



Operator's Manual







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Operator's Manual

SIEMENS

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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 this instrument is used in a manner differently than specified in this manual, the protection provided by the equipment may be impaired.

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A Brief Description

NOTE: Feature availability may vary by geography due to regulatory registration.

NOTE: Due to software changes, some screens on the instrument may appear slightly different from those in this manual.

What does the analyzer do?

Your Clinitek Status[®]+ analyzer is a portable instrument for reading Siemens Healthcare Diagnostics urinalysis strips and Clinitest[®] immunoassay cassettes. No special training is needed to use this instrument. Several different Siemens urinalysis strips (e.g., Multistix[®] 10 SG) can be used with the analyzer as well as the Clinitest hCG Pregnancy Test.

The analyzer can be set up to be as simple or sophisticated as you prefer. You may simply insert a dipped urinalysis strip or a Clinitest cassette into the analyzer and the result will be reported (this is called a *Quick Test*).

Or, you have the option to enter an Operator Name, Patient Name and Patient ID. This added information will be reported along with the test results (this is called a *Full Test*).

The touch screen displays instructions and prompts you through operation of the analyzer. In addition, you enter information through the touch screen.

Do I have to calibrate?

You do not have to do anything to calibrate. The instrument performs a system test each time it is turned on. Then, each time a test is run, the instrument automatically calibrates. The white calibration bar (on the test table) provides NIST traceable calibration.

How does it work?

Testing starts (in the *Quick Test* mode) when either the *Strip Test* or *Cassette Test* is selected on the main menu screen.

Touching the *Strip Test* key prompts you to adjust the test table to accept a urinalysis strip. Then you touch the **START** key. You have 8 seconds to dip the test strip, blot the edge of the strip and place it on the test strip table. The table is partially pulled into the instrument for calibration and then pulled completely into the instrument to read the test strip.

Touching the **Cassette Test** key prompts you to adjust the test table to accept a cassette. Then you touch the **START** key. You have 8 seconds to draw the sample into a pipette and dispense it into the sample well of the cassette. The analyzer automatically calibrates and then pulls the table completely into the instrument where the cassette is read.

In the *Full Test* mode for either a *Strip Test* or *Cassette Test*, you are prompted to enter an Operator Name, Patient Name and/or Patient ID prior to running a test.

A Brief Description

How do I get results?

Results will be displayed on the touch screen and printed (if desired). The results can also be transferred to a computer using a 9-pin null modem serial cable and the RS-232 serial port on the back of the instrument.

The analyzer stores results from 950 patient tests. You are able to recall past patient test results on the analyzer using the *Recall Results* function.

How is the analyzer powered?

The analyzer can be plugged into an electrical outlet for use on the bench top, or it can be powered by batteries and freely moved from one testing site to another. The batteries fit into an opening on the bottom of the instrument.

What about this Operator's Manual?

The Operator's Manual contains the directions you need to unpack

Bold text identifies a button (touch sensitive area) on the screen.

the analyzer, use it for your daily Siemens urinalysis and Clinitest immunoassay testing and keep it in good working condition.

As you read through the Operator's Manual, you will find these symbols:

> NOTES: contain useful tips on using the analyzer. *Notes* appear in italicized type.

CAUTION: should be followed carefully to ensure your analyzer operates correctly and is not damaged. **Cautions appear in bold type**.

In the Operator's Manual, you will notice some text is in *bold/italic* or **bold**.





Instrument and Labeling Symbols

This section describes the symbols that appear on the exterior of the Clinitek Status+ analyzer, the power supply provided with the instrument, the carton in which the instrument was delivered and the supplies of reagent strips and cassettes which you will use with the instrument.



10101	Indicates a serial port
50	This system contains certain toxic or hazardous substances or elements. The environmental protection use period for this system is 50 years. The system can be used safely during its environmental protection use period. The system should be recycled immediately after its environmental protection use period has expired.
18°C	Temperature limitation (18° 30° C)
¥100	Contents sufficient for (n) tests (100)
2	Use by YYYY MM
REF	Catalog number
SN	Serial number
LOT	Batch code
	Biohazard
	Indicates that this equipment is classified as Waste Electrical and Electronic Equipment under the European WEEE Directive. It must be recycled or disposed of in accordance with applicable local requirements.
	Printed on recycled materials
UK 4806	Indicates compliance with RESY packaging standards



Display Icons

There are seven icons which display in the top left of the display to show the mode of the instrument. They also appear on the selection area for each function. The icons are:

	Instrument Set Up This is displayed when the instrument is being set up to suit the users' requirements.	
	Strip Test (e.g., Multistix 10SG) Shown when a test is being carried out using a reagent strip for urinalysis, and when results are displayed following a strip test.	
	Cassette Test (e.g., Clinitest hCG) Displayed when a cassette test is being carried out and when results are shown after a cassette test.	
	Results recall Used to show that results are being recalled from the instrument's memory.	
,∎≣),	Printer This icon is displayed when results are being printed.	
	Data transfer to Personal Computer Shows that data, including results, is being transferred to a PC.	
\wedge	Alert Used when an error is being displayed.	
There are two icons which may appear in the title bar.		
	Detter newer	



Battery power

This has a maximum of four segments which show the level of battery power. It will be shown in the top right corner of the title bar when the instrument is battery powered.



Paper out

Appears in the top of the title bar when the printer paper/label roll needs replacing.

Unpacking

1

6

1 Carefully remove the contents of the shipping carton. Check the carton and instrument for visible signs of damage; if seen, immediately contact the carrier.

2 Remove each of the wrappings and check for the following items:



If you are using a reagent strip that has 4 or fewer test pads, e.g., Uristix® 4, you must use a short test table insert. This has to be ordered separately (for a list of suppliers see Appendix A, Local Technical Support Providers and Distributors).

Depending on the model you have received, there may also be a Warranty Registration Card, Unpacking/Setup Guide, and/or Quick Reference Guide included.

Set Up

3 Analyzer Set Up

Place the instrument on a level work surface where the temperature and humidity are fairly constant. ▲ The best temperature for using the instrument is between 22°C and 26°C (72°F and 79°F). Do not place the analyzer outside or near windows, ovens, hot plates, or radiators.

4 Plugging Analyzer In

Plug the appropriate end of the power cord into the power inlet socket located on the rear of the Clinitek Status+ analyzer. Plug the other end of the power cord into an AC electrical wall outlet.

▲ Only use the power supply adapter included with the unit.

5 Installing Batteries (Optional)

Place the analyzer on its side and remove the battery cover by pressing down on the tab and pulling out. Place the 6 new alkaline AA-size batteries into the analyzer. Replace the battery cover and turn the instrument back onto its base.





6 Inserting Test Strip Table

Insert the test strip table into the analyzer by holding it by the end opposite the white calibration bar and with the white bar facing up. Push the test table into the analyzer, pushing it in just over halfway.

> ▲ Do not push the test table fully into the analyzer as the test table may become jammed and prevent the use of the analyzer.

 $\underline{\wedge}$ Do not touch the white calibration bar.



7 Loading Test Table Insert

The test table insert adapts for use with a Siemens Healthcare Diagnostics urinalysis strip or Clinitest immunoassay cassette. One side is used for a strip test and the other side is used for a cassette test.

8 Interfacing to a Computer

The instrument can send results to a computer via the serial port located on the back of the analyzer. This requires a 9-pin null modem serial cable that can be purchased separately at an electronics store or from your Siemens Representative (for a list of suppliers see Appendix A, Local Technical Support Providers and Distributors).





9 Interfacing to the Clinitek Status Connector

The Clinitek Status connector allows for Ethernet or wireless network connectivity, Quality Control, increased security, bar code scanning, and additional features with the Clinitek Status+ analyzer.

This connector provides standard wired and wireless connectivity of the Clinitek Status+ system to your LAN, LIS, HIS, EMR, and allows for centralized control of all satellite Point of Care (POC) Clinitek Status+ analyzers. Refer to the *Clinitek Status Connect System Operator's Guide*.

10 Analyzer Software Upgrades

From time to time Siemens will add new features and make improvements to the Clinitek Status+ instrument software.

These software updates will be available on an electronic memory card which is inserted into the software update socket. This socket is located under the printer cover and is on the left-hand side of the printer when you face the back of the instrument.

Updating the software is a simple procedure. Instructions for updating the software on your instrument will be supplied with the memory card.

11 Loading the Printer Paper or Label Roll

1. Open the printer cover by pulling up on the tab.

2. Open the paper roll compartment cover by pressing down on its tab and pulling out.

3. Lift the paper holding arm into the open, upright position.

4. Place the new paper roll into the printer paper compartment with the paper unrolling from underneath and toward the compartment wall.

5. Feed the paper up along wall and through the printer. Once you have approximately 4 inches (or 10 cm) of paper through the printer then feed the edge of the paper through the printer cover.

6. Push the paper holding arm down in to the closed position.

7. Close the printer and paper roll covers by clicking them into position.

The analyzer is set up to automatically print the results (to turn off the automatic print function see Section 5, Instrument Set Up).





paper holding arm

The analyzer uses ordinary thermal paper as provided, or label stock (for ordering information see Appendix A, Local Technical Support Providers and Distributors).

12 Warranty Registration

1. Lift the printer cover on the instrument and the serial plate with the instrument's serial number will be visible.

2. Write the serial number and installation date on the Warranty Registration Card. After the instrument has been successfully installed, complete the information on the Warranty Registration Card and return the card to your local Siemens office (for a contact list see Appendix A, Local Technical Support Providers and Distributors).

Powering Up

Press the on/off button \bigcirc located on the front of the instrument.



This is the first screen displayed. The analyzer will run an automatic system diagnostic test each time it is turned on.

System Test In progress

Clinitek Status® is performing a system diagnostic test

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Software version 1.800:001

If this is the first time you have turned on the analyzer, you will be led through a Start-Up Wizard, a quick set-up procedure. If you require further instruction regarding the Start-Up Wizard see Section 3, page 3-1.



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1 Unpacking & Set Up Powering Down

Powering Down

1. Before turning the analyzer off, always ensure that there is no strip or cassette on the test table and that the table and insert are clean.

2. Press the on/off button \bigcirc for at least 2 seconds. The test table will retract into the analyzer. If there is no strip or cassette on the test table, the door will close and the analyzer will switch off.

If a strip or cassette is still on the test table, the test table will be pushed out and the analyzer will turn off. The test table will remain out. In order to retract the test table into the analyzer, turn the analyzer on, and then off (without a strip or cassette on the test table).

> ▲ Do not push the test table fully into the analyzer as the test table may become jammed and prevent the use of the analyzer.

$2 \underset{{}_{\textit{Screens}}}{\textit{Interacting with the Touch Screen}}$

Screens

The touch screen will guide you through the operation of the Clinitek Status®+ analyzer. The screen will display messages, instructions and options to which you respond by touching the appropriate area on the screen.

The first main screen you see is the *Select* screen. It displays the time and date, and indicates the 5 possible actions:

- Instrument Set Up
- Recall Results
- QC Test
- Cassette Test
- Strip Test

Each screen that follows the **Select** screen has an icon, title bar and touch-sensitive active areas.

In some cases, the screen will also display instructions, messages or error messages.

The icon indicates the main section in which you are working (1 of the 5 sections listed on the main **Select** screen).



Touch Sensitive Area

$2 \underset{{}_{\textit{Screens}}}{\textit{Interacting with the Touch Screen}}$

How to Touch the Screens

The screen needs to be touched lightly in the touch-sensitive area to activate a response.

Where to Touch the Screens

There are three types of areas that respond to touching the screen.

- Round Buttons
- Boxed Areas
- Scroll Arrows

If a touched area does not respond as expected, slide your finger across the appropriate selection area.

⚠️ Use of anything hard or pointed on the touch screen may cause damage.

Round Buttons

These buttons typically appear on screens that require a selection among several items. The button with a filled circle is the current selection.

To change your selection, touch an unfilled circle. The newly selected circle (button) will now be highlighted. You then touch the **Next** button to move to the next screen.



Round Buttons

In order to proceed, you will always touch the box with a right pointed arrow labeled Next.

In order to go back, you will always touch the box with a left pointed arrow. These "back" option boxes vary in title.

2 Interacting with the Touch Screen Screens

Boxed Areas

These are areas on the screen enclosed in boxes. Simply touch any area within the box to activate that function.

The boxed areas vary in size. The boxes located on the main **Select** screen are examples of larger areas. Smaller box selections include boxes such as the "Previous" and "Next" boxes found at the bottom of the screen.

Scroll Arrows

Press the up and down arrows on the right side of the screen to scroll through the list of information on the left side of the screen. Once the information on the left side of the screen is highlighted, touch the **Select** button to confirm your selection and move to the next screen.

If there are double arrows on the screen, these arrows (when touched) will take you to the top or bottom of the page.

> When an option can be selected it will be shown with a thick black frame and will respond when touched. If an option is not available, it will be framed with a thin black line and not respond when touched.



2 Interacting with the Touch Screen

Keyboards

Using the Alpha-Numeric Keyboard

When the screen prompts you to enter information for Operator, Patient's Name and/or Patient Identification, a keyboard will appear on the screen.

Depending on how your analyzer is set up, either an alphabetic or numeric keyboard will be displayed first. The first keyboard displayed is referred to as "keyboard priority."

> If you require further instruction regarding how to change keyboard priority see Section 5, Instrument Set Up.

To switch between the keyboards, touch the **123** button to get to the numeric keyboard. Touch the **ABC** button to get to the alphabetic keyboard.

To type in a name, number, birth date, etc., touch the appropriate button. Your selections will appear in the data entry box.

If you switch between keyboards, all values will be retained in the data entry box on both keyboard screens.



Press to switch to alphabetic keyboard



2 Interacting with the Touch Screen

The maximum number of characters allowed is 32. An audible tone will sound when you have exceeded the maximum number of characters.

Once you have finished entering the information, touch **Enter** (from either keyboard screen).

3 Start-Up Wizard

The first time your Clinitek Status[®]+ analyzer is turned on (following an automatic system diagnostic test), it will take you through a quick set up procedure. This procedure will allow you to select the basic functions of the analyzer so you can use the analyzer with your choice of settings.

