

Savanna[®]

User Manual



Table of Contents

General Information	5
Contact Information	5
Savanna Quick Reference	6
Main Menu	6
Labels and Symbols	8
Icons	9
Abbreviations and Acronyms	11
Introduction	12
Intended Use and Description	12
System Components	12
User Types	12
Principle of Operation and System Display	13
Principle of Operation	13
Savanna Instrument	14
Savanna Cartridge	14
Light Ring Reference Guide	15
Warnings, Precautions, and Limitations	16
Limited Warranty	17
Cybersecurity	18
Safety Precautions.....	19
Initial Setup	23
Physical Setup.....	23
System Setup	24
Setup Wizard.....	25
Welcome.....	26
Import Configuration	26
Device Location.....	27
Preferences	28
Date/Time.....	29
Login Settings.....	31
User Settings.....	32
Password Settings	33
User List	34
Set Supervisor Password.....	34
Import User List	36
Manual Addition of Users	38

Add Additional Users – Errors and Warnings	39
QC Settings	40
Network Settings.....	40
No Network.....	40
Wired LAN	41
Wireless Network	42
LIS Connectivity	44
Sample Information	45
Print Setup.....	47
Add Printer	47
Save Configuration to USB	49
Using Savanna.....	51
Login and Logout	51
Home Screen	52
Please Wait Screen	53
Pending Alerts.....	53
Running a Test.....	54
LIS Orders	57
Unlocking Unordered Test Results When Running a Test.....	59
Test Result Screen	60
Running a QC Test	60
QC Test Failure.....	61
Check Cartridge QC.....	62
Main Menu Guide	62
Run Test.....	62
QC	63
QC Settings	63
Cartridge QC Lot Import/Export	64
Results	66
Patient Results	66
View Patient Results	66
Export Test Results.....	68
Unlock Unordered Test Results	68
View Amplification Curves.....	69
QC Results.....	70
Transmit Unsent Results	70

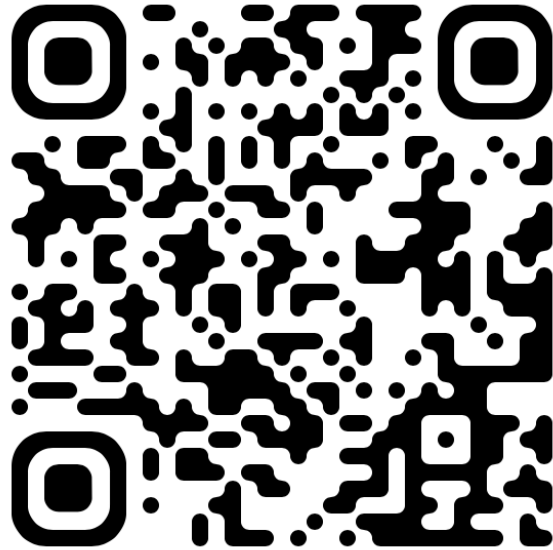
Setup Menu	70
Device Location	71
Preferences.....	72
Date/Time	72
Print Setup	74
User Management.....	77
User List: Search, Sort, and Filter	77
User List: Add New User.....	79
User List: Edit User.....	80
User List: Import User List.....	81
User List: Export User List	84
User Settings.....	85
Login Settings.....	86
Password Settings	87
Analyte Customization	88
Manage Bays	88
Sample Information.....	89
Setup Wizard.....	90
Network Settings	90
Network Settings.....	90
No Network	90
Wired LAN	91
Wireless Network	92
LIS Connectivity	94
Utilities Menu.....	96
Update Software.....	96
Back Up/Restore	97
Manage Assays.....	99
Import/Update Assays	99
Delete Selected Assays	100
Manage Languages	101
Add or Update Languages.....	101
Import/Export Configuration Settings	102
Import Configuration Settings	102
Export Configuration Settings.....	103
Change Password	104
View Event Log	105

Reset Options.....	107
Reset to Factory Default.....	107
Delete All Results	108
Help/About Menu	109
Help.....	109
Training.....	109
Legend.....	109
About.....	109
License Information	109
Shut Down	109
Instrument Maintenance and Cleaning.....	110
Cleaning, Contamination, and Maintenance Requirements.....	110
Other Environmental Conditions Requirements	111
Troubleshooting and Errors.....	112
Appendix: Savanna Technical Specifications.....	119
Revision History	120

General Information

Contact Information

For questions regarding the use of this product or to report a problem, visit guidelortho.com/techsupportcontact for contact information for your region. Otherwise, call 1.800.874.1517 (in the U.S.), email technicalsupport@guidelortho.com or contact your local distributor.

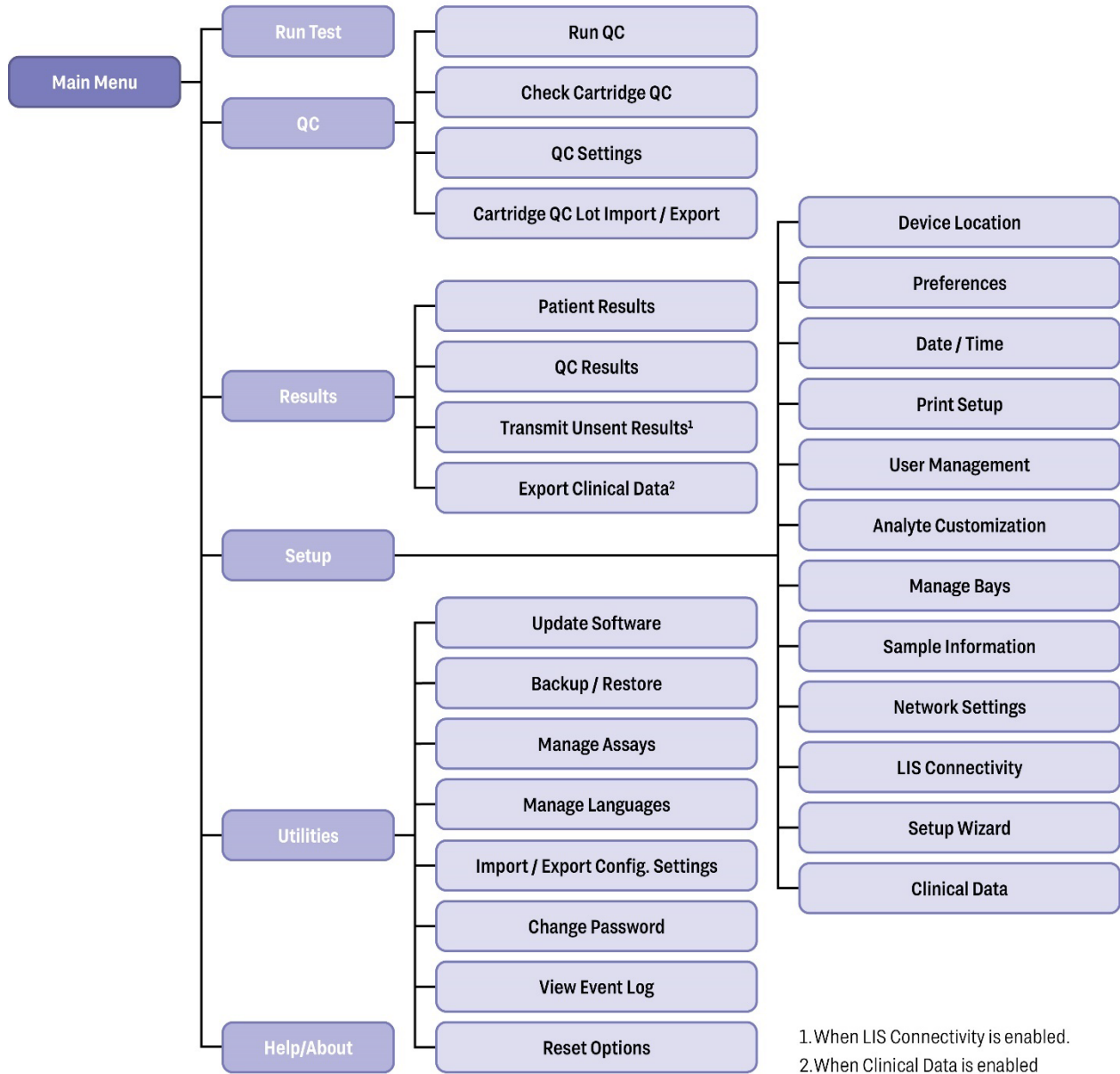


Savanna Quick Reference

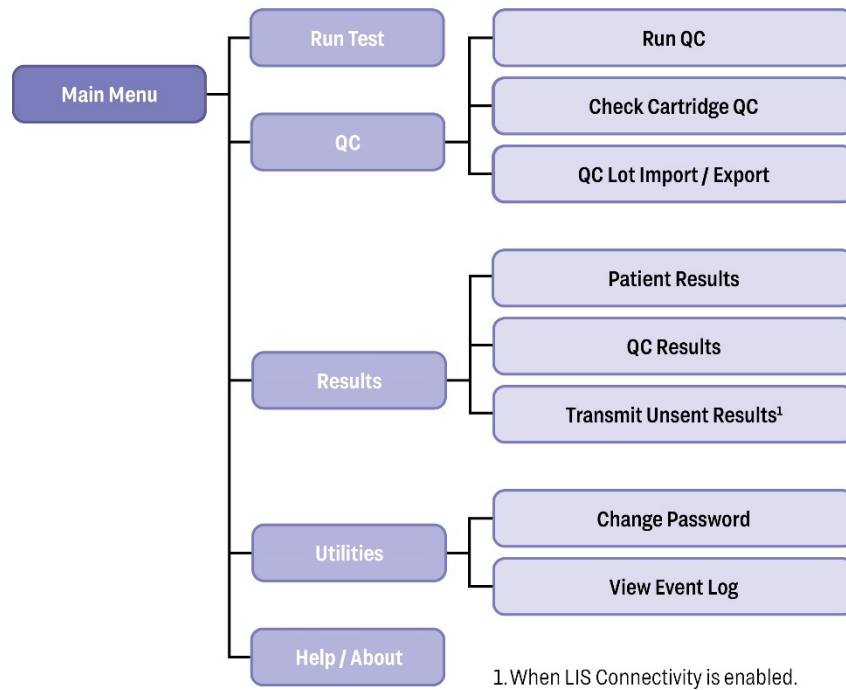
Main Menu

Main menu options vary by user role.

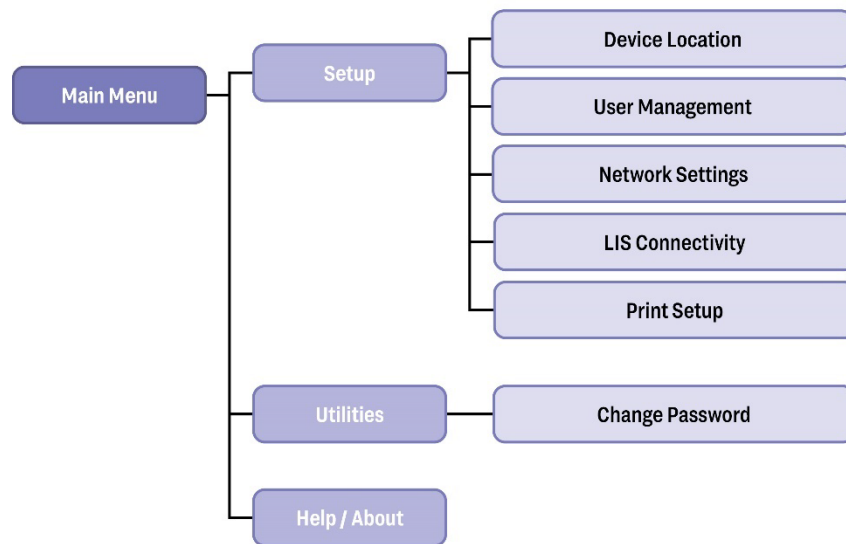
Supervisor Menu Structure









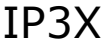




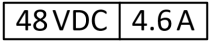






Operator Menu Structure



IT Admin Menu Structure








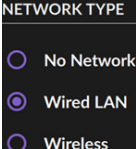








Labels and Symbols



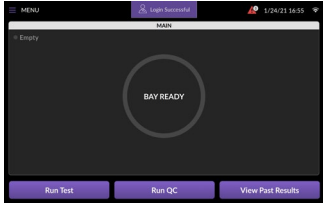
Label/Symbol	Label/Symbol Meaning
	Manufacturer
	Date of manufacture
	Authorized representative in European Community/European Union
	Consult instructions for use
	<i>Conformité Européene</i> (CE Marking of Conformity)
	Federal Communications Commission
	Ingress Protection rating
	<i>In vitro</i> diagnostic medical device
	WEEE Directive (Waste Electrical and Electronic Equipment)
	Operating temperature limitation
	<i>Technischer Überwachungsverein</i> certified (Technical Inspection Association)
	Volts Direct Current and Amperage ratings
	Catalog number
	Importer
	Direct Current power source
	USB port
	Ethernet Port
	Expansion bay connections (Expansion bays currently not available)

Additional information on symbols may be found at guidelortho.com/global/en/resources/symbol-glossary.

Icons

UI Element	Name	Function	Example of Use
	Drop-down list	Tap to display a list for user to choose from	Viewing list filter options, language options
	Text Field	Tap to open the on-screen keyboard to type text/other data	Entering a password or a search term
	+	Increases the value based on a predefined increment. Tap to increase once, hold to keep increasing	 Adjusting screen brightness
	-	Decreases the value. Tap to decrease once, hold to keep decreasing	
	Checkbox	Tap to change between selected and cleared	Enabling printing; selecting tests in a test panel
	Radio Button	Tap to select a button's corresponding available option	 Selecting a Network Type
	Dim Option (not activated)	Indicates option not activated/not available	Auto Send Results option dimmed/not available when LIS status is not enabled
 	Deactivated button (top) Activated button (bottom)	Indicates option deactivated (not available) or activated (available)	Wireless Settings button bright/available when Wireless network type is selected using the radio button, dim/deactivated when it is not
	"Spinbox" Up Arrow	Tap to increase the value once, hold to continue increasing	
	"Spinbox" Down Arrow	Tap to decrease the value once, hold to continue decreasing	

UI Element	Name	Function	Example of Use
	"Spinbox" Value Range	Swipe to move up or down the list of values	Setting Hour manually
	Globe Button	Tap to select a time zone	Central Standard Time
	Calendar Button	Tap to select a date	12/4/2020
	Warning/error red triangle	Tap to review list of pending alerts and to remove alerts	
	Test Progress	Indicates time remaining before test run is complete	
	<p>Test Result Symbols</p> <ul style="list-style-type: none"> + Positive Test Result - Negative Test Result X Invalid Test Result ~ Indeterminant Result 	One symbol is displayed next to each analyte when test run is complete, depending on test result	
	<ul style="list-style-type: none"> ✓ Passed QC Test Result X Failed QC Test Result 		
	The number of Test Orders from LIS Available	Tap to review test orders from LIS	
	Unordered test result that can be unlocked	Tap to unlock the unordered test result. A pop-up will request confirmation	

UI Element	Name	Function	Example of Use
	Unordered test result that cannot be unlocked	When a target test result cannot be unlocked, this gray lock icon is not interactive and this target test result cannot be accessed	
	Wi-Fi Connection Status	Review connection status displayed in top right corner on Savanna Home and other screens	

Abbreviations and Acronyms

Abbreviation	Explanation
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name System
GUI	Graphical User Interface
HL7	Health Level 7
IP Address	Internet Protocol Address
LAN	Local Area Network
LCD	Liquid-crystal display
LIS	Laboratory Information System
PCR	Polymerase Chain Reaction
PHI	Protected Health Information
POCT1	Communication standard for medical laboratory equipment that can be utilized at the hospital bedside, or at the "Point-of-Care"
QC	Quality Control
URI	Uniform Resource Identifier
USB	Universal Serial Bus

Introduction

Intended Use and Description

The Savanna system is a fully integrated, sample-to-result automated *in-vitro* diagnostic platform that performs real-time PCR (Polymerase Chain Reaction) tests by using the Savanna instrument and Savanna assay cartridges. After inserting the assay cartridge, the instrument performs sample and reagent preparation, nucleic acid extraction and amplification, real-time detection of RNA or DNA target sequence, and qualitative or quantitative result interpretation from a variety of sample types. This system is intended to aid in the diagnosis of the related diseases in human patients. For Prescription Use only in the United States.

For laboratory and professional near-patient use.

System Components

The following system components are supplied with Savanna:

- (1) Savanna Instrument
- (1) Power Adapter
- (1) Ethernet cable
- (1) User Manual
- (1) QuickStart Guide

Not supplied with Savanna:

- Printer (Part #1523700)
- Assay cartridges (contact QuidelOrtho or your local distributor for available assays in your region)
- Assay External Quality Controls

If you have any questions regarding the use of this product or if you want to report a test system problem, contact QuidelOrtho Technical Support or your local distributor.

User Types

There are three types of user roles available for Savanna: **Operator**, **Supervisor**, and **IT Admin**.

Operators can perform the following actions:


No special training of operators required.




Operator

- Power On The Device
- Run Tests With Patient Samples
- Review, Print, Transmit & Export Results
- View Event Log
- Run QC
- Check Lot QC
- Import/Export Cartridge QC Lot Information

Supervisors can perform all of the actions an operator can, as well as those listed below:

 Supervisor <i>Must have a valid log-in to access supervisor menu.</i>	<ul style="list-style-type: none">• Run Setup Wizard• Manage Users• Connect Printers• Configure Network• Customize Panels• Reset System• Update Software• Network Settings• LIS Connectivity• Export Clinical Data	<ul style="list-style-type: none">• Choose Login Options• Configure User & Password Settings• Set Localization Options• Back Up/Restore System• Delete Test Information (PHI)• Configure Sample Information• Transmit Unsent Results• Review Test Amplification Curves
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The **IT Admin** role is related to managing users and some IT-related tasks. It does not include any actions related to configuring or performing tests. The IT Admin can do the following:

 IT Admin	<ul style="list-style-type: none">• Configure Network• Manage Users• Reset Passwords	<ul style="list-style-type: none">• Configure LIS• Connect Printers• Manage User & Password Settings
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Principle of Operation and System Display

Principle of Operation

The Savanna Molecular Diagnostics (MDx) System, comprising of the Savanna Instrument and a Savanna Assay Cartridge is a rapid, random-access, sample-to-results molecular diagnostic platform. The Savanna instrument processes disposable, self-contained Savanna assay cartridges, which contain all necessary reagents, from sample purification to Real-Time polymerase chain reaction (PCR) for detection of targeted nucleic acid sequences from patient specimens. The system is capable of running multiplexed polymerase chain reaction tests to simultaneously detect up to 12 analytes from a single patient specimen.

The user logs into the Savanna Instrument and scans the cartridge barcode to bring up the respective assay workflow. The Graphical User Interface (GUI) guides the user through the sample loading step to the loading of the cartridge into the instrument. No further user handling is required. The Instrument controls all fluid movement in the cartridge through a series of valve actuation and air pressure combinations. During the test process, the system performs the following steps:

- The instrument delivers the sample and onboard internal control and extraction buffer into the primary processing area of the cartridge.
- Cell bound nucleic acid is released from cells by chemical and mechanical lysis and bound onto paramagnetic particles (PMPs).
- The instrument drains the remaining waste sample and rinses the beads through a series of wash steps to further remove any contaminants from the sample.
- The captured nucleic acid is released into an elution buffer, which is used to rehydrate on-board PCR reagents.
- The purified nucleic acid and PCR reagents are transferred to PCR chambers where Real-Time PCR occurs.

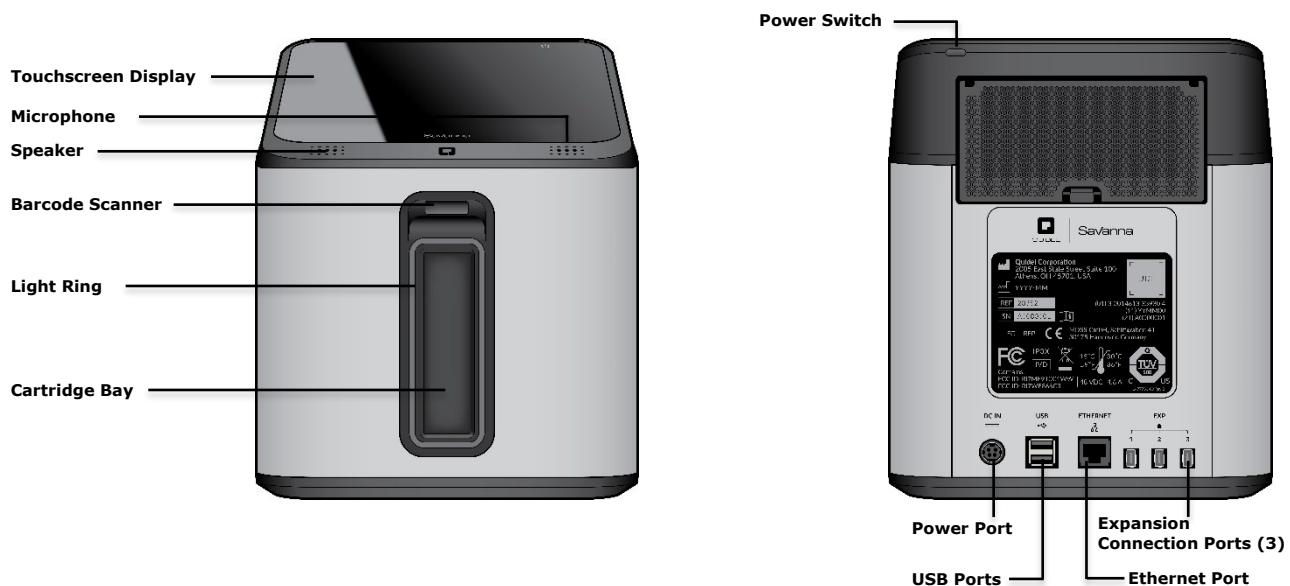
- A result analysis algorithm processes the fluorescence sample readings and assigns a qualitative or quantitative result based on established cutoffs in the assay method file.

The test system may be used for near patient (point-of-care) professional use. Laboratory and near patient use are both acceptable.

The user can visibly monitor bay availability, as well as the test progression by an LED light ring surrounding each bay door, visible from a distance.

Savanna Instrument

The Savanna instrument measures 10 inches (25 cm) in length by 8.25 inches (21 cm) in width. Savanna instrument includes a 7-inch (18 cm) color LCD touch display for interacting with the user interface. All input is entered via the touchscreen interface using the on-screen keyboard or via the internal barcode reader.



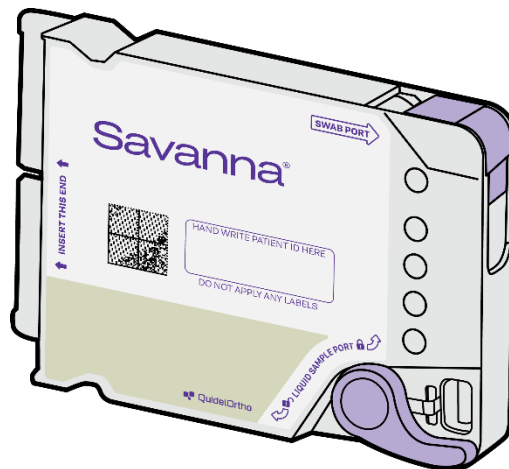
Savanna Cartridge

The single-use, self-contained Savanna assay cartridge holds all reagents necessary for sample preparation, nucleic acid amplification, and target sequence detection via real-time PCR in the Savanna instrument. Each cartridge contains a barcode that contains an identifier for the test to be run along with cartridge lot and expiry details and information for the results analysis algorithm. The assay cartridges can accept either liquid or swab samples:

- The liquid sample port and cap provide the users with the option to add a liquid sample to the cartridge.
- The swab port and cap allow the users the option to insert a swab sample directly into the cartridge.

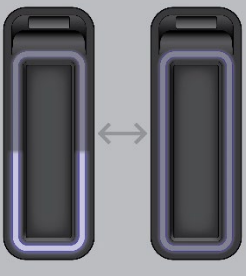

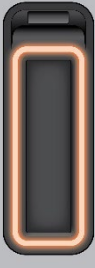
The Savanna cartridges are not supplied with the instrument system. To order the assay-specific cartridges, contact QuidelOrtho.

IMPORTANT: Refer to the assay-specific Package Insert for details on the available sample ports and how to load the sample.



Light Ring Reference Guide

	<p>Off</p> <p><i>No light ring activity.</i></p>	<p>Idle/No Status</p> <p>The light ring is off when the instrument is idle, has no active test underway, or any other status indication to report.</p> <p><i>No user action is required.</i></p>
	<p>Blinking White</p> <p><i>Abrupt white flashing.</i></p>	<p>Cartridge Load/Unload</p> <p>The light ring blinks rapidly as an indication that the bay door is opening.</p> <p><i>One of the following actions is expected:</i></p> <ul style="list-style-type: none"> • Insertion of a prepped cartridge (if starting a new test) • Removal of an ejected cartridge (if testing is complete)
	<p>Pulsing White</p> <p><i>Gently white pulsing that slowly alternates between low brightness and intense brightness.</i></p>	<p>Setup/Processing</p> <p>The light ring begins pulsing white when the user starts the setup of a new test, and continues until setup is complete. The light ring will also pulse white when the instrument is processing information, such as cartridge verification.</p> <p><i>Follow on-screen prompts as directed.</i></p>

	<p>Pulsing Purple</p> <p><i>A dim purple background with a distinct lower section of purple light alternating slowly between bright and dim.</i></p>	<p>Testing In Progress</p> <p>Purple is used to indicate that a test is in progress. The bright segment of light starts small at the bottom and “fills” the light ring throughout the test to show the approximate completed percentage of the total estimated duration.</p>
	<p>Solid White</p> <p><i>White light with constant brightness.</i></p>	<p>Testing Complete</p> <p>The light ring changes to solid white to indicate that the active test has completed, and the instrument is ready to eject the cartridge.</p> <p><i>Follow on-screen prompts to conclude any necessary wrap up.</i></p>
	<p>Solid Orange</p> <p><i>Orange light with constant brightness.</i></p>	<p>Error State</p> <p>The instrument has encountered an error and will not continue until the error has been remedied.</p> <p><i>Refer to on-screen information to determine the type of error and appropriate mitigation steps.</i></p>

Warnings, Precautions, and Limitations

- Always operate Savanna on a surface that is level, dry, and not in direct sunlight.
- Do not place patient ID labels on the surface of the cartridge, as it may interfere with the cartridge functionality.
- Do not place objects on Savanna.
- Never move Savanna while a test is in progress.
- Only use the Power Adapter that was provided with Savanna.
- Do not drop Savanna or this may result in damage to the instrument.
- Maintenance and decontamination of workspace and equipment should be performed according to established laboratory protocols and schedules and follow each test.
- QuidelOrtho does not require preventative maintenance for the instrument.

To reduce the risk of incorrect results:

- Savanna should only be used by trained operators.
- Do not use Savanna if there is an error message displayed that cannot be corrected.
- Refer to assay-specific package insert for details on specific tests.
- Do not use the test kit after the expiration date.
- For Supervisor role: recommend anyone using this has had prior training for use of instrumentation and training of other users under supervision.
- Savanna must be used within the operating temperature range required by the specific cartridge in use. Refer to the cartridge package insert for details.

To reduce the risk of Savanna damage:

- Savanna is designed for countertop operation.
- The Savanna instrument is not designed to withstand moisture, extreme humidity, or extreme temperatures.
- Savanna is not designed to withstand severe shock or vibration.
- Do not open or disassemble the instrument.

Limited Warranty

For specific warranty coverage and limitations, refer to the applicable contract under which the product was purchased, QuidelOrtho's standard warranty terms at [quidelortho.com/us/en/our-company/regulatory/termsofsale](https://www.quidelortho.com/us/en/our-company/regulatory/termsofsale), or contact your distributor or QuidelOrtho representative for assistance.

To reduce the risk of environmental contamination:

- Contact QuidelOrtho Technical Support for return or disposal of the instrument. See the **General Information** section for contact information.
- Clean Savanna according to the instructions in the **Instrument Maintenance and Cleaning** section prior to return or disposal.
- The Savanna instrument must be disposed of in a safe and compliant manner. Follow applicable federal, state, and local regulatory requirements to ensure that Savanna is not disposed of as municipal waste. Contact a certified waste broker for guidance on proper methods of disposal.
- For additional information on hazard symbols, safety, handling, and disposal of the instrument, refer to the Safety Data Sheet (SDS) located at techdocs.quidelortho.com.

NOTE: Medical equipment that may have potentially infectious materials (e.g., patient samples, blood, serum) must be properly decontaminated prior to disposal or recycling.

Cybersecurity

For specific cybersecurity instructions, refer to the *Cybersecurity Instructions for Use*.

