

# IDS *isys* Immunoassay Analyzer



## OVERVIEW

The IDS-iSYS combines 50 years of instrumentation engineering experience with world-respected assay development skills into a compact, benchtop system that fully automates the most challenging bone and growth markers.

## FEATURES

- Full, walk-away automation
- Compact, benchtop design
- Continuous loading with Batch, Random, and STAT flexibility
- Easy operation with Auto start-up and shut-down
- On-board refrigeration of ready-to-use reagent cartridges
- Excellent correlation with gold-standard assays
- Independent test cuvette processing
- Traceability of samples, reagents, and consumables
- Liquid level sensing
- Reduction of carryover by cleaning inside/outside probe
- Precise and accurate pipetting
- On-board sample pre-treatment
- Ready-to-use barcoded reagent cartridges
- Holds up to 15 different immunoassay cartridges
- On-board refrigeration
- Continuous random access
- Up to 120 samples (6 racks of 20 samples each)
- Supports multiple tube sizes, including pediatric micro-tubes
- Continuous loading and unloading
- Chemiluminescence detection
- Enzyme activity measurement capability
- Individual cuvette for each test
- Two point calibrators of stored master curve
- Increased reliability with 4 independent washers

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## Contact Us for More Information:

- [info@techneal.com](mailto:info@techneal.com)
- 909-465-6325
- [www.techneal.com](http://www.techneal.com)



# IDS *isys* Specifications

## System

- Multi-discipline Immunoassay System.

## Dimensions

- System: L 105 x H 70 x W 75 cm.
- Weight: 103 kg.
- PC: L 60 x H 40 x W 50 cm\*.

## Throughput

- Up to 120 tests/hour (assay dependent).

## Luminometer

- Wavelengths: from 300 to 500 nm.
- Linearity: Up to 10 million RLU.

## Spectrophotometer

- Spectrophotometer with interferential filters.
- 6 wavelengths available: 340, 405, 500, 540, 580 and 620 nm.
- Halogen lamp: transmission by fibre optic.
- Linearity: Up to 0 to 3 OD.
- Optic path of cuvettes: 0.8 cm.

## Samples

- Serum, plasma or urine.
- Primary Tubes: 4.5 mL, 6 mL, 8.5 mL, 10 mL.
- Secondary Tube: 5 mL.
- Micro cups: 500 µL, 2 mL.
- Further sample tubes can be easily configured.
- 120 positions for samples, calibrators and controls (6 racks with 20 positions).
- On-board dilution and automatic pre-treatment.

## Reagent Module

- Up to 15 different immunoassay cartridges.
- Storage at 12 - 15°C while operating.
- On-board storage between 8 - 10°C in standby mode.

## Barcode readers

- Reader on front face of system for barcode identification of cuvettes and ancillary reagents.

- Integrated reader for automatic reading of reagent cartridge barcodes.
- Integrated reader in sample compartment for automatic reading of barcoded sample tubes (positive identification)
- Barcode types: Codes: 2/5, EAN/UPC, Code 39, Code 128 and Codabar.

## Sample Handling

- Single pipetting arm for samples and reagents.
- Liquid level detection by capacitance.
- Internal and external rinsing between each pipetting of sample.

## Carousel

- Temperature regulated at 37°C ± 0.5°C
- 90 positions for disposable cuvettes.
- Automatic cuvette supply by cuvette loader.
- 4 Independent washers

## Cuvette Loader

- Loader for 1 x cube of cuvettes.
- 1 x cube contains 960 disposable cuvettes.
- Thermostatically controlled

## Waste collection

- 10 litre container for liquid waste.
- Solid waste (cuvettes) disposed of in solid waste drawer.

## Power supply

- Voltage: 100 – 240 V.
- Frequency: 50 – 60 Hertz.
- Maximum power consumed: 750 VA.

## Operating System

- Windows XP Pro Service Pack 2
- Windows Vista Service Pack 1
- Windows 7
- Connection to LIS: bidirectional communication (ASTM protocol).

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