The *Start-Up Wizard* will allow you to select the following settings:

- Language
- Date and time
- Preferred test sequence (e.g., Quick Test or Full Test)
- Type of urinalysis strip
- Results format

If you require further instruction regarding how to change the settings see Section 5, Instrument Set Up.

Once you have selected your choices, the analyzer will display a *Confirmation* screen which allows you to check that your preferences are correct.



Confir	mation
System Setting Language Date Time Preferred test Type of urinaly Results format	sEnglish 05-20-2003 6:27PM sequenceQuick sis stripMultistix@10 SG Conventional
Press Back to o Press Next to o	change settings continue
Back	Next



Quick Tests

Urinalysis Strip Test



BIOHAZARD Wear personal protective equipment. Use universal precautions. Refer to *Appendix H* for recommended precautions when working with biohazardous materials.

Testing is started from the main **Select** screen.

If you require more information regarding use and storage of test strips, please refer to the strip package insert.

Touch **Strip Test** to conduct a urinalysis strip test.

The next screen that appears is *Prepare Test*.

If you would like the steps for urinalysis testing to be shown on the screen then touch Help.

Make sure the test table insert has the reagent strip holder facing upward.

Also, have the test strip, urine sample and paper towel ready.

Touch the **START** button.







The next screen that appears is another **Prepare Test**. This screen prompts you through the steps to prepare the test strip.

A timer displays how much time you have remaining to complete the steps.



1 Dip the reagent strip into the urine sample, wetting all pads. Immediately remove the strip from the urine.

NOTE: Do not dip the automatic identification band or color band in the urine sample.

2 Drag the edge of the strip against the side of the sample container as you remove it.







3 Blot by touching the edge of the strip to the paper towel to remove excess urine.

 \triangle Do not lay the pads on the paper towel or cover the pads by the paper towel.



4 Place the reagent strip in the channel of the table with the test pads facing up. Slide strip to end of the channel.

At the end of the 8 second countdown, the test table and strip will automatically be pulled into the analyzer.

⚠ Do not push or pull the test table.

The Clinitek Status®+ analyzer will perform an automatic calibration each time a test is run.

A Be sure not to move or bump the table while the instrument is calibrating.

NOTE: A warning message displays if you are not using a Siemens reagent strip. Press **OK** to continue. The Results may not display if you are using a non-Siemens reagent strip. Repeat the test using a Siemens reagent strip.







The **Analyzing** screen will be displayed when the calibration has been completed and the analysis of the strip has begun.

A timer will count down the time remaining in analyzing the strip results.



If the analyzer has been set up to automatically print the results, then the *Printing* screen will be displayed until the print out has been completed (otherwise the *Results* screen will appear).

The date, time and test sequence number will be printed along with the test results. "Not Entered" will be printed next to Color and Clarity.

> If the results are positive, an asterisk* will appear next to the results (if "mark positive results" was selected in Instrument Set Up).



The next screen displayed is the *Results* screen. The first page of the test results are displayed on the screen and the test table and strip are automatically pushed out of the analyzer.

To view the remaining test results, touch **More** on the screen.

If you are using reagent strips with a color strip or auto identification band, you can view Sample Interference notes about this test. From the **Results** screen, touch **Notes**.

If Sample Interference notes are generated for this test, the Interference notes screen displays. Touch the up and down arrows to scroll through the notes. Touch **Done** to return to the main Results screen.







Up to 5 Sample Interference notes display on the screen. Use the up and down arrows to scroll through the notes. If enabled, the notes print with the test results.

If Sample Interference notes have been disabled in the setup, the NOTES button does not display.

NOTE: If you run a test with this feature disabled, no notes will be generated at the time of the actual test. If you enable the sample interface notes then recall the test results, the analyzer generates Sample Interference Notes for this patient test.

If the analyzer has not been set up to automatically print the test results, touch **Print** to have the results printed.

The results will automatically be sent to the connected PC if this option is set up in the analyzer.

> If you require further instruction regarding how to set up the analyzer so the results are printed or sent to a computer automatically see Section 5, Instrument Set Up.



From the test table, remove the used urinalysis strip and dispose of it according to your standard laboratory procedures. Wipe the table insert, if necessary.

Report the results to a laboratory supervisor or physician.

Touch **Done** to complete the test and return to main **Select** screen.

The results will be displayed on the screen for 2 minutes. After this time elapses, the display will return to main **Select** menu.

Touch **Done** to return the Strip Test Prepare screen. You are ready to start the next test. If testing is complete, touch **Back** key to return to the **Select** menu.



Cassette Test



BIOHAZARD Wear personal protective equipment. Use universal precautions. Refer to *Appendix H* for recommended precautions when working with biohazardous materials.

Testing is started from the main *Select* screen.

Please refer to the Clinitest® hCG cassette test package insert for more information regarding use and storage of test cassettes.

▲ Bring the test cassette and patient sample to room temperature 20°C to 30°C (68°F to 86°F) prior to testing.

Touch **Cassette Test** to conduct the test.

The next screen that appears is *Test Type*. Touch the **Clinitest** hCG cassette button.

The next screen that appears is *Prepare Test* screen.

If you would like the steps for cassette testing to be shown on the screen then touch **Help**.




Make sure the test table insert is in position for a cassette test.



Remove the test cassette from the foil package and place the cassette on the test table.

▲ Once you touch the START button you have 8 seconds to draw the urine sample into the pipette and add the urine sample into the well on the cassette.



Touch START button.

The next screen that appears is another **Prepare Test**. This screen prompts you through the steps to prepare the cassette test.

A timer displays how much time you have remaining to complete the steps.





You have 8 seconds to complete the following two steps:

1 Draw the urine sample to the line marked on the pipette (approximately 0.2 mL).



2 Add entire contents of the pipette into the sample well of the test cassette.



At the end of the 8 second countdown, the test table and cassette will automatically be pulled into the instrument.

A Do not push or pull the test table.



The Clinitek Status+ analyzer will perform an automatic calibration each time a test is run.

▲ Be sure not to move or bump the table while the instrument is calibrating.

The Analyzing screen will be displayed when the calibration has been completed and the analysis of the cassette has begun.



A timer will count down the time remaining in analyzing the cassette results.

The Clinitest hCG test results are either negative, positive or borderline. The analyzer takes approximately 5 minutes to confirm a negative result. If the result is a clear positive, the analyzer will report it sooner. If the result is borderline, then you should retest, with a new sample, in 48 to 72 hours. Please refer to the Clinitest hCG cassette test package insert for complete instructions for use.





If the analyzer has been set up to automatically print the results, the *Printing* screen will be displayed until the print out has been completed (otherwise the *Results* screen will appear).

The date, time and test sequence number will be printed along with the test results.

The next screen displayed is the *Results* screen. The test results are displayed on the screen and the test table and cassette are pushed out of the analyzer.

The results will be printed automatically if this option is set up in the analyzer. If not, touch **Print** to print the results on the analyzer's printer.

The results will automatically be sent to the connected PC if this option is set up in the analyzer.

> If you require further instruction regarding how to set up the analyzer so results are automatically printed or sent to a computer see Section 5, Instrument Set Up.

Remove the used cassette and dispose of it according to your standard laboratory procedures.

Report the results to a laboratory supervisor or physician.

Touch **Done** to complete the test and return to main **Select** screen.

Siemens Clinitek Status®	9
Patient Name:	
Clinitest® hCG	
Test date 05	5-29-2008 4:37PM
THIC	1.011110
Operator	the second se
Operator Test number	0004
Operator Test number hCG Negative	0004

If the result is positive, an asterisk* will appear next to the result (if "mark positive results" was selected in Instrument Set Up).

Results Test sequence number: 068	3
Clinitest® hCGNegative	
Test date	Print E
	Done

The result will be displayed on the screen for 2 minutes. After this time elapses, the display will return to main **Select** menu.



Full Tests

Urinalysis Strip Test



BIOHAZARD Wear personal protective equipment. Use universal precautions. Refer to *Appendix H* for recommended precautions when working with biohazardous materials.

A Full Strip Test allows you the option to enter an Operator Name, Patient Name and/or Patient ID prior to inserting a strip.

The procedures to enter the Operator and Patient data are presented in this section.

The strip testing process is identical to a Quick Strip Test.

If you require further instruction regarding the procedures required for running a Siemens Healthcare Diagnostics urinalysis strip test see Section 4, Quick Tests.

Testing is started from the main **Select** screen.

Touch **Strip Test** to conduct a Siemens urinalysis strip test.

Select Ready	10:04AM 06-06-2007
Instrument Set Up	Recall Results
Cassette Test	Strip Test
A	
•	



The next screen that appears is *Operator Name*.

There are two options under Operator Name: Last Operator or Enter New Operator Name.

Option 1: Last Operator

If this option is enabled, the last operator that entered his/her Name will be displayed on the screen in the lower right side of the box. If you are this operator, then touch the **Last Operator** button to proceed.

Operat	br ID
	Last Operator:
•	Enter New Operator ID

Option 2: Enter New Operator Name

In order to enter the information for a new operator, touch **Enter New Operator Name** button. The next screen that is displayed is *Enter Operator Name*.

Use the keyboards to enter Operator Name using a maximum of 13 characters. Touch **Enter** when you have finished entering the Name and to move to the next screen.

> If you require further instruction regarding keyboard usage see Section 2, Interacting with the Touch Screen.







The next screen displayed is *Patient Information.*

There are two options under Patient Information: **Recall Patient** or **Enter New Patient**.



Option 1: Recall Patient

In order to look up previous patients, touch **Recall Patient**.

If previous patient identification has been entered, a list of up to 950 patient results will appear on the screen. Use the up and down arrow buttons to scroll through the list of patients. The most recently performed test will be shown at the top. Once the patient is highlighted, touch **Select** button.

The next screen will be *Prepare Test*.

A total of 950 patient tests can be stored in the analyzer. The tests are listed in chronological order. When the limit of 950 has been reached, the oldest test will be deleted from the analyzer. Deleted information cannot be retrieved from the analyzer.

	anone	_	\bigcap
STEVENS		11.11.81	
TILLY	********	07.25.80	R.
VERNON		05.08.99	CA
KENNETH		11.25.46	1
VILROY		06.12.50	1
LEAF		11.08.76	6
SOLIZ		03.14.72	V
WROUT		12.25.70	
DENHAM		04.20.86	1
COLEMAN		07.20.80	V
New	. Selec	t	A
Patient			19



Option 2: Enter New Patient

In order to enter the information for a new patient, touch **Enter New Patient** button. The next screen displayed is *Enter Patient Name*.

Use the keyboards to enter Patient Name using a maximum of 20 characters. Touch **Enter** when you have finished entering the patient's name and to proceed to the next screen.

> If you require further instruction regarding keyboard usage see Section 2, Interacting with the Touch Screen.







The next screen displayed is *Patient Identification*. Use the keyboards to enter Patient Identification using a maximum of 13 characters. Touch **Enter** when you have finished entering the patient's ID and to proceed to the next screen.

If you require further instruction regarding keyboard usage see Section 2, Interacting with the Touch Screen.







The next screen that appears is *Prepare Test*.

If you require further instruction regarding the procedures for running a Siemens urinalysis strip test see Section 4, Quick Tests.

While the strip is being analyzed, a *Select Appearance* screen will be displayed. The urine sample must be visually observed and then the appropriate color and clarity must be selected.

If the urine sample is yellow and clear, touch the **Yellow and Clear** button.

If the urine sample is not yellow and clear, touch the **Other** button for more choices.

If you touched the **Other** button, select the appropriate color by touching the circle button that corresponds to the correct description.

NOTE: You can select only one color for a urine sample.





Select the clarity by touching the circle that corresponds to the correct description. Then touch **Next**.

There is a time indicator on the **Select Appearance** screen that is counting down the time remaining in the analysis of the strip.

After color and clarity have been entered the next screen displayed will either be:

Analyzing – if the strip is still being analyzed

Results – if analyzing the strip has been completed





Results Patient: MITCHELL	2 of 2
TestMultistix® Test date07-31 Time	10 SG -2003 :37PM MOLLY
	Print E
	•



Entering the Strip Lot Number and Expiration Date

To enter strip lot information for a second strip test, perform the following steps:

1. At the *Select* screen, touch **Strip Test**.

The Strip screen displays.

2. To use the last strip number and begin the test, touch **Use Last Lot**.

To enter new strip data, touch **Enter new lot and expiration**. The *Strip Lot* screen displays.

Enter the strip lot number.
Use the alpha keyboard to enter text.

To enter numeric text, touch 123.

- 4. Select **Enter**. The *Strip Expiration* screen displays.
- 5. Use the arrow keys to indicate the strip expiration date.
- 6. Touch **Enter**. The *Prepare Test* screen displays.
- 7. Touch **Start**. See above.



The test results displayed on the screen and the printout will include the following information:

- Patient Name, ID or both
- Type of strip used
- Test date
- Time
- Operator
- Test Number
- Color
- Clarity
- Results
- Sample Interference Notes

Clinitek Stati	950
Patient Name(MITCHELL
Multistix® 10 Test date Time Operator Test number Color Clarity	SG 05-29-2008 4:52PM MOLLY 0007 Yellow Clear
GLU Negative BiL Negative KET Negative SG 1.010 BLO Trace-lys pH 7.5 PRO Negative URO 0.2 E.U./ NIT Negative LEU Negative	sed 'dL

If the results are positive, an asterisk* will appear next to the results (if "mark positive results" was selected in Instrument Set Up).



Cassette Test



BIOHAZARD Wear personal protective equipment. Use universal precautions. Refer to Appendix H for recommended precautions when working with biohazardous materials.

A Full Cassette Test allows you the option to enter an Operator, Patient Name and/or Patient ID prior to inserting a cassette.

The procedures to enter the Operator and Patient data are presented in this section.

The cassette testing process is identical to a Quick Cassette Test.

> 🧆 If you require further instruction regarding the procedures for running a Siemens Clinitest immunoassay test see Section 4. Quick Tests.

Testing is started from the main Select screen

Touch Cassette Test to conduct an hCG pregnancy test.

The next screen that appears is **Operator Name**.

There are two options under Operator Name: Last Operator or Enter New Operator Name.



Opera	itor ID
	Last Operator:
	Enter New Operator ID



Option 1: Last Operator

If this option is enabled, the last operator that entered his/her Name will be displayed on the screen in the lower right side of the box. If you are this operator, then touch the **Last Operator** button to proceed.