- If a cybersecurity compromise of the Savanna is suspected, disconnect it from any network and immediately contact your institution's IT support for next steps. Possible restoration will require QuidelOrtho Technical Support at telephone: 800.874.1517, option 1, then option 1 (in the U.S.), 858.552.1100 (outside U.S.), or technicalsupport@quidelortho.com.
- Use strong passwords. Administrator can configure password requirements with minimum length (8 recommended minimum), upper/lowercase, and special characters. Do not share passwords. Entry of passwords are obscured on the display.
- Accounts are assigned by Administrator. Account expiration date is configurable by Administrator and, for example, allows for single day user access.
- Automatic session logout after period of inactivity (15 minutes maximum recommended) can be set by Administrator.
- Anti-malware, by design, only allows the software in the product to execute. Other software cannot be installed on the device. All device software is essential. No unused or unneeded services are allowed.
- Data in transit encryption with SSL/TLS is supported at current recommended strength from standards. LIS connections with HL7 are not encrypted and are intended for use on a customer secure network behind a firewall. Wireless connections also support data in transit encryption.
- Data at rest, including passwords, are encrypted.
- Network connections are secure if installed correctly with IP connection according to your institution's IT policy for secure connection.
- USB ports are used for described export/import of settings and data backup, or updates only. Otherwise, they are inactive and cannot be used for bootup (disabled) or for uploading other software.
- Software updates are installed by the customer Administrator as described and are available for registered users from MyQuidel.com or by USB from QuidelOrtho Technical Support. Savanna software has security measures that disallow improper updates and older unsupported versions.
- Savanna software is monitored for vulnerabilities and is addressed in software updates.
- Secure and appropriate data disposal is available for Savanna. Contact QuidelOrtho Technical Support for more information.
- Savanna is somewhat portable and may be located in a secure area with restricted access. Take precautions to prevent theft.

- Ensure data is backed up regularly. See instructions to export data to USB, or LIS can serve as remote storage. Data to be backed up include logs, user lists, and database of test information.

Failure to follow the precautions above will invalidate the warranty.

Safety Precautions

Savanna is designed to provide safe and reliable operation when used in accordance with instructions in this User Manual. If Savanna is used in a manner not specified in the User Manual, the protection provided by the equipment may be impaired. All warnings and precautions should be followed to minimize personal injury or damage to the instrument.



Warning!

- A Savanna cartridge is the only object that should be inserted into the instrument. Insertion of any other objects may result in damage to the instrument door and/or internal components. When inserting or removing the cartridge, allow the instrument to pull in or eject the cartridge, and keep fingers clear of the door.



Warning!

To reduce the risk of electrical shock:

- Unplug the instrument before cleaning.
- Only plug the instrument into an approved receptacle.
- Do not immerse the instrument in water or cleaning solutions.
- Do not attempt to open the enclosure.



Ultraviolet Radiation!

To reduce the risk of UV Exposure:

- Do not attempt to open or disassemble the instrument.
- Do not attempt to look inside the instrument while operating.

Failure to follow these warnings will invalidate the warranty.



Potential Biohazard!

To reduce the risk of biohazard:

- Dispose of used specimens in accordance with Federal, State, and Local requirements.
- Treat specimens and patient samples as potentially biohazardous material.

- Ensure the instrument is cleaned based on the instructions in the **Instrument Maintenance and Cleaning** section.
- Seek specific training or guidance to get experience with specimen collection and handling procedures.
- Use of Nitrile, Latex, or other gloves is recommended when handling patient samples.



Electromagnetic Compatibility (EMC) Compliance

Operating environment and EMC Warning Notes

- The Savanna has been tested for EMC compatibility for in accordance with the following standards:
 - IEC 60601-1-2:2014
 - IEC 61326-1:2021
 - IEC 61326-2-6:2021
- The Savanna has been tested for electrical safety in accordance with the following standards:
 - IEC 61010-1:2010, AMD1:2016
 - EN 61010-1:2010/AMD1:2019
 - CAN/CSA-C22.2 No. 61010-1-2012/AMD1:2018
 - UL 61010-1:2012/R:2019-07
- This medical device is neither life-sustaining nor coupled to the patient. It is suitable for operation healthcare and in facilities used for medical purposes except rooms/areas, in which EMC interference of high intensity may occur. The customer and/or the user should assure that this medical device is set up and used in an environment of the specified type and/or in accordance with the specifications of the manufacturer. This medical device uses RF energy for Wireless Communication (Wi-Fi) and internal functions.

Essential Performance

- The Savanna shall be able to complete tests successfully without alerts, or the operator is alerted that the system may have failed or test results are invalid. Electromagnetic disturbances could impact Savanna and may lead to test interruption or an invalid result. If such a disturbance occurs, the following may be required:
 - Retest with a new sample and a new test cartridge.
 - The unit may restart due the disturbance. The test will not complete and the operator will need to retest using a new cartridge.
 - The unit may shutdown requiring operator to intervene to turn the unit back on and retest using a new cartridge after a reset/turning system off/on again.

Portable RF Communication Devices

- The emissions characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 Class A). If it is used in a residential environment (for which CISPR 11 Class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.
- Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- Use of accessories and cables other than those specified or provided by QuidelOrtho could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of Savanna, including cables specified by QuidelOrtho. Otherwise, degradation of the performance of this equipment could result.
- This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.
- This equipment is designed for use in a professional healthcare facility environment. It is likely to perform incorrectly if used in a home healthcare environment. If it is suspected that performance is affected by electromagnetic interference, correct operation may be restored by increasing the distance between the equipment and the source of the interference.
- The electromagnetic environment should be evaluated prior to operation of the device.
- Do not use this device in proximity to sources of strong electromagnetic radiation (e.g., unshielded intentional RF sources), as these can interfere with proper operation.

Specifications of the Electromagnetic Compatibility Tests

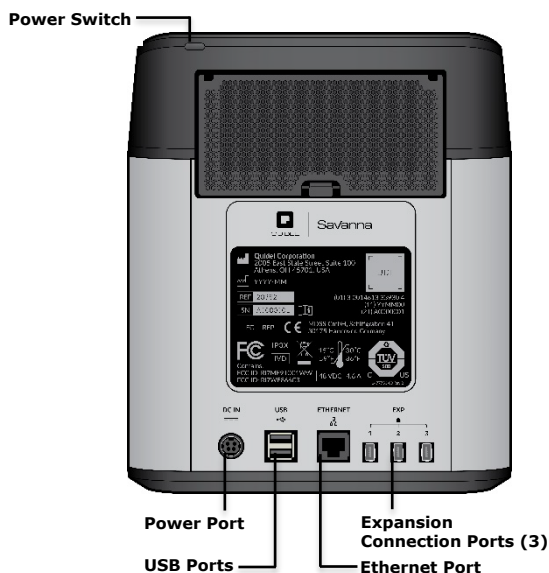
Requirement	Class/Test Level*	
Electromagnetic emissions		
Mains terminal disturbance voltage (Conducted Emissions) <i>CISPR 11/EN 55011[150 kHz – 30 MHz]</i>	Group 1 Class A	
Electromagnetic radiation disturbance (Radiated Emissions) <i>CISPR 11/EN 55011[30 MHz – 1000 MHz]</i>	Group 1 Class A	
Harmonic distortion <i>IEC/EN 61000-3-2</i>	-	
Voltage fluctuations and flicker <i>IEC/EN 61000-3-3</i>	-	
Immunity to electromagnetic interference		
Electrostatic discharge (ESD) <i>IEC/EN 61000-4-2</i>	Contact discharge: ± 2 kV, ± 4 kV, ± 6 kV, ± 8 kV Air discharge: ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV	
Radiated RF electromagnetic field <i>IEC/EN 61000-4-3 [80 MHz – 2,7 GHz]</i>	3 V/m	
Proximity fields from RF wireless communications equipment <i>IEC/EN 61000-4-3</i>	385 MHz	27 V/m
	450 MHz	28 V/m
	710 / 745 / 780 MHz	9 V/m
	810 / 870 / 930 MHz	28 V/m
	1720 / 1845 / 1970 / 2450 MHz	28 V/m
	5240 / 5500 / 5785 MHz	9 V/m
Electrical fast transient/burst AC Power Port DC Power Port Input and output cables <i>IEC/EN 61000-4-4</i>	± 2 kV ± 2 kV ± 1 kV	
Surges <i>IEC/EN 61000-4-5</i>	DC Power Port	± 0.5 kV (Line to Line) ± 1 kV (Line to Earth)
	AC Power Port	± 0.5 kV (Line to Line) ± 1 kV (Line to Earth)
	Signal/Control Port	± 1 kV (Line to Earth)
Conducted disturbances induced by RF fields <i>IEC/EN 61000-4-6</i>	3 V 6 V in ISM bands 6 V in amateur radio bands	
Power frequency magnetic field <i>IEC/EN 61000-4-8</i>	30 A/m	
Voltage Dips, Short Interruptions, and Voltage Variations Immunity <i>IEC 61000-4-11</i>	Dips: 0% of the rated voltage (100V and 240V) for 0.5 cycle and 1 cycle 70% of the rated voltage (100V and 240V) for 30 cycles at 60 Hz Interruptions: 0% of the rated voltage (100V and 240V) for 300 cycles at 60 Hz	

* There are no deviations or simplifications to IEC 60601-1-2.

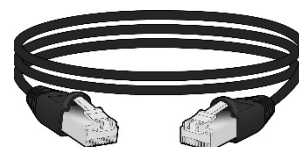
Initial Setup

Physical Setup

- Inspect the shipping container for obvious damage prior to opening. Confirm that all listed components are provided (see the **System Components** section) and are in good condition. In case of damaged or missing parts, contact QuidelOrtho Technical Support.
- Place Savanna on a solid surface. The unit is portable and can be moved to any suitable location for testing. Ensure the surface is stable, level, dry and free of obstructions. Avoid direct sunlight.
- Ensure the surface provides adequate space for Savanna. There must be room to access the connection ports at the back of the unit.
- Insert the Power Adapter into the DC IN power port at the back of Savanna with the flat portion of the cord facing up. Then plug the Adapter into an available electric outlet.
- Turn Savanna on using the power button located on the upper rear corner of the screen bezel. An initialization screen will appear on the display while the instrument performs initial startup testing when Savanna is turned on.
- The USB port, the Ethernet cable port, as well as three expansion ports are also located on the back of the Savanna instrument, as demonstrated below.
- If using the optional Dymo Label Printer, connect to Savanna by plugging into a USB port on the back of the instrument, shown below.



Power Adapter



Ethernet Cable

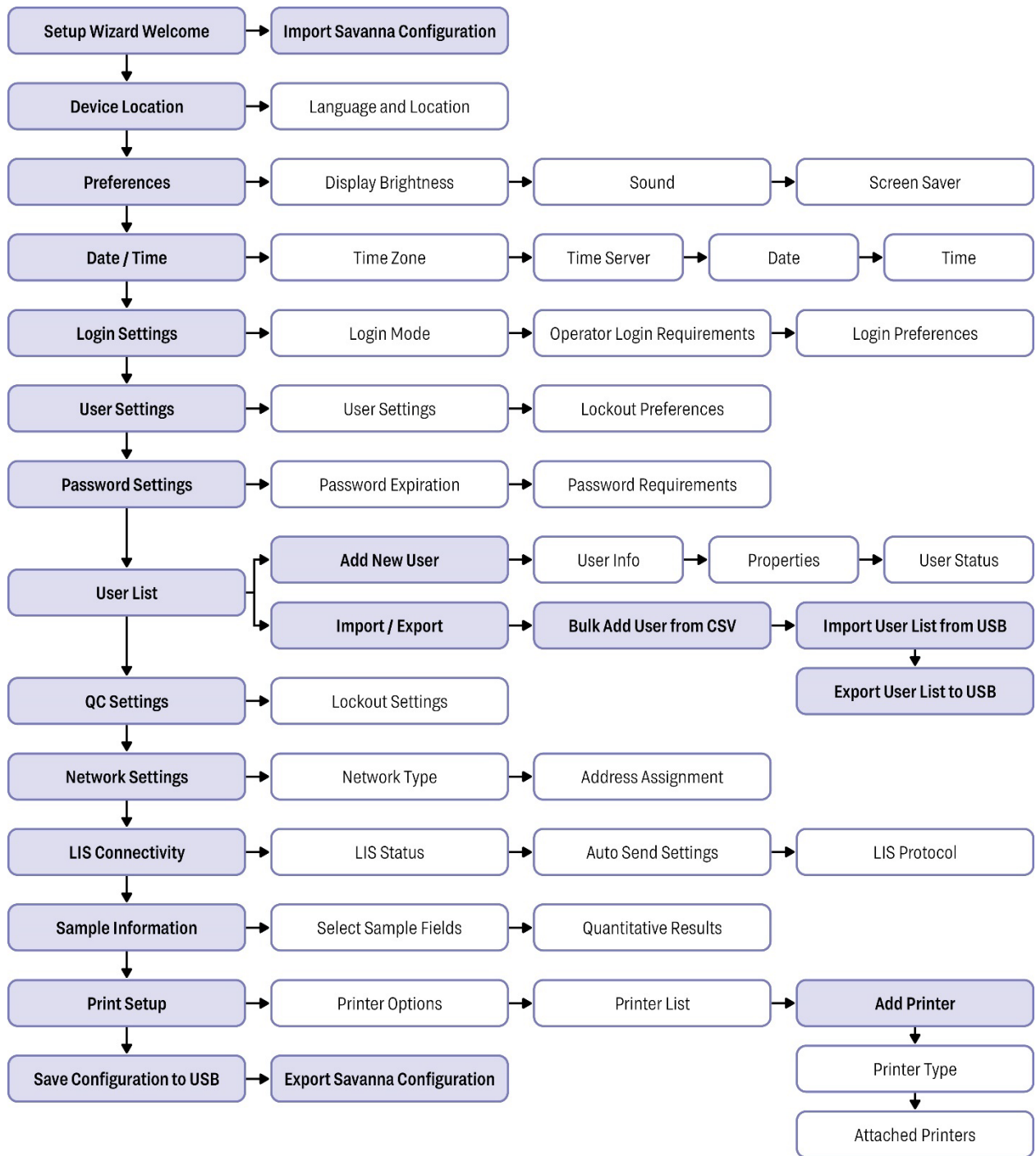
* Expansion connection is currently not available.

System Setup

The Savanna platform incorporates a wide range of features to support testing and reporting results, as well as many options to customize system appearance and operation.

The Setup Wizard will guide the user through a series of screens to set up Savanna. However, keep in mind that all of the options presented in the Setup Wizard are also accessible to “Supervisor” users at all times through the **Setup** and **Utilities** submenus (see the diagram below).

Each screen in the Setup Wizard has carefully chosen **default values**. It is possible to get through the initial Savanna setup relatively quickly by accepting these default values and leaving the performance of some tasks (e.g., addition of more users and/or printers, for later).


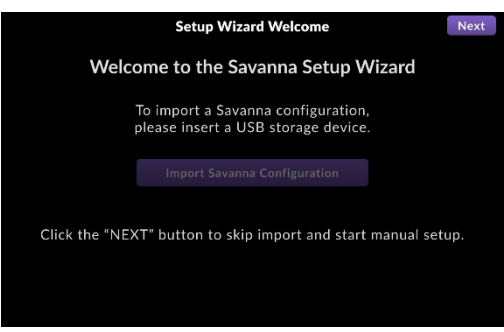


Setup Wizard

This section provides basic guidance for the initial Savanna setup using the Setup Wizard. For more detailed information regarding specific options, refer to the section of the manual dedicated to those features.

Each screen shows the **defaults**, assuming the user is running the Setup Wizard for the first time. The user can run the Setup Wizard at any time to make changes to suit individual needs, but the defaults shown here may not match the contents of the user's screen on subsequent runs of the Setup Wizard.


Welcome

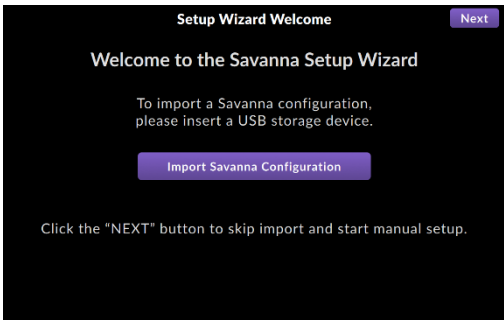

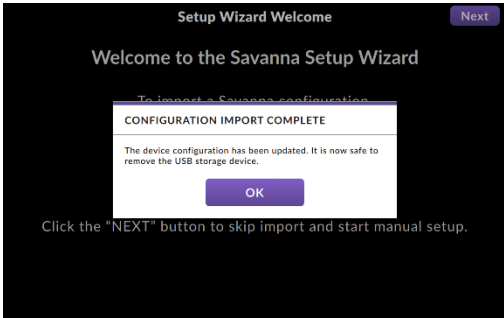


	<p>While the Savanna instrument is initializing, the screen shown here will be displayed.</p>
	<ul style="list-style-type: none">■ Tap Next on the Savanna Wizard Welcome screen to set up the instrument.

Import Configuration

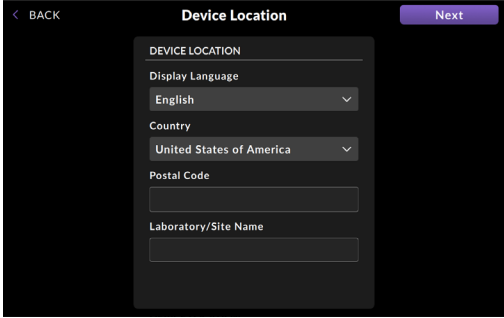

At the Welcome screen, the user may import a Savanna configuration that has been exported from another Savanna system and saved onto a USB storage device. Navigation through the **Setup Wizard** screens after the import are still required but imported preference settings will be present instead of the Savanna defaults.

If the user does not plan to import a Savanna configuration, he or she should tap **Next** to continue to the **Preferences** screen. Otherwise, the configuration can be imported using the instructions below:

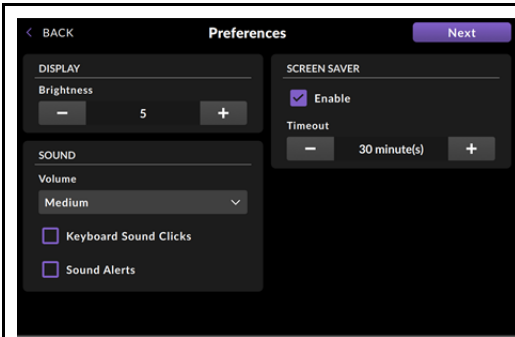
	<ul style="list-style-type: none">■ To import a setup configuration, insert a USB device into the Savanna USB port.■ The USB device should contain a previously exported Savanna setup configuration.
---	--

	<ul style="list-style-type: none"> ■ Inserting a USB device will activate the Import Savanna Configuration button. ■ Tap .
	<ul style="list-style-type: none"> ■ Tap  to acknowledge that the import is complete. ■ Tap  to continue to the Preferences screen.

Device Location

	<h3>Device Location</h3> <ul style="list-style-type: none"> ■ Choose the display language from the Display Language drop-down list. If the instrument is being used for the first time, without the import of another configuration, English is the only language available and is the default. ■ Choose the country from the Country drop-down list. ■ Enter the Postal Code using the on-screen keyboard. ■ Enter the Laboratory/Site Name using the on-screen keyboard. <ul style="list-style-type: none"> i The on-screen keyboard will automatically appear when the text input field is tapped. ■ Tap  to advance to the Date/Time screen.
---	--

Preferences



Display

- Adjust the display **Brightness** from 1 to 7 by touching the **-**/**+** controls on the Brightness spinbox.

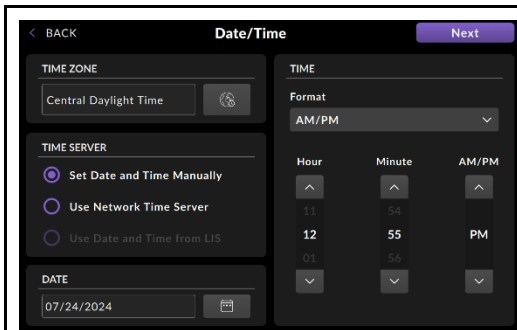
Screen Saver

- To disable the screen saver, tap to clear the **Enable** checkbox.
- To change the amount of idle time before the screensaver is activated, tap the **-**/**+** controls on the **Timeout** options.


Sound

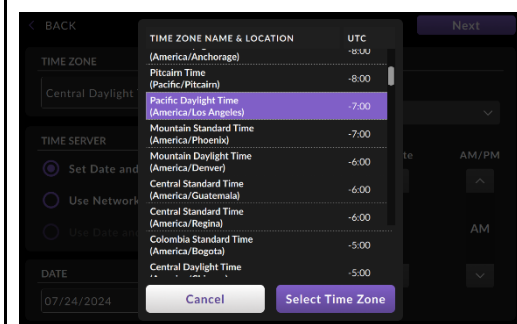
- Choose the sound level from the **Volume** drop-down list.
- Enable audible keystrokes for the on-screen keyboard by selecting the **Keyboard Sound Clicks** checkbox.
- Enable audible alerts by selecting the **Sound Alerts** checkbox.
- Tap **Next** to advance to the Date/Time screen.

Date/Time





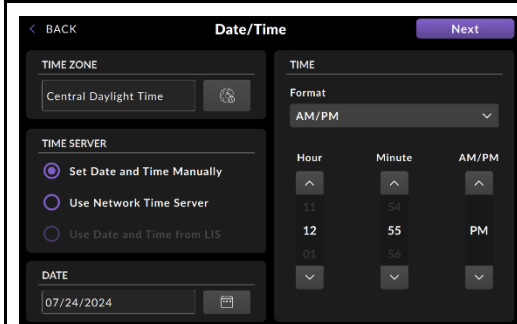
Time Zone

- Tap the  icon to open a scrollable list of time zone choices.



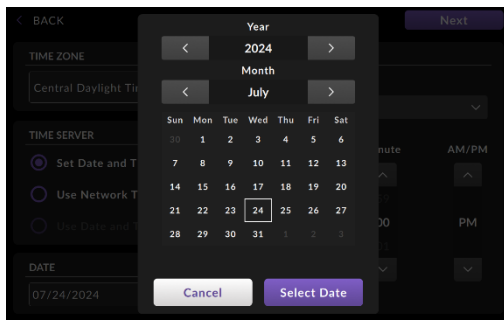
Time Zone

- Scroll through the list.
- Tap on the relevant time zone.
- Tap  to save the relevant time zone.
- Tap  to exit the list without saving.






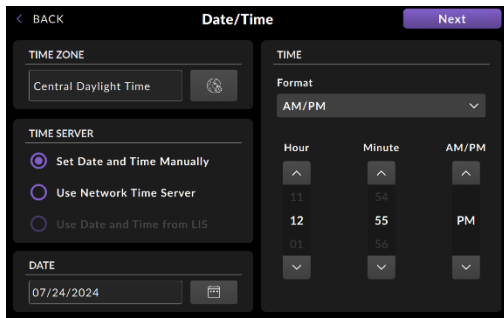
Time Server

- Tap the **Set Date and Time Manually** radio button to set the time and date manually.
- Tap the **Use Network Time Server** radio button to set the time automatically.
- Tap **Use Date and Time from LIS** to use the date and time from LIS.





Date

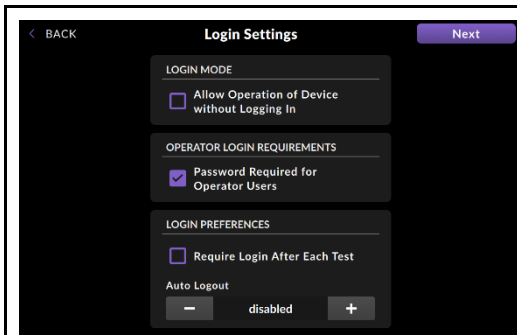
- Tap the  icon to select the date.
- Scroll through the **Year** list and tap on the relevant year.
- Scroll through the **Month** list and tap on the relevant month.
- Tap on the appropriate date to choose the date.
- Tap  to save changes.
- Tap  to exit without saving.



Time

- If setting time manually, choose the time **format** from the drop-down list.
- Select the Hour, Minute and AM/PM setting using the  controls.
- Tap  to advance to the **Login Settings** screen.

Login Settings



Login Mode

- Operators are required to login by default. To enable running tests without login, select the **Allow Operation of Device without Logging In** checkbox.

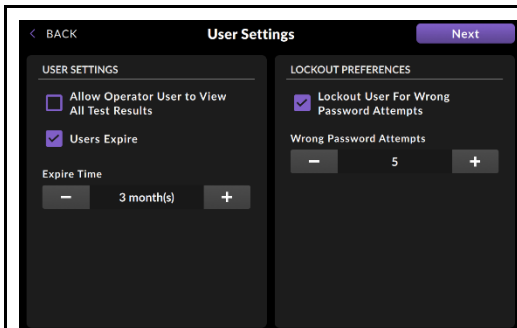
Operator Login Requirements

- Passwords are required for Operator users by default. To waive this requirement, clear the **Password Required for Operator Users** checkbox.

Login Preferences

- Select the **Require Login After Each Test** checkbox to make logging in after each test mandatory.
- Set the **Auto Logout** preference by using the **-/+** controls. If logout is enabled, the time before logout can be set within the range of 5 to 120 minutes.
- Tap **Next** to advance to the **User Settings** screen.

User Settings



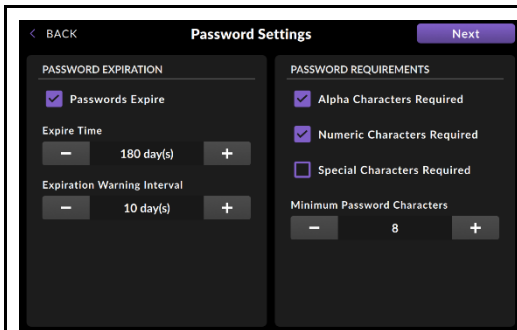
User Settings

- Select the **Allow Operator User to View All Test Results** checkbox, if necessary.
- Select the **Users Expire** checkbox to let user IDs expire.
- If the **Users Expire** checkbox is selected, adjust the **Expire Time** from 3 to 12 months using the **-/+** controls.

Lockout Preferences

- Select the **Lock Out User For Wrong Password Attempts** checkbox, if necessary.
- If the lockout option is selected, adjust the allowed number of **Wrong Password Attempts** from 3 to 15 by using the **-/+** controls.
- Tap **Next** to advance to the **Password Settings** screen.

Password Settings



Password Expiration

- Passwords Expire is selected by default. To allow for passwords that do not expire, clear the **Passwords Expire** checkbox.
- If passwords are set to expire, adjust the password expiration time frame by tapping the **-/+** controls on the **Expire Time** spinbox.
- Set the **Expiration Warning Interval** using the **-/+** controls on the spinbox.
 - i The Expiration Warning Interval determines when users will be warned that their password will expire soon. For example, if it is set to 10 days, they will receive a reminder 10 days before expiration.

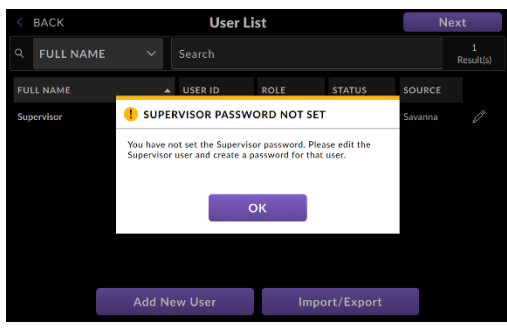
Password Requirements

- Alpha and numeric characters are both required by default. Special characters are not required by default.
- To remove the requirement for Alpha Characters, tap to clear the **Alpha Characters Required**.
- To remove the requirement for Numeric Characters, tap to clear the **Numeric Characters Required**.
- Tap to select the **Special Characters Required** checkbox to require special characters in passwords. Set the minimum password characters to a number between 5 and 28 by using the **-/+** controls on the **Minimum Password Characters** spinbox.
- Tap **Next** to proceed to the **User List** screen.

