



SIEMENS

ADVIA Centaur® XPT
Immunoassay System

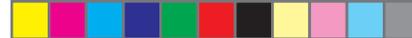


ADVIA Centaur® XPT Immunoassay System

Quick Reference Guide

REF 10816028 Rev. 03, 2019-03

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The information in this manual was correct at the time of printing. However, Siemens Healthcare Diagnostics continues to improve products and reserves the right to change specifications, equipment, and maintenance procedures at any time without notice.

If the system is used in a manner differently than specified by Siemens, the protection provided by the equipment may be impaired. Observe all warning and hazard statements in the *ADVIA Centaur XPT System Operator's Guide*.





System Serial Number

Customer Account Number

Customer Support Phone Number





Getting Started



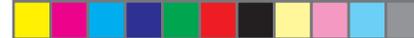
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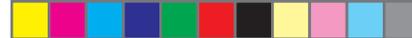
Getting Started



Getting Started

- Intended Use 1**
- Using this Guide 1**
- Hardware Overview 2**
 - System Views.....2
 - Self-Latching Top Cover.....4
- Software Overview..... 4**
- Signing Into the Workstation 4**
- Signing Out of the Workstation..... 5**
- Starting the System..... 5**
- Shutting Down the System..... 5**
- Accessing Online Help..... 5**
- Printing Online Help 5**
- Accessing the Operator’s Guide 5**
- Safety Symbols 6**





Getting Started

Intended Use

ADVIA Centaur® XPT System is an automated immunoassay analyzer designed to perform *in vitro* diagnostic immunochemical assay analysis on clinical specimens. The system menu includes endocrine, anemia, allergy, reproductive, cardiovascular, oncology, adrenal, bone metabolism, therapeutic drug, and infectious disease assays. All assays are based on chemiluminescent technology. This system is intended for professional use in a laboratory environment only. Tests performed using this system are intended for *in vitro* diagnostic use.

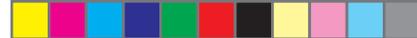
All the assays use direct chemiluminescent technology. As with all diagnostic tests, a definitive clinical diagnosis is not based on the results of a single test. Only a physician can make a diagnosis after evaluating all clinical and laboratory findings.

Comprehensive assay groups provide for cost-effective workstation consolidation. The assay groups include fertility, thyroid function, oncology, cardiovascular, anemia, therapeutic drug monitoring, infectious disease, adrenal function, and metabolic.

Using this Guide

This guide is not intended to replace the *ADVIA Centaur XPT System Operator's Guide* or online help. For additional information about terms, screen elements, and system operation, see the *ADVIA Centaur XPT System Operator's Guide*.

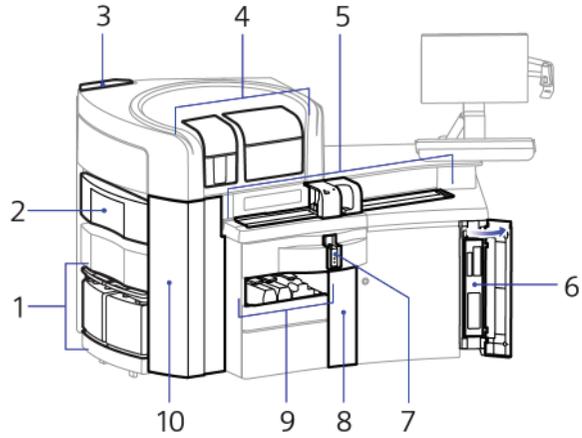




Hardware Overview

System Views

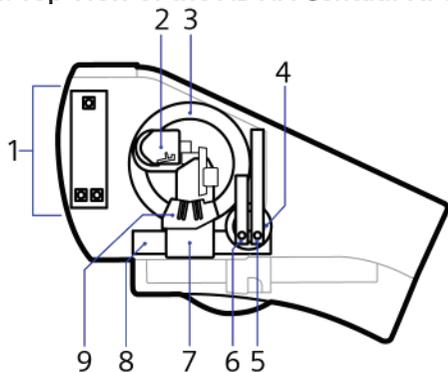
Figure 1: Front View of the ADVIA Centaur XPT System