Option 2: Enter New Operator Name

In order to enter the information for a new operator, touch **Enter New Operator Name** button. The next screen that is displayed is *Enter Operator Name*.

Use the keyboards to enter Operator Name using a maximum of 13 characters. Touch **Enter** when you have finished entering the name and to move to the next screen.

> If you require further instruction regarding keyboard usage see Section 2, Interacting with the Touch Screen.

The next screen displayed is *Patient Information.*

There are two options under Patient Information: **Recall Patient** or **Enter New Patient**.





Option 1: Recall Patient

In order to look up previous patients, touch **Recall Patient**.

If the previous patient identification has been entered, a list of up to 950 patients will appear on the screen. Use the up and down arrow buttons to scroll through the list of patients. The most recently performed test will be shown at the top. Once the patient is highlighted, touch the **Select** button. The next screen will be **Test Type**.



A total of 950 patient tests can be stored in the analyzer. The tests are listed in chronological order. When the limit of 950 has been reached, the oldest test will be deleted from the analyzer. Deleted information cannot be retrieved from the analyzer.

STEVENS 11.11.81 TILLY 07.25.80 VERNON 05.08.90 KENNETH 11.25.46 VILROY 06.12.50 LEAF 11.08.76 SOLIZ 03.14.72 WROUT 12.25.70 DENHAM 04.20.86 GOLEMAN 07.20.80			_
TILLY. 07.25.80 VERNON. 05.08.90 KENNETH. 11.25.46 VILROY. 06.12.50 LEAF. 11.08.76 SOLIZ. 03.14.72 WROUT. 12.25.70 DENHAM. 04.20.86 GOLEMAN 07.20.80	STEVENS	 	
VERNON	TILLY	 07.25.8	0
KENNETH. 11.25.46 VILROY. 06.12.50 LEAF. 11.08.76 SOLIZ. 03.14.72 WROUT. 12.25.70 DENHAM. 04.20.86 GOLEMAN 02.20.80	VERNON	 05.08.9	0
VILROY	KENNETH	 	6
LEAF	VILROY	 06.12.5	0
SOLIZ	LEAF	 11.08.7	6
WROUT	SOLIZ	 03.14.7	2 ~
DENHAM	WROUT	 12.25.7	0 >=
COLEMAN	DENHAM	 04.20.8	6
	COLEMAN	 07 20.8	
	Rationt	ove	- 10-



Option 2: Enter New Patient

In order to enter the information for a new patient, touch the **Enter New Patient** button. The next screen displayed is *Enter Patient Name*.



Use the keyboards to enter Patient Name using a maximum of 20 characters. Touch **Enter** when you have finished entering the patient's name and to move to the next screen.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z . -- - Enter



If you require further instruction regarding keyboard usage see Section 2, Interacting with the Touch Screen.



The next screen displayed is *Enter Patient ID*. Use the keyboards to enter Patient Identification using a maximum of 13 characters. Touch *Enter* when you have finished entering the patient's ID and are ready to proceed to the next screen.

	Ent	er Pa	atier	nt ID			_
123							
A	B	C	D	E	F	G	H
1	J	K	L	M	N	0	P
Q	R	S	T	U	V	W	X
	Y	Z	(.	-	-	Enter	

If you require further instruction regarding keyboard usage see Section 2, Interacting with the Touch Screen.

En	ter P	atier	nt ID		
A _B C			_		
	1	2	3	Í	
	4	5	6	Í	
	7	8	9	Í	
	0	(.	-	(-	Enter 🔶



The next screen that appears is *Test Type*.

If you require further instruction regarding the procedures for running a Clinitest hCG cassette test see Section 4, Quick Tests.



The test results displayed on the screen and the printout will include the following information:

- Patient Name, ID or both
- Type of Clinitest cassette test Test date
- Time
- Operator
- Test Number
- Result



Siemens Clinitek Sta	itus®
Patient Name	COLEMAN
Clinitest® h Test date Time Operator Test number	CG 05-29-2008 4:31PM GAIL 0003
hCG Negat v	e

If the result is positive, an asterisk* will appear next to the result (if "mark positive results" was selected in Instrument Set Up).

5 Instrument Set Up

Instrument Set Up

Your Clinitek Status®+ analyzer allows you to change settings to suit your workplace requirements.

> If no customizing is desired, the analyzer will automatically be programmed with default settings (to view default settings please see Appendix D: Instrument Default Settings).

Touch **Instrument Set Up** in order to initiate changing the settings.

If a password has been set, the *Enter Password* screen will be displayed. Enter the password into the data entry box. The characters you enter will be displayed as asterisks.

Touch **Enter** to proceed to a list of settings.

Settings

Use the up and down arrows to scroll through the *Choose Settings* screen.

Touch **Select** when you have highlighted the setting you want to change.

Touch **Done** to return to the main **Select** screen.







5 Instrument Set Up Language Settings

Language Settings

Use the up and down arrows to scroll through the list of languages. Touch **Select** when you have highlighted the desired language.

Before changing the language an alert screen will be displayed requesting you to confirm your decision.

Touch **No** to continue with same language and retain current settings. The display will return to *Choose Settings*.

Touch **Yes** to change the language.

- ▲ Changing the language will...
 - delete all results from the memory.
 - change the instrument settings to the defaults for the new language (default settings are listed in Appendix D: Instrument Default Settings).





5 Instrument Set Up

Password

When a password has been set, no changes can be made to the **Instrument Set Up** until the password has been entered.

Set Password

Enter a password into the data entry box using the alphabetic and/ or numeric keyboards (maximum 12 characters).

> Keep a record of the password to be sure to have access to Instrument Set Up when required.

Touch **Enter** to confirm the password and return to **Choose Settings**.

Touch **Done** to return to main *Select* screen.

Remove Password

Once a password has been entered the option will change from **Set Password** to **Remove Password**.

Highlight the **Remove Password** option and touch **Select**. The option displayed will change to **Set Password** and a password will no longer be needed to access **Instrument Set Up.**

Touch **Done** to return to the **Select** Menu.







Operator and Patient Information

Selecting this option will allow you to choose display options for data entry.

The *Input Settings* screen allows you to select 1 of 3 test sequences.

Quick Test

A test without any operator or patient information required. The test will be identified by a sequential test number when the results are displayed or printed.

Full Test

The operator will be prompted to enter the following data during testing:

- Operator Name
- Patient's Name
- Patient Identification
- Sample Appearance (Color and Clarity) of urine sample, when testing with a urinalysis strip.

Custom Set Up

This allows you to customize the data to be entered when conducting a test.





On the *Input Settings* screen, touch a round button in the box of the preferred test sequence. Then touch **Next** for test sequence confirmation.

Touch **Done** on the *Input Settings* screen to return to the *Choose Settings* screen.



Custom Settings

Touch the round button in the **Custom Set Up** box to customize selections for data entry. Touch **Next**.

The next 5 screens present choices for customizing your testing.

Choose settings by touching and highlighting a round button for each category.

Proceed through all 5 screens by touching **Next** at the bottom of each screen.

Screen 1 of 5

Operator Name – allows you to choose whether Operator Name will be required for running a test – **Enabled** (on) or **Disabled** (off).

Keypad priority – allows you to select either the **Numeric** or **Alphabetic** keyboard to be presented as the first keyboard during data entry.





Screen 2 of 5

Patient Name – allows you to choose whether patient name will be required for running a test – Enabled (on) or Disabled (off).

Patient ID – allows you to choose whether Patient ID will be required for running a test – **Enabled** (on) or **Disabled** (off).

> A total of 950 patient records can be stored in the analyzer. When the limit of 950 has been reached, the oldest test will be deleted from the analyzer. Deleted information cannot be retrieved from the analyzer. If Patient's Name and Patient ID are both disabled, a sequential test number will be shown with the test results.



Screen 3 of 5

Choose which to show in Results list – allows you to choose whether Patient Name or Patient ID will be included in the list of results.

Last Operator's Name displayed

 allows you to choose whether a "Select Last Operator" option is available to the user when you are prompted to enter an Operator Name during Strip or Cassette Testing – Enabled (on) or Disabled (off).



Screen 4 of 5

Choose which to record during a strip test – allows you to select which sample details you would like to be recorded during a strip test – Color and Clarity, Color only, Clarity only or None (no sample information).

Custom Settings Sample Appearance 4 of 5 Choose which to record during a strip test Color and Color only Color only Carity only Next

Screen 5 of 5

Custom Field – allows you to name the custom field in order to customize data entry.

To name the custom field, touch the **Enter Custom Field** box.



The next screen displayed is *Enter Custom Field*. Use the keyboards to enter a custom field (e.g., Physician Name). Touch *Enter* to return to the *Custom Settings* screen.

> If you require further instruction regarding keyboard usage see Section 2, Interacting with the Touch Screen.

Enter Custom Field								
123								
A	B	C	D	E	F	G	H	
1	J	K	L	M	N	0	P	
Q	R	S	T	U	V	W	X	
4	Y	Z	(.	-	-	Enter	•	

Touch the round button next to **Enabled** (on) to highlight and activate this custom setting.

Touch the round button next to **Disabled** (off) to deactivate the custom setting.

Touch **Previous** to scroll back through custom setting screens to review.

Touch **Next** to proceed to the *Input Settings* screen which will provide a list of the selections made in **Custom Set Up**.

Touch **Done** to confirm and return to the **Choose Settings** screen.



Quatem Pat IIn	
Custom set op	Feabled
Voucad anianiku	Elidbled
Reypau priority	Alphabetic
Patient Name	Enabled
Patient ID	Enabled
Choose which to	show Patient Name
Last Operator's I	D displayedDisabled
Sample Appearan	iceNone
Custom Informat	ionDisabled
	(
	ED 400

Managing Urine Colors

The following sections describe how to customize and set urine color choices and urine clarity for Siemens strip tests. When you print patient test results, you can include urine color, clarity, or color and clarity in the printout. Urine color and clarity are optional; you can choose not to print these parameters. Urine color and clarity are available only in Full Test or Custom mode.

Setting and Customizing Urine Colors

You can choose from one of 10 instrument-provided colors and add up to 4 customized colors to patient test results.

To include instrument-provided colors, perform the following steps:

- At the Select screen, touch Instrument Set Up. The Choose Settings screen displays.
- 2. Use the arrow keys to select Operator and Patient information.
- Touch Select. The Input Settings screen displays.
- 4. Touch Custom Set Up.
- Touch Next. The Custom Settings-Operator screen 1 of 5 displays.
- Touch Next 3 times. The Custom Settings-Sample Appearance screen 4 of 5 displays.

- Touch Edit colors. The Sample Appearance-Select colors screen 1 of 3 displays.
- To choose colors, touch the button for the color you want. To remove a selected color, touch that color button again.
- 9. Touch **Next**. The Sample Appearance-Select colors screen 2 of 3 displays.
- 10. To choose colors, touch the button for the color you want.
- 11. Touch **Next**. The Sample Appearance-Select colors screen 3 of 3 displays.
- 12. Touch **Next** 3 times. The *Input Settings-Confirmation* screen displays.
- 13. Touch **Done** twice to return to the *Select* screen.

Adding Customized Colors

To enter up to 4 custom colors, perform the following steps:

- At the Sample Appearance-Select colors screen 3 of 3, touch Enter custom color 1 (2, 3, or 4) corresponding to each custom color.
- Enter the custom color. Use the alpha keyboard to enter text. To enter numeric text, touch 123.

NOTE: The maximum number of characters for each color is 10.

3. Touch Enter.

The Sample Appearance-Select colors screen 3 of 3 displays.

Do not edit a custom color that already exists because doing so deletes all patient records stored on the system.

If a custom color exists, the *Sample Appearance* screen displays.

Touch **Yes**, to edit that custom color and delete all records. Touch **No**, to return to the *Sample Appearance Select Colors* screen 3 of 3.

- 4. Touch **Next** 3 times. The *Input Settings-Confirmation* screen displays.
- 5. Touch **Done** twice to return to the *Select* screen.

Managing Strip Lot Number and Expiration Date

You can enter the strip lot number and expiration date and associate this information with each patient record. Once entered, the information is retained for the next test, or you can enter a new lot number and expiration date. You can set the instrument to prompt for new strip information or use the information from the last strip before each patient test.

5 Instrument Set Up Intrument Settings

Setting Strip Information Prompt

To set the prompt for strip information, perform the following steps:

- At the Select screen, touch Instrument Set Up. The Choose Settings screen displays.
- 2. Use the arrow keys to select **Instrument Settings**.
- 3. Touch **Enter**. The *Instrument Settings* screen displays.
- 4. Use the arrow keys to select **Urinalysis Test Settings**.
- 5. Touch **Select**. The *Urinalysis Test Settings* screen displays.
- 6. Touch **Next**. The *Urinalysis Test* screen displays.
- 7. To prompt for strip information before each test, touch **Enabled**.

To bypass a prompt to enter strip information before each test, touch **Disabled**.

8. Touch **Done** 3 times to return to the Select screen.

5 Instrument Set Up Date and Time Settings

Date and Time Settings

The date and time are displayed on the *Select* screen and are recorded with test results.

The format of the date and time are displayed along with specific date and time values.

If the date and time values are incorrect, use the up and down arrow buttons to adjust the date and time to the correct values. Touch **AM** or **PM** if you are in the 12-hour time format. Touch **Set** to confirm your choices and move to the next screen.

If the format is not correct for your workplace, for example, you prefer DD-MM-YY to MM-DD-YY or 24-hour clock to 12-hour clock, touch **Choose Format**.

The next screen displayed is **Choose Format**. Touch the round button that corresponds to your choice of a date format and a time format. Touch **Done** to return to **Set Date & Time.**

If the date and time are in the format which you need, select **Done**.



MM DE	9 YY	10	:20
	NP		A O A
50	10	NO	P
NA	0V		V.
20			<u>v</u> lo



5 Instrument Set Up Date and Time Settings

The **AM** and **PM** selections will not be available if the time is in the 24 hour format.

The **Set Date & Time** display will show the date and time in the formats selected. Select **Set** to confirm your choices and return to the **Choose Settings** screen.



