

# Automated Immunoassay Analyzer





IDS offers full automation to the clinical lab in a bench top analyzer that provides 2<sup>nd</sup> generation features allowing the laboratorian the ability to increase productivity and quickly deliver test results for state of the art assays.

The IDS-iSYS combines more than 50 years of instrumentation engineering experience with assay development by a world class test kit manufacturer that has provided manual assays offering superb sensitivity and specificity, enabling the laboratory to provide physicians with precise results that are critical for making accurate clinical diagnoses.



## Performance

### Maximum Throughput

- Carousel optimizes assay design
- 60 to 120 tests per hour throughput
- Load 960 prepackaged cuvettes reduces hands-on time
- Individual cuvette processing reduces jams
- Innovative wash head design ensures uptime
- Scheduled start-up and shut-down improves productivity



## Easy to Use

- Convenient onboard refrigerated reagent storage
- Up to 15 reagent modules at one time
- STAT function improves processing flexibility
- Multi-day calibration stability
- Efficient random and batch processing
- On-board dilution capability improves lab productivity



## Software

### Intuitive and secure

- User-friendly Windows-based software
- Barcode positive ID for samples and reagents provides confidence
- Remote Ethernet access expedites system diagnostics
- Automatic daily maintenance (15 minutes)
- Bidirectional Ethernet LIS capability



# Specifications

## System

*In vitro* diagnostic analyzer  
Continuous loading  
4 washers

## Maximum throughput

60 - 120 tests/hour depending upon assay

## Samples

Serum, urine, plasma  
Multiple sample tube types including pediatric  
Liquid level sensing  
Positive patient identification  
Flexible sample loading  
Volume dispense range from 4  $\mu$ L to 500  $\mu$ L  
Clot detection  
On-board dilution and pre-treatment  
90 position stainless steel carousel

## Barcode readers/types

Barcode reader for reagents and ancillaries  
Barcode reader for samples  
Barcode types: Codes: 2/5, EAN/UPC, Code 39, Code 128 and Codabar

## Reagent compartment

Holds up to 15 different immunoassays  
STAT function  
Storage at 12-15°C while operating  
Internal on-board storage at 8 - 10°C in standby mode

## Sample volume ( $\mu$ L)

5 to 150  $\mu$ L

## Sampling system

Single pipetting arm for sample/reagents  
Probe cleaning between samples/reagent pipetting

## Spectrophotometer

Spectrophotometer with interferential filters  
Halogen lamp. Transmission by optic fiber optics  
Linearity: Up to 3 OD  
Optic path of cuvettes: 0.7 cm

## Luminometer

Linearity: Up to 10 Million Rlu

## Carousel

Incubation at 37°C  
90 positions for disposable cuvettes  
Automatic cuvette loading

## Cuvette loader

37°C heated loader

## Waste collection

10 liter container  
Solid waste (cuvettes) disposable container

## Power supply

Voltage: 110 - 220 V  
Frequency: 50 - 60 Hertz  
Maximum power consumed: 1000 VA

## Dimensions

Analyzer: L 42" x H 28" x W 30"  
Weight: 165 lb  
Computer: L 24" x H 16" x W 20"



## Informatics

Bidirectional connection (ASTM protocol) to LIS

## Computer system

**Operating system:**  
WINDOWS XP Pro Service Pack 2  
**Microprocessor:**  
AMD™ Sempron 3100 or equivalent  
**Live memory:** 1Gb  
**Hard disk:** 80 Gb  
**Ethernet:** 2 independent Ethernet network adaptors  
**Ports:** 2 USB ports  
Serial port for connection to LIS  
**Keyboard:** QWERTY with mouse  
**Screen:** 17" monitor  
Screen resolution 1024 x 768 pixels  
**Peripherals Reader:** CD burner





# Service and support

Service and support are as important to a laboratory as the results delivered

## Technical Support

Experienced, factory-trained, regionally positioned Technical Support Specialists provide on-site assistance in your laboratory.

You can expect:

- Technical support available between 8:00 a.m. MST to 5:00 p.m. MST
- Training available at IDS facility
- Remote access for Technical Support via on-board analyzer modem facilitates efficient response

## Field Service

Experienced, factory-trained, regionally positioned Field Engineers provide on-site assistance in your laboratory.

You can expect:

- Next day, on-site assistance
- Support and on-site advice for optimal use of the system
- Preventative maintenance to ensure the on-going reporting of results





[www.idsplc.com](http://www.idsplc.com)