-
- 1 Water and waste containers
 - 2 Primary reagent compartment
 - 3 Visible status light
 - 4 Sample tip and cuvette loaders
 - 5 Sample queue
 - 6 Computer
 - 7 Ancillary reagents and diluents compartment
 - 8 Cleaning solution and sample tip waste
 - 9 System fluids area
 - 10 Cuvette waste and sample tip tray waste
-

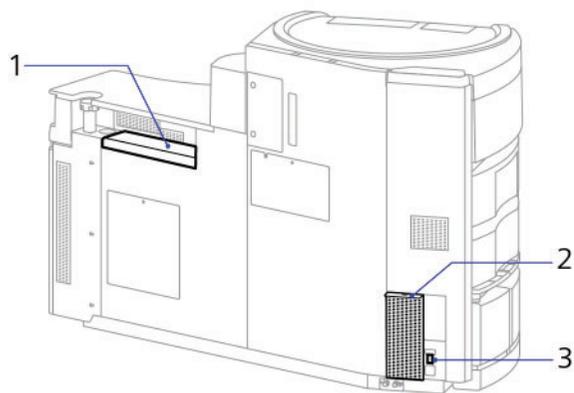


Figure 2: Top View of the ADVIA Centaur XPT System



-
- 1 Primary reagent compartment and probes
 - 2 Luminometer
 - 3 Incubation ring
 - 4 Ancillary reagent queue
 - 5 Sample probe
 - 6 Ancillary reagent probe
 - 7 Cuvette loader
 - 8 Inprocess queue
 - 9 Wash block
-

Figure 3: Rear View of the ADVIA Centaur XPT System

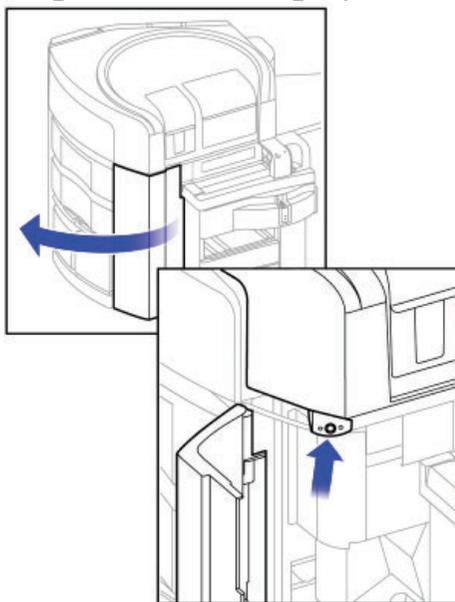


-
- 1 I/O Panel at the back of the system
 - 2 System air vent
 - 3 Main power switch
-

Self-Latching Top Cover

The system's top cover includes a self-latching lock for safety during normal operation. If the top cover is open when the system is processing samples, a system alert prompts you to close the top cover. Open the lock using the key provided during system installation.

Figure 4: Self-Latching Top Cover



Software Overview

The user interface includes the workspace, command bar, and status bar.

- **The command bar** — The row of icons on top of the screen.
- **The workspace** — The part between the command bar and status bar.
- **The status bar** — The row of icons at the bottom of the screen.

Use the icons on the command and status bars to perform and manage laboratory activities.



Signing Into the Workstation

1. On the Status Bar, select the **Sign-In** icon.
2. Enter operator ID and password.
3. Select **Sign In**.



Signing Out of the Workstation

1. On the Status Bar, select the **Sign-In** icon.
2. Select **Yes** to confirm that you want to sign out.

Starting the System

1. Ensure the main power switch is on.
2. Sign in with your operator ID and password.
3. On the Status Bar, select **System State**.
4. Select **Turn Mechanics On**.

Shutting Down the System

1. On the Status bar, select **System State**.
2. Select **Turn System Off** and **OK**.
3. At the prompt, select **Yes**.
4. When the monitor becomes blank, turn off the main power switch.



