



## Technical Specifications

# ADVIA Centaur XPT Immunoassay System



Engineered for continuous operation and timely, accurate results, the high-performance ADVIA Centaur® XPT Immunoassay System is always ready to stay ahead of increasing workflow demands. Its extensive onboard reagent capacity and dedicated STAT capabilities increase productivity, regardless of volume or types of tests.

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## Technical Specifications

Product specifications	
System description	Random-access immunoassay system with direct chemiluminescence testing methodology using advanced acridinium ester technology
Test throughput	Up to 240 tests per hour in batch or random-access mode
Walkaway time	2 hours (at maximum throughput)
Sample handling	
Validated sample types	Serum, plasma, urine (varies by assay)
Sample integrity control	Pressure-based level sensing, short-sample detection and flagging, clot detection and flagging, foamy sample detection, ambient temperature detection and flagging
Auto-repeat	User-defined automatic repeat testing from original sample
Sample dilution	Can be auto-diluted, up to 1:2500 (varies by assay)
Auto-reflex testing	User-defined automatic reflex testing
Sample carryover prevention	Disposable pipette tips eliminate sample carryover
Sample volume per test	10–200 µL of sample (varies by assay)
Sample bar code	Code 39; Codabar; Code 128; Interleaved 2 of 5 (any of the symbologies may be active at one time)
Sample tubes	1 mL, 2 mL sample cups; 3 mL, 5 mL, 7 mL, 10 mL tubes; microtainer tubes
Sample capacity	180 samples, continuous loading, in universal 5-position sample racks
Pipette tips	ADVIA Centaur type; 840 onboard, automatic tracking and notification
STAT handling	Dedicated STAT position accepts samples at any time
Reaction area	
Reaction cuvettes	Onboard capacity of 1000 ADVIA Centaur cuvettes
Reaction bath	Air bath, 37°C (98.6°F)
Assay times	18 minutes; results every 15 seconds thereafter, assay-dependent
Assay technology	Direct chemiluminescence testing methodology using advanced acridinium ester technology
Reagent handling	
Assays onboard	30
Primary ancillaries	30-position cooled storage with refrigeration at 4–10°C (39.2–50°F)
Reagent ancillaries	25-position cooled storage with refrigeration at 4–8°C (39.2–46.4°F)
Reagent packs	ReadyPack® cartridge
Reagent integrity control	Reagent pack bar-code identification; automatic tracking and notification of inventory, calibration validity, reagent onboard residency, reagent expired/low flags
Onboard stability	Up to 28 days, assay-dependent
Reagent inventory management	Automatic tracking and notification of remaining tests, onboard residency, calibration, and reagent expired/low flags
Reagent preparation	None required
Bar code-labeled packs	Yes
Calibration/QC	
Auto-calibration/QC	Available automatic QC ordering by test, control, date, and time
Calibration identification	Bar-coded labels containing lot-specific data; human- and system-readable through handheld bar-code scanner
Calibration status	Tracking and notification of calibration status, including advance notice of pending expiration; user-defined processes for response of calibration expiration
QC package	Advanced QC package for long-term monitoring, including L-J plots and Westgard rules
QC levels	0–9 control levels per assay
QC definitions	User-defined
QC result storage	1,000,000 control, patient, and event results can be stored in the database



Maintenance	
Daily	Automated: 65 minutes; hands-on: 0 minutes
Weekly	Hands-on: 30 minutes
Maintenance logs	Automated onboard scheduling, notification, and reporting
User interface/data management	
Monitor	22-inch diagonal LCD touchscreen
Operating system	MICROSOFT WINDOWS 10
Remote access and service	Smart Remote Services
General specifications	
Power requirements	200–240 V, 50/60 Hz; 1.2 kW maximum
Water input requirements	Type 1 reagent water guidelines as specified by the Clinical Laboratory and Standards Institute (CLSI); at minimum, water quality should meet CLSI Type II guidelines
Water quality requirements	Bacterial content: >50 ppb total organic compounds Maximum resistivity: 1 megohm/cm
Maximum water consumption	2.5 liters (0.6 gallons) per hour
Drain requirements	Minimum of 2.5 liters (0.6 gallons) per hour
Dimensions	133 (h) x 196 (w) x 104 (d) cm 52 (h) x 77 (w) x 41 (d) inches (excluding monitor and accessories)
Weight	585 kg (1289 lb) (including monitor and accessories)
Compliance	Complies with international environmental, health, and safety standards, including CE and RoHS
Floor load-bearing requirement	412 kg/m <sup>2</sup> (84 lb/ft <sup>2</sup> )
Noise emission	Up to 65 dB (with normal use)
Processing heat output	5100 BTU/hour
Ambient temperature	18–30°C (64–86°F)
Ambient humidity	20–80% noncondensing
Overvoltage classification	Main supply voltage fluctuations must be within ±10% of the nominal voltage
Pollution classification	IEC 1010-1 Pollution Degree 2

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Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

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