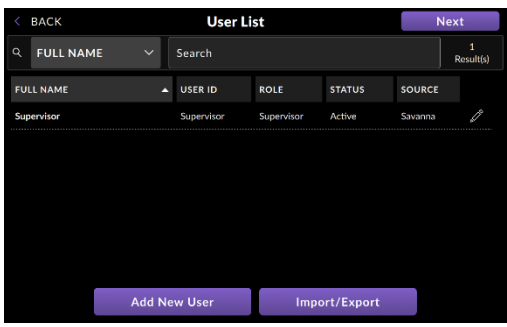

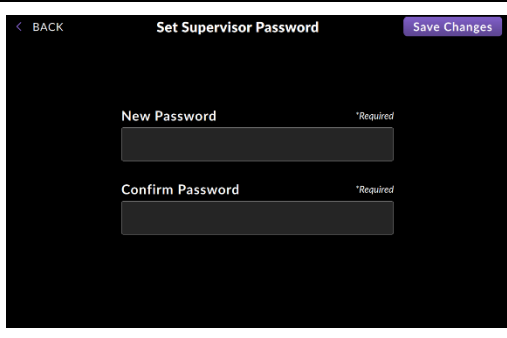
User List

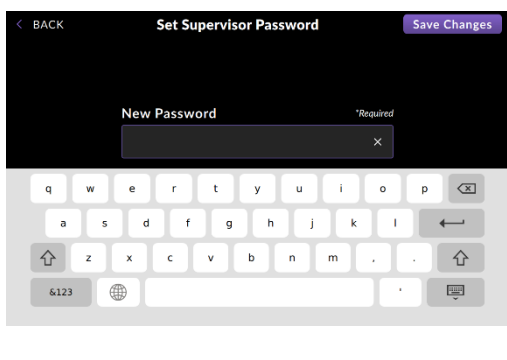
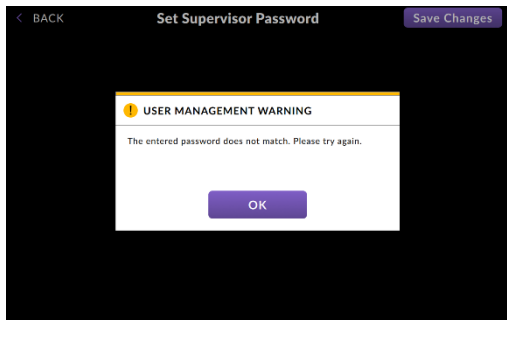
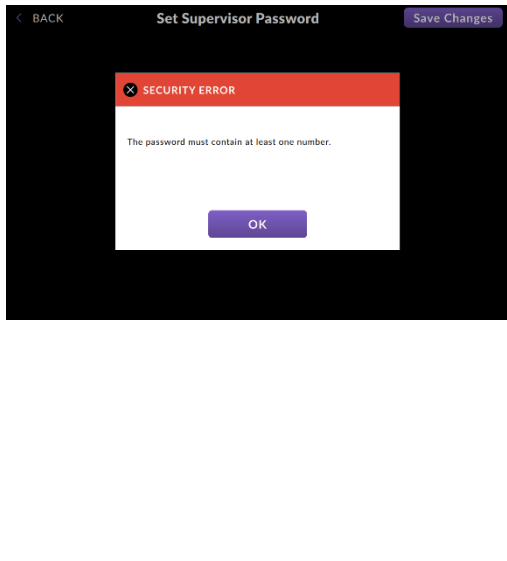
Configuration of Users is a settings requirement the user **must complete** on the **User List** screen during the initial setup to establish the Supervisor user password. The user will have the opportunity to import a user list, but the user must set the Supervisor password before the user can import the user list.

If the user tries to tap **Next** on the **User List** screen without setting the Supervisor password, the message below will appear:

	<ul style="list-style-type: none">■ The user must set the Supervisor password as part of the initial setup process.■ Follow the instructions below to set the Supervisor password.■ Tap OK to dismiss this message; proceed to set the password before moving to the next step.
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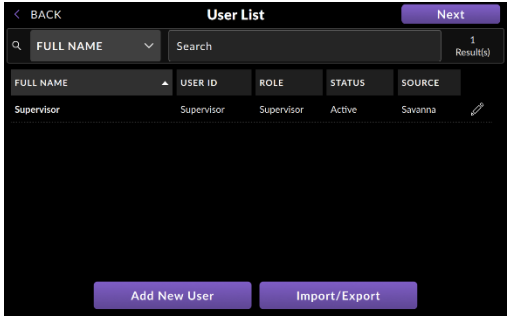


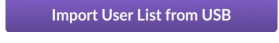
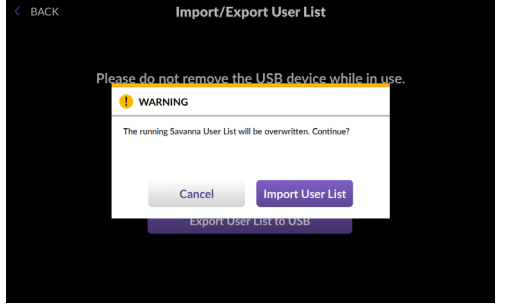


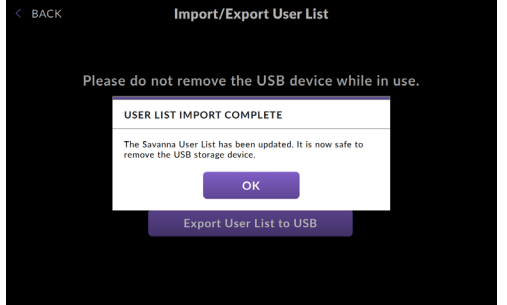

Set Supervisor Password

	<ul style="list-style-type: none">■ During initial setup, the user will see a single user with the name and role "Supervisor".■ The user must set the Supervisor password as part of the initial setup process. Tap  at the far right to edit the Supervisor user's password.
	<ul style="list-style-type: none">■ Enter the password and confirmation into the corresponding New Password and Confirm Password input fields using the on-screen keyboard.■ Tap Save Changes.<ul style="list-style-type: none">i The password must meet the criteria set up earlier in Password Settings.

	<p>i The on-screen keyboard will appear when the New Password input field is tapped.</p>
	<ul style="list-style-type: none"> ■ If the passwords do not match, a warning window will appear when changes are saved: tap OK to dismiss the error. ■ Re-enter the password and password confirmation into the input fields using the on-screen keyboard. ■ Tap Save Changes.
	<ul style="list-style-type: none"> ■ If the password does not meet the alpha, numeric or special character requirements set under Password Settings, a warning window similar to the one at left will appear when changes are saved. ■ Tap OK to dismiss the error and try again. ■ Enter a password that meets the requirements specified on the Password Settings screen into both input fields using the on-screen keyboard. ■ Tap Save Changes.

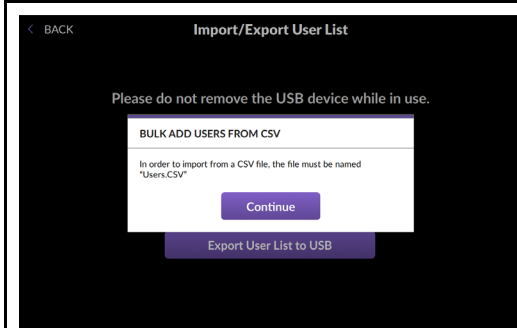
Import User List

A list of users, previously established on another Savanna instrument, may be exported from that device and imported onto a new Savanna instrument.

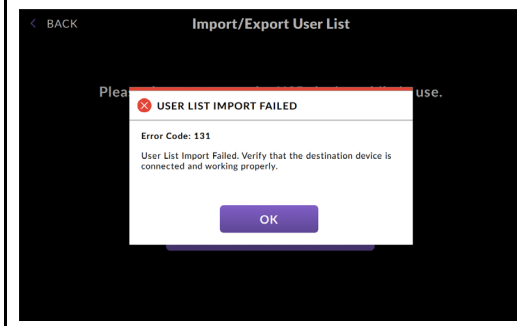
	<ul style="list-style-type: none"> ■ Insert the USB device with the previously exported user list into one of the USB ports on the back of the Savanna system. This should activate the Import/Export button, if it was not already activated. ■ Tap  on the User List screen to import or export a user list.
	<ul style="list-style-type: none"> ■ To import a user list exported from another Savanna, tap .
	<ul style="list-style-type: none"> ■ When importing the user list, the user will be informed that the import will override the current/running Savanna User List. ■ If the settings are being established for the first time, tap  to continue. ■ If the User List is imported for changes to the User List, the imported list will override and delete any Users currently established before the Import. ■ To keep the existing list, tap .
	<ul style="list-style-type: none"> ■ After a few moments, the user will see a notification that the user list was imported successfully. ■ Tap  to dismiss the pop-up.



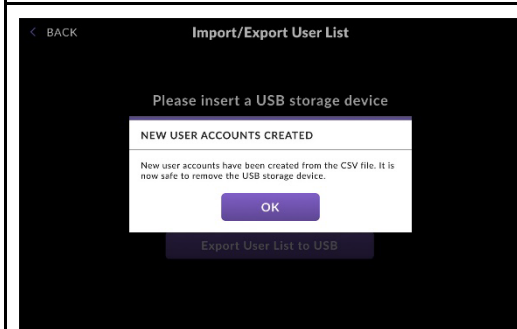
- To bulk import a user list from a CSV file, tap **Bulk Add Users from CSV**.
- CSV file requirements:
 - Spreadsheet must have three columns with the following headers: **"Full Name, User ID, Role"**.
 - Save with the name **"Users.CSV"**, file must be saved in the CSV format (comma delimited, *.CSV file).
 - Save the Users.CSV file in a file named **"users"** in the root directory of the USB drive.



- A pop-up will be displayed informing the user that the CSV file must be named "Users.CSV".
- Tap **Continue**.



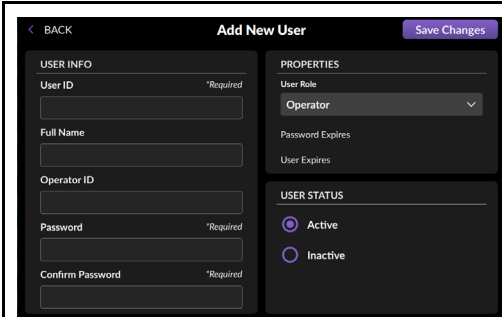
- If the importation of the CSV user list failed, the message on the left will be displayed.
- Tap **OK** to dismiss the pop-up.




- If the importation of the CSV user list was successful, the user will see a notification that the user list was imported successfully.
- Tap **OK** to dismiss the pop-up.

Manual Addition of Users

Once the Supervisor password settings are established, additional users may be entered into the system. This section will demonstrate how to manually add new users. Refer to the **User Management** section of this manual for more information about managing user accounts.



User Info

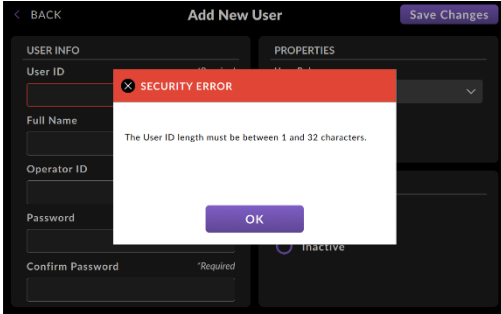
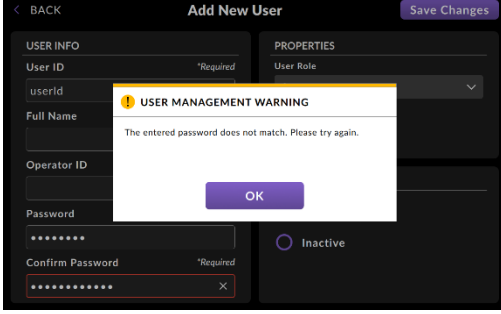
- To add a new user, tap  on the **User List** screen.
- On the **Add New User** screen, enter the User ID into the **User ID** text field. The user ID must be at least one and no more than 32 characters long.
- Enter the user's name and Operator ID into the **Full Name** and **Operator ID** text field. These two fields are optional. However, full name is included in reports and logs associated with user runs if chosen. Enter a password for the defined user into the **Password** and **Confirm Password** text fields. This is a temporary password until a defined user logs into the instrument for the first time.
- The on-screen keyboard will appear when the text input field is tapped.
- This temporary password will expire when the user logs in the first time. Before accessing Savanna, they will be required to create a new password.

Properties

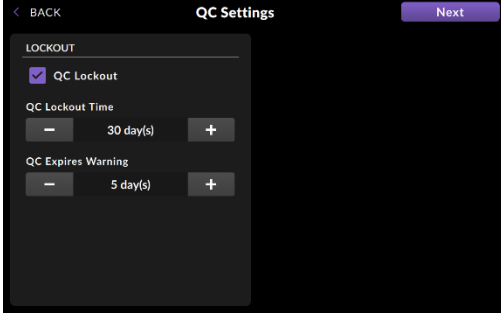
- Assign the appropriate role to the new user using the **User Role** drop-down list.
- The default role is **Operator**. To add a user with either an **IT Admin** role or a **Supervisor** role, choose the desired role from the **User Role** drop-down list.

	<p>User Status</p> <ul style="list-style-type: none"> ■ The user will be active by default. To change the user's status to inactive, select the Inactive radio button. ■ Tap Save Changes to save the new user.
--	---

Add Additional Users – Errors and Warnings

	<ul style="list-style-type: none"> ■ If the new user's ID is omitted or is longer than 32 characters, the warning window at the left will be displayed while the new record is saved. ■ Tap OK and enter a user ID that is between 1 and 32 characters. ■ Tap Save Changes.
	<ul style="list-style-type: none"> ■ If the values typed into the Password and Confirm Password text fields do not match, a warning window will appear when changes are saved. ■ Tap OK to dismiss the error. ■ Re-enter the password and password confirmation into the text fields using the on-screen keyboard. ■ Tap Save Changes. ■ Tap < BACK to return to the User List screen.

QC Settings

	<h3>Lockout</h3> <ul style="list-style-type: none">■ Set QC lockout by selecting the QC Lockout checkbox.■ QC Lockout ensures only cartridges belonging to a specific lot that have been included with passing QC tests are used in patient testing. To determine how long a lot will stay on the QC list after the test is complete, adjust QC Lockout Time spinbox using the -/+ controls, to a value within the range of 1 to 30 days, or Unlimited. If the QC lockout time is set to Unlimited, the instrument will not prompt the user to run the QC until a new lot from the same assay is run.■ To determine when Savanna will issue a warning that QC will expire soon, adjust the QC Expires Warning spinbox using the -/+ controls, to a value within the range of 1 to 30 days.
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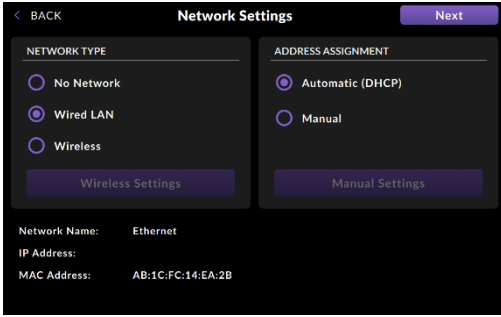
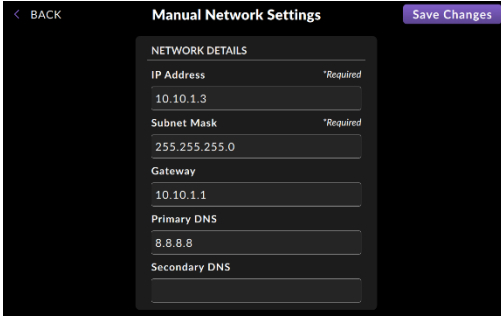
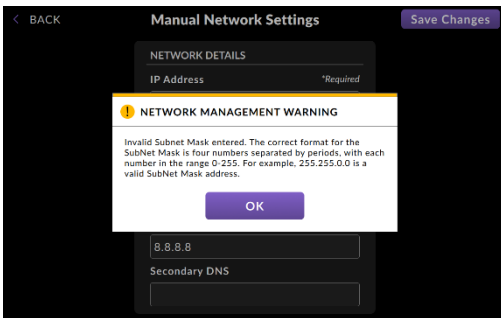
Network Settings

There are three possible network settings: no Network connection, connection to a wired LAN or connection to a wireless network.

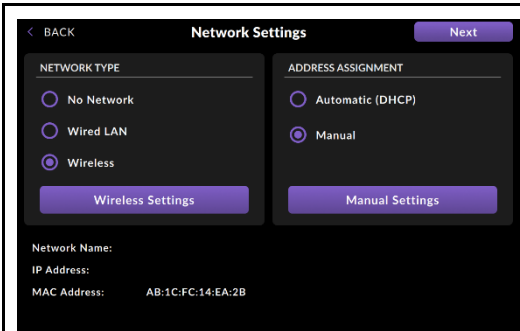
No Network

If the user will not be connecting Savanna to a network at this time, the **No Network** radio button can be selected in the **Network Type** section of the **Network Settings** screen. Tap **Next** to advance to the next section, **LIS Connectivity**.


Wired LAN

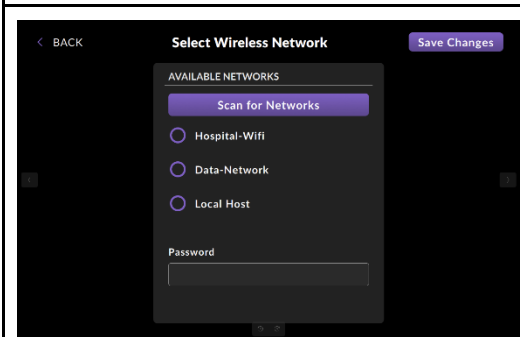
	<h3>Network Type</h3> <ul style="list-style-type: none"> ■ The default setting on Savanna is connection via Ethernet to a wired LAN. If it is not already selected, select the Wired LAN radio button. ■ If an automatic address assignment can be used, choose the Automatic (DHCP) radio button if it is not selected by default and tap Next. <h3>Address Assignment</h3> <ul style="list-style-type: none"> ■ If the IP address will be assigned manually, select the Manual radio button.
	<h3>Network Details</h3> <ul style="list-style-type: none"> ■ Enter the relevant network details into the IP Address, Subnet Mask, Gateway, Primary DNS, and Secondary DNS text input fields using the on-screen keyboard. ■ Tap Save Changes. ■ Tap < BACK to return to the Network Settings screen. <ul style="list-style-type: none"> i Consult the IT department for this information. i The on-screen keyboard will appear when the text input field is tapped.
	<ul style="list-style-type: none"> ■ If one or more of the fields in the Manual Network Settings screen is invalid, a warning pop-up will be displayed indicating which field caused the problem. ■ Tap OK to dismiss the pop-up. ■ Correct the details entered in the relevant fields and tap Save Changes again. ■ Tap < BACK to return to the Network Settings screen.

Wireless Network







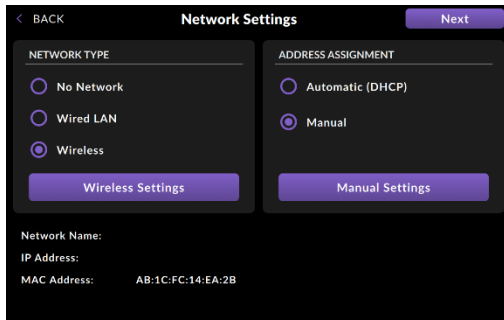
Network Type

- By default, Savanna expects to be connected to a wired LAN. To connect via a wireless network, choose the **Wireless** radio button.
- This will activate the **Wireless Settings** button.
- Tap  to set up the connection.



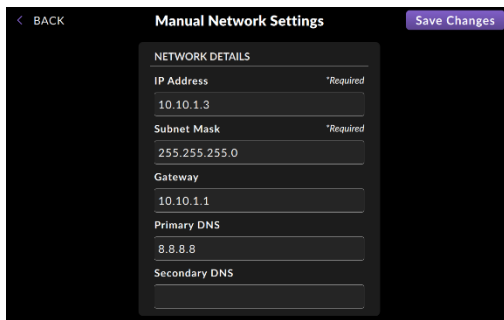
Available Networks

- Select the relevant network from the list under **Available Networks**.
- Enter the network password into the text input field using the on-screen keyboard and tap .
- If a preferred network is not on the list, tap , then follow the steps above.
- If no networks are available, consult the IT department for help.
- Tap .
- Tap  to return to the **Network Settings** screen.



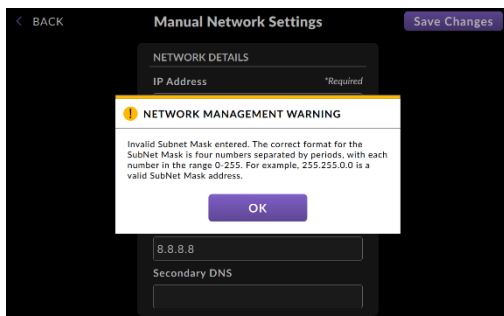
Address Assignment

- If an automatic address assignment can be used, choose the **Automatic (DHCP)** radio button if it is not selected by default and tap **Next**.
- Or, tap the **Manual** radio button to activate the **Manual Settings** button.
- Tap the activated **Manual Settings** to open the **Manual Network Settings** screen.
- The view will transition to a screen where network details can be entered.



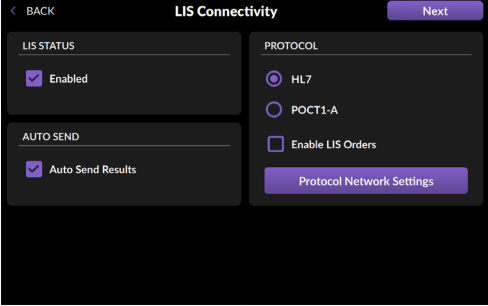
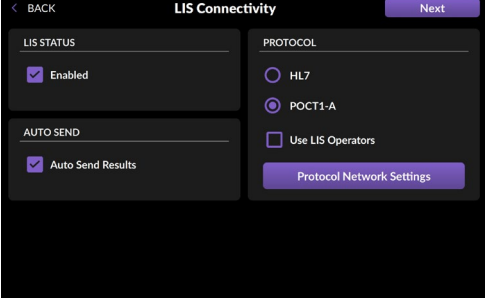
Network Details

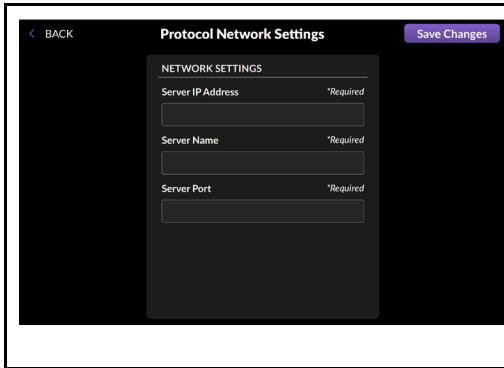
- Enter the relevant network details into the **IP Address, Subnet Mask, Gateway, Primary DNS, and Secondary DNS** text input fields using the on-screen keyboard.
- Tap **Save Changes**.
- Tap **< BACK** to return to the **Network Settings** screen.
 - i Consult the IT department for this information.
 - i The on-screen keyboard will appear when the text input field is tapped.



- If one of the criteria entered is invalid, a warning window may be displayed: tap **OK** to remove the window.
- Enter the corrected details in the relevant fields and tap **Save Changes** again.
- Tap **< BACK** to return to the **Network Settings** screen.
- Once network settings have been properly adjusted, tap **Next** to advance to the next menu.

LIS Connectivity

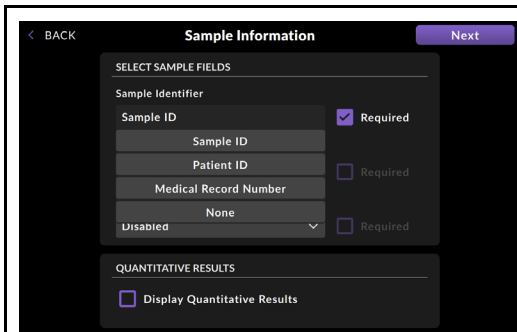
	<h3>LIS Status</h3> <ul style="list-style-type: none">■ Select the Enabled checkbox to enable receiving orders and sending results manually via LIS.■ If LIS is enabled, the Savanna instrument can be set up to send results automatically by selecting the Auto Send Results checkbox. <h3>Protocol</h3> <ul style="list-style-type: none">■ The next step depends on whether HL7 or POCT1-A is used. <h3>To Set Up HL7 Protocol (default)</h3> <ul style="list-style-type: none">■ Select the HL7 radio button to set the protocol to Health Level 7.■ Select the Enable LIS Orders checkbox to enable lab information system orders. <h3>To Set Up POCT1-A Protocol</h3> <ul style="list-style-type: none">■ Select the POCT1-A radio button to use the point-of-care/observation reviewer communication standard.■ Select the Use LIS Operators checkbox to use LIS operators.
	<h3>Complete HL7 or POCT1-A Protocol Setup</h3> <ul style="list-style-type: none">■ Tap Protocol Network Settings to enter the LIS network settings (for either HL7 or POCT1-A).■ The view will transition to the Protocol Network Settings screen. Enter the LIS network settings into the Server IP Address, Server Name and Server Port text input fields using the on-screen keyboard.■ Tap Save Changes.■ Consult the IT department for this information.



- The on-screen keyboard will appear when the text input field is tapped.

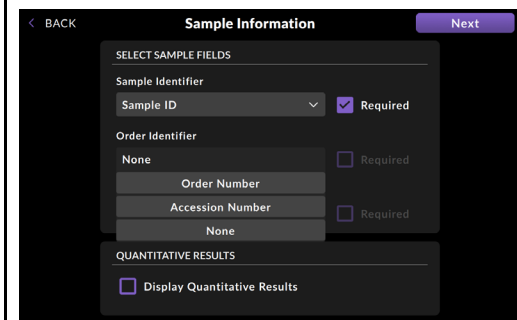
Sample Information

In this section, the user has the option of selecting one or several sample identifiers. Either a Sample Identifier or an Order Identifier is required.



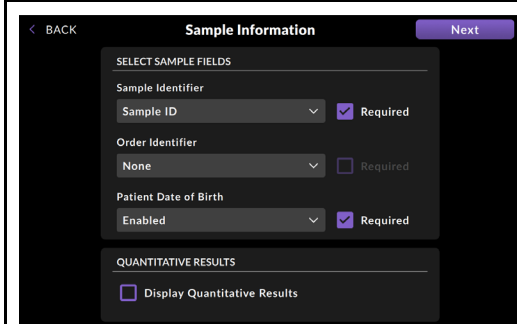
Select Sample Fields

- Select the Sample Identifier from the **Sample Identifier** drop-down list. The options are as follows: Sample ID, Patient ID, Medical Record Number, or None.
- To make Sample Identifier optional, clear the **Required** checkbox (Note: if this is done, the Order Identifier option will need to be selected and marked required).

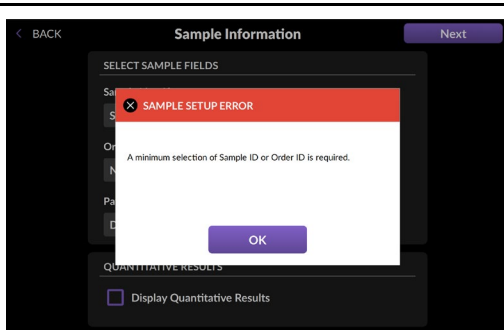


Select Sample Fields

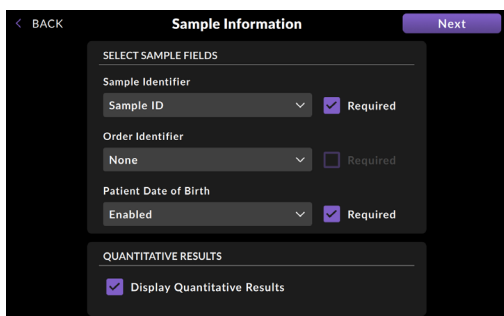
- Select the Order Identifier from the **Order Identifier** drop-down list. The options are as follows: Order Number, Accession Number, or None.
- To make Order Identifier optional, clear the **Required** checkbox (Note: if this is done, the Sample Identifier option will need to be selected and marked required).



- To include Patient Date of Birth in the sample information, select **Enabled** from the drop-down list.
- To require the Patient Date of Birth for each patient test, select the **Required** checkbox.



- If neither the Sample Identifier nor the Order Identifier is set as required, a **Sample Setup Error** will be displayed, as shown on the left.
- Tap **OK** to dismiss the pop-up.
- Ensure that either the Sample Identifier or the Order Identifier is set as required, by marking the **Required** checkbox next to one of the options. See previous steps for more detailed instructions.