Accessing Online Help

The system provides online help and procedures on:

- Operating the system
- Maintaining the system
- Correcting system problems

Select the **Help** icon on the Status Bar, or select the question mark (?) in the lower left hand corner of individual pages.



Printing Online Help

1. Select the desired topic from the table of contents.
2. Select **Print**.



Accessing the Operator's Guide

1. On the Status Bar, select the Help icon.
2. From the table of contents, select operator's guide.
3. View the guide online, or print as needed.



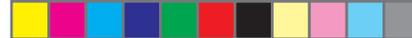
Safety Symbols

The following symbols can appear on the interior or exterior of the system or on the system packaging.

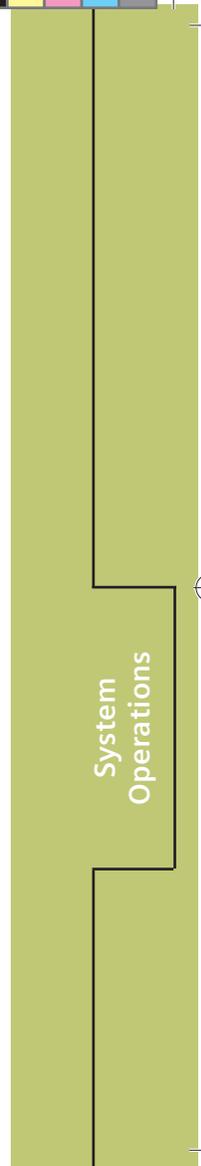
Table 1: Safety Symbols

Symbol	Description
	<p>This symbol is used for both Warnings and Cautions.</p> <ul style="list-style-type: none"> A warning indicates the risk of personal injury or loss of life if operating procedures and practices are not correctly followed. A caution indicates the possibility of loss of data or damage to or destruction of equipment if operating procedures and practices are not strictly observed.
	This symbol alerts you to a biohazard.
	This symbol alerts you to a biological risk.

Symbol	Description
	This symbol alerts you to the risk of exposure to lasers.
	This symbol alerts you to a potential electrical hazard.
	This symbol indicates potential ultra violet lamp exposure.
	This symbol indicates a moving component that can cause injury.
	This symbol indicates the presence of a part emitting high temperature.
	This symbol indicates that the product is a Class 1 laser product, with no laser exposure during normal operation.
	This symbol indicates that a sample rack should not be pushed in the sample entry queue.



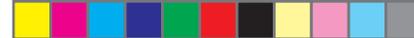
System Operations



10816028 Rev. 03

10816028VFT000-03.indb 7

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System Operations

- Daily System Operation..... 7
- Checking Waste and Supplies Status 7
- Checking Reagent and Calibration Status..... 8
- Scheduling Quality Control (QC) 8
- Creating a Patient Order Manually..... 9
- Processing Samples Using an LIS 9
- Loading Racks in the STAT Entry 10
- Accepting a Result..... 12
- Releasing Results to LIS..... 12



System Operations

This chapter provides a routine workflow.

The following tasks are performed when the system is not connected to a laboratory automation system (LAS). For information about system operations with an LAS, refer to the online help.

Daily System Operation

The following list shows typical daily operations:

- Sign into the workstation. See the **Getting Started** tab in this guide.
- Review alerts in the Event Log.
- Perform the required maintenance.
- Check the status of system waste and supplies.
- Check the status of primary and ancillary reagents.
- Process routine and STAT samples.
- Accept results.
- Release results to the LIS.
- Remove samples.



Checking Waste and Supplies Status

1. At the command bar, select **Supplies**.
2. At the **Status - Waste and Supplies** window, check the status of the following supplies:
 - Liquid and solid waste
 - System fluids
 - Cuvettes and sample tips
3. Empty waste and replenish supplies as needed.

Note: If you replenish cuvettes, select the Prime button.