5 Instrument Set Up Test Sequence Number

Test Sequence Number

The test sequence numbers run from 0001 to 9999 and can be reset. The screen shows the next test number.

Touch the **Reset to 0001** round button if you would like to reset the numbers to start at 0001 for the next test.

Touch **Done** to confirm the reset or to leave the screen if you have not selected the option to reset the number. You will return to the *Choose Settings* screen.



Sequenc	e Number
Test Sequence Number is currenti 0001	Reset to 0001
	Done 🔶
Instrument Settings

This section has a series of screens which control the way in which the Clinitek Status+ analyzer displays information and operates.

There are 8 Instrument Setting items.

- Results Format
- System Settings
- Display Contrast
- Connectivity
- Select Urinalysis Test
- Authorized Operator
- Printer Settings
- QC Settings

Use the up and down arrows to highlight a setting item and touch **Select**.

Results Format

This allows you to select the format in which you would like the results to be displayed and printed.

Choose Format

Screen 1 of 2

Units Selection – allows you to select the format in which you would like results by touching the round button next to the appropriate type of format.

NOTE: Nordic units are only available in English and Swedish. If you set the language to Chinese, this screen does not display, as only SI units are available in Chinese.







Plus System – select Enabled

(on) if you wish to have results shown in the Plus System. You will also see in Appendix B that results can be recorded in the Plus System (which uses "+" symbols) instead of clinical units such as mg/dL (mmol/L). In some languages there is no difference between the normal system and the Plus System.



Screen 2 of 2

Mark Positive Results – allows you to choose whether positive results should be marked with an asterisk (see Appendix B for results to be shown as positive).

Touch the round button next to **Yes** to mark and record positive results. These will be marked on the display, on a printout and when the data is transferred to a host computer.

Touch **No** and positive results will not be marked.

Touch **Done** to enter your choice and return to *Instrument Settings*.

Cilouse	- Or man	2 of 2
Mark Positive Results	O Yes	
	No No	
	0	
	Done	*
	Done	

Instrument Settings

System Settings

This allows selections regarding the printer, power and sound.

System Settings

<u>Screen 1 of 2</u> **Printer** – allows you to select the preferred printing option by touching the round button.

> Automatic – Results for each test will be printed automatically when the test is complete.

Manual – Test results will not be printed automatically. They can be printed by touching the **Print** selection area on the **Results** screen.

Off – Test results will not be printed.

Power Save – allows you to enable and disable this feature. If the instrument is powered from an electrical outlet and is not used for 5 minutes, you may choose to have the test table retract and the instrument power down. When it is powered by batteries, Power Save is always enabled and it will power down after 5 minutes of non-use. Touch the **Enabled** (on) to activate or **Disabled** (off) if the Power Save mode is not desired.





Screen 2 of 2

Sound – allows you to adjust the sound by highlighting and selecting a level.

Sound on – The instrument will use a range of audible tones.

Sound off – No audible tones will be made by the instrument.

Key clicks only – Audible clicks will be heard when the user touches an active button or key.

Display Contrast

This allows the contrast of the display to be increased or decreased to suit the work area in which it is being operated. Use the up and down arrows to sample the contrast settings and touch **Select** to set and return to the **Instrument Settings** screen.

Syster	n Settings 2 of 2
Sound	Sound on
	Sound off
	Key clicks only
	Done





Connectivity

You can connect the instrument to a PC or host computer, or, if you have a Clinitek Status connector, to an LIS using an Ethernet or wireless network. If you are using the connector, refer to the *Clinitek Status Connect System Operator's Guide* for more information.

Allow results to be sent to PC

If enabled, the system automatically sends both new and recalled patient tests to a host or LIS.

To automatically send new and recalled patient results to the LIS or a PC directly connected to the system, touch **Enabled**.To prevent sending new and recalled patient results to the LIS or PC, touch **Disabled**.

NOTE: If there is no connector, Siemens recommends setting the connector to Disabled setting. Setting the connector to the Enabled setting without a connector may prevent communication with an external system.





Store instrument serial number in patient records

Touch round button of either **Yes** or **No** depending on whether you choose to include the serial number of your Clinitek Status+ analyzer as part of the patient results sent to the computer.

> If you have enabled the upload capability, you will need to ensure that the connectivity settings are correct for the data transfer.

Touch Edit Connectivity Settings and a series of 3 screens for *Connectivity Settings* will allow you to edit the settings.



Allow results to be sent to PC	Enabled
	O Disabled
Store instrument	O Yes
patient records	No No
Edit connectivity	Done

Connectivity Settings

Screen 1 of 3

Baud rate – Touch a round button to select the correct Baud rate and **Next** to move to the next screen.

Connec	tivity Settings
Baud rate	9600 0 19200 0 57600
	Next



Screen 2 of 3

Parity rate – Touch a round button to select the correct Parity rate and **Next** to move to the next screen.



Screen 3 of 3

Stop Bits – Touch a round button to select the number of Stop Bits.



Select Urinalysis Test

This displays a list of some of the Siemens Healthcare Diagnostics urinalysis strips which can be used with the Clinitek Status+ analyzer.



Use the up and down arrows to scroll through the list until the type of strip you want to use is highlighted. Touch **Select** to confirm and return to the *Instrument Settings* screen.

> ▲ Do not use any reagent strip product other than what is shown on the display. Using the wrong Reagent Strip will give you incorrect results.

Some strips do not appear on the list (e.g., Clinitek® Microalbumin 2). The analyzer will automatically identify them through the color ID band on the strip.

You do not need to select a type of Clinitest[®] immunoassay cassette within Instrument Set Up.

Touch **Done** repeatedly to return to the main **Select** screen.





Edit Reported Chemistries

This section describes how to include or exclude urinalysis tests from the reported results. Tests include GLU, BIL, KET, SG, BLO, pH, PRO, URO, NIT, LEU, ALB, and CRE. The default is all tests are reported and the button is filled.

To set up tests for urinalysis, perform the following steps:

- At the Select Ready screen, touch Instrument Set Up. The Choose Settings screen displays.
- 2. Use the arrow keys to select **Instrument Settings**.
- Touch Select. The Instrument Settings screen displays.
- 4. Use the arrow keys to select **Urinalysis Test Settings**.
- 5. Touch **Select**. The *Urinalysis Test* screen displays.
- 6. Touch Edit reported chemistries.

The *Reported Chemistries* screen 1 of 2 displays.

 To remove a selected test from reported results, touch the button for that test.
 To include a test in reported results, touch that test's button again.

- Touch Next to advance to the next screen. The *Reported Chemistries* screen 2 of 2 displays.
- Touch the button for the test you want to remove.
 Touch the button again to include that test.
- 10. Touch Done.
- 11. Touch Next.
- 12. Touch **Done** 3 times to return to the *Select Ready* screen.

The reported results selection applies to all strip types.

Authorized Operator

This section describes how to set up use of operator IDs and add, edit, or delete the list of operator IDs. When enabled, the system permits only allowed operators to perform patient tests, QC tests (when using the connector), recall results, or modify system settings. Operators gain access by entering their ID.

The Clinitek Status+ analyzer stores 700 operators.

NOTE: The Operator ID is never printed or displayed with patient results. If you wish to associate the Operator's Name with patient results, enable Operator Name in *Custom Settings-Operator* screen 1 of 5.

Once the Operator ID and Operator Name settings are made, do not change the Operator ID setting. If you change the Operator ID setting, all patient results are erased.

Setting Operator IDs

To set up operator IDs, perform the following steps:

1. At the Select Ready screen, touch **Instrument Set Up**. The Choose Settings screen displays.

- 2. Use the arrow keys to select **Instrument Settings**.
- 3. Touch **Select**. The *Instrument Settings* screen displays.

- 4. Use the arrow keys to select **Authorized Operator**.
- 5. Touch **Select**. The *Authorized operator* screen displays.
- 6. To permit access only by authorized operators, touch **Enabled**.

To allow all operators access to the system, touch **Disabled**.

7. If you selected **Enabled**, see Adding Operator IDs below to add at least one operator. If you selected **Disabled**, touch **Done** 3 times to return to the Select Ready screen.

If the instrument uses the operator list sent by the LIS, do not power down the system. If the connector loses power, the operator names are erased.

NOTE: The operator list sent by the LIS overwrites an operator list entered via the analyzer.

Adding Operator IDs

To add operator IDs, perform the following steps:

- 1. At the *Authorized operator* screen, touch **Add operator**.
- 2. Enter the new Operator ID. Use the alpha keyboard to enter text.

To enter numeric text, touch 123.

3. Touch Enter.

The Authorized Operator screen displays indicating the Operator ID and which functions the operator can perform.

4. To edit this Operator ID, touch **Edit**.

5. To edit which functions this Operator ID can access, touch Edit.

The Authorized Operator-Operator access screen 1 of 2 displays.

- To allow this operator to run patient tests, touch Enabled.
 To prevent patient tests, touch Disabled.
- To allow this operator to run QC tests, touch Enabled.
 To prevent QC tests, touch Disabled.
- Touch Next. The Authorized Operator-Operator access screen 2 of 2 displays.
- To allow this operator to recall results, touch elect Enabled. To prevent recall results, touch Disabled.
- To allow this operator to set up the instrument, touch **Enabled**.
 To prevent instrument setup, touch **Disabled**.
- 11. Touch **Done** twice. The Authorized Operator-Operators list screen displays.
- 12. Touch Exit.
- 13. Touch **Done** 3 times to return to the *Select Ready* screen.

Viewing, Editing, Printing, and Deleting Operator IDs

You can view, print, or delete the entire operator list or edit individual operators.

NOTE: If you delete the entire operator list, ensure that authorized operators is Disabled. See *Setting Operator IDs* above.

Instrument Settings

At the *Authorized operator* screen, perform the following steps:

- 1. To delete the entire operators list, touch **Delete operators list**. The *Delete operators list* caution screen displays.
- To delete, touch Yes. To keep the operators list, touch No. If you selected No, the Authorized operator screen displays.

If you selected Yes, go to Step 8.

- 3. To edit or view the operators list, touch **View operators list**. The Authorized Operator-Operators list screen displays.
- 4. Use the arrow keys to select the operator you want to delete or edit.
- 5. To delete that operator, touch **Delete entry**.

To edit or delete that operator, touch **Select**.

The *Authorized operator* screen displays.

Refer to *Adding Operator IDs* above, Step 6.

6. To print all operators, touch **Print**.

NOTE: The system prints the first 100 operators listed alphabetically.

- 7. To return to the *Authorized* operator screen, touch **Exit**.
- 8. Touch **Done** 3 times to return to the *Select Ready* screen.

NOTE: Enabling the instrument password restricts access to Instrument Setup to those who know the password. If both Operator ID and password are enabled, the Operator ID has priority.

Printer Settings

This section describes how to customize the printed test results.

Customizing the Printout

You can customize the test results printout by including or excluding:

- Operator name
- Patient name
- Patient ID
- Instrument serial number
- Urine color
- Urine clarity
- Up to 2 header lines of customized alphanumeric text

To customize the printout, perform the following steps:

- At the Select Ready screen, touch Instrument Set Up. The Choose Settings screen displays.
- 2. Use the arrow keys to select **Instrument Settings**.
- Touch Select. The Instrument Settings screen displays.
- 4. Use the arrow keys to select **Printer Settings**.
- Touch Select. The Printer Settings-Included in print-out screen 1 of 4 displays.

 To select options, for example Operator Name, Serial Number, Patient Name, or Patient ID to include in the printout, touch the option button.

To remove a selected option, touch that option button again.

- Touch Next. The Printer Settings-Included in print-out screen 2 of 4 displays.
- To select options, for example, Color, Clarity, or Custom Information to include in the printout, touch the option button. To remove a selected option, touch that option button again.
- Select Next. The Printer Settings-Set Up Custom Header screen 3 of 4 displays.
- To include a custom header in the printout, touch Enabled.
 To exclude a custom header, touch Disabled.
- 11. To edit or create line 1 of a custom header, touch **Enter** Line 1.

The *Custom Header* screen displays.

12. Enter custom header text. Use the alphabetic keyboard to enter text.

To enter numeric text, touch 123.

13. Touch Enter. The Printer Settings-Set Up

Custom Header screen 3 of 4 displays.

14. To edit or create line 2 of a custom header, touch **Enter Line 2**.

NOTE: Each custom header line accepts up to 24 alphanumeric characters.

- Touch Next. The Printer Settings screen 4 of 4 displays.
- To print to the internal printer, touch Internal printer.
 To print to an external printer, touch External printer.
- If you selected Internal printer, to print sample interference notes, touch Enabled.
 To disable printing sample interference notes, touch Disabled.

NOTE: If you select External printer, sample interference notes are automatically sent to the printer.

18. Touch **Done** 3 times to return to the *Select Ready* screen.

NOTE: To use an external printer, you must connect and enable the Clinitek Status connector.

Quality Control

For QC instructions, refer to the *Clinitek Status Connect System Operator's Guide*.

5 Instrument Set Up Restore Default Settings

Restore Default Settings

This option lists the analyzer's original settings.

Use the up and down arrows to view the default settings.



Touch **Restore** in order to return the analyzer to the settings listed.

Restore	
Restore will reset Clinitek Status® to (~
LanguageEnglish Power SaveDisabled PrinterAutomatic SoundSound on UploadEnabled Baud rate115200 ParityNons	< </th
Exit Restore	

Touch **Yes** to confirm your decision or **No** to maintain the current settings of your analyzer. You will then return to the *Restore* screen. Select **Exit** to return to *Choose Settings*.

Men the original settings are restored, all results and patient data will be deleted from the memory.



5 Instrument Set Up Diagnostics

Diagnostics

This option lists 7 diagnostic tests which can be conducted.

- Display
- Touch Screen
- Printer
- Test Table
- Light Source
- Electronics
- Check Cassette

↑ These diagnostics tests should only be conducted when instructed by your local representative. The representative will lead you through the test procedures (see Appendix A for Local Technical Support Providers and Distributors).



Select

Test Table Light Source

Electronics

Done

Check Cassette

5 Instrument Set Up Sample Notes

Sample Interference Notes

To include Sample Interference Notes, perform the following steps:

- At the Select screen, touch Instrument Set Up. The Choose Settings screen displays.
 Use the arrow keys to select
- Sample Notes.
- 3. Touch **Select**. The *Notes Settings* screen displays.
- 4. To enable Sample Interference Notes, touch **Enabled**. To disable Sample Interference Notes, touch **Disabled**.
- 5. Touch **Done** twice to return to the *Select* screen.