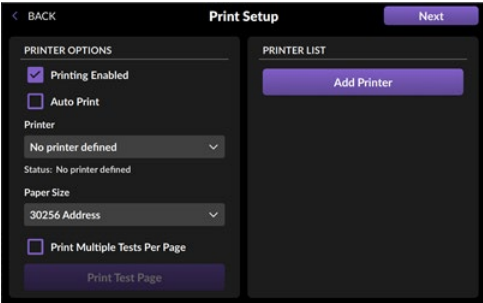

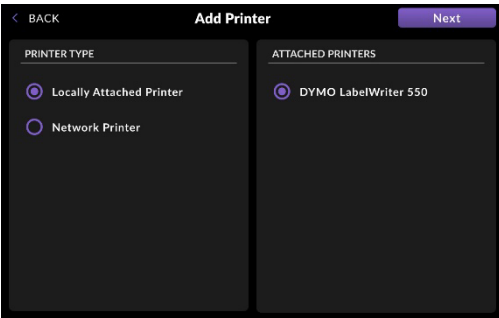

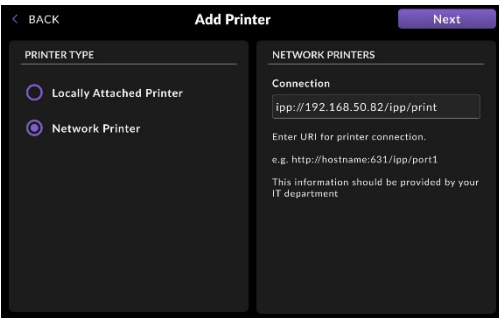



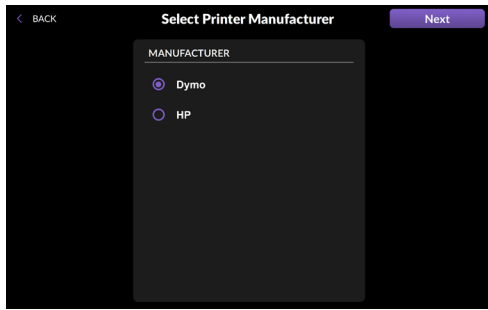
Quantitative Results

- The CT values are displayed under each positive analyte on the Patient Results screen and on printed results for all analytes that are positive. To enable displaying and printing CT values, select the checkbox next to **Display Quantitative Results**.
- Tap **Next** to continue to the **Print Setup** screen.

Print Setup

Add Printer

	<h3>Printer List</h3> <ul style="list-style-type: none">■ To add a printer, tap  on the right-hand side of the Print Setup screen to begin the Print Setup wizard.<ul style="list-style-type: none">■ This process may require technical details about the printer and/or network.
 <p>1a</p>	<h3>Screen 1a of Print Setup wizard (Locally Attached)</h3> <ul style="list-style-type: none">■ By default, the printer is assumed to be connected to Savanna directly via a USB cable.■ If the user is adding a locally attached printer:<ul style="list-style-type: none">■ Choose the Locally Attached Printer radio button under Printer Type.■ Choose the radio button associated with the relevant printer under Attached Printers.■ Tap  to continue to screen 2 of the Print Setup wizard.
 <p>1b</p>	<h3>Screen 1b of Print Setup wizard (Network Printer)</h3> <ul style="list-style-type: none">■ To add a printer that will be accessed over a network, select the Network Printer radio button under Printer Type:<ul style="list-style-type: none">■ Type the URI for the printer into the Connection text field under Network Printers.■ Contact the IT department for this information.■ Tap  to continue to screen 2 of the Print Setup wizard.

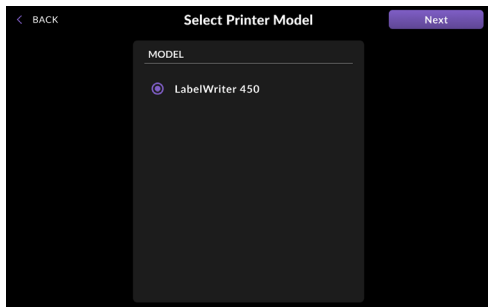


2

Screen 2 of **Print Setup** wizard

Manufacturer

- Choose the radio button associated with the printer manufacturer.
- Tap **Next** to continue to screen 3 of the **Print Setup** wizard.

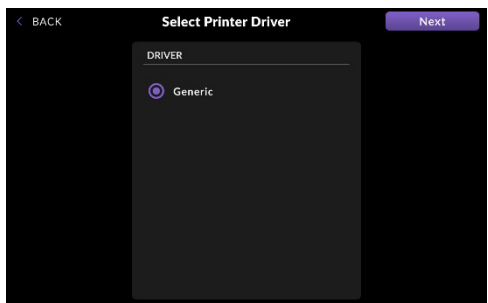


3

Screen 3 of **Print Setup** wizard

Model

- Choose the radio button associated with the printer model.
 - i The user should contact their IT department for this information.
- Tap **Next** to continue to screen 4 of the **Print Setup** wizard.

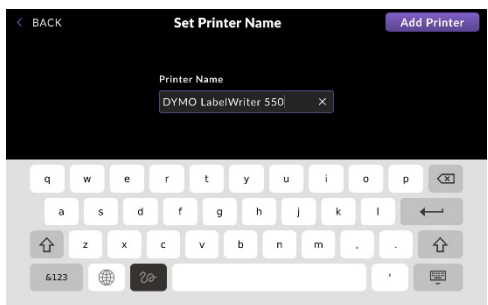


4

Screen 4 of **Print Setup** wizard

Driver

- If there is one radio button, tap **Next** to continue.
 - i If there is no driver on the list, or if it is not clear which driver to choose, contact the IT department for assistance.

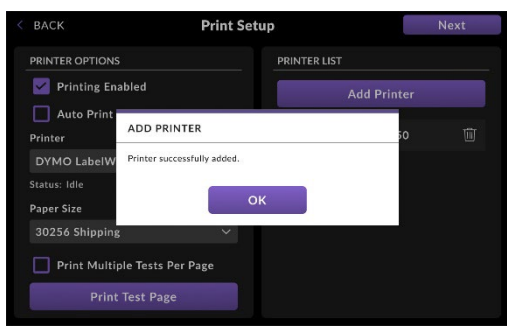
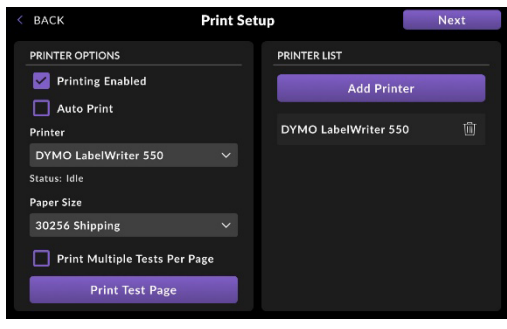


5

Screen 5 of **Print Setup** wizard

Printer Name

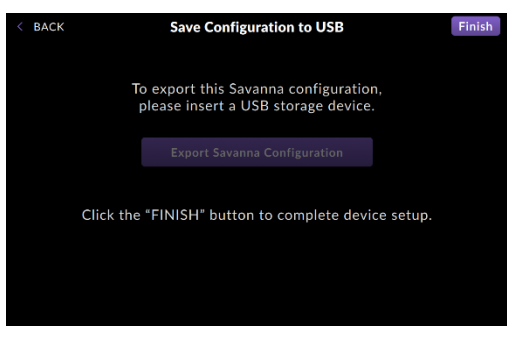
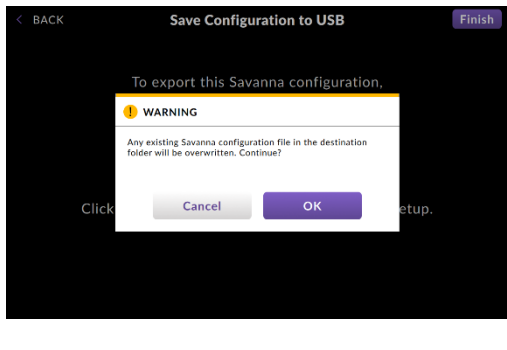
- To assign a name to the printer, enter the name into the **Printer Name** text box using the on-screen keyboard.
- To finish adding the printer, tap **Add Printer** to exit the **Print Setup** wizard.

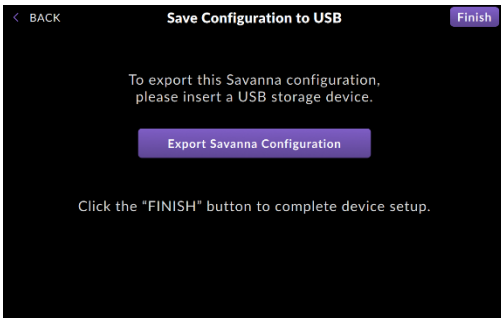
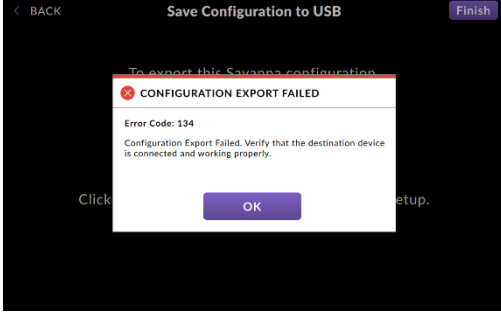
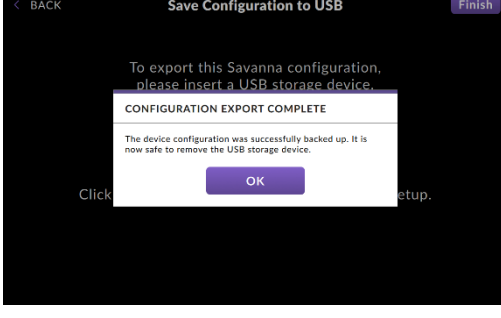
	<ul style="list-style-type: none"> ■ A notification will be displayed that the printer was added successfully. ■ Tap OK to dismiss the pop-up notification.
	<p>Printer List</p> <ul style="list-style-type: none"> ■ The printer that was just added will be on the printer list. ■ To add another printer, repeat this process from the beginning. ■ Tap Next to advance to the next screen.

Save Configuration to USB

To export the Savanna configuration created using the Setup Wizard, follow the steps below.

To finish without exporting the configuration, tap **Finish**.

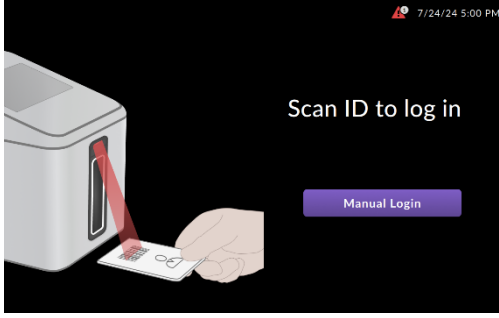
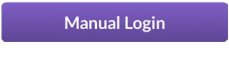
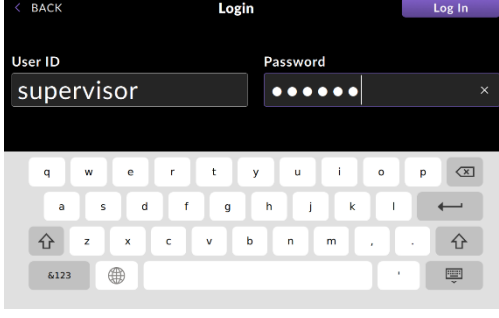

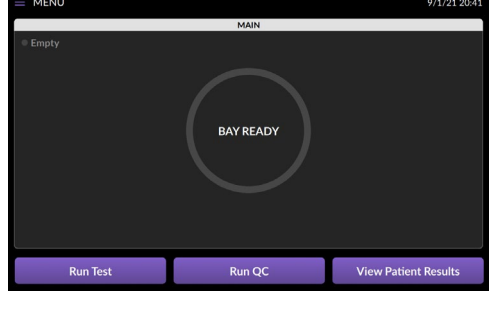
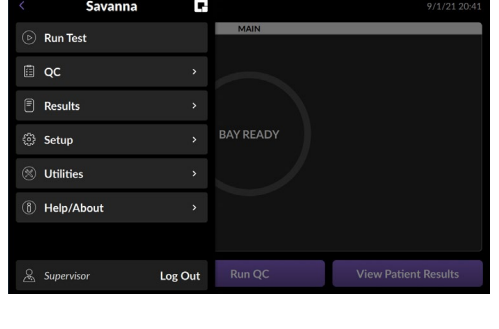
	<ul style="list-style-type: none"> ■ Insert an empty USB storage device. ■ This should activate the Export Savanna Configuration button.
	<ul style="list-style-type: none"> ■ A warning that any existing Savanna configuration file on the USB storage device will be overwritten will be displayed. ■ Tap OK to dismiss the warning pop-up.

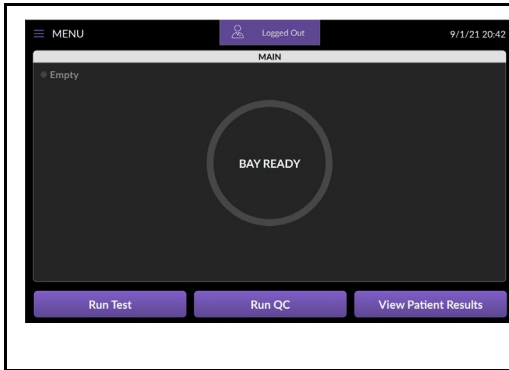
	<ul style="list-style-type: none"> ■ Tap Export Savanna Configuration to export the settings. ■ Use an empty USB storage device, as any existing contents will be overwritten when the configuration is exported.
	<ul style="list-style-type: none"> ■ If the configuration export failed, a pop-up error message will be displayed, as shown on the left. ■ Tap OK to dismiss the pop-up. ■ Ensure the USB is connected and working properly to the device, then tap Export Savanna Configuration. If still unsuccessful, seek IT assistance.
	<ul style="list-style-type: none"> ■ If the configuration export was successful, a Configuration Export Complete pop-up window will be displayed. ■ Tap OK to dismiss the notification. ■ Tap Finish to end the setup wizard and start using the device.

Using Savanna

Login and Logout

When the Savanna instrument is powered up, there are two options to log in: one is to scan a badge, and the other is to use the user ID and password. Upon login, the view will transition to the **Home** screen. The user can log out using the **Main Menu**.

	<ul style="list-style-type: none">■ After completing setup or upon powering up Savanna, the user will be redirected to the Login screen.■ Scan a badge or tap .
	<ul style="list-style-type: none">■ On the Login screen, the user ID and password can be entered into the User ID and Password text input fields using the on-screen keyboard.■ Tap .■ The on-screen keyboard will appear when the text input field is tapped.
	<ul style="list-style-type: none">■ Once the user has logged in successfully, the view will transition to the Savanna Home screen.■ A Login Successful notification will temporarily appear at the top of the screen, then disappear.
	<ul style="list-style-type: none">■ To log out, tap Menu at the top left on the Home screen, then tap Log Out at the very bottom of the displayed menu.

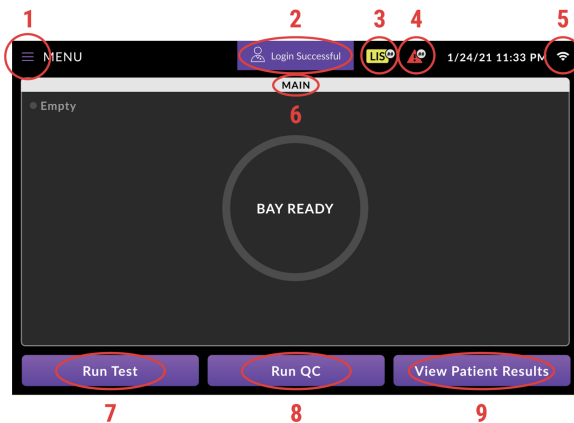


- Once the user has successfully logged out, a temporary **Logged Out** notification will be displayed at the top of the screen.
- The view will then transition to the **Login** screen.

Home Screen

From the Home screen, the user can Run Tests and View Past Results. Additionally, pending alerts can be accessed by the Supervisor from the Home screen.

The Home screen also provides access to the Main Menu and includes other useful information, as noted in the diagram below:

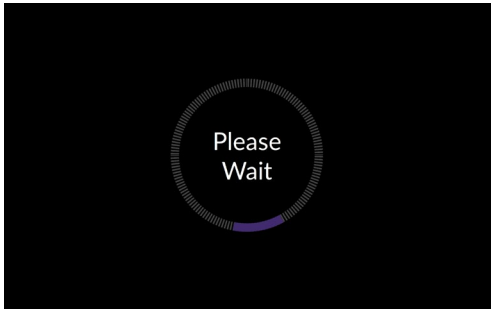


Home Screen Key

1. Hamburger Symbol: Main Menu
2. Login Status (Temporary After Login)
3. Pending LIS Orders (If receiving patient orders from the LIS is enabled)
4. Pending Alerts
5. Wireless Network Status
6. Status Window – Idle
7. Run Patient Test Button
8. Run QC Test Button
9. View Patient Results Button

Please Wait Screen

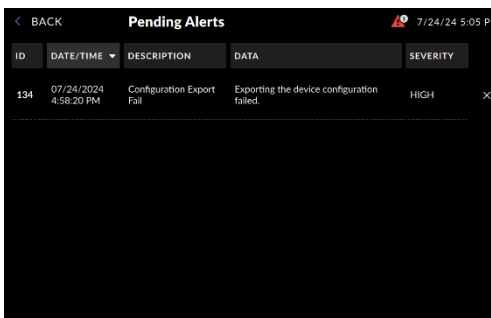
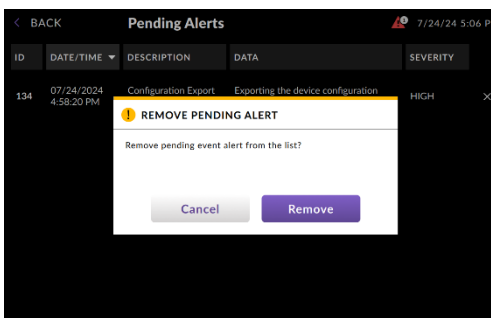
When running tests and performing other activities on the instrument, the user will often see a **Please Wait** window shown below. This window will be displayed when a user's action has prompted a process that takes a few seconds to complete, before the view transitions to the next expected screen:

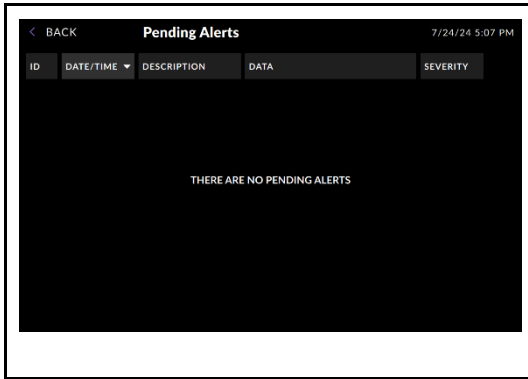
 A black screen with a white circular progress indicator in the center. The words "Please Wait" are written in white text inside the circle.	<ul style="list-style-type: none">■ Wait until the screen transitions to the next expected screen in the process.■ This screen is part of normal instrument operation and not an error.
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Pending Alerts

Pending alerts are indicated by the red triangle in the top bar of most Savanna screens. Pending alerts reflect recorded system errors based on device use, including errors recorded while running tests and while adjusting other system properties.

Most alerts must be acknowledged and cleared by supervisors, except for QC warnings, which can be cleared by operators.

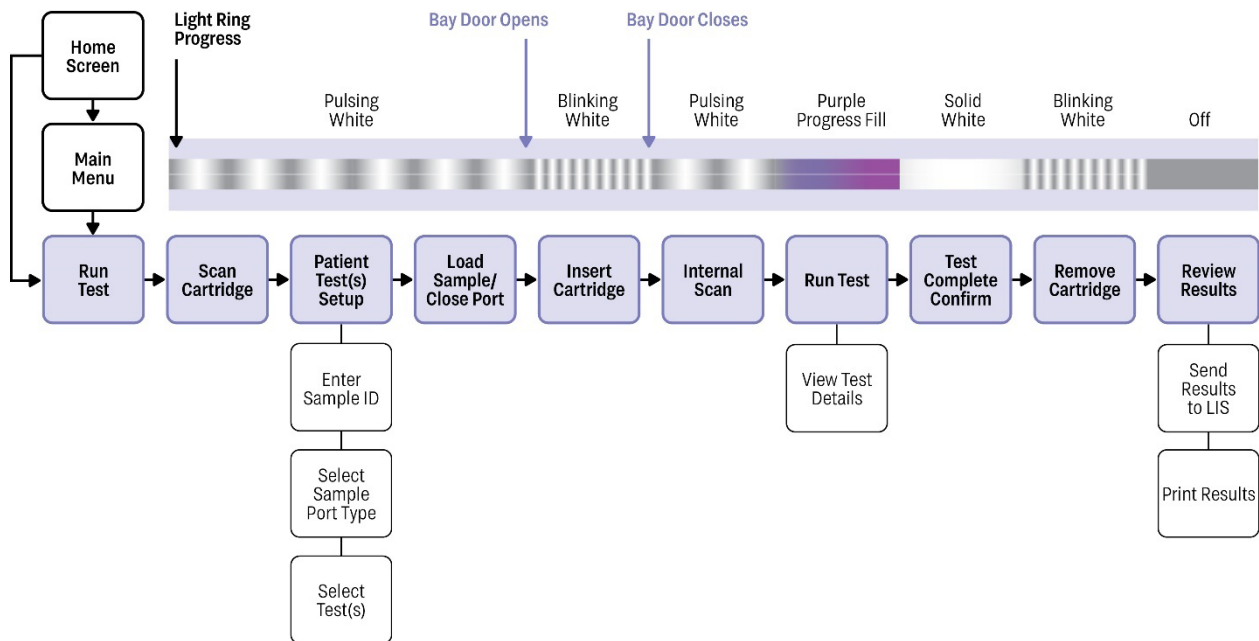
 A screenshot of the "Pending Alerts" screen. It shows a table with columns: ID, DATE/TIME, DESCRIPTION, DATA, and SEVERITY. One alert is listed with ID 134, dated 07/24/2024 at 4:58:20 PM, description "Configuration Export Fail", data "Exporting the device configuration failed.", and severity "HIGH". There is a red triangle icon in the top right corner and an 'X' icon to the right of the alert row.	<ul style="list-style-type: none">■ Tap the red triangle on the Home screen to see the Pending Alerts screen.■ The Pending Alerts list includes the ID, date and time, description, data, and severity level associated with the alert.
 A screenshot of the "Remove Pending Alert" dialog box. It has a yellow header with a warning icon and the text "REMOVE PENDING ALERT". Below the header, it says "Remove pending event alert from the list?". At the bottom, there are two buttons: "Cancel" and "Remove".	<ul style="list-style-type: none">■ An alert can be cleared from the Pending Alerts screen by tapping on the X symbol to the far right.■ A confirmation window will be displayed. Tap Remove to confirm alert removal.■ Tap Cancel to keep the alert.



- The alert is now removed and should no longer be displayed on the list.
- Tap **< BACK** to return to the **Home** screen.

Running a Test

A test can be started in one of two ways—by **scanning a cartridge** or by **selecting an order from the LIS**. To run tests from a list of patient orders received from the LIS, please see the **LIS Orders** section.

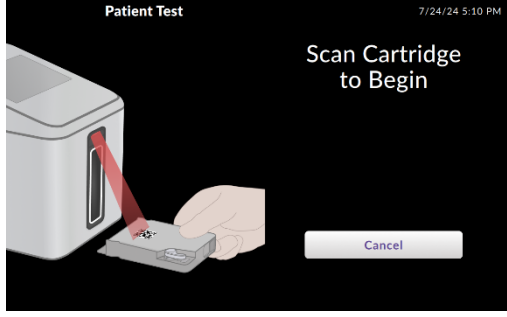
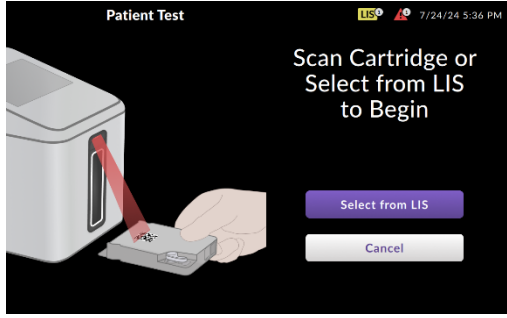


To run a test, either tap **Run Test** on the **Home** screen or navigate to **Menu > Run Test**. The user will be prompted to scan a cartridge or, if receiving patient orders from the LIS is enabled, tap **Select from LIS** option to begin. Both options are shown below.

Note: For error pop-ups, see the Troubleshooting and Errors section.

IMPORTANT: Refer to the assay-specific Package Insert for each specific test for instructions on preparing Test Cartridges with patient samples.

1. Start Test

 <p>The screenshot shows a hand inserting a cartridge into a device. The screen displays 'Patient Test' at the top left, a timestamp '7/24/24 5:10 PM' at the top right, and the instruction 'Scan Cartridge to Begin' in the center. A 'Cancel' button is located at the bottom right.</p>	<ul style="list-style-type: none">■ Scan the cartridge using the barcode reader located above the bay door to begin.■ Note that the user may be required to run QC before running the patient sample. Refer to the QC Menu and Running a QC Test sections for guidance on setting up QC Lockout and running a QC test.■ To cancel the test at any point during the setup, tap the Cancel button.
 <p>The screenshot shows a hand inserting a cartridge into a device. The screen displays 'Patient Test' at the top left, a timestamp '7/24/24 5:36 PM' at the top right, and the instruction 'Scan Cartridge or Select from LIS to Begin' in the center. There is a 'Select from LIS' button and a 'Cancel' button at the bottom.</p>	<ul style="list-style-type: none">■ If Savanna receives patient orders from a configured LIS, the user can view the list of orders by tapping Select from LIS or by tapping LIS at the top of the screen to start a test.■ For detailed instructions on initiating patient tests from the list of orders received from the LIS, refer to the LIS Orders section.

2. Input Sample Information

- Scan the sample information using the barcode reader or manually enter the data using the on-screen keyboard.
- Select the sample port/type from the **Sample Port/Type** drop-down list (if applicable) and tap **Continue**.

3. Select or Deselect Tests

- The entire test panel may be run by checking the **Select All** box. Alternatively, deselect the unordered targets directly, or uncheck the **Select All** box and select the tests that will be reported. At least one test must be selected.
- Tap **Confirm**.

4. Load Sample and Close Port

- Load the sample into the corresponding sample port and close the port tightly.
- Tap **Continue**. The light ring will begin to blink slowly and will continue to do so until the cartridge is loaded.

5. Insert Cartridge

- Wait until prompted to insert the cartridge into the bay. The cartridge will be pulled into the bay and the door will close automatically. The door will also close automatically if the cartridge is not inserted within 30 seconds after the warning.

6. View Test Progress

- Once the cartridge is inserted, Savanna will automatically start and display the progress of testing on the summary screen. The summary screen displays the time remaining until the test run is completed.
- While the test is running the user may switch from the summary screen to the details screen by tapping **Details**. The details will display the relevant test panel, the target tests ordered and the cartridge information.
- To stop the test at any point prior to the test completion, tap **Abort Test**. An aborted cartridge cannot be used for a new test.

7. View Results

- Once the test is complete, the result of each target as well as cartridge and operator-supplied data is displayed.

8. Print Results

- Tap **Print** to print the result if a printer is connected. Test results may be printed automatically after the test is complete if Auto-Print is enabled.

9. Send to LIS (if enabled)

- Tap **Send to LIS** to send the results to LIS, if LIS Connectivity is enabled. Test results may be sent to LIS automatically after the test is complete if Auto Send Results is enabled. See the **LIS Orders** section for details.



10. Remove Cartridge

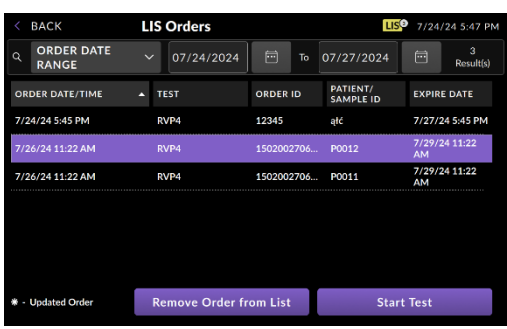

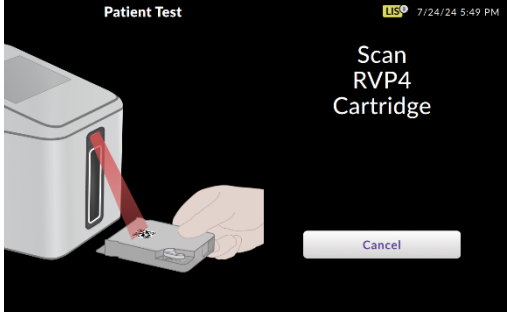
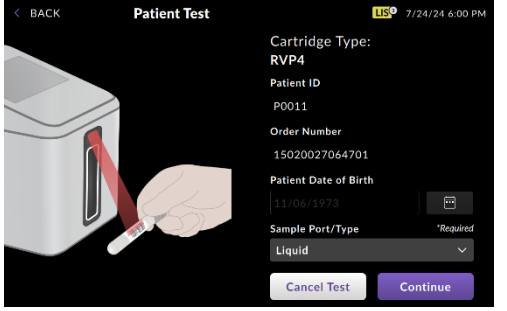
- Remove the cartridge to end the test and return to the **Home** screen. If the cartridge is not removed within **30 seconds** after the warning, it will be pulled back into the instrument, and the door will close. If this occurs, tap **Open Bay Door** to open the door again and then remove the cartridge.