Checking Reagent and Calibration Status

1. Select **Reagents > Status**.
2. Check each assay for the following information:
 - Pack status
 - Test status
 - Remaining inventory
 - Reagent lot expiration date
 - Remaining onboard stability
 - Calibration status
 - Calibration expiration date
3. Calibrate assays as needed.



Scheduling Quality Control (QC)

There are 3 ways to schedule control samples using the QC Scheduler tab:

- Day and time
- Test count
- Control

Select **QC > QC Scheduler** to access the scheduling pages.

For additional information about scheduling QC, see online help.



Creating a Patient Order Manually

1. On the command bar, select **Orders > Create Patient Orders**.
2. To initialize the order, enter a Sample ID and then select **Enter**.
3. Select a test.
4. Continuing in the Sample Information area, select a **Specimen Type**.
5. Input other sample and patient information, as needed.
6. For the Patient ID, enter up to 20 alphanumeric characters.
7. In the **Priority** area, select **Routine** or **STAT**.
8. Optionally, in the Patient Name area, select **Additional Information** to add more patient information.
9. Select **Save**.



Processing Samples Using an LIS



CAUTION

Do not leave the top cover open when the system is processing samples. Doing so can cause erroneous test results.



BIOHAZARD

Wear personal protective equipment. Use universal precautions. See the operator's guide for your system for recommended precautions when working with biohazardous materials.

1. Ensure **Automatically Query Host** is selected at **Setup > LIS Configuration**.
2. Load the samples in a rack.
3. Load the sample rack in the sample entry queue.

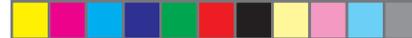
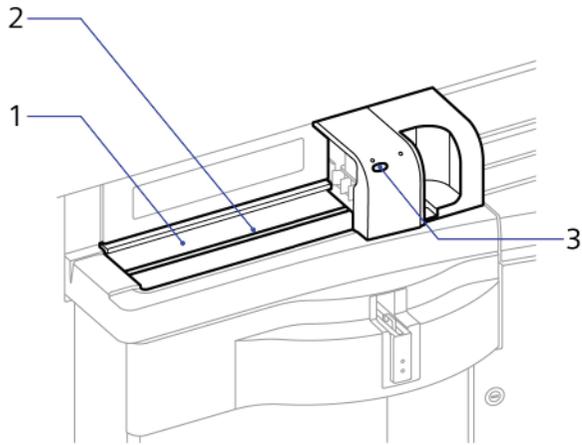


Figure 1: Loading the sample rack in the sample entry queue



- 1 Sample entry queue
- 2 Raised area of the sample entry queue
- 3 Sample start button



CAUTION

Do not push the sample racks into the entry queue. Doing so will cause a barcode reader error.



CAUTION

Do not press the sample start button until you close the primary reagent door and ensure that all reagent barcodes were read correctly.

- 4. If the LED light above the sample start button is not lit, press the sample start button.

Loading Racks in the STAT Entry



BIOHAZARD

Wear personal protective equipment. Use universal precautions. See the operator's guide for your system for recommended precautions when working with biohazardous materials.

- 1. Place the sample tube in a rack.
- 2. Load the rack into the STAT entry.
- 3. Gently push the rack forward until it stops.

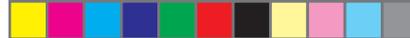
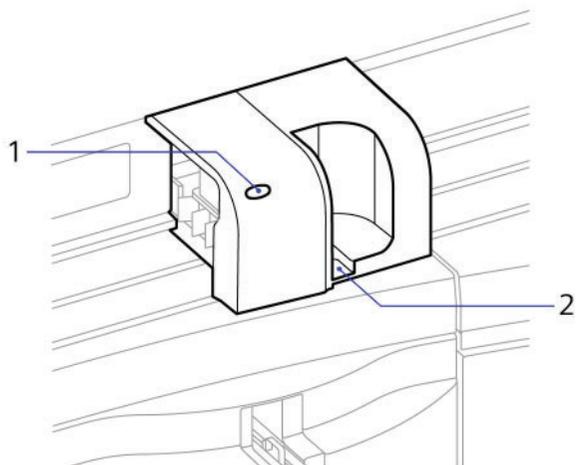


Figure 2: Loading racks in the STAT entry



- 1 Sample start button
- 2 STAT entry



CAUTION

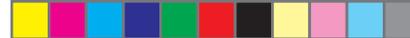
Do not press the sample start button until you have closed the primary reagent door and ensured that all reagent barcodes have been read correctly.