System Information

This screen has information about your analyzer.



Touch **System Configuration** to view details of the current system configuration. This screen will show the current settings for all the items which can be changed within the **Input Settings** and **Instrument Settings** screens. Scroll through the list using the up and down arrows to view the details and print the information if required.

> If the printer paper roll needs replacing, Print will be disabled and you will be able to select Help to view instructions on replacing the printer paper (if you require further instruction see page 1 5, Loading the Printer Paper or Label Roll).

Select **Done** once to return to *System Information* screen and a second time to return to *Choose Settings* screen.



	C. C. C.	3:49 PM	05-21-	2003
Language			English	(
Power Save			Disabled	
Printer			Off	1
Sound		S	ound on	1
Upload			. Enabled	1
Baud rate			115200	-
Parity			None	N
Stop Bits				1
Test			Custom	
Operator ID			Enabled	V
Duint	-	Dana		

5 Instrument Set Up System Information

This completes the settings and choices within **Instrument Set Up**. Touch **Done** to return to the main **Select** screen.





Patient Results

Recall results enables you to search, view, and print patient test results. These results are stored on the analyzer. If you are using the Clinitek Status connector, you can also recall QC results.

At the *Select* Screen, touch **Recall Results** button.



The next screen displayed is **Select Test Results**.

The test results are in chronological order. The most recent test result is displayed at the top of the screen and is highlighted.

Use the up and down arrow keys to scroll through the list of patient tests and highlight the patient you would like to recall.

To view details of a patient result, touch the **Select** button.

The results will automatically be sent to the connected computer if this option is set up in the analyzer.

> If you require further instruction regarding how to set up the analyzer so the results are automatically sent to a computer see Section 5, Instrument Set Up.



6 Recall Results Patient Results

The first page of the patient's results is displayed on the screen.

If more than one page of results exists for the patient, then the **More** button will be present on the screen.



If you would like to print the results, touch the **Print** button. Any information that was entered in regard to the patient will be included on the printout.

When you are finished viewing the patient's results, touch **Done**.

You will return to the *Select Test Results* screen. Press Exit to return to the main *Select* screen.







Sending Data to a PC

To send data to a computer; if a computer has been connected to the analyzer, all results can be sent to the computer by touching the **Send all data** button.

If you are using a Clinitek Status connector, refer to the *Clinitek Status Connect System Operator's Guide*.



7 Troubleshooting

General Information

Your Clinitek Status[®]+ analyzer will operate properly if you follow the directions for using and cleaning the instrument.

Error Messages

Error messages will be displayed to help you when the Clinitek Status+ analyzer detects something which needs your attention. The format of this advisory information depends upon the importance of the problem and the mode in which the instrument is being used.

> To correct an error, see the List of Errors and Advisory Messages located at the end of this section.

Errors which Disable the Instrument

If the error is one which prevents the instrument from being used, all selection areas on the screen will be disabled. Taking the corrective action shown will remove the error alert screen and allow you to use the instrument.

Other Errors

There are certain errors which need to be corrected to enable testing of samples but do not prevent other instrument functions from being used. You will need to carry out the corrective action to enable testing.

Advisory Messages

Errors of less importance will be presented via a message on the main **Select** screen when this screen is next displayed. When you have taken corrective action, the message will be removed from the display. If more than one of this class of error occurs, clearing one message will enable the next to be displayed in order of importance to a user.

Results Alert

If an error occurs during testing and the test cannot continue because of the error, this will be presented via the **Results Alert** screen. This will provide details of the error and show that the test has been cancelled. The test table will be extended so that the urinalysis strip or Clinitest[®] cassette can be removed.

7 Troubleshooting

Battery Power Icon



The battery icon indicates the power level of the battery. Power can be reduced while testing continues, with an advisory message displayed on the main **Select** screen. If battery level falls too low to power the analyzer, all selection areas on the display will be disabled until the batteries are replaced (if you require detailed instructions regarding how to change the batteries see Section 9, Cleaning and Maintenance).

Paper-out Icon



A paper-out icon appears in the top of the title bar when the printer paper/label roll needs replacing. An advisory message will be displayed on the main **Select** screen. Replace with new paper or label roll as instructed in Section 1, Loading the Printer Paper or Label Roll.

Dashes in Displays

Dashes are displayed in the *Results* screens and on printouts when no text has been entered for a field enabled in **Instrument Set Up**.

Dashes may appear next to Color and Clarity on test result printouts. This occurs when the instrument is powered by batteries. Color and Clarity are selected in the **Instrument Set Up**, but no selections have been recorded on the **Select Appearance** screens before time-out.

The time-out on these screens is designed to ensure that battery life is preserved. The Color and Clarity description may be added to the printout in writing if needed.

Irregular or Slow Movement of Test Table

If movement of the test table is irregular or slow, this may be caused by:

a) heavy buildup of dried urine on the test table. Clean the test table and insert as described in Section 9, Periodic Cleaning of Test Table.

b) low battery power. Replace the batteries as described in Section 9, Cleaning and Maintenance.

7 Troubleshooting

Calling for Assistance

If your Clinitek Status+ analyzer is displaying corrective actions for a detected problem, please carry out the displayed instructions before calling for assistance. If this does not correct the problem or no instructions are displayed, contact your local technical support provider (for contact information please see Appendix A, Local Technical Support Providers and Distributors).

If you are calling for assistance with a displayed error, please have the following items ready (this will assist your local representative to deal with your inquiry as quickly as possible).

- a) Error number
- b) Completed Problem Checklist (found at the end of this section).

For customer support, please contact your local technical support provider or distributor (for contact information please see Appendix A, Local Technical Support Providers and Distributors).

Warranty

Your Clinitek Status+ analyzer has a one-year warranty period. This warranty is designed to protect you from the cost associated with repairing systems that exhibit malfunctions due to defects in materials and/or workmanship during the warranty period.

The warranty period commences from the date that the instrument is received at your location. Use the Warranty Registration Card provided with the instrument to register your warranty.

To obtain assistance during the warranty period, please contact your local technical support provider or distributor.

Clinitek Status+ Analyzer: List of Errors and Advisory Messages

Error Code	Description	Action
E01	Low battery power	Replace the batteries: a) To view instructions on the display, touch the Error Report selection area, or b) To use the instructions in this manual, see page 9 7, <i>Changing Batteries</i> .
E02	Failure of calibration data	Contact your local representative (contact information is given in Appendix A).
E10 or E48	Loss of test results	1. Switch the instrument off by pressing the on/off button for 2 seconds. 2. Switch the instrument on again by pressing the on/off button. 3. Repeat the test.
E11	Failure of test table	1. Make sure that the test table is in place. Move the test table in or out of the instrument slightly to reposition the test table. 2. If the error remains, with the instrument powered on, unplug the power cord from rear of instrument and plug back in. Turn instrument on by pressing the gray power button. 3. If the error remains with the test table in place, contact your local representative (contact information is given in Appendix A).
E12	Failure of LED	Contact your local representative (contact information is given in Appendix A).
E20	Failure of clock	Contact your local representative (contact information is given in Appendix A).
E23	Low battery power	Replace the batteries: a) To view instructions on the display, touch the Error Report selection area, or b) To use the instructions in this manual, see page 1 2, <i>Installing Batteries</i> and/or page 9 7, <i>Changing Batteries</i> . If the battery level becomes too low to power the instrument, Error Code E01 will be displayed.
E24	No printer paper	Replace the printer paper a) See instructions on the inside of the printer paper compartment cover, or b) To view instructions on the display, touch the Error Report selection area, or c) To use the instructions in this manual, see page 1 4, Loading the Printer Paper or Label Roll.

Error Code	Description	Action
E25, E64 or E65	Failure of automatic calibration	Clean the calibration strip. If the error remains after cleaning, contact your local representative (contact information is given in Appendix A).
E27	Set Up failure	1. Switch the instrument off by pressing the on/off button for 2 seconds. 2. Switch the instrument on again by pressing the on/off button.
E28	Printer error	Lift the printer cover and push the paper holding arm back into position (see page 1 5, <i>Loading the Printer Paper or Label Roll</i> for location of paper holding arm).
E50	Incorrect strip type or tilted strip	Ensure that the strip type selected in Instrument Set Up is being used (see 5 24, <i>Select Urinalysis Test</i>). Check that the strip is placed correctly on the test table insert. If the correct type of strip is being used and the strip is placed correctly, check the instrument operation by running another test using: a) a yellow and clear sample, or b) Chek Stix® (see page 8 1, <i>Quality Control Testing</i>).
E52	Invalid barcode	Repeat the test using the correct Siemens cassette.
E53	Strip Test selected but cassette detected	Repeat the test using the Cassette Test routine (see page 4 6 or 4 19).
E54	Cassette Test selected but strip detected	Repeat the test using the Strip Test routine (see page 4 1 or 4 11).
E56	Incorrect size test table	Repeat the test using the correct test table (see page 4 1).
E57	Missing strip or cassette	Repeat the test ensuring that the strip or cassette is positioned on the test table (see page 4 1 or 4 6 for strip or cassette testing).

Error Code	Description	Action
E58	Misplaced strip	Repeat the test ensuring that the strip is correctly positioned on the test table (see page 4 3). If error remains and you are testing a urine dip strip, examine the test table insert to insure that the small, white line located near the tip of the strip (on strip side of insert) is present and not damaged. If this line is damaged or missing contact your local representative (contact information is given in Appendix A).
E59	Inverted strip positioned on the test table	Repeat the test ensuring that the strip is correctly positioned on the test table (see page 4 3).
E60	Tilted strip	Repeat the test ensuring that the strip is correctly positioned on the test table (see page 4 3).
E61	Dry strip	Repeat the test ensuring that the strip has been in contact with the sample (see page 4 2).
E62	Light Ingress	Contact your local representative (contact information is given in Appendix A).
E63	Failure to find end of strip	Repeat the test ensuring that the strip is correctly positioned on the test table (see page 4 3).
E67 or E68	Insufficient sample	A sample flow issue with the cassette test may have been detected. One or more of the test indicator lines may be missing or indiscernible from the background, or not enough sample was applied to the cassette. Repeat the test ensuring the pipette is correctly filled and the correct volume of sample is dispensed into the well of the cassette (see page 4 8).
E69	Strip quality problem	 When performing the quality check, the strip quality failed. This means that the strip was not shipped or stored in the proper humidity, temperature, or light conditions. 1. Remove the defective strip and discard. 2. Repeat the test ensuring the strip meets quality requirements. 3. Repeat the test using a new test strip.

Error Code	Description	Action
E03, E04, E05, E06, E07, E08, E21, E22, E90, E91, E92 or E93	Failure of computer software	Contact your local representative (contact information is given in Appendix A).



C	Clinitek Status+ Analyzer: Problem Checklist		
Se	erial Number		
In	stallation Date		
		YES	NO
1.	Have you reviewed the error messages on pages 7-4 to 7-7?		
2.	Please record any error messages that have been displayed:		
3.	Does the test table move out to the "load" position when the analyzer is first turned on?		
4.	If Question #3 is NO – ■ Is the power cord plugged into a live electrical outlet, into the transformer, and	_	_
	then into the analyzer?		
	In using batteries, are they fully charged and correctly placed in the analyzer?		
5.	Does the display show the <i>Select</i> screen or the <i>Results</i> screen as expected?		
6.	Does the test table move into and out of the analyzer?		
7.	Does a quality control solution give the expected result?		

7 Troubleshooting Problem Checklist

		YES	NO
8.	Is the name of the Siemens Healthcare Diagnostics urinalysis strip or Clinitest immunoassay cassette shown on the display the same as the product being used?		
9.	Does the display or printout show the correct test names and expected results?		
10.	Is the white calibration bar on the test table dirty, scratched, or damaged?		
11.	Additional problem observations, please describe:		
${f 8}$ Quality Control Testing

If you are using a Clinitek Status connector, refer to the *Clinitek Status Connect System Operator's Guide.*

Quality Control for Urinalysis Strip Testing

Test negative and positive controls whenever a new bottle of reagent strips is first opened.

Water should **NOT** be used as a negative control. Contact your Siemens representative for additional information on performing QC testing.

Refer to the quality control product insert for expected values for each analyte.

Quality Control for Cassette Testing

It is recommended that quality control specimens be used with each new reagent box opened.

Water should **NOT** be used as a negative control. Contact your Siemens representative for additional information on performing QC testing.

hCG Please refer to the Clinitest[®] hCG cassette test package insert for the appropriate quality control material.

9 Cleaning and Maintenance

Cleaning

The test table insert and the test table should be kept clean if the analyzer is to operate properly.





Routine Cleaning of Test Table Insert

- 1 Remove insert and thoroughly clean.
- 2 Rinse both sides of the table insert under running water.
- 3 Dry and replace insert.

Periodic Cleaning of Test Table when Required

- 1 Remove the test table by pulling it slowly out of the analyzer. Lift the test table insert from the test table, drain the drip tray if necessary.
- 2 Wet a cotton-tipped stick with water and carefully clean test table (except for white calibration bar).





9 Cleaning and Maintenance Cleaning

3 Dry the test table thoroughly (except for the white calibration bar) with a soft cloth or lint-free tissue.

▲ Care should be taken not to scratch the white calibration bar. Instructions for cleaning the white calibration bar are given later in this section.



4 Reinsert the test table into the analyzer by holding the table at the end opposite the white calibration bar, with the white calibration bar facing upwards. Push the test table firmly but slowly, just over halfway into the analyzer.

 $\underline{\land}$ Do not push the test table fully into the analyzer as the test table may become jammed and prevent the use of the analyzer.

5 Replace the test table insert.



9 Cleaning and Maintenance Cleaning

Disinfecting the Test Table and Insert

1 Prepare one of the following solutions in a tall, narrow container (e.g., empty Multistix[®] bottle) to a depth of about 4 inches (10 cm):

> • Presept, Cidex, Theracide and Amphyl solutions - prepare according to product directions.

• Household Bleach (5% sodium hypochlorite) – this can be used either full strength or dilute with water to as much as 1:20 (i.e., mix 5 mL bleach with 95 mL water for a total of 100 mL).