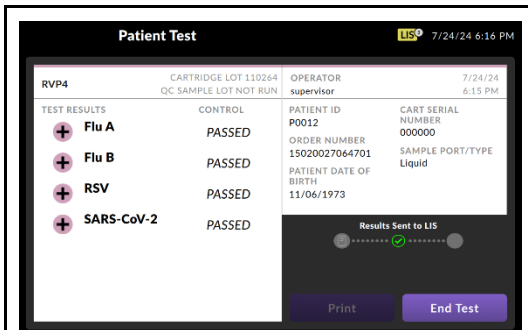
LIS Orders

If a Laboratory Information System is enabled with Savanna, the user can run a test by choosing an order received from the LIS.

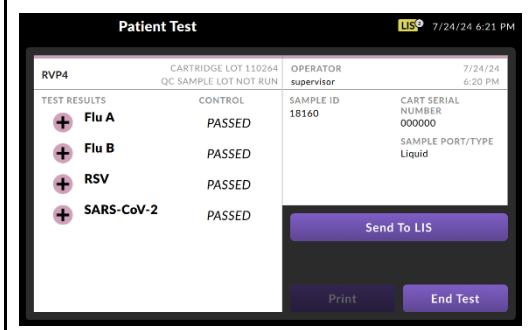
Refer to the **LIS Connectivity** section to use Savanna with LIS Orders.

You can reach the **LIS Orders screen** by tapping  or by tapping  at the top of the screen.

	<ul style="list-style-type: none"> ■ The LIS Orders screen displays a list of patient orders received from the LIS. ■ The screen provides sort, search, and filter options. <ul style="list-style-type: none"> ■ To search or filter, choose a column heading from the drop-down list. ■ Enter search criteria in the search box (for text fields) or using the date picker. ■ Select a test and tap 
	<ul style="list-style-type: none"> ■ Once the test is started, the user will need to scan an assay cartridge for the ordered test.
	<ul style="list-style-type: none"> ■ After the cartridge is scanned, the user will see the screen where sample information is entered. ■ The sample information associated with the LIS order will automatically populate the required fields. ■ From this point, the test will proceed in the same way as tests initiated manually, see step 3, Select or Deselect Tests, above.

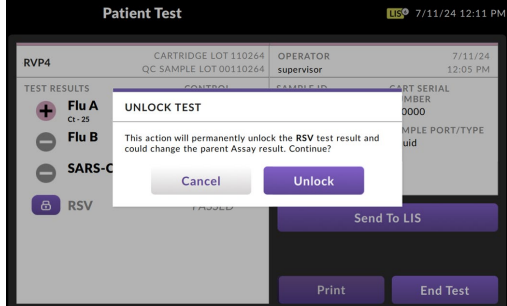




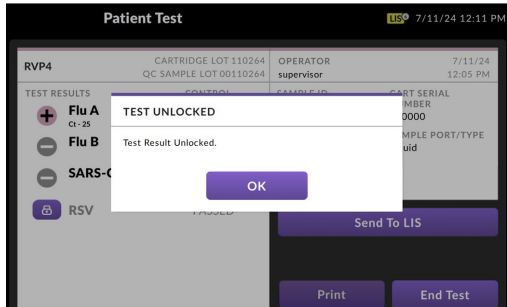

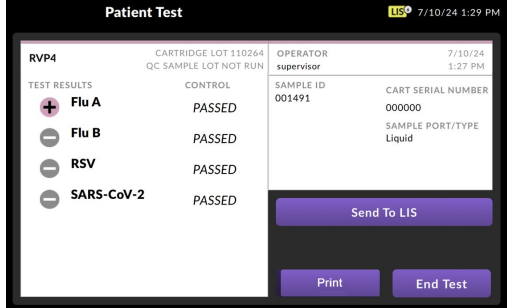



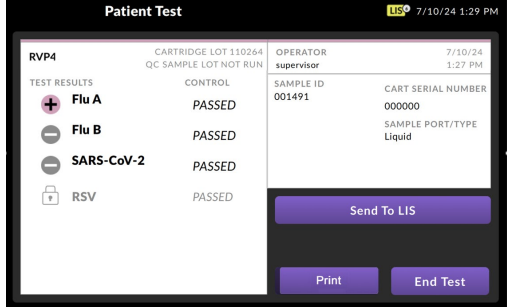



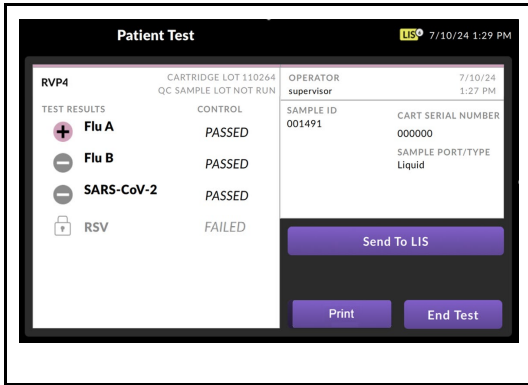
- When the test is complete, the result of each target test as well as cartridge and test data is displayed.
- If **Auto Send Results** is enabled in the **LIS Connectivity** screen:
 - Results will be sent to the LIS automatically when the test is complete.
 - The **Patient Test** result screen will indicate progress as results are sent and show whether the results were sent successfully.



- If Auto Send Results is **not** enabled in the **LIS Connectivity** screen, results can be sent to the LIS manually from the **Patient Test** result screen.

Unlocking Unordered Test Results When Running a Test

	<ul style="list-style-type: none"> ■ A  next to a result means the test was not ordered, but the results were recorded and can be unlocked no later than 48 hours after running the panel, without collecting the patient sample and running the test again. ■ To unlock the results of the unordered tests, tap . An Unlock Test notification window will be displayed. ■ Tap  to unlock and view results, tap  to keep the results locked.
	<ul style="list-style-type: none"> ■ When results are unlocked, a Test Unlocked notification window will be displayed: tap  to dismiss the window.
	<ul style="list-style-type: none"> ■ After test results are unlocked, they can be viewed and printed. ■ Tap  to print test results. ■ Tap  to end the test. ■ Tap  to send the unlocked result to LIS when LIS Connectivity is enabled. The unlocked result cannot send to LIS automatically even when Auto Send is enabled.
	<ul style="list-style-type: none"> ■ The  icon cannot be tapped. <ul style="list-style-type: none"> ■ If Control is listed as PASSED, an unordered test result cannot be unlocked because 48 hours has elapsed since test completion.



- If Control is listed as FAILED, an unordered test result cannot be unlocked because the test result is invalid.
- Repeat test with a new cartridge to obtain locked analyte result.

Test Result Screen

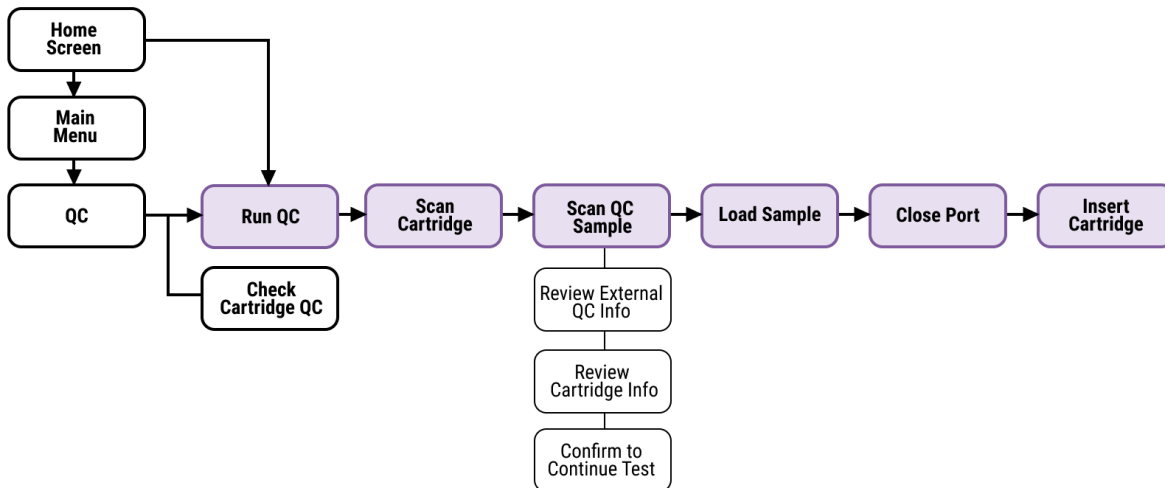
When the test is complete, the instrument will display the results for the patient specimen tests and for the internal procedural control (Internal QC), and specimen adequacy control (when applicable).

If configured, results may also be transmitted to the LIS.

The results may also be printed on an attached printer by tapping Print.

IMPORTANT: Refer to the assay-specific Package Insert for details on how to interpret results for specific tests.



Running a QC Test

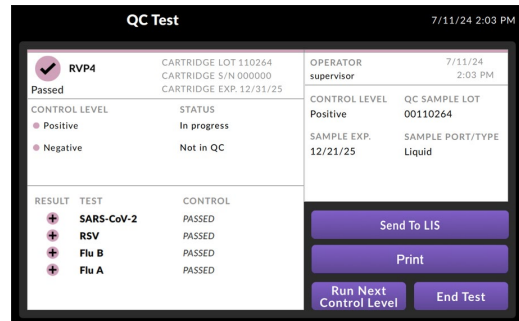
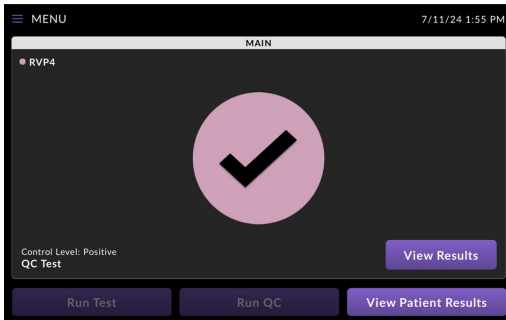



External QC may be tested to demonstrate that the assay-specific reagents, test Cartridge and assay procedures are performing properly.

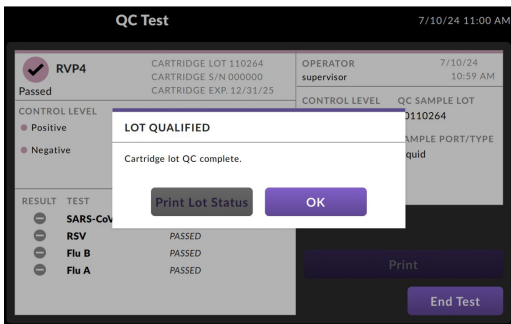
To run a QC test, either tap the **Run QC** button on the **Home** screen or navigate to **Menu > QC > Run QC**. To begin, the user must scan a cartridge.

IMPORTANT: Refer to the assay-specific Package Insert for each specific test for instructions on running QC test and preparing QC samples.

When the QC run is complete, the overall QC result will be displayed as  (Passed) or  (Failed) on Savanna for the control level tested. The user can tap **View Results** to see the control run details.

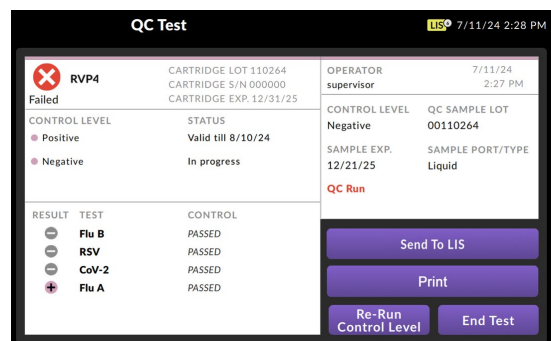
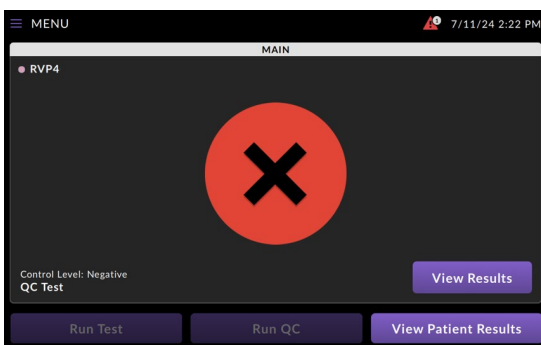


If additional control levels will be tested, tap  to begin testing the next control. Once both the Positive and Negative control tests are complete, the instrument will display the Lot Qualified message, indicating that the cartridge lot QC is complete.



QC Test Failure

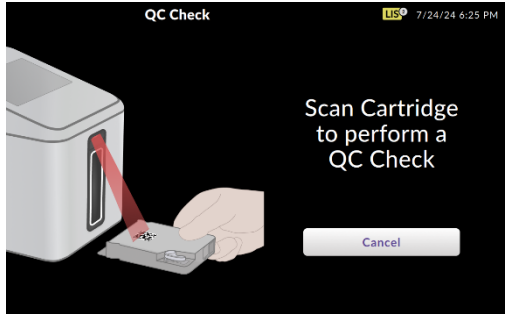

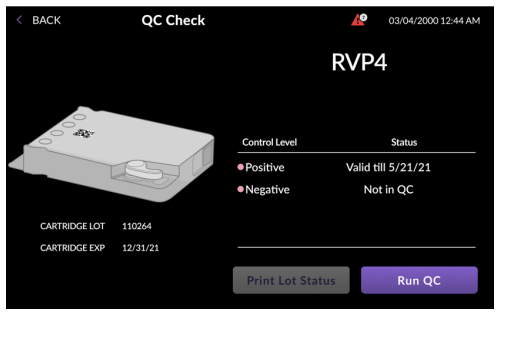

If one or more analytes associated with a QC control level did not produce the expected result, the summary result page will indicate that the test has failed. The user can tap **View Results** to check the details and either re-run the control level or end the test.



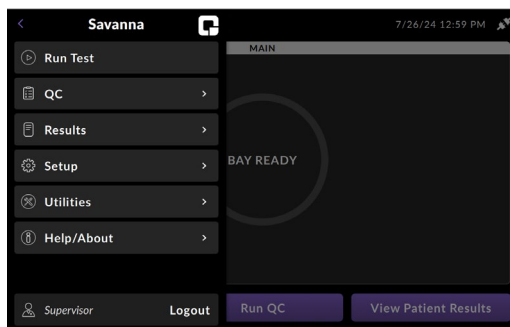
IMPORTANT: Do not perform patient tests or report patient test results if any of the QC test results fail. Repeat the test or contact the QuidelOrtho Technical Support before testing patient samples.

Check Cartridge QC


To check any cartridge QC, navigate to **Menu > QC > Check Cartridge QC**. A Scan Cartridge prompt will be displayed on the first screen, as shown below.

	<ul style="list-style-type: none">■ Scan cartridge to perform a QC check.■ Tap  to stop the check.
	<ul style="list-style-type: none">■ Tap  to run QC.

Main Menu Guide

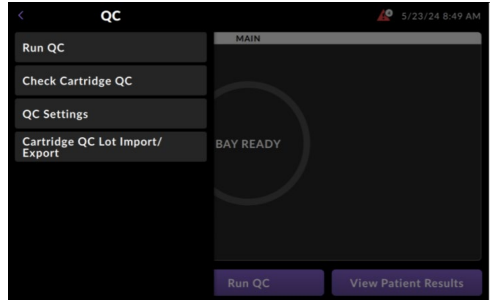


Run Test

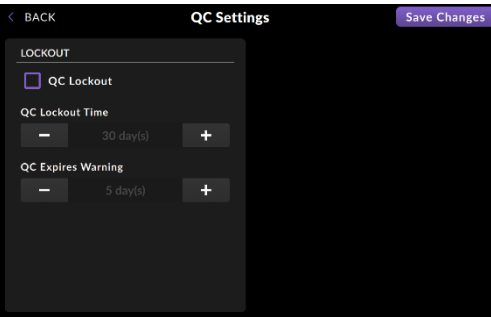
To run a patient test, choose **Main Menu > Run Test** or tap  on the **Home** screen. For information on running patient tests, see **Running a Test** in the previous section.

QC

To run a QC test, choose **Main Menu > QC > Run QC Test** or tap **Run QC** on the **Home** screen. For more information on running a QC test, see the **Running a QC Test** section.

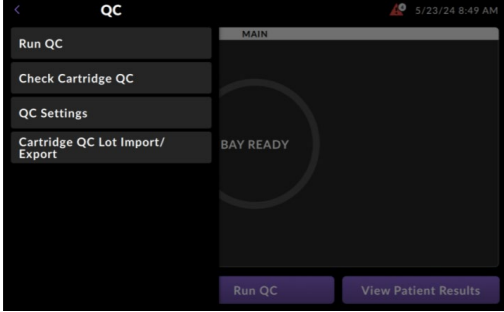


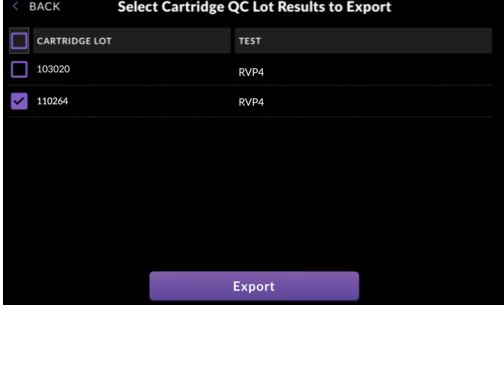

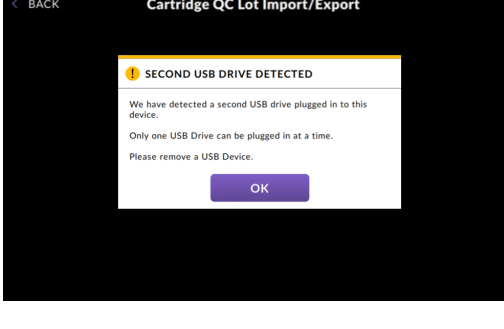
	<ul style="list-style-type: none">■ Access the QC menu by tapping on Menu, then QC.■ Run a QC test, check the cartridge QC and adjust the QC settings from this screen.
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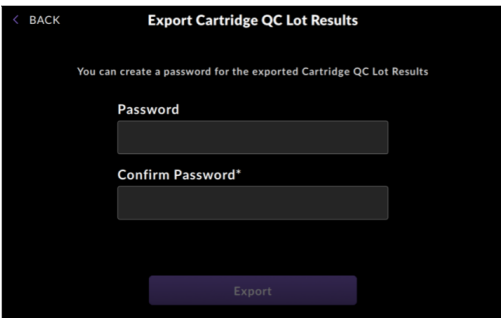

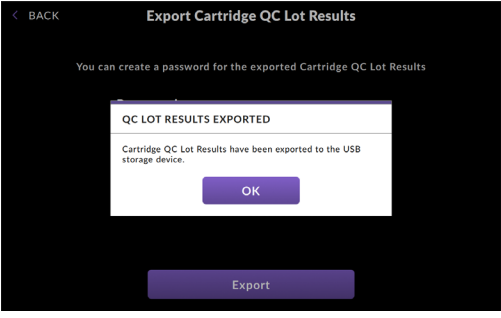
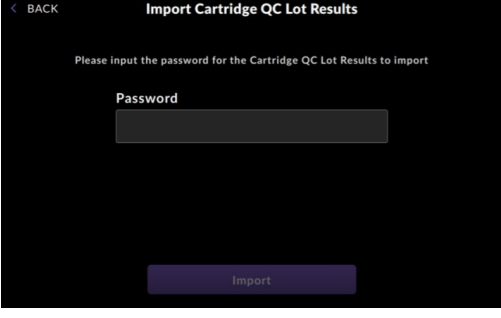
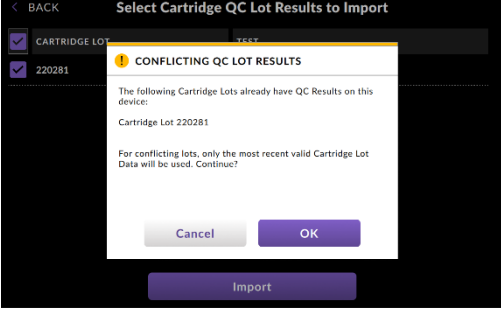

QC Settings

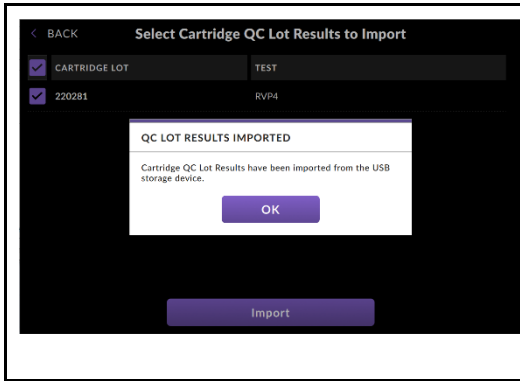
	<h3>Lockout</h3> <ul style="list-style-type: none">■ Set QC lockout by selecting the QC Lockout checkbox. Once the QC Lockout is selected, it is possible to adjust the QC Lockout Time and QC Expires Warning.<ul style="list-style-type: none">i QC Lockout ensures that only cartridges belonging to a cartridge lot that has passed QC tests are used in patient tests. QC Lockout is assay-specific.■ To determine how long a cartridge lot will stay on the QC list after the QC test is complete, adjust QC Lockout Time spinbox using the -/+ controls, to a value within the range of 1 to 30 days, or Unlimited. If the QC lockout time is set to Unlimited, the instrument will not prompt the user to run the QC until a new lot from the same assay is run.■ To determine when Savanna will issue a warning that QC will expire soon, adjust the QC Expires Warning spinbox using the -/+ controls, to a value within the range of 1 to 30 days.
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Cartridge QC Lot Import/Export

Valid Cartridge QC Lot data obtained on one instrument may be transferred to additional instruments.

	<ul style="list-style-type: none">■ Select Cartridge QC Lot Import/Export.
	<ul style="list-style-type: none">■ Tap  to navigate to the Select Cartridge QC Lot Results to Export screen.
	<ul style="list-style-type: none">■ Check the boxes next to the lots to be exported. Alternatively, check the box next to Cartridge Lot to select all cartridge lots for export.■ Tap .■ Insert a USB drive into one of the two USB ports located in the rear of the Savanna instrument.
	<ul style="list-style-type: none">■ Insert the USB drive into one of the two USB ports. Only one USB drive can be connected to Savanna at a time. If two USB drives are connected simultaneously, this screen will appear. Remove the existing USB drive.

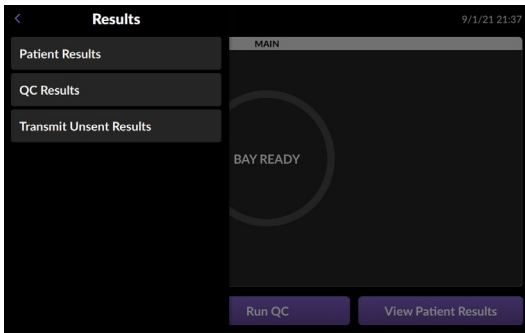
	<ul style="list-style-type: none"> ■ A password must be created to protect the exported Cartridge QC Lot Result data. ■ Tap .
	<ul style="list-style-type: none"> ■ Savanna will display QC LOT RESULTS EXPORTED when export is complete. ■ Remove the USB device.
	<ul style="list-style-type: none"> ■ Enter the password used during export here to allow QC cartridge lot import.
	<ul style="list-style-type: none"> ■ If the Savanna instrument already has cartridge lot QC results for the exported cartridge lots, a caution of CONFLICTING QC LOT RESULTS will be displayed. ■ Selecting  will ensure that the most current cartridge lot QC result data, either on Savanna or the USB, will be used on the instrument.



- Savanna will display **QC LOT RESULTS IMPORTED** when Import is complete.
- The USB drive can now be removed from the Savanna instrument.

Results

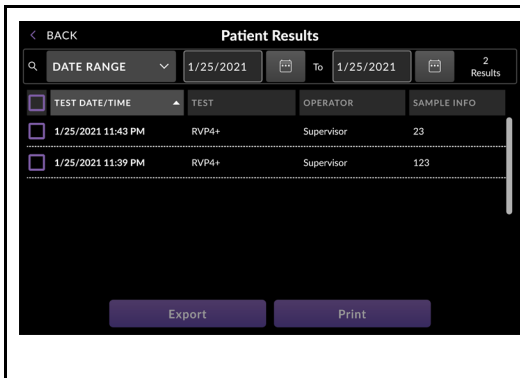
The Results menu allows the user to view results for previously run patient and QC tests. This menu also offers the option to send test results. The Results menu can be accessed by tapping on **Menu**, then selecting **Results**.



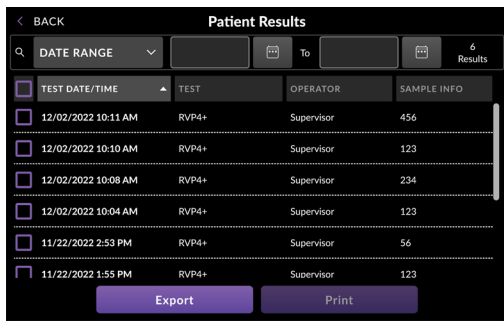
Patient Results

The **Patient Results** screen allows for viewing, unlocking, filtering, sorting, exporting, and printing of patient test result data from previously run tests. Access the **Patient Results** screen by tapping on **Menu**, then **Results**, and finally **Patient Results**, or by tapping **View Patient Results** on the Savanna **Home** screen.

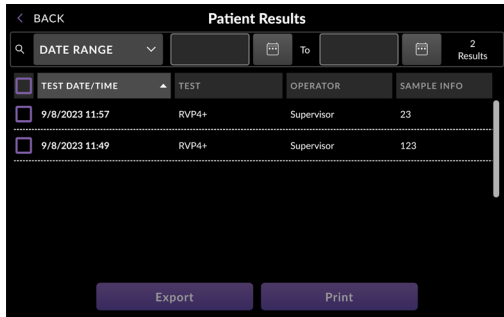
View Patient Results



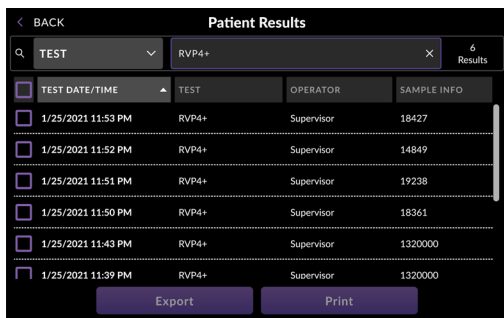
- Patient results are displayed in the form of a list, where each line represents a separate test run.
- Information displayed for each test corresponds to list headers: **Test Date/Time, Test, Operator, and Sample Info.**



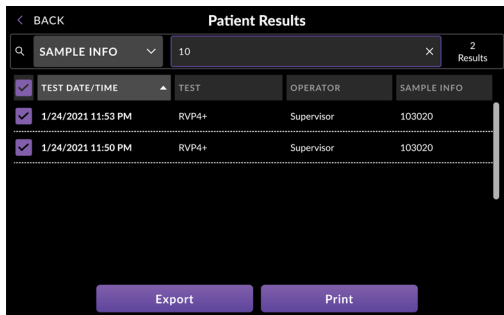
- Results can be filtered based on different criteria using the drop-down list at the top: to filter by test, select **Test** from the drop-down-list and enter the test criteria into the text input box using the on-screen keyboard.



- To filter by date range, select **Date Range** from the drop-down list and use the icon to select the relevant to and from dates.
- To filter by operator, select **Operator** from the drop-down list and enter the operator criteria into the text input box using the on-screen keyboard.
- To filter by sample info, select **Sample Info** from the drop-down list and enter the sample info criteria into the text input box using the on-screen keyboard.

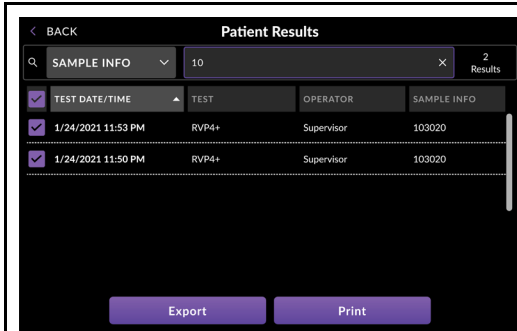



- Tap on any line item to view, save or print test details, such as results for specific tests within the panel, as well as sample, operator, and other details.

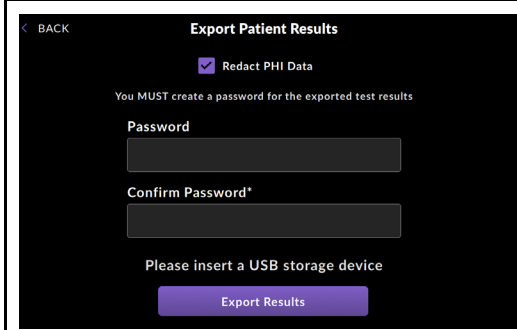



- Results can also be printed directly from the **Patient Results** menu.
- Check the box or boxes next to the test results to be printed and tap **Print**. This will print the result.
- To navigate back to the **Patient Results** menu, tap **BACK**.