4. If the LED light above the sample start button is not lit, press the sample start button.



CAUTION

Do not leave the top cover open when the system is processing samples. Doing so can cause erroneous test results.



Accepting a Result

1. Select **Test Results > Overview**.
2. Locate the result or group of results to accept.
3. To find one test, use **Search**.
4. To find all tests in a selected test state or sample state, select a **Predefined Filter**.
5. To find a group of tests, use the **Filter** button to create a custom filter.
6. Select a test or set of tests to accept by selecting the checkbox next to the test name.
7. Select **Accept**.

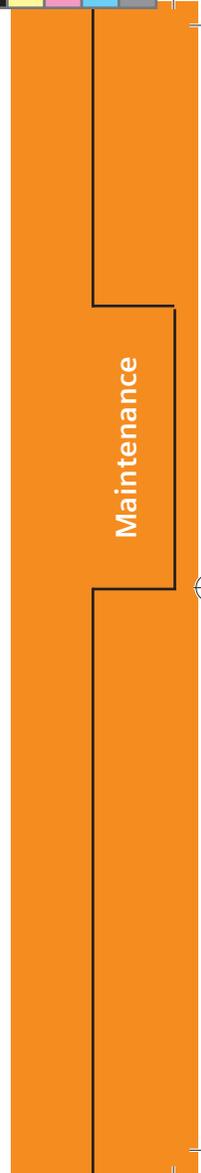


Releasing Results to LIS

1. Select **Test Results > Overview**.
2. Select a result or group of results.
3. Review the result replicates and flags.
4. Select **Transmit**.

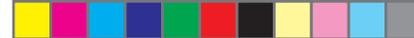


Maintenance



Maintenance





Maintenance

Responding to a Maintenance Alert.....	13
About Maintenance Activities.....	13
Adding Comments to the Maintenance Log	13





Maintenance

All maintenance procedures are located in online help.



Responding to a Maintenance Alert

1. Select **Maintenance > Schedule**.
2. Review all maintenance activities displaying color:

Status	Color	Description
Yellow		Overdue maintenance activity
Red		Failed maintenance activity

3. Perform the necessary maintenance.



About Maintenance Activities

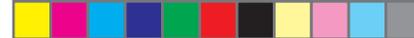
Maintenance activities can be performed by:

- An operator
- The system (automated)
- A combination of operator and system (semi-automatic)



Adding Comments to the Maintenance Log

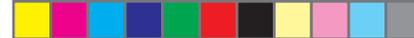
1. Select **Maintenance > Log**.
2. Select an activity on the **Log** tab and select **Comment** to add information about that activity.



Troubleshooting

Troubleshooting

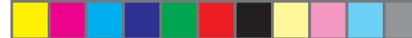




Troubleshooting

Accessing Troubleshooting Help.....	14
Preparing the System for a Planned Power Outage	14
Using the Fast Stop Buttons	14
Recovering from a Fast Stop	15
Recovering from a Power Disruption	16





Troubleshooting

Most events fall outside the scope of this Quick Reference Guide. For issues not listed in this guide, refer to system online help.



Accessing Troubleshooting Help

1. Select **Events > Operator Event Log**.
2. Select the event to troubleshoot.
3. Select **Troubleshooting Help**.

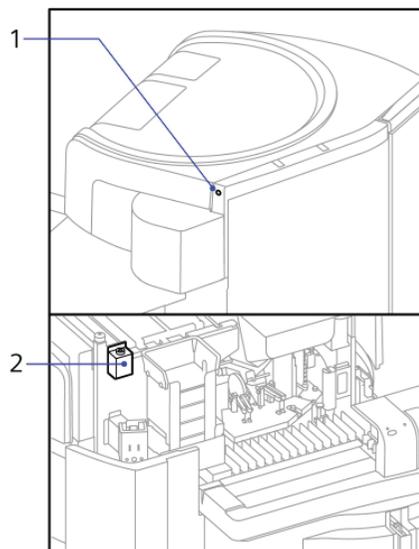
Preparing the System for a Planned Power Outage

1. Select **System State**.
2. Select **Turn System Off** and **OK**.
3. Select **Yes** to continue.
4. When monitor becomes blank, turn off the main power switch.