A Rinse away all bleach residue, as remaining bleach will affect several of the reagent pad chemistries.

• **Isopropyl Alcohol** (70% to 85%) - this can be used full strength.

Any solutions other than those listed above may damage the test table and insert.

2 Place the insert and/or test table into the solution, making sure the white calibration bar on the test table remains above the liquid level.

> Be sure the solution does not come in contact with the white calibration bar. Do not cover the container while the test table is soaking.

- 3 Soak the table and insert for a minimum of 2 minutes and maximum of 10 minutes. Do <u>not</u> soak longer than 10 minutes.
- 4 Rinse the test table and insert thoroughly with water.
- **5** Dry with a soft cloth and replace test table and table insert in the analyzer (as described on the previous page).

Cleaning and Maintenance Cleaning

To enable vour Clinitek Status®+ analyzer to perform as intended and provide reliable test results, it is recommended that you regularly check the white calibration bar on the test table, and always check it after a strip jam.

In normal use, the white calibration bar should not become dirty or discolored.



BIOHAZARD Wear personal protective An equipment. Use universal precautions. Refer to Appendix H for recommended precautions when working with biohazardous materials.

Cleaning the White Calibration Bar

- 1 Remove the insert from the test table.
- 2 Remove the test table by pulling it slowly out of the analyzer.
- 3 Check the white calibration bar on the test table for dirt or discoloration.





9 Cleaning and Maintenance

4 If the white calibration bar is clean and unmarked, replace the table into the analyzer by holding the table at the end opposite the white calibration bar, with the white calibration bar facing upwards. Push the test table firmly but slowly, just over half way into the analyzer.

> ▲ Do not push the test table fully into the analyzer as the test table may become jammed and prevent the use of the analyzer.

5 Replace the test table insert.

6 If the white calibration bar is dirty or discolored, gently wipe and clean it with a new cottontipped stick or lint-free cloth wetted with distilled water.

▲ Care should be taken not to scratch the white calibration bar. Solvents of any kind must not be used to clean the bar.

- 7 Allow the calibration bar to air dry and then inspect the surface for dust, foreign material, scratches or scuffs. If the calibration bar cannot be cleaned or is still marked, obtain a new test table.
- 8 Reinsert the test table as described earlier in point 4.



Cleaning and Maintenance Cleaning

Always keep the outside of the Clinitek Status+ analyzer clean and free of dust.



BIOHAZARD Wear personal protective A equipment. Use universal precautions. Refer to Appendix H for recommended precautions when working with biohazardous materials.

- 1 Turn the analyzer off by pressing the on/off button for 2 seconds.
- 2 Wipe the outside (including the display) with a damp (not wet) cloth and a mild detergent.

▲ Do not use any type of solvent, oil, grease, silicone spray, or lubrication on the analyzer.

1 Do not spray the glass cleaner directly onto the screen. Do not use laboratory wipes, such as Kimwipes, since they may scratch the screen.

A Care should be taken to avoid liquid from entering the printer compartment.

Magnetic text The display may be disinfected using the same solutions as for the test table (see earlier in this section). Wipe the solution on and allow to remain for 10 minutes. Wipe clean using a clean cloth dampened with water, then drv.

9 Cleaning and Maintenance Changing Batteries

Changing Batteries

Battery-Powered Operation

The Clinitek Status+ analyzer is designed to let you carry out the maximum number of tests (approximately 100) from a set of batteries. To achieve this, the Power Save feature is always activated when the instrument is powered by batteries.

If the instrument is not used in 5 minutes when battery-powered, it will automatically power down.

A battery power icon will be shown in the top right corner of the title bar when the analyzer is being powered by batteries. The number of segments displayed represents the amount of power remaining in the batteries.

When power is reduced but testing can continue, an advisory message will be displayed on the main **Select** screen.

NOTE: The printout may be lighter if the analyzer is using battery power.

▲ If you do not change the batteries and the level becomes too low to power the analyzer, the error will become critical and all selection areas on the screen will be disabled until the batteries are replaced.



9 Cleaning and Maintenance Changing Batteries

Remove the test table from the analyzer. Next, place the analyzer on its side and remove the battery cover by pressing down on the tab and pulling out. Remove current batteries. Place 6 new AA-size batteries into the analyzer. Replace the battery cover and turn the instrument back onto its base.



10 Appendices Appendix A: Local Technical Support Providers and Distributors

Appendix A: Local Technical Support Providers and Distributors

Legal Information

To contact the legal representative for Siemens Healthcare Diagnostics within the European community, contact the Siemens Authorized Representative. To order supplies or replacement parts, or to obtain service, contact your local technical support provider.

Siemens Healthcare Diagnostics Authorized Representative

Siemens Healthcare Diagnostics Ltd. Sir William Siemens Sq. Frimley, Camberley, GU16 8QD UK

Origin: UK



Siemens Healthcare Diagnostics Inc. Tarrytown, NY 10591-5097 USA



Siemens Healthcare Diagnostics Ltd. Sir William Siemens Sq. Frimley, Camberley, GU16 8QD, UK

Siemens Healthcare Diagnostics Inc. 511 Benedict Avenue Tarrytown, NY 10591 5097 USA

Siemens Healthcare Diagnostics Pty Ltd 885 Mountain Highway Bayswater Victoria 3153 Australia

シーメンスヘルスケア・ダイアグノスティクス株式会社 東京都品川区東五反田 3-20-14 Siemens Healthcare Diagnostics

輸入

www.siemens.com/diagnostics

Appendix B: Tables of Results

Table 1English – Conv.Units – Conventional

Reagent Strip Tests

Test	Abbreviation	Units	Reported Results			
			Normal	System	Plus Sy	/stem
Glucose	GLU	mg/dL	Negative 100 250	500 >=1000	Negative Trace 1+	2+ 3+
Glucose (CT Malb 9*)	GLU	mg/dL	Negative 100 250	500 1000 >=2000	Negative Trace 1+	2+ 3+ 4+
Bilirubin	BIL		Negative Small	Moderate Large	Negative 1+	2+ 3+
Ketone	KET	mg/dL	Negative Trace 15	40 80 >=160	Negative Trace 1+	2+ 3+ 4+
Specific Gravity	SG		<=1.005 1.010 1.015	1.020 1.025 >=1.030	No Diffe	rence
Occult Blood	BLO		Negative Trace-lysed Trace-intact	Small Moderate Large	Negative Trace-lysed Trace-intact	1+ 2+ 3+
рН	рН		5.06.55.57.06.07.5	8.0 8.5 >=9.0	No Diffe	rence
Protein (Multistix PRO [®]) (CT Malb 9*)	PRO	mg/dL	Negative 15 30	100 300	Negative Low 1+	2+ 3+
Protein (All other urinalysis strips)	PRO	mg/dL	Negative Trace 30	100 >=300	Negative Trace 1+	2+ 3+
Urobilinogen	URO	E.U./dL	0.2 1.0 2.0	4.0 >=8.0	No Diffe	rence
Nitrite	NIT		Negative	Positive	No Diffe	rence
Leukocytes	LEU		Negative Trace Small	Moderate Large	Negative Trace 1+	2+ 3+
Albumin	ALB	mg/L	10 30	80 150	No Diffe	rence
Creatinine	CRE	mg/dL	10 50 100	200 300	No Diffe	rence
Albumin: Creatinine (Clinitek Microalbumin 2)	A:C	mg/g	<30 Normal 30 – 300 Abnormal	>300 High Abnormal	No Diffe	rence

Test	Abbreviation	Units	Reported Results		
			Normal	System	Plus System
Albumin: Creatinine (CT Malb 9*)	A:C	mg/g	Normal Dilute <30 Normal	30-300 Abnormal >300 High Abnormal	No Difference
Protein: Creatinine (Multistix PRO)	P:C	mg/g	Normal Dilute Normal 150 Abnormal	300 Abnormal >500 Abnormal	No Difference
Protein: Creatinine (CT Malb 9*)	P:C	mg/g	Normal Dilute Normal 300 Abnormal 1500 Abnormal	3000 Abnormal >=5000 Abnormal	No Difference

Cassette Test

Test	Abbreviation	Reported Results		
		Normal System		Plus System
Human Chorionic Gonadotropin	hCG	hCG Negative Borderline hCG level Test fresh sample in 48-72 hours	hCG Positive	No Difference

The results shown in shaded areas will be marked as positives, if "mark positive results" is selected in **Instrument Set Up**. They will be marked by asterisks when displayed, when printed and when the data is transferred to a host computer.

* Clinitek Microalbumin 9

Table 2English – S.I.Units – International (S.I.)