Export Test Results

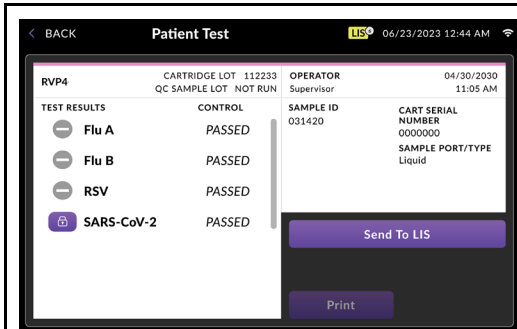




- To export test results, insert a USB device and select the checkbox next to the test to be exported. This will activate the **Export** button at the bottom.
- Tap  to export the selection.

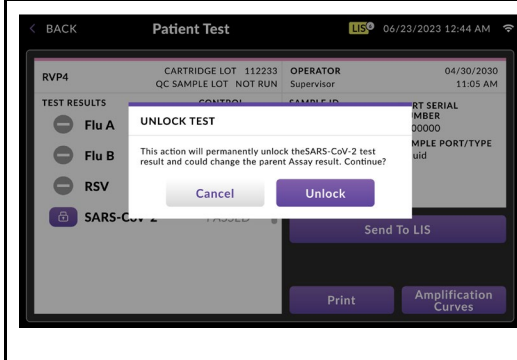




- The screen will transition to the **Export Test Results** screen.
- A password will be required in order to access the results from a USB device on a computer. Enter the password and password confirmation into the corresponding text input fields using the on-screen keyboard.
- Tap  to export the results.

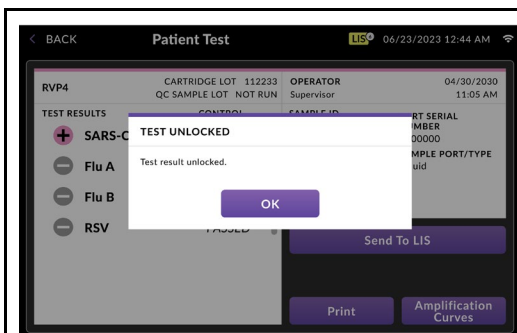
Unlock Unordered Test Results




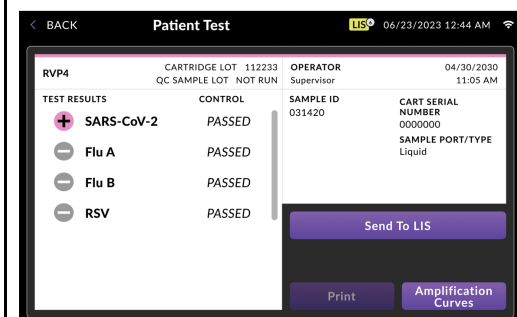
- A  next to a result means the test was not ordered, but the results were recorded and can be unlocked no later than 48 hours after running the panel, without collecting the patient sample and running the test again.
- Tap  to unlock the result.






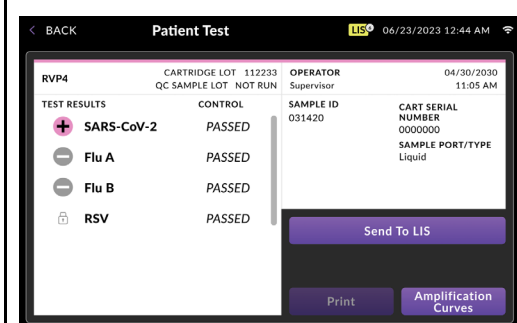
- A pop-up will appear requesting confirmation to unlock the selected test.
- Tap  to unlock and view results, tap  to keep the results locked.




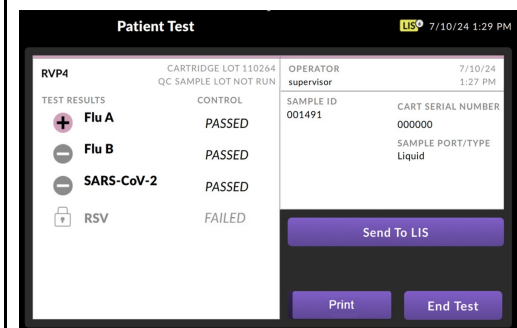
- When results are unlocked, a **Test Unlocked** notification window will be displayed: tap  to dismiss the window.



- The test results that were unlocked will now be available for viewing and printing.
- Tap  to print test results.
- Tap  to send to LIS.
- Tap  to review the amplification curves, if available.





- The  icon cannot be tapped.
 - If Control is listed as PASSED, an unordered test result cannot be unlocked because 48 hours has elapsed since test completion.
 - If Control is listed as FAILED, an unordered test result cannot be unlocked because the test result is invalid.






- Repeat test with a new cartridge to obtain locked analyte result.



View Amplification Curves

If the data to support viewing amplification curves is available, the  button will appear on the Test Results screen for users assigned **the supervisor role**. The Amplification Curves screen is available only to the **Supervisor**, and only for **past** test results. This function may not be available for all assays.

On the Amplification Curves screen all possible analytes are listed to the left. Tap the  icon on the left of the analyte name with a **positive** result to select or unselect analyte. Single or multiple analytes may be selected in this manner.

- i The corresponding CT fluorescence values are shown below each analyte.
- i A  or  appears to the right of each analyte to indicate either a positive (detected) or negative (non-detected) result in this particular test.
- i Any analyte not included in the test will have a  icon to the left of its name rather than a checkbox and cannot be selected.

The Amplification Curves for all analytes selected in the manner above are displayed to the right on a plot measuring Fluorescence (Y-axis) per cycle (X-axis). Each Amplification Curve displayed is color coded to match the name of its corresponding analyte. The graph is auto-scaled based on the Y-axis.

- Tap  or  at the bottom left of the plot to alternate between logarithmic and linear scale for the Y-axis.
 - i All data, including locked results, will be saved in the Database and can be reviewed on the Savanna instrument touchscreen.

QC Results

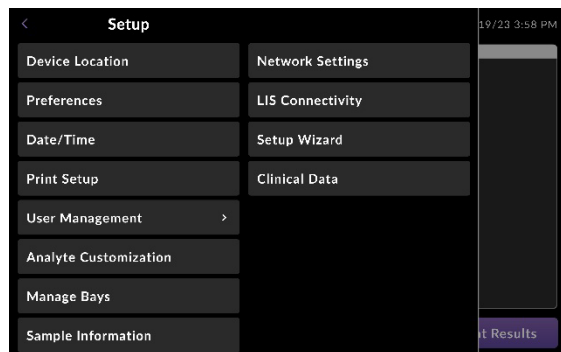
The **QC Results** screen allows for viewing, filtering, sorting, exporting, and printing of QC test result data from previously run QC tests. Access the **QC Results** screen by tapping on **Menu**, then **Results**, and finally **QC Results**.

Transmit Unsent Results

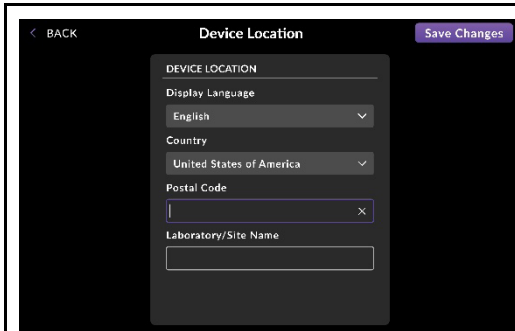
The **Transmit Unsent Results** button allows for one-touch transmission of unsent patient results to the LIS.

Setup Menu

The setup menu allows for adjustment of instrument setup preferences at any time by navigating to: **Menu > Setup** from the Savanna **Home** screen.



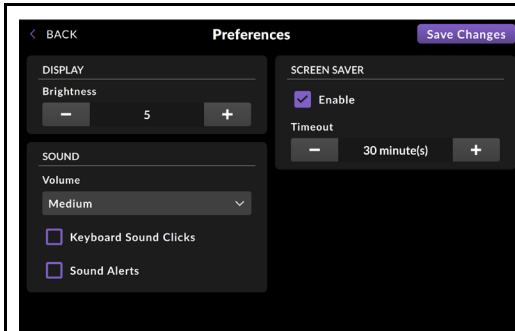
Device Location



Device Location

- Choose the display language from the **Display Language** drop-down list. If the instrument is being used for the first time, without the import of another configuration, English is the only language available and is the default.
- Choose the country from the **Country** drop-down list.
- Enter the **Postal Code** using the on-screen keyboard.
- Enter the **Laboratory/Site Name** using the on-screen keyboard.
 - i The on-screen keyboard will automatically appear when the text input field is tapped.
- Tap **Save Changes** to save inputs and return to the **Setup** screen.

Preferences



Display

- Adjust the display **Brightness** from 1 to 7 using the **-**/**+** controls on the Brightness spinbox.

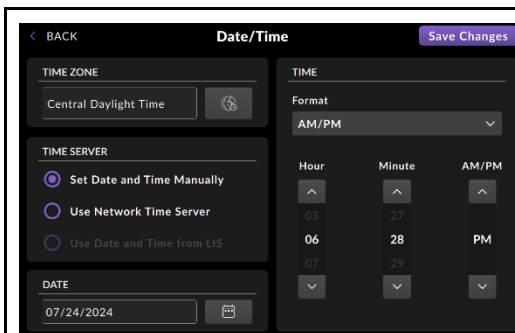
Screen Saver

- To disable the screen saver, tap to clear the **Enable** checkbox.
- To change the amount of idle time before the screensaver is activated, tap the **-**/**+** controls on the **Timeout** stepper.

Sound

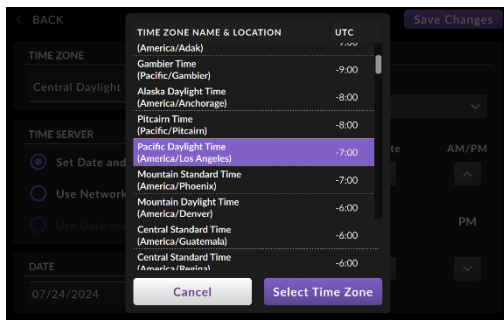
- Choose the sound level from the **Volume** drop-down list.
- Enable audible key taps for the on-screen keyboard by selecting the **Keyboard Sound taps** checkbox.
- Enable audible alerts by selecting the **Sound Alerts** checkbox.
- Tap **Save Changes** to save preferences.

Date/Time



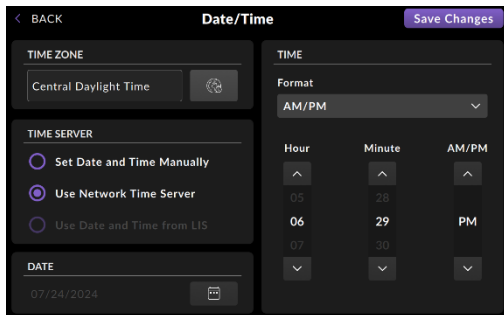
Time Zone

- Tap the **Time Zone**  icon to open a scrollable list of time zone choices.



Time Zone

- Scroll through the list.
- Tap on the relevant time zone.
- Tap **Select Time Zone** to save the selection.
- Tap **Cancel** to exit the list without saving.

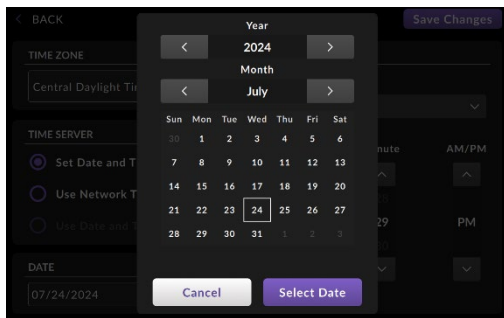


Time Server

- Tap the **Set Date and Time Manually** radio button to set the time and date manually.
- Tap the **Use Network Time Server** radio button to set the time automatically.
- Tap **Use Date and Time from LIS** to use the date and time from LIS.

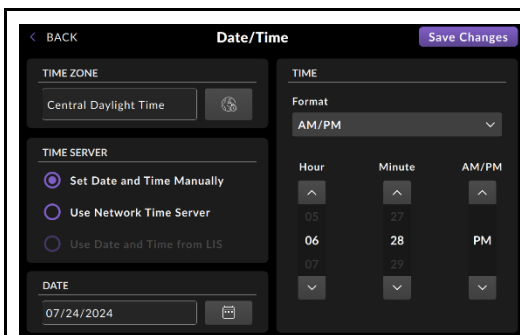
Date

- Tap the  icon to select the date.



Date

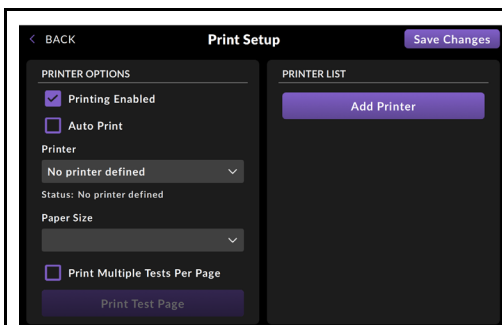
- Scroll through the **Year** list and tap on the relevant year.
- Scroll through the **Month** list and tap on the relevant month.
- Tap on the relevant date to choose the date.
- Tap **Select Date** to save changes.
- Tap **Cancel** to exit without saving.



Time

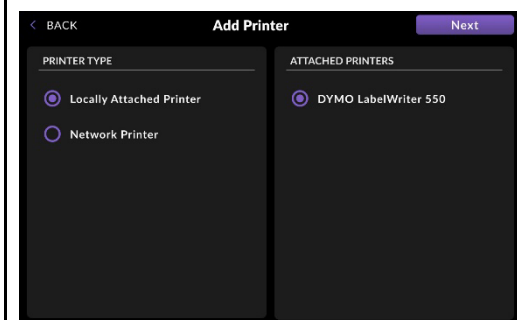
- If setting time manually, choose the time **format** from the drop-down list.
- Select the Hour, Minute and AM/PM setting using the / controls.
- Tap **Save Changes** to save preferences.

Print Setup



Printer List

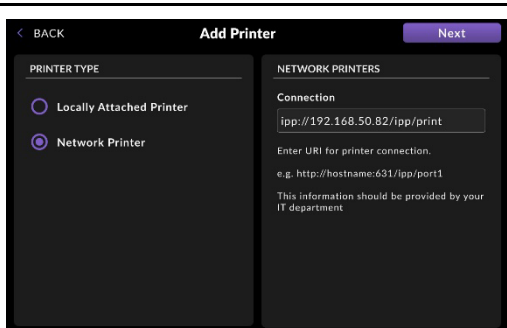
- To add a printer, tap the **Add Printer** button on the right-hand side of the **Print Setup** screen to begin the **Print Setup** wizard.
 - i This process may require technical details about the printer and/or network.



Screen 1a of **Print Setup** wizard (Locally Attached)

- By default, the printer is assumed to be connected to Savanna directly via a USB cable.
- If the printer added is locally attached:
 - choose the **Locally Attached Printer** radio button under **Printer Type**.
 - choose the radio button associated with the relevant printer under **Attached Printers**.

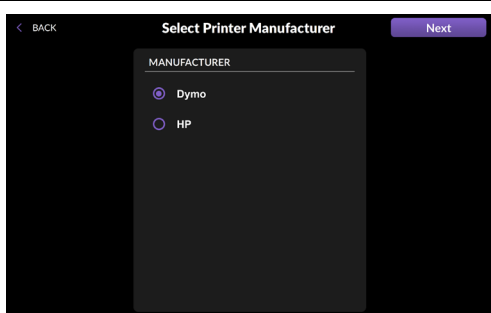
Tap **Next** to continue to screen 2 of the **Print Setup** wizard.



Screen 1b of **Print Setup** wizard (Network Printer)

- To add a printer that will be accessed over a network, select the **Network Printer** radio button under **Printer Type**.
 - i Type the URI for the printer into the Connection text field under Network Printers.
 - i Contact the IT department for this information.

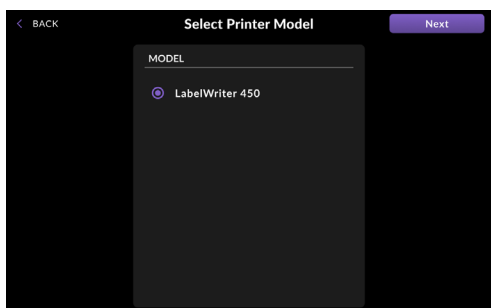
Tap **Next** to continue to screen 2 of the **Print Setup** wizard.



Screen 2 of **Print Setup** wizard Manufacturer

- Choose the radio button associated with the printer manufacturer.

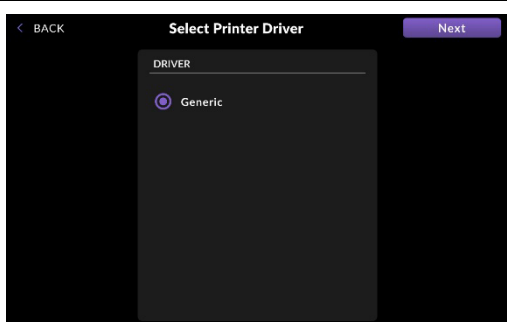
Tap **Next** to continue to screen 3 of the **Print Setup** wizard.



Screen 3 of **Print Setup** wizard Model

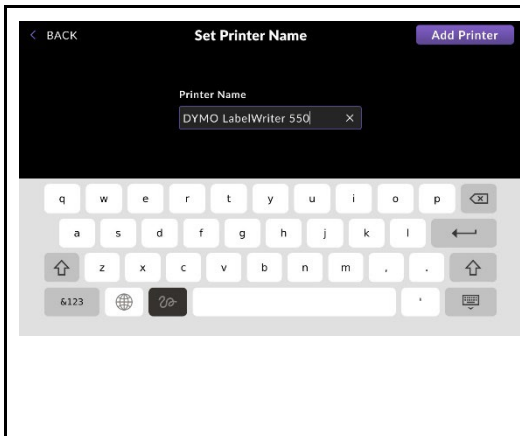
- Choose the radio button associated with the printer model.
 - i Contact the IT department for this information.

Tap **Next** to continue to screen 4 of the **Print Setup** wizard.



Screen 4 of **Print Setup** wizard Driver

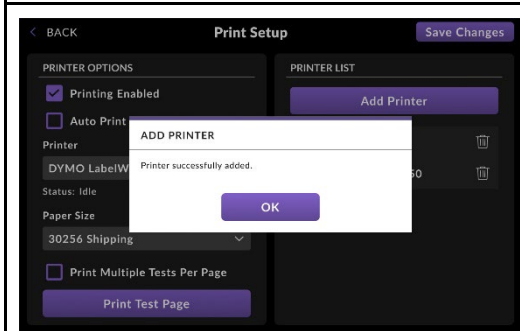
- If there is one radio button, tap **Next** to continue.
 - i Contact the IT department if there is no driver on the list or if it is not clear which driver to choose.



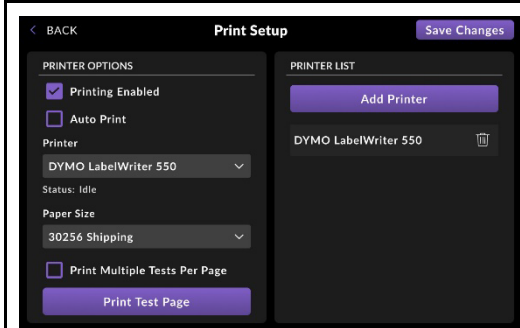
Screen 5 of **Print Setup** wizard

Printer Name

- To assign a name to the printer, enter the name into the **Printer Name** text box using the on-screen keyboard.
- To finish adding the printer, tap **Add Printer** to exit the **Print Setup** wizard.

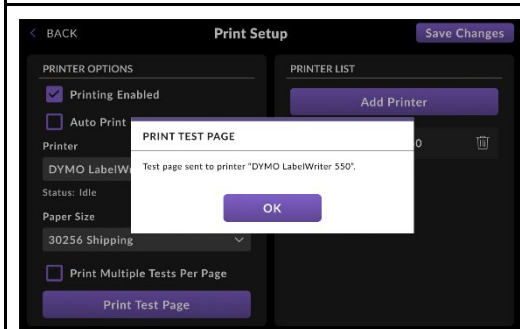


- A notification with a message that the printer was added successfully should be displayed.
- Tap **OK** to dismiss the pop-up notification.



Printer List

- The printer that was just added should be on the printer list.
- To add another printer, repeat this process from the beginning.



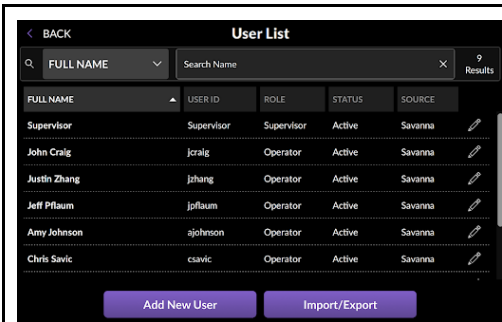
- The user has the option of printing a test page to ensure the newly added printer is connected to the instrument properly. To print a test page, tap **Print Test Page** at the bottom on the left-hand side.
- The test page will be printed, and a confirmation window will be displayed.
- Tap **OK** to dismiss the confirmation window.

User Management

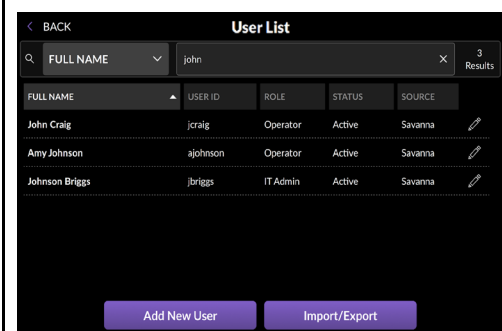
The **User Management** menu includes the **User List** screen, which can be used to view, search, sort and filter the list of users, as well as to view, add, edit, and delete individual users. It also includes the **User Settings**, **Login Settings**, and **Password Settings** screens.

User List: Search, Sort, and Filter

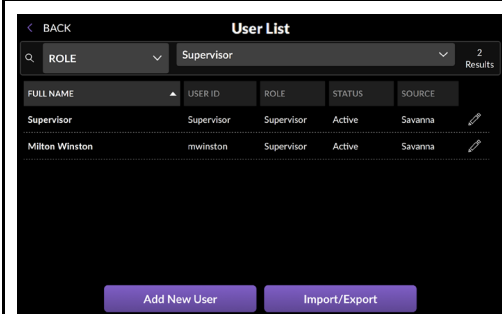
Access the User List screen by navigating to **Menu > Setup > User Management > User List**.



- Search users using menu options at the top.
- Using the drop-down list, choose the search criteria from the following options: name, role, status or source.



- If searching based on name, refine the search by entering a name or part of a name in the text input field using the on-screen keyboard.



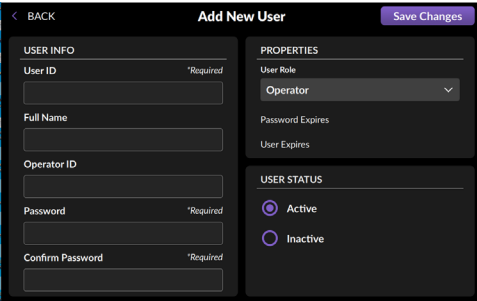
- If **Role**, **Status**, or **Source** was chosen, narrow down the search by selecting an option from the second drop-down menu.
- The **Role** search can be narrowed down to one of the following options using the second drop-down menu: **Supervisor**, **IT Admin**, **Operator**, or **All**.
- The **Status** search can be narrowed down to one of the following options using the second drop-down menu: **Active**, **Inactive**, or **All**.
- The **Source** search can be narrowed down to one of the following options using the second drop-down menu: **Savanna**, **LIS**, or **All**.

FULL NAME	USER ID	ROLE	STATUS	SOURCE
Justin Zhang	jzhang	Operator	Active	Savanna
John Craig	jcraig	Operator	Active	Savanna
Jeff Pflaum	jpflaum	Operator	Active	Savanna
Dan Lohnes	dlohnes	Operator	Active	Savanna
Chris Savic	csavic	Operator	Active	Savanna
Amy Johnson	ajohnson	Operator	Active	Savanna

- For any search, sort any column in ascending or descending order by tapping on the column header.

User List: Add New User

Tap **Add New User** on the **User List** screen to add a new user.



User Info

- Enter the User ID into the **User ID** text field. The user ID must be at least one and no more than 32 characters long.
- Enter the user's name and operator ID into the **Full Name** and **Operator ID** text field. These fields are optional. However, the reports and logs will be more complete if the full name is included.
- Enter a temporary password for the user into the **Password** and **Confirm Password** text fields.
 - i The on-screen keyboard will appear when the text input field is tapped.
 - i This temporary password will expire when the user logs in the first time. Before accessing Savanna, they will be required to create a new password.

Properties

- Assign the appropriate role to the new user using the **User Role** drop-down list.
- The default role is **Operator**. To add a user with either an **IT Admin** role or a **Supervisor** role, choose the desired role from the **User Role** drop-down list.

User Status

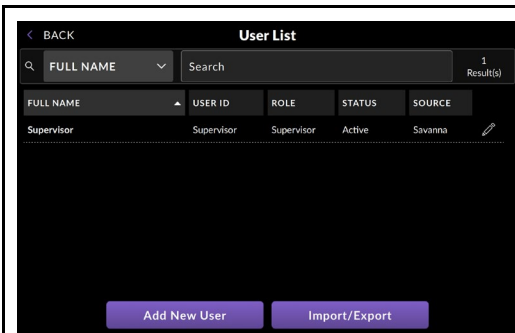
- The user will be active by default. To change the user's status to inactive, select the **Inactive** radio button.
- Tap **Save Changes** to save the new user.


User List: Edit User

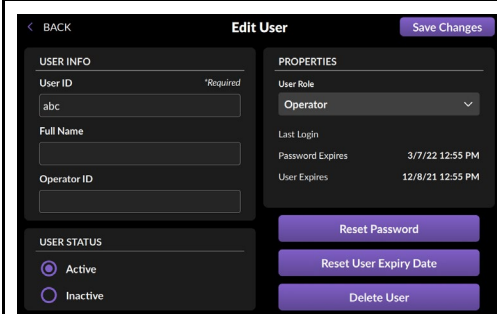
To edit a user account, start by navigating to **Menu > Setup > User Management > User List**.

The user's ID, name, user status, and user role can be edited on this page; additionally, the user's password and expiry date can be reset. Finally, the user record can be deleted, depending on the operator responsibility.

Tap **Save Changes** to update the record after making the desired changes.



- Tap the  to the right of the user record to open a screen with the user's details.

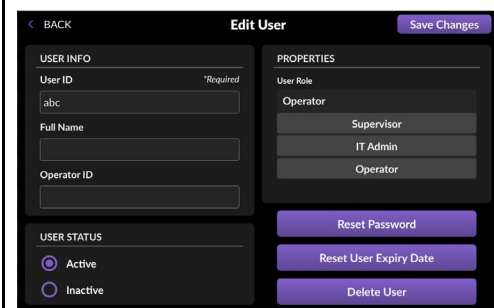


User Info

- To edit the User ID, use the on-screen keyboard to edit the text in the **User ID** text field.
- To edit the Full Name, use the on-screen keyboard to edit the text in the **Full Name** text field.

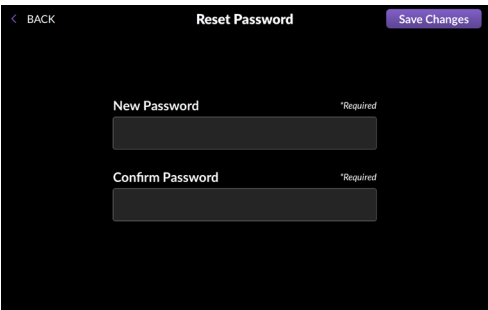
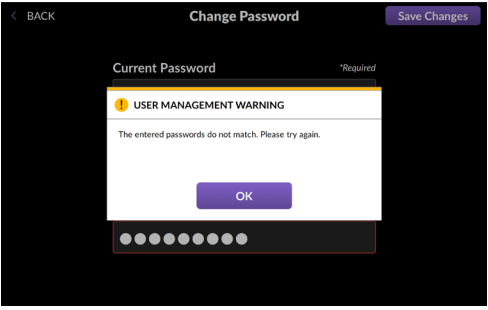
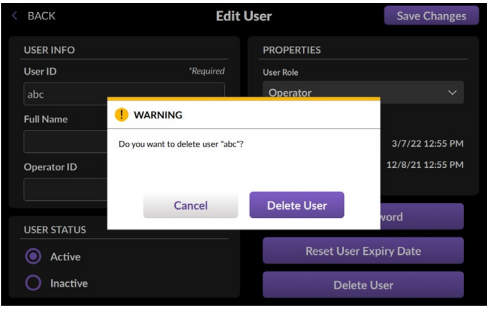
User Status

- Use the radio button to choose whether a user is active or inactive.
- Inactive users cannot login, but their account details are preserved.



