

# ADVIA Centaur XPT Immunoassay System\*

## Technical Specifications

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### Product Specifications

<b>System Description</b>	Random-access immunoassay system
<b>Test Throughput</b>	Up to 240 tests per hour
<b>Time to First Result</b>	18 minutes; results every 15 seconds thereafter, assay-dependent
<b>Assays Onboard</b>	30 assays
<b>Disease-State Assay Groups*</b>	Allergy, Anemia/Iron Metabolism, Bone Metabolism, Cardiac, Diabetes, Hepatitis, HIV, Immunosuppressant Drugs, Liver Fibrosis <sup>†</sup> , Metabolic, Oncology, Reproductive Endocrinology, Sepsis <sup>†</sup> , Special ID, Therapeutic Drug Monitoring (TDM), Thyroid, ToRCH
<b>Continuous Operation</b>	Loading/unloading of samples and consumables at any time without interrupting system operation. Includes sample racks, STATs, reagent packs, ancillary reagent packs, reaction cuvettes, sample pipette tips, calibrators, controls, wash fluids, water, and waste.

### Sample Handling

<b>Sample Tubes</b>	3 mL, 5 mL, 7 mL, and 10 mL tubes; 1 mL and 2 mL sample cups; microcontainer tubes
<b>Sample Input</b>	Universal 5-position rack holds multiple tube types; 180 samples fully loaded; no-pause loading and unloading
<b>Validated Sample Types</b>	Serum, plasma, urine (assay-dependent)
<b>Sample Volume per Test</b>	10–200 µL, assay-dependent
<b>Sample Integrity Control</b>	Pressure transducer technology with clot detection, flagging, and management; short-sample detection, flagging, and management
<b>STAT Handling</b>	Dedicated STAT port accepts samples any time; STAT samples are processed with priority
<b>Auto-repeat</b>	User-definable
<b>Sample Dilution</b>	Automatic dilution varies by assay, up to 1:2500
<b>Auto-reflex Testing</b>	Automatic ability to perform additional tests based on results of first test
<b>Sample Pipette Tips</b>	840 disposable sample tip capacity
<b>Sample Carryover Prevention</b>	Disposable pipette tips ensure zero sample carryover

### Bar Codes

<b>Sample Bar Codes</b>	Up to 20 digits; Interleaved 2 of 5; Code 39, Code 128, Codabar; A, B, and special characters (.-+!*\$%)
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### Reaction Area

<b>Reaction Cuvettes</b>	Capacity of 1000 optical-grade plastic cuvettes
<b>Reaction Bath</b>	Air bath, 37°C
<b>Assay Result Calculations</b>	SMART algorithm software repeats and confirms reactive testing; results available as completed
<b>Assay Technology</b>	Chemiluminescence using Advanced Acridinium Ester

### Reagent Handling

<b>Reagent Tray</b>	30-position reagent tray refrigerated between 4 and 10°C (39–50°F)
<b>Reagent Capacity Onboard</b>	30 assays
<b>Reagent Containers</b>	ADVIA Centaur® ReadyPack® (various pack sizes available)
<b>Reagent Integrity Control</b>	Bar-code reagent identification, automatic inventory tracking and flagging, calibration valid tracking and flagging, reagent onboard stability tracking and flagging, reagent expired/reagent low flagging
<b>Onboard Stability</b>	28 days (average)
<b>Reagent Mixing</b>	ADVIA Centaur ReadyPacks automatically rocked onboard
<b>Ancillary Reagents</b>	25-position ancillary reagent tray cooled 4–8°C (39–46°F)

\*Due to local regulations, not all products are available in all countries. Assay availability varies by country.

<sup>†</sup>Not available for sale in the U.S.

# ADVIA Centaur XPT Immunoassay System

## Calibration/QC

Auto-calibration/Auto-QC	Available automatic QC ordering by test, control, date, and time
QC Data	Advanced QC package includes Levey-Jennings plots and Westgard rules

## User Interface/Data Management

Monitor	22-inch diagonal high-resolution LCD touchscreen with adjustable height
Operating System	Microsoft Windows® 7
System Documentation	Operator manual, quickstart guide, and context-sensitive online help
Data Storage	1,000,000 test/QC results; 500,000 can be historical; can archive to removable media
Onboard Maintenance Logs	Yes
Host Interface	RS232C bidirectional and host query; Ethernet connection available
Host Query	Yes
Remote Access & Service	1000BASE-T Ethernet port for remote access and modem for Smart Remote Services

## Removable Media

Removable Media	CD, DVD, or USB
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## General Specifications

Power Requirements	200–240V at 50/60 Hz; 1.2 kW maximum
Maximum Water Consumption	2.5 liters (0.6 gallons) per hour
Drain Requirements	Minimum of 2.5 liters (0.6 gallons) per hour
Dimensions	With monitor: 167 (h) x 196 (w) x 104 (d) cm; 66 (h) x 77 (w) x 41 (d) in. Without monitor: 133 (h) x 196 (w) x 104 (d) cm; 52 (h) x 77 (w) x 41 (d) in.
Weight	585 kg (1289 lb)
Compliance	Complies with international environmental, health, and safety standards
Noise Emission	65 dB maximum
Processing Heat Output	5100 BTU/hour
Ambient Temperature	18–30°C (64–86°F)
Ambient Humidity	20–80% noncondensing
Floor Load-Bearing Requirement	412 kg/m <sup>2</sup> (84 lb/ft <sup>2</sup> )

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