Reagent Strip Tests

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Test	Abbreviation	Units	Reported Results			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				Normal Sy	stem	Plus System	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Glucose			Negative	28	Negative	2+
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		GLU	mmol/L	5.5 14	>=55	Trace	3+
$\begin{array}{c crt Maib 9^{\circ}) & GLU & mmol/L & 5.5 & 5.5 & Trace & 3+ \\ 14 & \rightarrow = 110 & 1+ & 4+ \\ \hline \\ Bilrubin & BIL & Negative & Moderate & Negative & 2+ \\ \hline \\ Ketone & KET & mmol/L & Trace & 7.8 & Trace & 3+ \\ 1.5 & \rightarrow = 15.6 & 1.20 & No Difference \\ \hline \\ Specific Gravity & SG & (-1.05 & 1.020 & No Difference \\ \hline \\ Dccut Blood & BLD & Ery/\muL & Negative & Ca 25 & Negative & 1+ \\ pH & pH & frace-intact & Ca 200 & Trace-intact & 3+ \\ pH & pH & frace-intact & Ca 200 & Trace-intact & 3+ \\ pH & pH & frace-intact & Ca 200 & Trace-intact & 3+ \\ Protein & PH & g/L & Negative & 1.0 & Negative & 1+ \\ Protein & PH & g/L & Negative & 1.0 & Negative & 2+ \\ (CT Maib 9^{\circ}) & PRO & g/L & Negative & 1.0 & Negative & 2+ \\ (CT Maib 9^{\circ}) & PRO & g/L & Negative & 1.0 & Negative & 2+ \\ (Al other reagent strips) & PRO & g/L & Negative & 1.0 & Negative & 2+ \\ (Itrace intact & -3.0 & I+ & -2+ \\ (Al other reagent strips) & UBG & \mumol/L & 3 & -2 & 0.0 \\ No Difference & 0.3 & 1+ & -2+ \\ (Leukocytes & LEU & Leu/\muL & Negative & Ca 125 & Ne Difference & +3+ \\ (Leukocytes & LEU & Leu/\muL & Negative & Ca 125 & Ne Difference & +1+ \\ (Cr Maib 9^{\circ}) & A:C & mg/mmol & No Megative & Ca 125 & Ne Difference & +1+ \\ Negative & Positive & No Difference & +1+ \\ Negative & Ca 125 & Ne Difference & +1+ \\ Negative & 2+ \\ (Ca 15 & Ca 500 & Trace & 3+ \\ (CT Maib 9^{\circ}) & A:C & mg/mmol & No Difference & +3.0 \\ Albumin: Creatinine & CRE & mmol/L & 3 & +3.9 \\ Normal & High & Abnormal \\ Normal & High & Abnormal \\ Normal & High & No Difference & +3.0 \\ Normal & High & Abnormal & +1+ \\ Negative & 2+ \\ Namend & Namend & High & Na Difference & +3.0 \\ Namend & Namend & High & Na Difference & +3.0 \\ Namend & Abnormal & High & Abnormal & +1+ \\ Namend & Namend & +1+ \\ Na$	Glucose			Negative	28	Negative	2+
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	(CT Malb 9*)	GLU	mmol/L	5.5	55	Trace	3+
Billrubin BIL Negative Small Moderate Large Megative 1+ 2+ Ketone KET mmol/L Negative 2.4 3.9 Negative 2.4 Specific Gravity SG 1.5 >=15.6 1+ 4+ Specific Gravity SG 1.010 1.025 No Difference 1.4 Occult Blood BLD Ery/µL Negative Ca 25 Negative 1.4 pH 5.0 1.010 1.025 No Difference 1.4 1.5 pH Secondary BLD Ery/µL Negative Ca 25 Negative 1.4 pH So 8.0 So 8.0 So 1.6 1.7<	` '			14	>=110	1+	4+
KetoneNegative1+3+KetoneKETmmol/LNegative7.8Negative2+Trace7.81.5>=15.61+4+Specific GravitySG1.0101.020No DifferenceOccult BloodBLD $Ery/\mu L$ NegativeCa 25Negative1+Trace-lysedCa 80Trace-lysedCa 80Trace-lysed2+pH pH 5.0 8.0 6.5 8.0 6.5 8.0 pH pH pH 5.5 8.5No Difference 8 pH pH $9H$ $9/L$ Negative1.0Negative2+ pH pH $9/L$ $9/L$ 1.5 3.0 1.4 $2+$ $Potein$ $(Mutisik PR0^{\circ})$ PRO g/L Negative1.0Negative $2+$ $(Ald ther reagent strips)$ PRO g/L Negative1.0Negative $2+$ $(Ald ther reagent strips)$ PRO g/L Negative1.0Negative $2+$ $(Ald ther reagent strips)$ $Regative$ 1.0 Negative $2+$ $1+$ $3 Nitrite$ NITNegative 2.6 No Difference $3 3 1+$ $Iurobilinogen$ UBG \mumol/L Negative 2.125 Negative $2+$ $1 AlburninALBmg/L3.266No Difference3 3 1+IurobilinogenUBG\mumo$	Bilirubin	BII		Negative	Moderate	Negative	2+
KetoneKETmmol/LNegative Trace3.9Negative 2.42.4Specific GravitySG1.5>=15.61+4+Specific GravitySG1.0101.025No DifferenceOccult BloodBLDNegativeCa 25Negative1+Trace-instactCa 200Trace-instact3+3+pH 5.0 6.58.5No Difference3+pH 5.0 6.58.5No Difference3+pH 5.0 0.32+7-7-Protein (Mutistix PR0°) (CT Mab 9°)PROg/LNegative1.0NegativeProtein (Al other reagent strips)PROg/LNegative1.0Negative2+Urobilinogen UBGUBG μ mol/L3.266 1616>=131No DifferenceNitriteNITNegativePositiveNo Difference3+3+3+AlbuminALBmg/L3.266 16No Difference3+3+AlbuminALBmg/L1080 30150No Difference3+Albumin: Creatinine (CT Malb 9°)A:Cmmol/LNegativeCa 125Negative2+Albumin: Creatinine (CT Malb 9°)A:Cmg/mmol/L3.4 - 33.9 		DIL		Small	Large	1+	3+
KE1rrace7.8Irace7.8Irace3.4Specific GravitySG $1 \operatorname{race}$ 7.5 $1 \operatorname{race}$ 7.51.444Specific GravitySG $1 \operatorname{old}$ $1 \operatorname{old}$ $1 \operatorname{old}$ 1.025No DifferenceOccult BloodBLDEry/µLNegativeCa 20Negative14pHpH $5 \operatorname{old}$ 8.0 $6 \operatorname{cf}$ 8.0 $6 \operatorname{cf}$ $7 \operatorname{race}$ -lysed24pHpH $5 \operatorname{old}$ $8 \operatorname{old}$ $7 \operatorname{race}$ -lysed7.5No Difference $3 \operatorname{cf}$ Protein (Mutistix PRO ⁶) (CT Mab 9')PROg/LNegative1.0Negative $2 \operatorname{resc}$ Protein (Mutistix PRO ⁶) (CT Mab 9')PROg/LNegative1.0Negative $2 \operatorname{resc}$ Virbinogen LeukocytesUBG LEU $\mu mol/L$ $3 \operatorname{cf}$ $6 \operatorname{cf}$ $7 \operatorname{race}$ $3 \operatorname{cf}$ NitriteNITNegativeCa 125 No DifferenceNo Difference $3 \operatorname{cf}$ $3 \operatorname{cf}$ No DifferenceLeukocytesLEULeu/µLCa 15 Ca 10Ca 200 Trace $7 \operatorname{race}$ $3 \operatorname{cf}$ $1 \operatorname{race}$ $2 \operatorname{resc}$ AlbuminALBmg/L $1 \operatorname{cf}$ $3 \operatorname{cf}$ $3 \operatorname{cf}$ $3 \operatorname{cf}$ $3 \operatorname{cf}$ $3 \operatorname{cf}$ No Difference $3 \operatorname{cf}$ If containedCREmmol/L $4 \operatorname{cf}$ $4 \operatorname{cf}$ $3 \operatorname{cf}$ $3 \operatorname{cf}$ $3 $	Ketone			Negative	3.9	Negative	2+
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		KEI	mmol/L	Irace	7.8	Irace	3+
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Specific Crowity			1.5	>=15.6	1+	4+
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Specific Gravity	SG		1 010	1.020	No Difference	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		00		1.010	>=1.025		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Occult Blood			Negative	Ca 25	Negative	1+
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	o oodaa Diooda	BLD	Erv/uL	Trace-lysed	Ca 80	Trace-lysed	2+
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			5.1	Trace-intact	Ca 200	Trace-intact	3+
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	pН			5.0	8.0		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				6.5			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		Ha		5.5	8.5	No Difference	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				7.0	>-0.0		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				0.0	>=9.0		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Protein			Negative	1.0	Negative	2+
$\begin{array}{c crcmalb 9^{\circ}) & PRO & g/L & 0.15 & 3.0 & Low & 3+ \\ \hline 0.3 & 1+ & 1+ & 1+ & 1+ & 1+ & 1+ & 1+ & 1$	(Multistix PRO [®])					riogaaro	_
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	(CT Malb 9*)	PRO	g/L	0.15	3.0	Low	3+
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				0.3		1+	
	Protein			Negative	1.0	Negative	2+
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	(All other reagent	PRO	g/L	Trace	>=3.0	Trace	3+
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	strips)			0.3		1+	
NitriteNITNegativePositiveNo DifferenceLeukocytesLEULeu/µLNegativeCa 125Negative24AlbuminALBmg/L10801+14Albumin:Creatinine (Clinitek Microalbumin 2)CREmmol/L0.917.71.426.5No DifferenceAlbumin:Creatinine (Clinitek (CT Malb 9*)A:Cmg/mmol3.4 - 33.9 Abnormal3.4 - 33.9 HighNo DifferenceNo DifferenceAlbumin:Creatinine (CT Malb 9*)A:Cmg/mmolNormalAbnormal S.4.3.9No Difference	Urobilinogen			3.2	66		
NitriteNITNegativePositiveNo DifferenceLeukocytesLEULeu/µLCa 125Negative2+AlbuminALBmg/L1080No DifferenceCreatinineCREmg/L0.917.7Albumin:CreatinineCREmg/mmol3.4 - 33.9No DifferenceAlbumin:CreatinineA:Cmg/mmol3.4 - 33.9No DifferenceAlbumin:CreatinineA:Cmg/mmolNormalHigh AbnormalNo DifferenceAlbumin:Creatinine (CT Malb 9*)A:Cmg/mmolNormalAbnormal S.4 - 33.9No DifferenceA:Cmg/mmolNormalAbnormal S.4 - 33.9No DifferenceNo DifferenceA:Dumin:Creatinine (CT Malb 9*)A:Cmg/mmolNormal S.4 - 33.9Abnormal AbnormalNo Difference		UBG	µmol/L	16	>=131	No Difference	
NumeNITRegaineFoundNo DifferenceLeukocytesLEULeu/µLNegativeCa 125Negative2+AlbuminALBmg/L10801+3+Albumin: CreatinineCREmmol/L0.917.74.426.5No DifferenceClinitekA:Cmg/mmolNormalHigh AbnormalNo DifferenceNo DifferenceAlbumin: Creatinine (CI Malb 9*)A:Cmg/mmol3.4 - 33.9 AbnormalNo DifferenceAlbumin: Creatinine (CT Malb 9*)A:Cmg/mmolNormal Dilute S.4-33.9 AbnormalAbnormal High HighNo Difference	Nitrito			Negative	Positivo		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Nune	NIT		Negative	POSitive	No Difference	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Leukocytes			Negative	Ca 125	Negative	2+
AlbuminALBmg/L1080No DifferenceCreatinineCREmmol/L1080No DifferenceCreatinineCREmmol/L4.426.5No DifferenceAlbumin:Creatinine (Clinitek Microalbumin 2)A:Cmg/mmol <3.4 Abnormal>33.9 AbnormalNo DifferenceAlbumin:Creatinine (CT Malb 9*)A:Cmg/mmol <3.4 A:C>3.9 AbnormalNo DifferenceAlbumin:Creatinine (CT Malb 9*)A:Cmg/mmolNormal A:CAbnormal AbnormalNo Difference		LEU	Leu/µL	Ca 15	Ca 500	Trace	3+
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				Ca 70		1+	
Creatinine 0.9 17.7 Albumin:Creatinine (Clinitek Microalbumin 2) A:C mmol/L 4.4 26.5 No Difference Albumin:Creatinine (Clinitek A:C mg/mol <3.4	Albumin	ALB	mg/L	10	80	No Difference	
Creatining (Clinitick Microalbumin 2) CRE mmol/L 4.4 8.8 26.5 8.8 No Difference Albumin:Creatinine (Clinitek Microalbumin 2) A:C mg/mol 3.4 - 33.9 Abnormal >33.9 Abnormal No Difference Albumin:Creatinine (CT Malb 9*) A:C mg/mol Normal Dilute 3.4 - 33.9 Abnormal Abnormal >33.9 Normal Dilute 3.4 - 33.9 Abnormal No Difference	Creatinine			0.0	177		
Albumin:Creatinine (Clinitek Microalbumin 2) A:C mg/mmol S.8 Normal >33.9 Abnormal No Difference Albumin:Creatinine (CT Malb 9*) A:C mg/mmol S.4 Normal >3.9 Abnormal No Difference Albumin:Creatinine (CT Malb 9*) A:C mg/mmol Normal Dilute S.4 Abnormal Abnormal >33.9 High Normal Mg/mmol S.4 Normal >33.9 High No Difference	oreaunine	CRE	mmol/l	44	26.5	No Difference	
Albumin:Creatinine (Clinitek Microalbumin 2) A:C mg/mmol <3.4		0.12	E	8.8	20.0		
(Clinitek Microalbumin 2) A:C mg/mmol Normal High Abnormal Albumin:Creatinine (CT Malb 9*) A:C mg/mmol Normal Dilute <3.4 - 33.9 Normal Abnormal Normal Normal Dilute <3.4 - >33.9 Normal Normal High >33.9 Abnormal No Difference	Albumin:Creatinine			<3.4	>33.9		
Microalbumin 2) A:C mg/mmol Abnormal No Difference Albumin:Creatinine (CT Malb 9*) A:C mg/mmol 3.4 - 33.9 Abnormal Abnormal A:C mg/mmol S3.4 Abnormal Normal Dilute S3.4 Normal Abnormal Vormal High S3.4-33.9 No Difference	(Clinitek			Normal	High		
Albumin:Creatinine (CT Malb 9*) A:C mg/mmol Normal Dilute <3.4	Microalbumin 2)	A:C	mg/mmol		Abnormal	No Difference	
Albumin:Creatinine (CT Malb 9*) A:C Mormal mg/mmol Normal (3.4 Abnormal (3.4 Abnormal (3.4 Abnormal (3.4 Normal (3.4 Normal (3.4 Normal (3.4) Normal				3.4 - 33.9			
Albumin: Creatinine (CT Malb 9*) A:C Normal mg/mmol Normal 3.4-33.9 Abnormal >33.9 Normal High Abnormal	Alloursia Ora ati i			Abnormal	A la 19 19 19 19		
A:C mg/mmol Normal High 3.4-33.9 Abnormal	Albumin:Creatinine			Normal Dilute	Abnormal		
3.4-33.9 Abnormal		A:C	mg/mmol	Normal	>33.9 High	No Difference	
				3.4-33.9	Abnormal		

Test	Abbroviation	Unito		Reported	Results
	Appreviation	Units	Normal Syst	em	Plus System
Protein: Creatinine (Multistix PRO)	P:C	mg/mmol	Normal Dilute Normal 17.0 Abnormal	33.9 Abnormal >56.6 Abnormal	No Difference
Protein: Creatinine (CT Malb 9*)	P:C	mg/mmol	Normal Dilute Normal 33.9 Abnormal 170 Abnormal	339 Abnormal >=566 Abnormal	No Difference

Cassette Test

Test	Abbreviation	Reported Results			
		Normal System		Plus System	
Human Chorionic Gonadotropin	hCG	hCG Negative Borderline hCG level Test fresh sample in 48-72 hours	hCG Positive	No Difference	

The results shown in shaded areas will be marked as positives, if "mark positive results" is selected in **Instrument Set Up**. They will be marked by asterisks when displayed, when printed and when the data is transferred to a host computer.

* Clinitek Microalbumin 9



Table 3English – NordicUnits – Nordic Plus System

Reagent Strip Tests

Test	Abbreviation	Units	Reported Results			
			Normal Syste	em	Plus System	
Glucose			Negative	3+	Negative	2+
	GLU		1+	4+	Trace	3+
Glucoso			2+ Nogativo	31	1+ Nogativo	2+
(CT Malb 9*)	GLU		1+	4+	Trace	3+
(020		2+	5+	1+	4+
Bilirubin	BII		Negative	2+	No Difference	
	DIL		1+	3+		
Ketone	VET		Negative	3+	Negative	2+
	NE I		2+	4+ 5+	1+	3+ 4+
Specific			<=1.005	1.020	N. D'ff	
Gravity	SG		1.010	1.025	No Difference	
			1.015	>=1.030		
Occult Blood			Negative	1+	No Difference	
	BLD		+/- +/- Intact	2+	No Difference	
pН			5.0 6.5	8.0		
•	pН		5.5 7.0	8.5	No Difference	
			6.0 7.5	>=9.0		
Protein	550		Negative	2+		
(Mullisux PRO) (CT Malb 9*)	PRO		LOW 1+	3+	No Difference	
Protein			Negative	2+	Negative	2+
(All other	PRO		+/-	3+	Trace	3+
reagent strips)			1+		1+	
Urobilinogen			3.2	66		
	URO	µmol/L	16	>=131	No Difference	
Nitrite	NIT		Negative	Positive	No Difference	
Loukoovtos	INIT		Negativo	2+	Nogativo	2+
Leukocytes	LEU		1+	4+	Trace	3+
			2+		1+	-
Albumin	ALB	ma/L	10	80	No Difference	
Creatining		5	30	150		
Creatinine	CRE	mmol/l	0.9	26.5	No Difference	
			8.8	20.0		
Albumin:			<3.4	>33.9 High		
Creatinine	A.C	ma/mmol	Normal	Abnormal	No Difforance	
(Clinitek Microalbumin 2)	A.C	mg/mmoi	3.4 – 33.9 Abnormal		No Dillerence	
Wildrodabarriir 2)			Abhoimaí			
Albumin:			Normal Dilute	3.4-33.9		
(CT Malb 9*)	A-C	ma/mmol	<3.4	Abnormal	No Difforonco	
	A.0	ing/initio	Normai	-33.9 High	NO Dillerence	
				Abnormal		
Protein:			Normal Dilute	33.9		
Creatinine			N1	Abnormal		
(Multistix PRO)	P:C	mg/mmol	Normal	>56.6 Abnormal	No Difference	
			17.0	Abriorital		
			Abnormal			
Protein:	P:C	mg/mmol	Normal Dilute	339		
Creatinine			Normal	Abnormal		
			Abnormal	Abnormal	No Difference	
			170	7.07.00		
			Abnormal			

Cassette Test

Test	Abbreviation	Units	Re	ts	
			Normal System	n	Plus System
Human Chorionic Gonadotropin	hCG		hCG Negative Borderline hCG level Test fresh sample in 48 72 hours	hCG Positive	No Difference

The results shown in shaded areas will be marked as positives, if "mark positive results" is selected in **Instrument Set Up**. They will be marked by asterisks when displayed, when printed and when the data is transferred to a host computer.