Properties

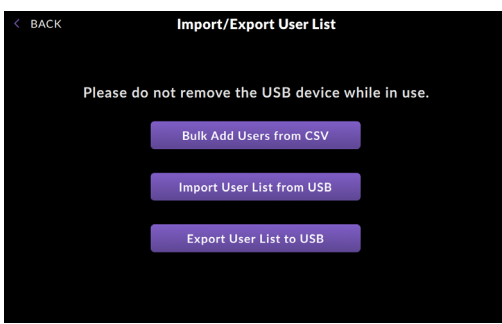
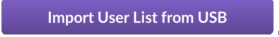
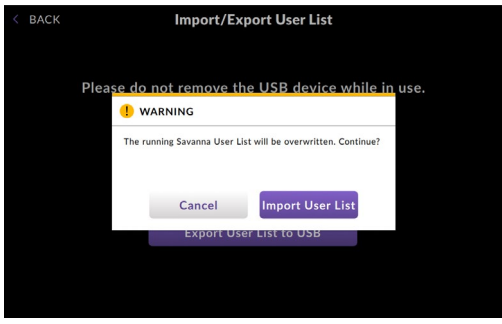


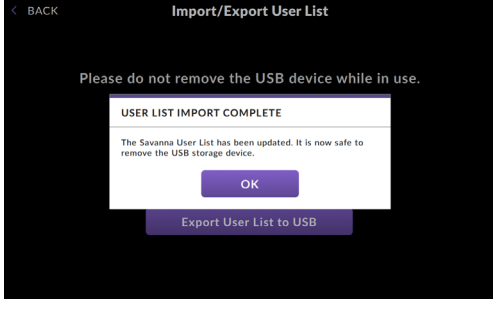

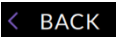
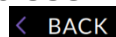
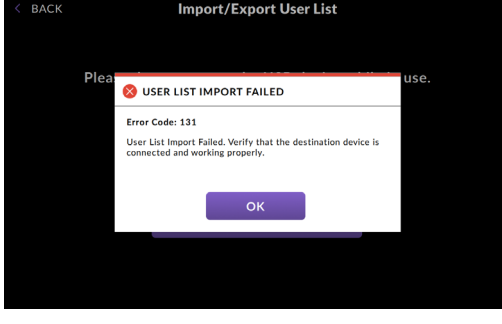

- To change the user's role, choose the desired role from the User Role drop-down list.
- Tap **Save Changes**.

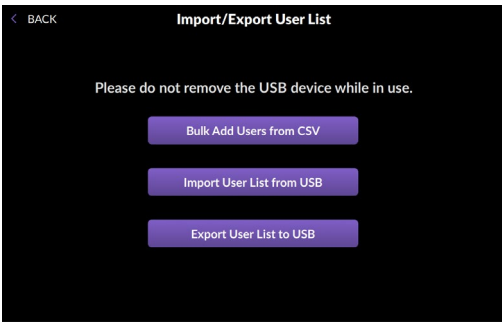
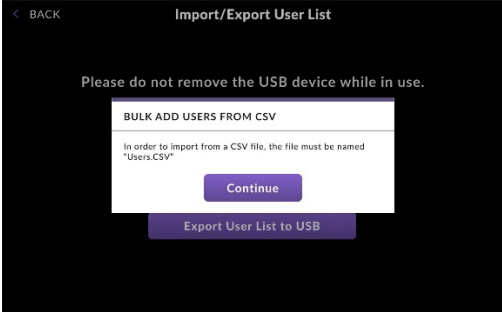
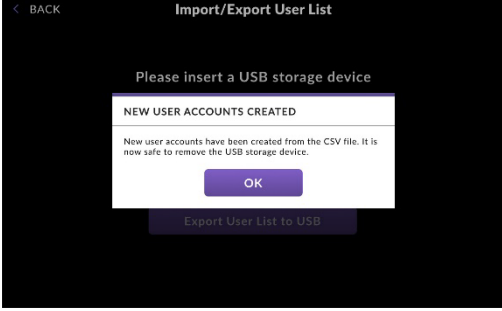
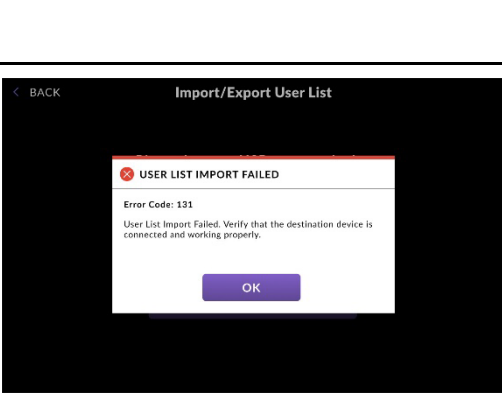
	<ul style="list-style-type: none"> ■ To change the user’s password, tap Reset Password. ■ On the Reset Password screen, enter and confirm the new password into the corresponding input fields using the on-screen keyboard. ■ Tap Save Changes.
	<ul style="list-style-type: none"> ■ If the passwords do not match, a User Management Warning window will appear, prompting error correction. ■ Tap OK to dismiss the error pop-up. ■ Check and reenter the password, then tap Save Changes.
	<ul style="list-style-type: none"> ■ To delete a user record, tap Delete User. A pop-up warning window will appear. ■ Confirm deleting the record by tapping Delete User on the pop-up window, or tap Cancel to retain the user. ■ Tap < BACK to return to the User List screen.

User List: Import User List

A user list previously exported from a Savanna system onto a USB storage device can be imported to the device.

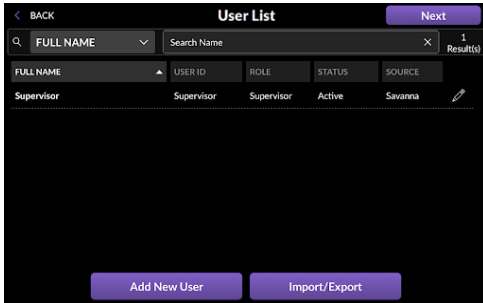
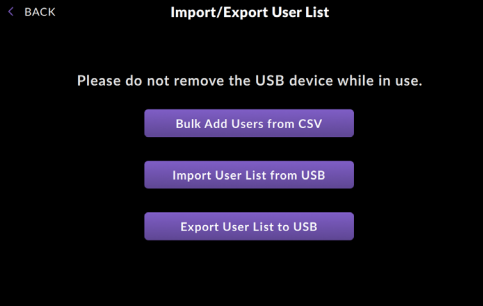
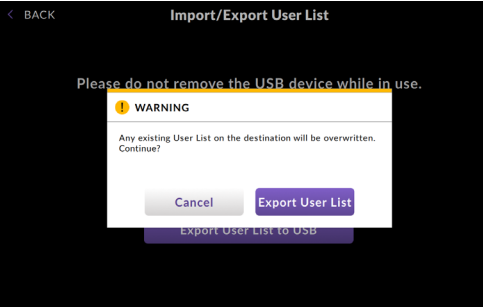
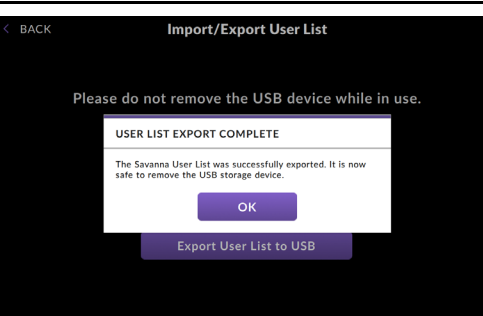
	<ul style="list-style-type: none"> ■ Insert the USB device with the previously exported user list into one of the USB ports on the back of the Savanna system. This should activate the “Import/Export” button if it was not already activated. ■ Tap Import/Export on the User List page to import a user list.
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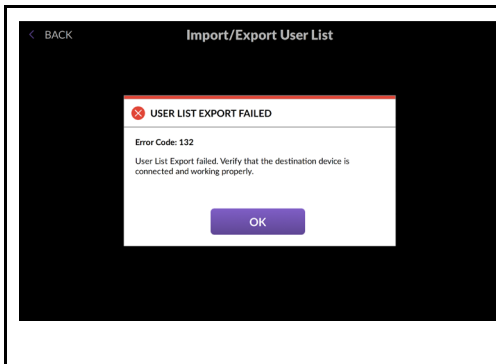
	<ul style="list-style-type: none"> To import a user list, tap .
	<ul style="list-style-type: none"> When importing the user list, a notification will be displayed with the message that the import will override the current/running Savanna User List. Tap  to override the existing list with the import. To keep the existing list and cancel the import, tap .
	<ul style="list-style-type: none"> After a few moments, a User List Import Complete notification will be displayed, which means that the user list was imported successfully. Tap  to dismiss the pop-up. Tap  to return to the User List screen, or continue tapping  to return to the Main menu or the Home screen.
	<ul style="list-style-type: none"> If the user list was not imported successfully, an error message displayed to the left will appear. The user records will need to be added manually, or the IT department will need to be contacted. Tap  to dismiss the pop-up.


	<ul style="list-style-type: none"> ■ If importing a bulk user list from a *.csv file, tap Bulk Add Users from CSV. ■ In order to import from a CSV file, the file must be formatted in three columns with the following information: "Full Name, User ID, Role" and saved with the name "Users.CSV".
	<ul style="list-style-type: none"> ■ A pop-up will be displayed informing the user that the CSV file must be named "Users.CSV". ■ Tap Continue.
	<ul style="list-style-type: none"> ■ After a few moments, a New User Accounts Created notification will be displayed, which means that the user list was imported successfully. ■ Tap OK to dismiss the pop-up. ■ Tap < BACK to return to the User List screen, or continue tapping < BACK to return to the Main menu or the Home screen.
	<ul style="list-style-type: none"> ■ If the user list was not imported successfully, an error message displayed to the left will appear. The user records will need to be added manually, or the IT department will need to be contacted. ■ Tap OK to dismiss the pop-up.

User List: Export User List

To export the user list to a USB storage device, first navigate to **Menu > Setup > User Management > User List**.

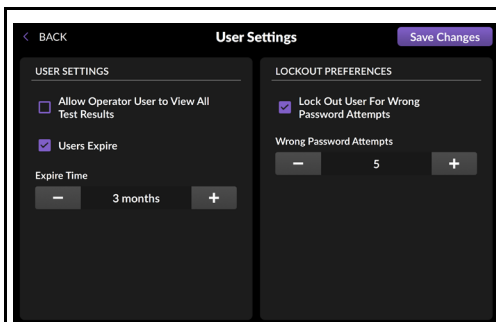
	<ul style="list-style-type: none">■ Insert an empty USB device into one of the USB ports on the back of the Savanna system.■ This should activate the Import/Export button on the User List screen if it was not already activated.■ Tap Import/Export on the User List screen to export a user list.
	<ul style="list-style-type: none">■ To export a user list, tap Export User List to USB.
	<ul style="list-style-type: none">■ When exporting the user list, a notification will be displayed with the message that the export will override any saved user list on the USB storage device.■ Tap Export User List to continue the export.■ To avoid overriding an existing user list on the USB storage device, tap Cancel.
	<ul style="list-style-type: none">■ When the export is complete, an informational pop-up will confirm that the operation was successful.■ Tap OK to dismiss the pop-up.■ Tap < BACK to return to the User List screen, or continue tapping < BACK to return to the Main menu or the Home screen.





- If the user list was not exported successfully, an error message displayed on the left will appear. Contact the IT department for assistance.
- Tap  to dismiss the pop-up.

User Settings




To adjust user settings, tap on **Menu > Setup > User Management > User Settings** from the **Home** screen.



User Settings

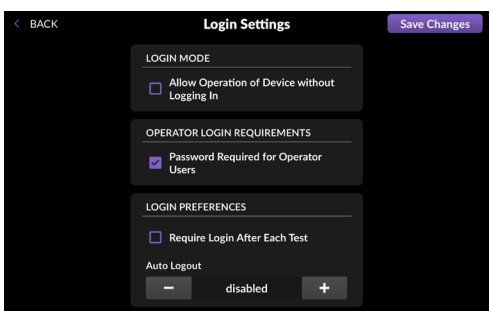
- Select the **Allow Operator User to View All Test Results** checkbox, if necessary.
- Select the **Users Expire** checkbox to let user IDs expire.
- If the **Users Expire** checkbox is selected, adjust the **Expire Time** from 3 to 12 months using the / controls.

Lockout Preferences

- Select the **Lock Out User For Wrong Password Attempts** checkbox, if necessary.
- If the lockout option is selected, adjust the allowed number of **Wrong Password Attempts** from 3 to 15 by using the / controls.
- Tap  to save changes to user settings.

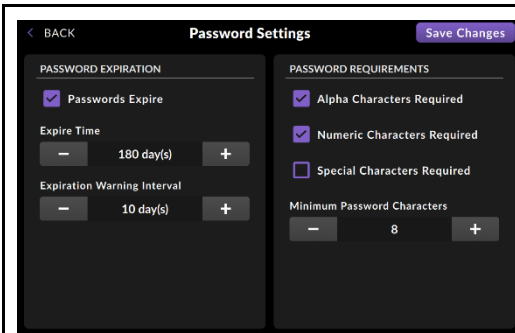
Login Settings

Navigate to **Login Settings** from the **Home** screen by tapping **Menu > Setup > User Management > Login Settings**.

	<p>Login Mode</p> <ul style="list-style-type: none">■ Operators are required to login by default. To enable running tests without login, select the Allow Operation of Device without Logging In checkbox. <p>Operator Login Requirements</p> <ul style="list-style-type: none">■ Passwords are required for Operator users by default. To waive this requirement, clear the Password Required for Operator Users checkbox. <p>Login Preferences</p> <ul style="list-style-type: none">■ Select the Require Login After Each Test checkbox to make logging in after each test mandatory.■ Set the Auto Logout preference by using the -/+ controls. If it is enabled, the time before logout can be set within the range of 5 to 120 minutes. <p>Tap Save Changes to save the login settings.</p>
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Password Settings

To navigate to **Password Settings** from the **Home** screen, tap **Menu > Setup > User Management > Password Settings**.



Password Expiration

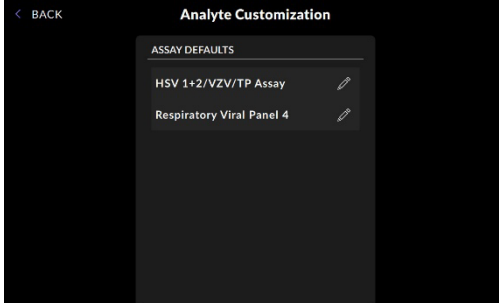

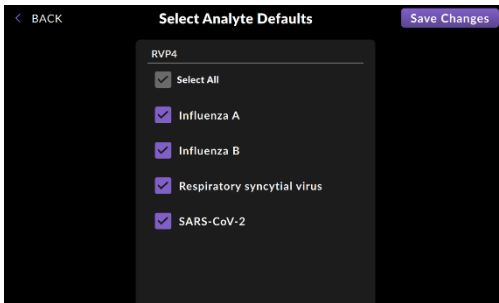

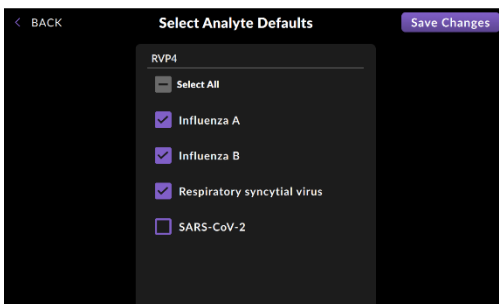
- Passwords expire by default. To allow for passwords that do not expire, clear the **Passwords Expire** checkbox.
- If passwords are set to expire, set the password expiration time frame by adjusting the **-/+** controls on the **Expire Time** spinbox.
- Set the **Expiration Warning Interval** by adjusting the **-/+** controls on the spinbox.
 - i The Expiration Warning Interval determines when users will be warned that their password will expire soon. For example, if it is set to 10 days, they will get a reminder 10 days before expiration.

Password Requirements

- Alpha and numeric characters are both required by default, and Special Characters are not required by default.
- To remove the requirement for Alpha Characters, tap to clear the **Alpha Characters Required**.
- To remove the requirement for Numeric Characters, tap to clear the **Numeric Characters Required**.
- Tap to select the **Special Characters Required** checkbox to make special characters required.
- Set the minimum password characters to a number between 5 to 28 by using the **-/+** controls on the **Minimum Password Characters** spinbox.
- Tap **Save Changes** to save the password settings.

Analyte Customization

The **Analyte Customization** screen allows for each panel to be edited for test inclusion and for selection of tests to be included as defaults for each panel. To set up these defaults, navigate to **Menu > Setup > Analyte Customization**.

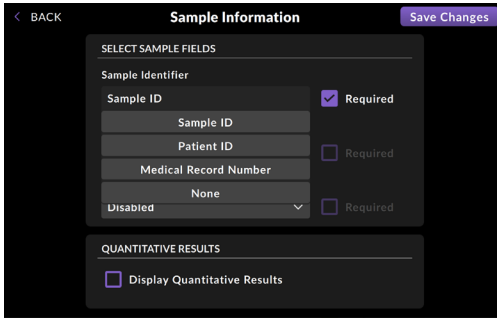
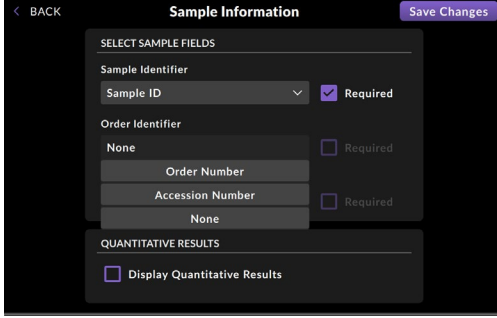
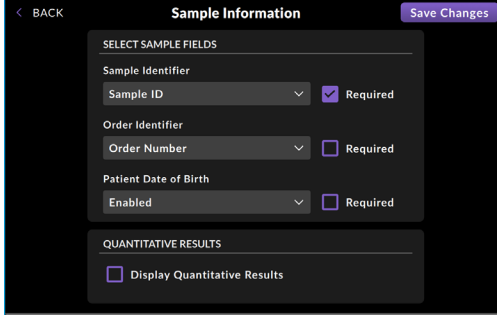
	<ul style="list-style-type: none">■ The Analyte Customization screen shows a list of panels that can be customized.■ Tap the  icon next to the panel to be modified to open the complete list of tests in the panel.
	<ul style="list-style-type: none">■ Tap the  icon next to the panel to be modified to open the complete list of tests in the panel.■ All tests are selected by default.■ To select individual tests, first uncheck the Select All box. Then, check the boxes next to the tests to be included.
	<ul style="list-style-type: none">■ Once the tests are selected, tap Save Changes to save and return to the Assays Defaults screen.■ Repeat this for any other panels that need to be modified.■ Tap < BACK to return to the Setup menu.

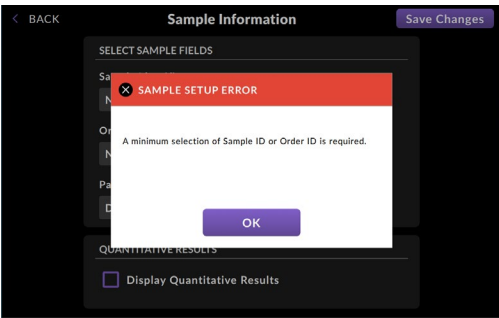
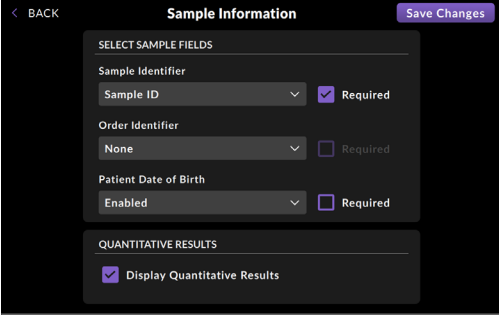
Manage Bays

The **Manage Bays** is not currently available.

Sample Information

To set up the sample information, navigate to **Menu > Setup > Sample Information** from the **Home** screen. Either a Sample Identifier or an Order Identifier is required.

	<p>Select Sample Fields</p> <ul style="list-style-type: none">■ Select the Sample Identifier from the Sample Identifier drop-down list. The options, also shown at left, are as follows: Sample ID, Patient ID, Medical Record Number, or None.■ To make Sample Identifier optional, clear the Required checkbox (Note: if this is done, an option for Order Identifier will need to be selected and marked required).
	<p>Select Sample Fields</p> <ul style="list-style-type: none">■ Select the Order Identifier from the Order Identifier drop-down list. The options, also shown at left, are as follows: Order Number, Accession Number, or None.■ To make Order Identifier optional, clear the Required checkbox (Note: if this is done, an option for Sample Identifier will need to be selected and marked required).
	<p>Select Sample Fields</p> <ul style="list-style-type: none">■ To include Patient Date of Birth in the sample information, select Enabled from the drop-down list.■ To require the Patient Date of Birth for each patient test, tap the Required checkbox.

	<ul style="list-style-type: none"> ■ If neither the Sample Identifier nor the Order Identifier is set as required, a Sample Setup Error will be displayed, as shown on the left. ■ Tap OK to dismiss the pop-up. ■ Make sure that either the Sample Identifier or the Order Identifier is set as required, by marking the Required checkbox next to one of the options. See previous steps for more detailed instructions. ■ Tap Save Changes to save sample information settings.
	<ul style="list-style-type: none"> ■ Quantitative results. The CT values are displayed under each positive analyte on the Patient Results screen and on printed results for all analytes that are positive. To enable displaying and printing CT values, select the checkbox next to Display Quantitative Results.

Setup Wizard

The **Setup Wizard** that makes up much of the Initial Setup section of this document is also accessible through the Setup Menu. It can be run at any time to update the Savanna configuration. See the **Setup Wizard** section for a detailed explanation.

Network Settings

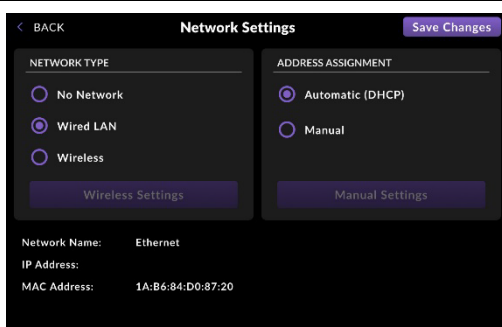
Network Settings

Tap on **Menu > Setup > Network Settings** to get to **Network Settings** from the **Home** screen. There are three possible network settings: not connected, connected to a Wired LAN or connected to a Wireless network.

No Network

If the Savanna instrument will not be connected to a network at this time, select the **No Network** radio button in the **Network Type** section of the **Network Settings** screen. Tap **Save Changes**.

Wired LAN

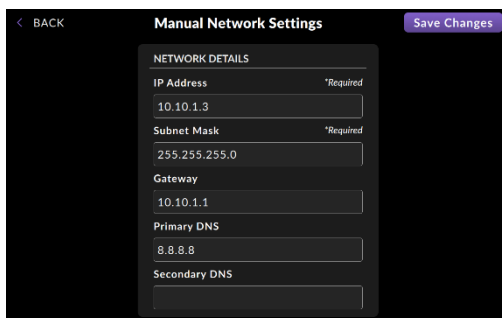


Network Type

- By default, Savanna expects to be connected via Ethernet to a wired LAN. If it is not already selected, select the **Wired LAN** radio button.
- If an automatic address assignment can be used, tap **Save Changes**.
- The connection has been established. Exit the menu by tapping **< BACK** until the **Home** screen is reached.

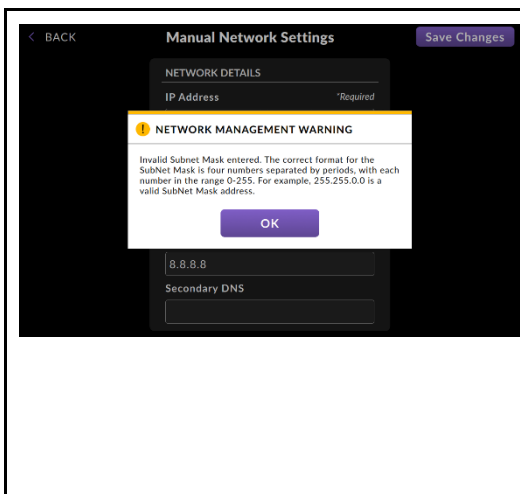
Address Assignment

- If the IP address will be assigned manually, select the **Manual** radio button. Tap **Save Changes**.
- Tap **Manual Settings** to enter the relevant network details.



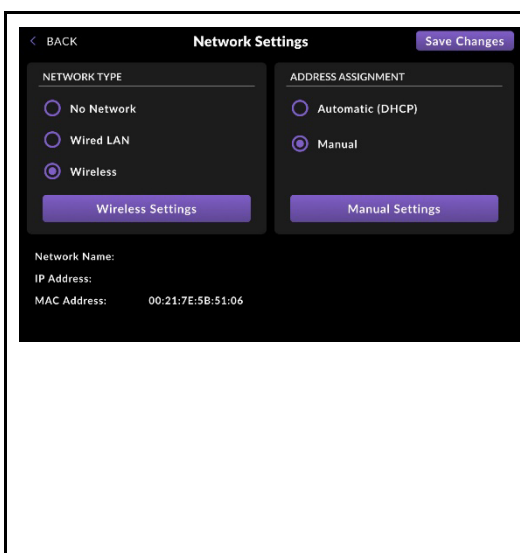
Network Details

- Enter the relevant network details into the **IP Address**, **Subnet Mask**, **Gateway**, **Primary DNS**, and **Secondary DNS** text input fields using the on-screen keyboard.
- Tap **Save Changes**.
- Tap **< BACK** to return to the **Network Settings** screen.
 - i Consult the IT department for this information.
 - i The on-screen keyboard will appear when the text input field is tapped.



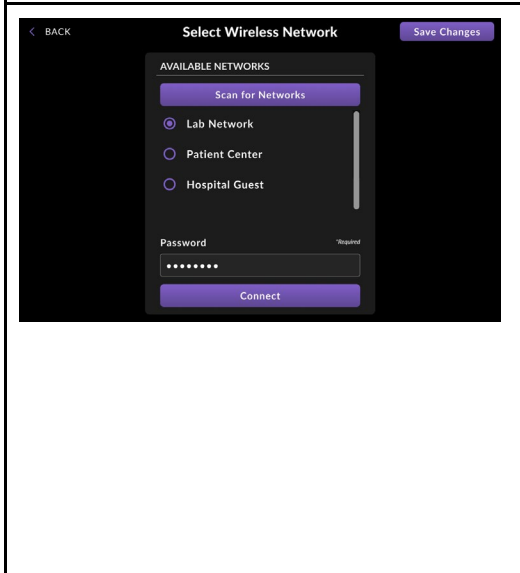
- If one or more of the fields in the **Manual Network Settings** screen is invalid, a warning pop-up will be displayed indicating which field caused the problem.
- Tap **OK** to dismiss the pop-up.
- Correct the details entered in the relevant fields and tap **Save Changes** again.
- Tap **< BACK** to return to the **Network Settings** screen.

Wireless Network



Network Type

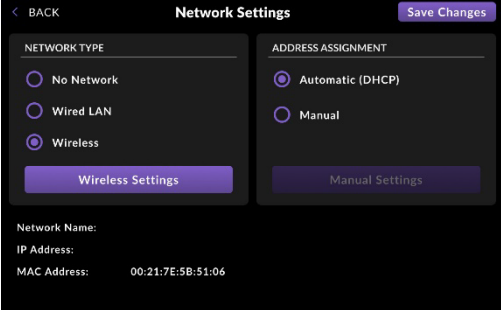
- By default, Savanna expects to be connected to a wired LAN. To connect via a wireless network, choose the **Wireless** radio button.
- This will activate the **Wireless Settings** button.
- Tap **Save Changes**.
- Tap the **Wireless Settings** button to set up the connection.

