management System
· ISO 9001
· ISO 13485

* Specifications and design may be changed without prior notice.

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TOSOH

Automated Enzyme Immunoassay System

AIA-360

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

AIA-360

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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.

Depth 400 mm
Height 520 mm
Width 400 mm

Easy to Use, Easy to Load

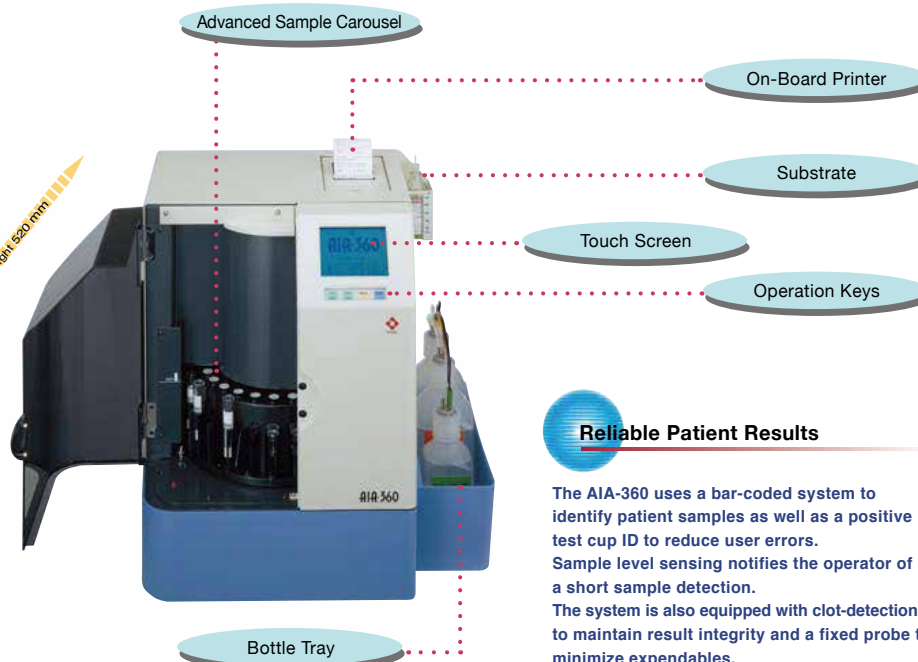Once samples and test cups are loaded, the operator presses START and walks away.

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

AIA 360

Bottle Tray

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.

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.

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.

Simple Assay Operation

◼ OPENING Screen

AIA-360
TOSOH CORPORATION
OPERATOR NO. 028
OPERATOR MENU INSTALLATION

◼ ASSAY MONITOR Screen

ASSAY MONITOR ASSAY
01 SAMPLE1
05 SAMPLE2
END POS
08 SUBSTRATE SAMP.ID
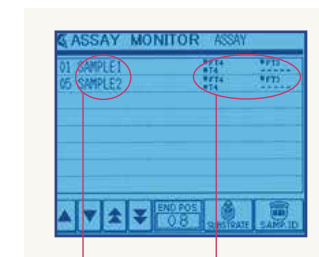
SAMPLE ID
Sample ID (up to 16 characters) can be displayed on the screen when the specimen is read.

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
Analyte name
Meas.value
Error flag
Rate value
Reagent cup lot
Position no.

OP:No.026 03/11/21 14:04
SampleID:SAMPLE1
Analyte :FT3   Lot:44 :21
Result :2.75 pg/ml
Flag :
Rate :18.791511530
Analyte :T4   Lot:16 :22
Result :1.7 ug/ml
Flag :
Rate :50.727352142

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- Easy to Use, Easy to Load
- Fast reporting
- Continuous Random Access
- Reliable Patient Results
- Wide array of Parameters

AIA-360

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.

#ABC 01

- **Aluminum Top-seal** Analyte, Lot No., Dot-Code
- **Plastic Cup**
- **Freeze-dried Pellet** Enzyme-Labeled Antibody (or Antigen)
- **Magnetic Beads** Immobilized Antibody (or Antigen)

■ One Step Sandwich Method

Antibody — Magnetic Beads → Immunoreaction between antibody and antigen → B/F (Bound/Free) Separation (Washing) → Detection of Fluorescence

E Enzyme Labeled Antibody   Antigen (Sample)   ○ Enzyme Substrate (4MUP)   Fluorescent Substance (4MU)

■ One Step Competitive Method

Antibody — Magnetic Beads → Immunoreaction between antibody and antigen → B/F(Bound/Free) Separation (Washing) → Detection of Fluorescence

E Enzyme Labeled Antigen   Antigen (Sample)   ○ Enzyme Substrate (4MUP)   Fluorescent Substance (4MU)