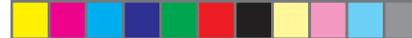
Using the Fast Stop Buttons

Use one of the two fast stop buttons if there is an obstruction that could cause serious system damage or personal physical harm. The following figure displays the location of the fast stop buttons.

Figure 1: External and Internal Fast Stop Buttons



-
- 1 External fast stop button
 - 2 Internal fast stop button
-



Recovering from a Fast Stop



BIOHAZARD

Wear personal protective equipment. Use universal precautions. See the operator's guide for recommended precautions when working with biohazardous materials.

1. At the prompt, select **OK**.



CAUTION

Do not disconnect the system or turn the main power switch off. Disconnecting the system or turning off the main power switch, turns off the thermal components of the primary reagent compartment and ancillary queue.

2. Check for obstructions in the following areas before restarting the system:
 - Sample entry queue
 - Sample exit queue
 - Sample tip loader
 - Ancillary entry
 - Stat entry
3. Remove any obstructions.
4. On the status bar, select **System State**.
5. Select **Turn Mechanics On**.
6. Select **OK**.
7. Wait until the system state is Ready, and then return to normal operation.
8. If an error occurs during homing, correct the error and retry.
9. If the error persists, call for technical assistance.



Recovering from a Power Disruption



BIOHAZARD

Wear personal protective equipment. Use universal precautions. See the operator's guide for recommended precautions when working with biohazardous materials.

Use this procedure to recover from a power outage or power surge.



CAUTION

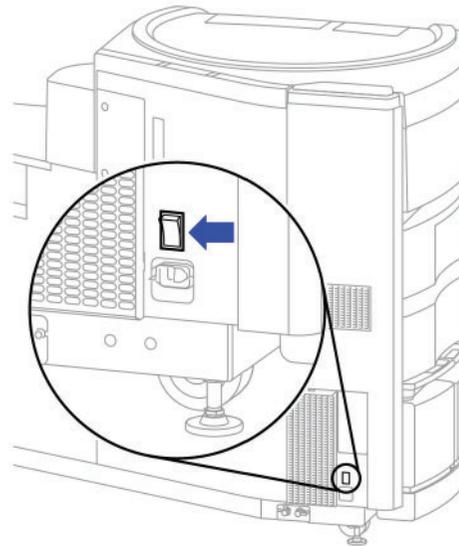
If the power is disrupted for an extended period of time, turn the system off to prevent serious damage to the system when the power is restored.

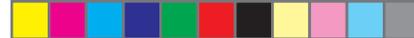
If the power disruption is so brief that you do not have the opportunity to turn off the main power switch:

1. Select **System State**.
2. Select **Turn System Off** and **OK**.
3. Select **Yes** to continue.

4. When monitor display is blank, turn off the main power switch.

Figure 2: Main power switch location





5. Check for obstructions in the following areas before restarting the system:
 - Sample entry queue
 - Sample exit queue
 - Sample tip loader
 - Ancillary entry
 - Stat entry
6. Remove any obstructions.
7. Wait 30 seconds and then turn on the main power switch.
8. On the status bar, select **System State**.

9. Select **Turn Mechanics On**.
10. Wait while the system equilibrates the temperature and Warming Up appears in the status area.
11. Wait until the system state is Ready, and then return to normal operation.
12. If an error occurs during homing, correct the error and retry.

Note: If the system does not start up or you see problems, call for technical assistance.



Notes



10816028 Rev. 03



Notes



10816028 Rev. 03