* Clinitek Microalbumin 9

10 Appendices Appendix C: Specifications

Appendix C: Specifications

Power Required

110V AC \pm 20%, 45 - 65 Hz (US only) 220V AC \pm 20%, 45 - 65 Hz (Europe only) 240V AC \pm 20%, 45 - 65 Hz (UK only) 100V - 240V AC \pm 20%, 45 - 65 Hz (with in-line lead)

Battery Powered Operation

Size 6 AA alkaline batteries

Dimensions

Depth - 272 mm (10.7 inches) Width - 171 mm (6.7 inches) Height - 158 mm (6.2 inches)

Weight

Clinitek Status[®]+ instrument only (unpacked, without batteries or power supply) – 1.66 kg (3.65 lb)

Ambient Operating Temperature Range

18°C to 30°C (64°F to 86°F)

Ambient Operating Humidity Range

18% to 80% Relative Humidity (non-condensing)

Optimum Operating Temperature Range

22°C to 26°C (72°F to 79°F)

Optimum Operating Humidity Range

35% to 55% Relative Humidity (non-condensing) Optimum ranges insure that the reagent results are optimized for performance. At temperatures under 22°C (72°F), urobilinogen and leukocyte results may be decreased, and at temperatures above 26°C (79°F), increased.

Altitude: 2000 m (6562 ft)

Installation Category: II

Pollution Degree: 2

Instrument Memory

950 Patient test results 200 Patient details (Patient's Name and/or Patient Identification)

Safety Standards

The Clinitek Status+ analyzer is classed as a Class A computing device in accordance with Part 15 of FCC Rules.

10 Appendices Appendix C: Specifications

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The instrument is listed by the Underwriters' Laboratories (UL) and the Canadian Standards Association (CSA) as certified and complies with the safety standards specified in UL 61010A-1 and CSA-C22, No. 1010.1.

The instrument complies with the protection requirements of EN 61010-1, EN 50082-1 January 1992, EN 50081-1 January 1992, and the safety specifications of IEC 61010-1 A2 1995.

The instrument is certified as meeting the EMC requirements and safety specifications of the In Vitro Diagnostic Directive (98/79/EC).

10 Appendices Appendix D: Instrument Default Settings – English

Appendix D: Instrument Default Settings – English

Password protection not set

Input Settings Quick Test

Operator Name Disabled

Keyboard Priority Alphabetic

Entry of Patient's Name Disabled

Entry of Patient ID Disabled

Include Patient's Name or ID in Results Patient's Name

Last Operator Name Disabled

Sample Appearance Disabled

Custom Data Entry Disabled

Date Format MM-DD-YYYY **Time Format** 12 hour

Results Format Units Selection Conventional

Plus System Disabled

Mark Positive Results Disabled

System Settings Printer Automatic

Power Save Disabled

Sound On

Contrast Setting 0 (zero)

Connectivity Allow Results to be Sent to PC Enabled

Instrument Serial Number in Patient Records Disabled

10 Appendices Appendix D: Instrument Default Settings – English

Baud Rate 115200

Parity

None

Stop Bits 1 (one)

Urinalysis Test Selected Multistix[®] 10 SG

Sample Notes Enabled

Authorized Operator Disabled

Appendix E: System Overview & Principles

Description of Optical System

The optical system consists of six light emitting diodes, a light guide, a mirror, a lens and a detector. Light from the LEDs travels along the light guide and is reflected off the calibration bar, strip or cassette onto the mirror. It is then directed through an aperture on the lens, from where it is focused onto the detector. The light intensity detected is converted into electrical impulses, which are processed by the instrument's microprocessor and converted into clinically meaningful results.

When carrying out analysis on a urinalysis strip, the test table positions strip pads in the "read area". The light reflected at specific wavelengths (470 nm, 525 nm, 565 nm, 625 nm, 660 nm and 845 nm) from the test pad is dependent upon the degree of color change in the pad and is directly related to the concentration of the particular constituent in the urine. The analyzer's optical system images the entire strip (i.e., all reagent pads at once). When using a Clinitest immunoassay cassette, the detector will scan the "read area" for the test, reference and control lines that form after urine has been applied. The reference and control lines will always form whereas the test line will only form if hCG is present in the sample.

Description of Internal Checks

When the analyzer is first turned on, the instrument performs a series of electronic, signal and memory checks, as well as ensuring there is sufficient battery voltage to operate the instrument (if powered by batteries).

Each time a urinalysis strip is read, the instrument positions the table correctly and checks the electronics and signals. It then takes reference readings off the white calibration bar on the test table. The readings are taken at all six wavelengths and are then used to calculate the sample readings.

The table and test strip are pulled into the instrument after the correct placement of the test strip is confirmed. The table then moves completely into the instrument closing the shutter. All test pads are read simultaneously at all six wavelengths. The test and reference readings are then used to determine presence and/or amount of each constituent in the urine sample.

Each time a cassette is read, the instrument positions the table correctly and checks the electronics and signals. It then takes reference readings of the white calibration bar on the test table. The readings are taken at two wavelengths (525 nm and 845 nm) and are then used to calculate the sample readings.

The table and cassette are pulled into the instrument where the presence of the cassette is confirmed. The table then pulls completely into the instrument closing the shutter and the cassette "read area" is scanned at two wavelengths. The test and references readings are then used to determine presence or absence of hCG the urine sample.

Differences between the Human Eye and Instrumental Optics

There are inherent differences between the colors that are perceived by the human eye and that are detected by any instrument optical system. The human eye is capable of detecting minute differences in shade and very small areas of color; whereas instrument optical systems are less sensitive to such small changes. Conversely, instrument optics are capable of detecting certain colors that are masked by or blended with other colors to the human eye.

For this reason, exact agreement between visual results and instrument results might not be found. However, agreement is generally within one visual color block or reported level and is equal to or better than the agreement between two visual readers.

Guidance a	nd manufacturer	's declaration – electromagnetic emissions
The Siemens Clinitek customer or the u	Status® is intended f iser of the Clinitek Sta	or use in the electromagnetic environment specified below. The atus® should assure that it is used in such an environment.
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The Clinitek Status® uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class A	The Clinitek Status® is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used
Harmonic emissions IEC 61000-3-2	Class A	for domestic purposes.
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

The Siemens Clinit customer or t	ek Status® is inten he user of the Clinit	ded for use in the electro ek Status should assure	magnetic environment specified below. The that it is used in such an environment.
immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV differential mode	±1 kV differential mode	Mains power quality should be that of a typical commercial or hospital environment.
	±2 kV common mode	±2 kV common mode	
Voltage dips, short	<5 % U⊤	<5 % U7	Mains power quality should be that of a typical
interruptions and voltage variations	(>95 % dip in U ₁) for 0,5 cycle	(>95 % dip in U ₇) for 0,5 cycle	commercial or hospital environment. If the user of the Clinitek Status requires continued operation during power mains interruptions, it
on power supply input lines	40% U ₁	*40% U+	is recommended that the Clinitek Status be
IEC 61000-4-11	(60% dip in U ₁) for 5 cycles	(60% dip in U _τ) for 5 cycles	or a battery.
	70 % U _T	70 % UT	
	(30% dip in U ₁) for 25 cycles	(30% dip in U _T) for 25 cycles	
	<5% Ur	<5% U1	
	(>95 % dip in U _τ) for 5 sec.	(>95 % dlp in Ur) for 5 sec	*Note: Siemens should not provide the 100-240V supply for operation at 100V,
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	Not Applicable	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

The Siemens Clin customer or	itek Status® is intend the user of the Clinite	ed for use in the k Status should	electromagnetic environment specified below. The assure that it is used in such an environment.
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2,5 GHz	3∨ 3V/m	Portable and mobile RF communications equipment should be used no closer to any part of the Clinitek Status including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d=1.2\sqrt{P}$ $d=1.2\sqrt{P}$ 80 MHz to 800 MHz $d=2.3\sqrt{P}$ 80 MHz to 2.5 GHz Where <i>P</i> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <i>d</i> is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey. Should be less than the compliance level in each frequency range. ³ Interference may occur in the vicinity of equipment marked with the following symbol:
NOTE 1 At 80 MHz and NOTE 2 These guideline	I 800 MHz, the higher freque s may not apply in all situat	ncy range applies. ions. Electromagnet	c propagation is affected by absorption and reflection from
NOTE 1 At 80 MHz and 1 NOTE 2 These guideline structures, objects and p * Field strengths from fit radio, AM and FM rad environment due to fo location in which the 6 to verify normal opera relocating the Climitek	800 MHz, the higher freque is may not apply in all situat ecple. Xed trensmitters, such as b is broadcast and TV broad ced RF transmitters, an elect Zinitak Status is used exce tion. If abnormal performan Status.	ncy range applies. ions. Electromagnet ase stations for radic cast carnot be predi tromagnetic site sur eds the applicable R ce is observed, addi	ic propagation is affected by absorption and reflection from (cellular/cordless) telephones and land mobile radios, amateil ted theoretically with accuracy. To assess the electromragneli tey should be considered. If the measured field strength in the F compliance level above, the Clinitek Status should be obser- tional measures may be necessary, such as reorienting or

Recommended separation distances between portable and mobile RF communications equipment and the Siemens Clinitek Status®

The Clinitek Status is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Clinitek Status can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Clinitek Status as recommended below, according to the maximum output power of the communications equipment.

Rated maximum	Separation distance according to the frequency of transmitter m						
output power of transmitter W	150 kHz to 80 MHz $d=1.2\sqrt{P}$	80 kHz to 800 MHz $d=1.2\sqrt{P}$	800 MHz to 2,5 GHz $d=2.3\sqrt{P}$				
0,01	0.12	0,12	0,23				
0,1	0.38	0.38	0.73				
- T	1.2	1.2	2.3				
10	3.8	3.8	7.3				
100	12	12	23				

For transmitters rated at a maximum output power not listed above, the recommended separation distance *d* in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer,

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people

10 Appendices Appendix F: Training & Educational Materials

Appendix F: Training & Educational Materials

Chek-Stix[®] Positive and Negative control strips are available for use in your training program for routine urine strip testing (for supply information see Appendix A, Local Technical Support Providers and Distributors). Follow the package insert for instruction on preparation and testing.

10 Appendices Appendix G: Sample Interference Notes

Appendix G: Sample Interference Notes

Sample Interference Notes inform the user about test results that can be affected by components detected in the urine sample.

Depending upon the strip and sample, Sample Interference Notes include the following:

- High SG may cause falsely lowered GLU results.
- Elevated GLU may cause falsely lowered LEU results.
- Visibly bloody urine may cause falsely elevated PRO results.
- High SG may cause falsely lowered LEU results.
- High pH may cause falsely elevated PRO results.

10 Appendices Appendix H: Safety Information

Appendix H: Safety Information

Protecting Yourself from Biohazards

This information summarizes the established guidelines for handling laboratory biohazards. This summary is based on the guidelines developed by the Centers for Disease Control, the Clinical and Laboratory Standards Institute, and the Occupational Safety and Health Administration.

Use this summary for general information only. It is not intended to replace or supplement your laboratory or hospital biohazard control procedures.

By definition, a biohazardous condition is a situation involving infectious agents biological in nature, such as the hepatitis B virus, the human immunodeficiency virus, and the tuberculosis bacterium. These infectious agents may be present in human blood and blood products and in other body fluids.

The following are the major sources of contamination when handling potentially infectious agents:

- needlesticks
- hand-to-mouth contact
- hand-to-eye contact

- direct contact with superficial cuts, open wounds, and other skin conditions that may permit absorption into subcutaneous skin layers
- splashes or aerosol contact with skin and eyes

To prevent accidental contamination in a clinical laboratory, strictly adhere to the following procedures:

- Wear gloves while servicing parts of the system that have contact with body fluids such as serum, plasma, urine, or whole blood.
- Wash your hands before going from a contaminated area to a noncontaminated area, or when you remove or change gloves.
- Perform procedures carefully to minimize aerosol formation.
- Wear facial protection when splatter or aerosol formation are possible.
- Wear personal protective equipment such as safety glasses, gloves, lab coats or aprons when working with possible biohazard contaminants.

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- Keep your hands away from your face.
- Cover all superficial cuts and wounds before starting any work.

Dispose of contaminated materials according to your laboratory's biohazard control procedures.

- Keep your work area disinfected.
- Disinfect tools and other items that have been near any part of the system sample path or waste area with 10% v/v bleach.
- Do not eat, drink, smoke, or apply cosmetics or contact lenses while in the laboratory.
- Do not mouth pipet any liquid, including water.
- Do not place tools or any other items in your mouth.
- Do not use the biohazard sink for personal cleaning such as rinsing coffee cups or washing hands.

Do not recap, purposely bend, cut, break, remove from disposable syringes, or otherwise manipulate needles by hand. Needlestick injuries may result.

References

1. Centers for Disease Control. Update: Universal precautions for prevention of transmission of human immunodeficiency virus, hepatitis B virus and other bloodborne pathogens in healthcare settings. 1988. MMWR, 37:377-382, 387, 388.

2. Clinical and Laboratory Standards Institute (formerly NCCLS). *Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline - Third Edition*. Wayne, PA: Clinical and Laboratory Standards Institute; 2005. CLSI Document M29-A3. [ISBN 1-56238-567-4].

 Federal Occupational Safety and Health Administration.
Bloodborne Pathogens Standard.
29 CFR 1910. 1030.

10 Appendices Appendix I: Clinitek Status®+ Intended Use and Indications for Use

Appendix I: Clinitek Status®+ Intended Use and Indications for Use

The Clinitek Status®+ Urine Chemistry Analyzer is a portable easy to use analyzer. It is designed to read only Siemens Reagent Strips for Urinalysis and Clinitest® hCG tests.

This analyzer is intended for the measurement of the following in urine: Albumin, Bilirubin, Blood (Occult), Creatinine, Glucose, Ketone, Leukocytes, Nitrite, pH, Protein, Protein-to-Creatinine Ratio, Albumin-to-Creatinine Ratio, Specific Gravity, Urobilinogen, and human Chorionic Gonadotropin (hCG).

These measurements are used to assist diagnosis in the following areas:

- Kidney Function
- Urinary tract infections
- Metabolic disorders (e.g. diabetes mellitus)
- Liver Function
- Pregnancy

Tests performed using the Clinitek Status®+ Analyzer are intended for *in vitro* diagnostic use only.

The Clinitek Status®+ Analyzer is intended for near patient (point-of-care) facilities and centralized laboratory locations.

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