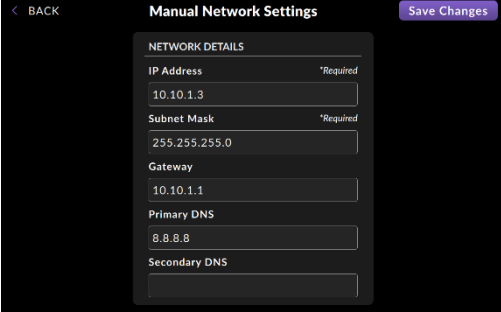


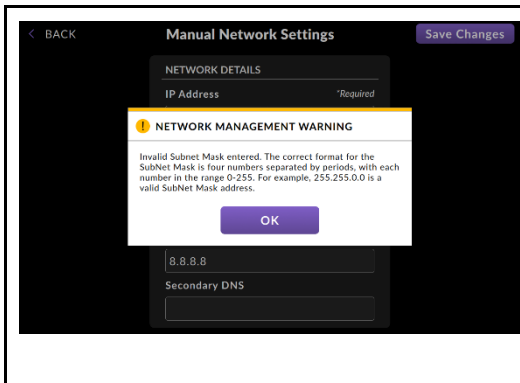
Available Networks

- Select the relevant network to connect to from the list under **Available Networks**.
- Enter the network password into the text input field using the on-screen keyboard and tap **Connect**.
- If the relevant network is not on the list, tap **Scan for Networks**, then follow the steps above.
- If no networks are available, consult the IT department for help.

	<ul style="list-style-type: none"> ■ Tap Save Changes. ■ Tap < BACK to return to the Network Settings screen.
--	---

	<h3>Address Assignment</h3> <ul style="list-style-type: none"> ■ If an automatic address assignment can be used, choose the Automatic (DHCP) radio button, then tap Save Changes. ■ The connection has been set up. To exit the menu, tap the < BACK button until the Home screen is reached. ■ Or, tap the Manual radio button to activate the Manual Settings button. ■ Tap the activated Manual Settings to open the Manual Network Settings screen. ■ The view will transition to a screen where network details can be entered.
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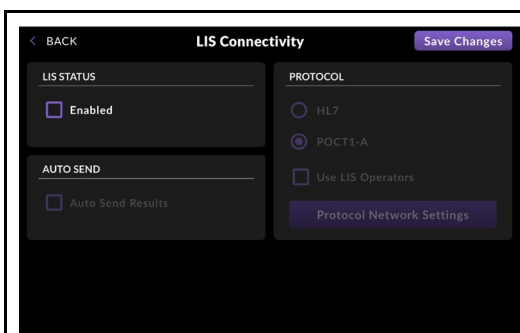
	<h3>Network Details</h3> <ul style="list-style-type: none"> ■ Enter the relevant network details into the IP Address, Subnet Mask, Gateway, Primary DNS, and Secondary DNS text input fields using the on-screen keyboard. ■ Tap Save Changes. ■ Tap < BACK to return to the Network Settings screen. <ul style="list-style-type: none"> i Consult the IT department for this information. i The on-screen keyboard will appear when the text input field is tapped.
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- If one of the criteria entered is invalid, a warning window may be displayed. Tap **OK** to remove the window.
- Enter the corrected details in the relevant fields and tap **Save Changes** again.
 - i Consult the IT department for relevant information.

LIS Connectivity

To adjust the lab connectivity settings, tap **Menu > Setup > LIS Connectivity** from the **Home** screen.



LIS Status

- Select the **Enabled** checkbox to enable receiving orders and sending results manually via LIS.
- If LIS is enabled, the Savanna instrument can be set up to send results automatically by selecting the **Auto Send Results** checkbox.

Protocol

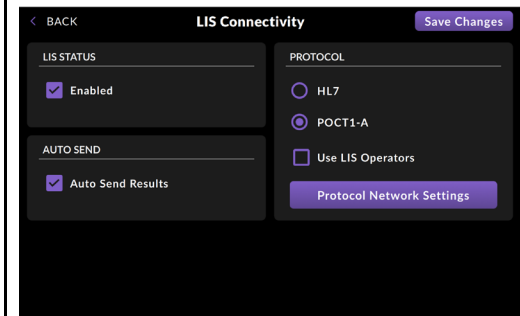
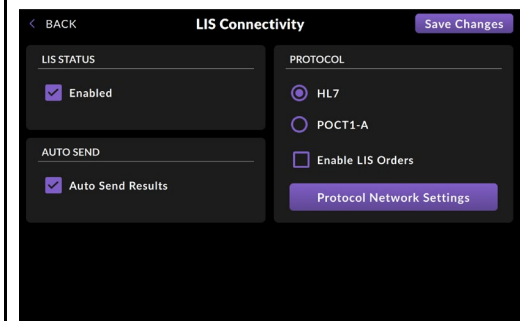
- The next step depends on whether HL7 or POCT1-A is used.

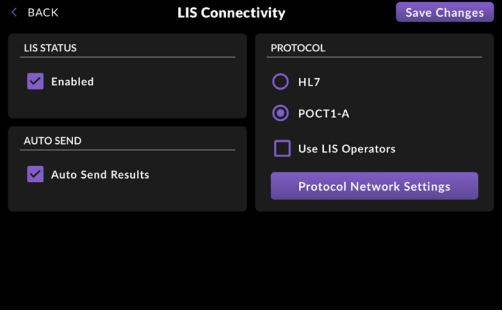
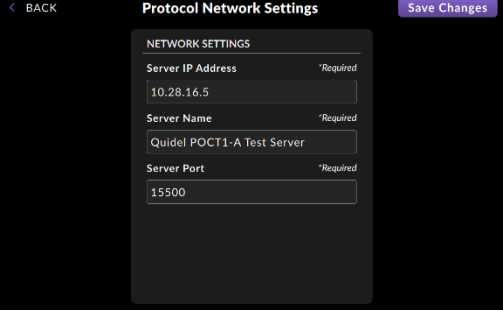
To set up HL7 Protocol (default)

- Select the **HL7** radio button to set the protocol to Health Level 7.
- Select the **Enable LIS Orders** checkbox to enable lab information system orders.
- Tap **Save Changes** to save changes made on this screen.

To set up POCT1-A Protocol

- Select the **POCT1-A** radio button to use the point-of-care/observation reviewer communication standard.
- Select the **Use LIS Operators** checkbox to use LIS operators.

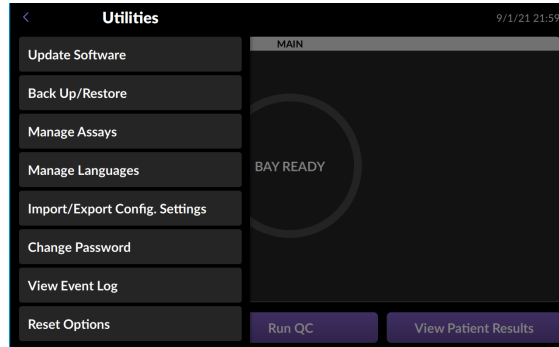


	<ul style="list-style-type: none"> ■ Tap Save Changes to save changes made on this screen.
 <p>The screenshot shows the 'LIS Connectivity' screen. It has a dark background with white text. At the top left is a '< BACK' button, and at the top right is a 'Save Changes' button. The screen is divided into two main sections: 'LIS STATUS' and 'PROTOCOL'. Under 'LIS STATUS', there is a checkbox labeled 'Enabled' which is checked. Under 'PROTOCOL', there are two radio button options: 'HL7' and 'POCT1-A', with 'POCT1-A' selected. Below these, there is a checkbox labeled 'Use LIS Operators' which is unchecked. At the bottom right of the screen is a 'Protocol Network Settings' button.</p>	<p>Complete HL7 or POCT1-A Setup</p> <ul style="list-style-type: none"> ■ Tap Protocol Network Settings to enter the LIS network settings (for either HL7 or POCT1-A). ■ The view will transition to the LIS Protocol Settings screen.
 <p>The screenshot shows the 'Protocol Network Settings' screen. It has a dark background with white text. At the top left is a '< BACK' button, and at the top right is a 'Save Changes' button. The screen features a 'NETWORK SETTINGS' section with four text input fields, each marked as '*Required': 'Server IP Address' (containing '10.28.16.5'), 'Server Name' (containing 'Quidel POCT1-A Test Server'), and 'Server Port' (containing '15500').</p>	<p>Network Settings</p> <ul style="list-style-type: none"> ■ Enter the LIS network settings into the Server IP Address, Server Name, and Server Port text input fields using the on-screen keyboard. ■ Tap Save Changes. <ul style="list-style-type: none"> i Consult the IT department for this information. i The on-screen keyboard will appear when the text input field is tapped.

When LIS connectivity is enabled, additional functionality is available to support initiating tests and reporting results via LIS. For more information, refer to the **LIS Orders** section.

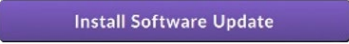
Utilities Menu

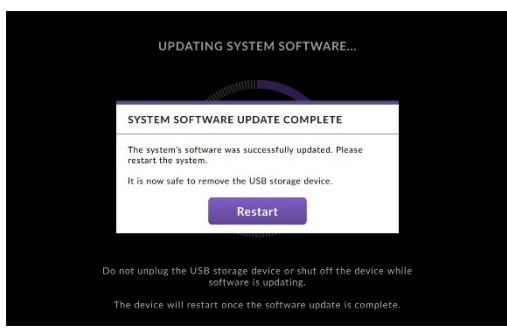
The **Utilities** menu can be accessed from the main screen by tapping on **Menu > Utilities**. It allows the supervisor to modify and update various system settings – for example, to update software, restore or backup, and to manage assays and languages, among others.



Update Software

To update software, navigate to **Menu > Utilities > Update Software**.


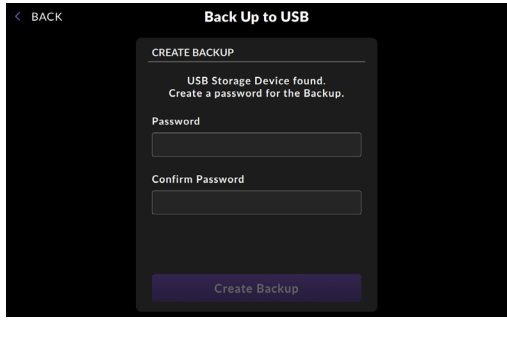
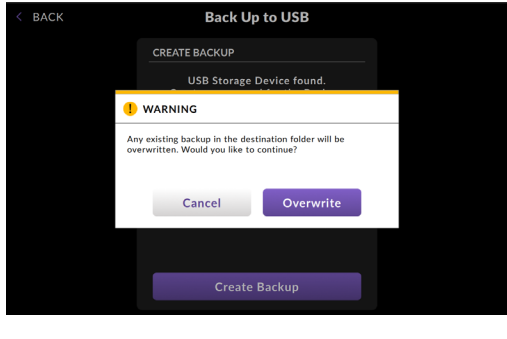
	<ul style="list-style-type: none">■ Insert the USB storage device with the Savanna update files into one of the Savanna USB ports.■ A list of files that can be used to update the system will be displayed. Select the appropriate software version, if not already selected.■ Tap  .
	<ul style="list-style-type: none">■ Once the Install Software Update button is tapped, an Updating System Software screen will be displayed.■ Do not unplug the USB device or shut down the device during the update.■ Once the software update is complete, the instrument will be restarted.

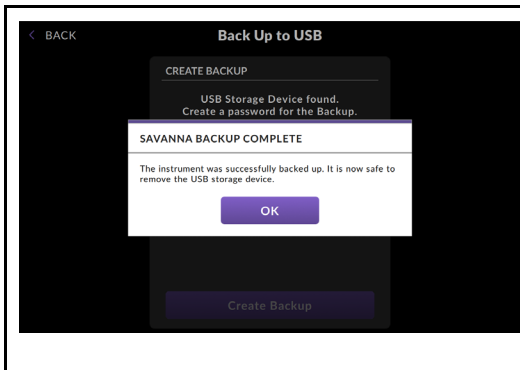
	<ul style="list-style-type: none"> Tap Restart. After this restart Savanna will be ready to use.
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Back Up/Restore

To back up or restore Savanna, navigate to **Menu > Utilities > Back Up / Restore**.

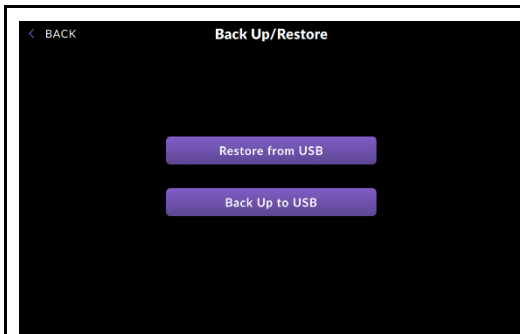
Backup Savanna

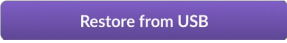

	<p>Backup activated</p> <ul style="list-style-type: none"> Make sure an empty USB device is inserted into the Savanna instrument to activate the Back Up to USB button. Tap Back Up to USB.
	<ul style="list-style-type: none"> Enter and confirm a password for the USB storage device. Tap Create Backup to continue the backup process.
	<ul style="list-style-type: none"> Backing up data to the USB will override any existing data on the external device. A warning window with this information will be displayed when the backup is initiated. Tap Overwrite to continue the backup process. Tap Cancel to stop the backup process.

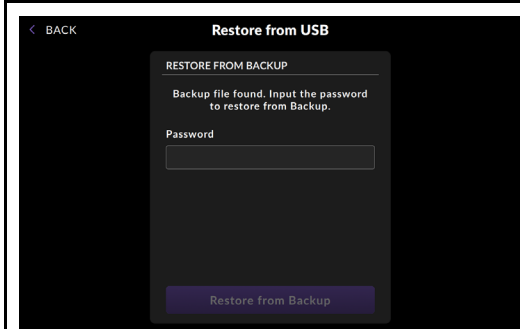


- Once the backup is complete, a **Savanna Backup Complete** notification window will be displayed.
- Tap  to dismiss the window.
- The USB device can now be removed.

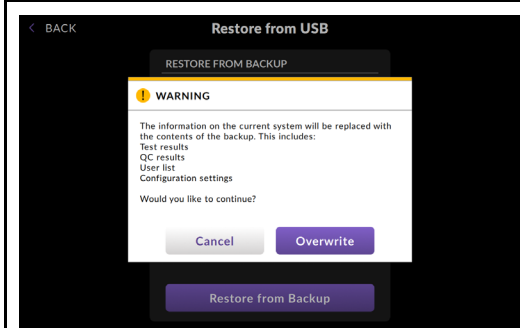
Restore Savanna

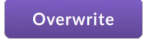



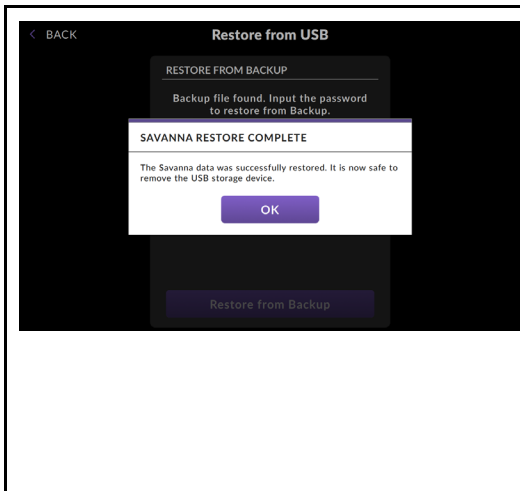
- Insert a USB device that contains a backup from a Savanna analyzer to activate the  button.
- Tap .



- Enter the password used to save the Savanna backup data.
- Tap  to continue.



- A warning window will display the notification that the current Savanna data will be overwritten from the backup.
- To continue the restore and overwrite the current Savanna data, tap .
- To cancel the restore, tap .

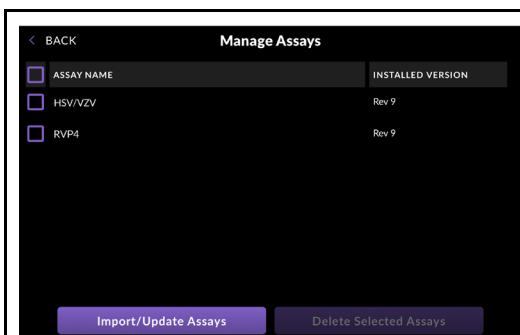


- Once the restore is complete, a **Savanna Restore Complete** window will be displayed.
- Tap **OK** to dismiss the window.
- The USB device can now be removed.
- Tap **< BACK** twice to return to the **Utilities** screen, or continue tapping **< BACK** to return to the **Main** menu or the **Home** screen.

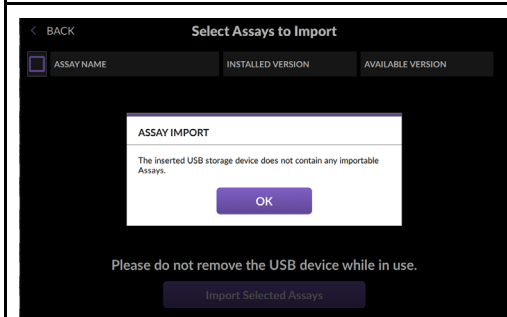
Manage Assays

To review, add, delete or update the assays on Savanna, navigate to **Menu > Utilities > Manage Assays**.

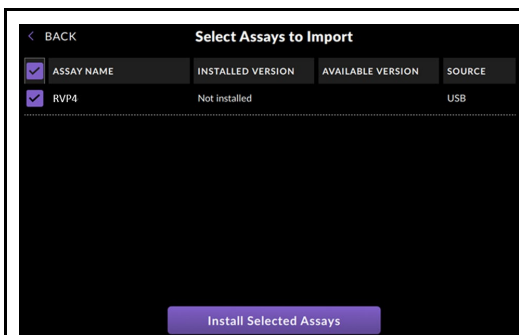
Import/Update Assays




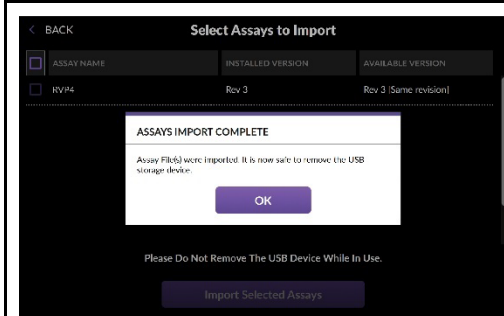
- Insert a USB device that contains assay files to import or device.
- Select the box next to the assay that needs to be installed or updated and tap **Import/Update Assays**.




- If the system cannot find any assays that are correctly stored on the USB device and compatible with the user's system, an error message on the left will be displayed.
- Tap **OK** to remove the message.

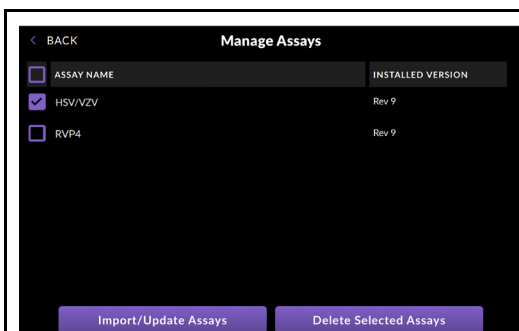



- Tap  to install the assay file.

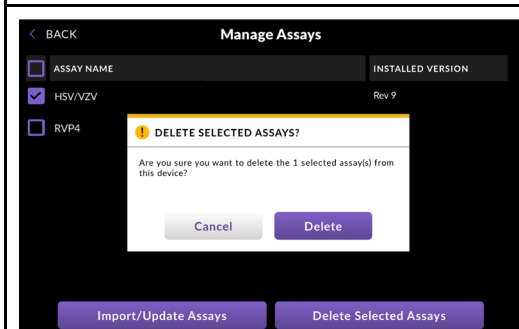



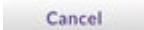
- If the assay file was successfully imported, an **Assay Import Complete** notification will be displayed.
- Tap  to remove the notification.
- Remove the USB device.

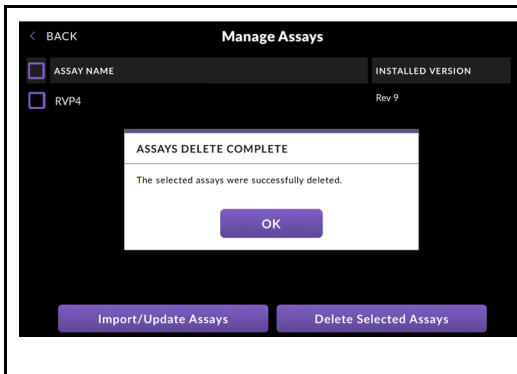
Delete Selected Assays



- If an assay needs to be deleted, check the box or boxes next to the relevant assays and tap .



- Deleting assays will remove them from the Savanna instrument. To confirm assay removal, a window will appear for confirmation.
- To continue with assay deletion, tap .
- To cancel the assay deletion, tap .

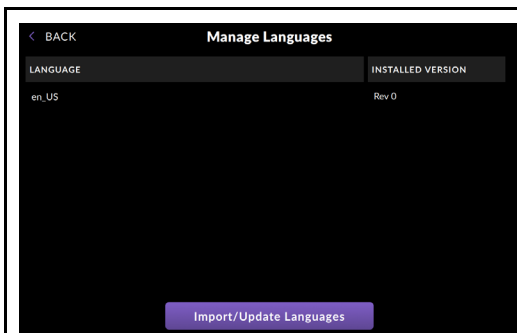


- An **Assays Delete Complete** notification will be displayed when the assay has been successfully deleted.
- Tap **OK** to remove the notification.
- Tap **< BACK** to return to the **Utilities** screen.

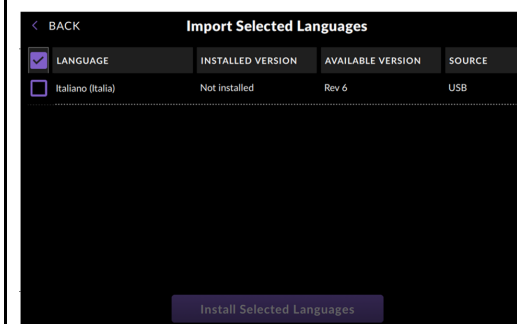
Manage Languages

To add or update the languages supported by Savanna, navigate to **Menu > Utilities > Manage Languages**.

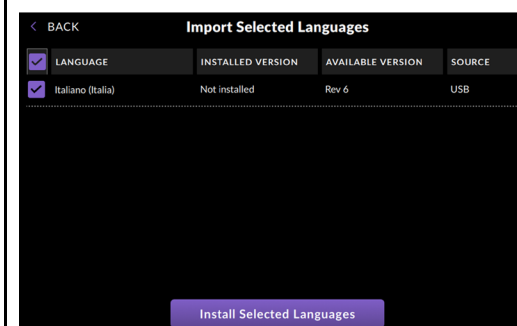
Add or Update Languages



- To import new languages, insert a USB device with the languages to be added and tap **Import/Update Languages**.



- When **Import/Update Languages** is tapped, a list of languages currently on Savanna and on the USB device will be displayed.
- The list includes both the installed and the available version of each language, as applicable.






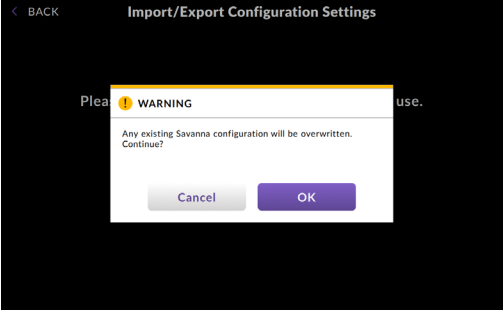


- To add a language, select the checkbox next to the language to be imported and tap **Install Selected Languages**.
- Reboot Savanna to convert keyboard to new language format.

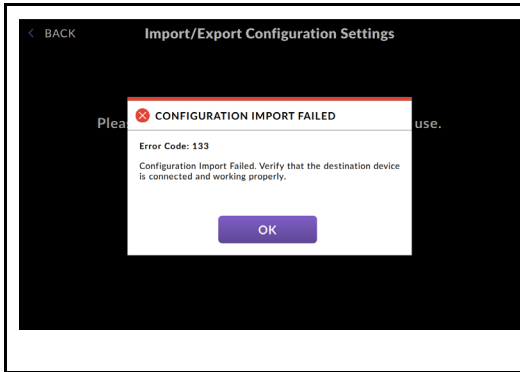
Import/Export Configuration Settings


To import or export the Savanna configuration, navigate to **Menu > Utilities > Import/Export Configuration Settings**.

Import Configuration Settings

The user can import a Savanna configuration that has been exported from another Savanna system and saved onto a USB storage device. This can be done in the **Setup Wizard** when the instrument is set up or at any time from the **Home** screen by tapping on **Menu > Utilities > Import/Export Configuration Settings**.

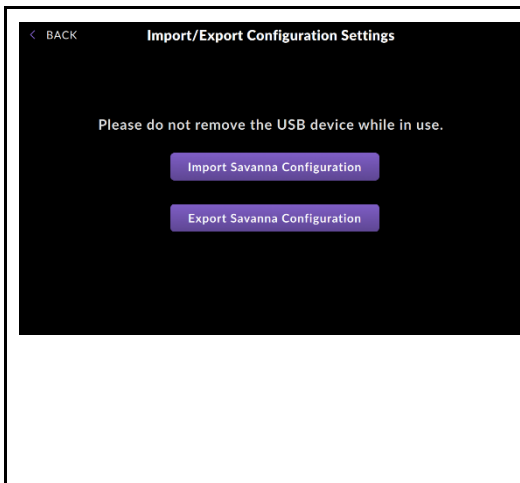
 <p>USB Ports</p>	<ul style="list-style-type: none"> ■ To import a setup configuration, insert a USB device into the Savanna USB port. ■ The USB device should contain a previously exported Savanna setup configuration.
	<ul style="list-style-type: none"> ■ Inserting a USB device will activate the Import Savanna Configuration button. ■ Tap .
	<ul style="list-style-type: none"> ■ A warning window will display the notification that the current Savanna configuration will be overwritten. ■ To continue the configuration import and overwrite the current Savanna configuration, tap . ■ To cancel the configuration import, tap .

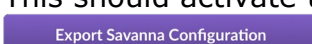



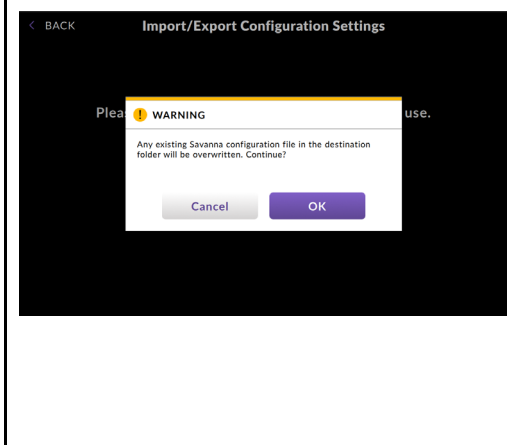
- If the configuration was not imported successfully, an error message displayed on the left will appear. Contact the IT department for assistance.
- Tap  to dismiss the pop-up.



Export Configuration Settings

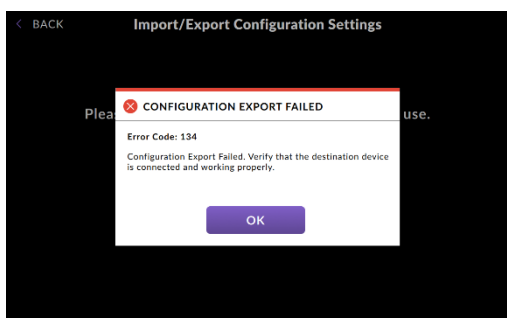
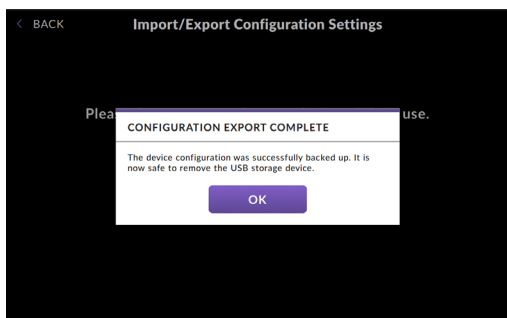
To export the Savanna configuration, navigate to **Menu > Utilities > Import/Export Config. Settings**.



- Insert an empty USB storage device.
- This should activate the  button.
- Tap  to export the settings.
 - i Use an empty USB storage device, as any existing contents will be overwritten when the configuration is exported.

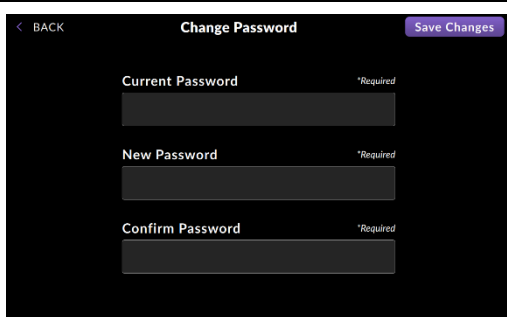
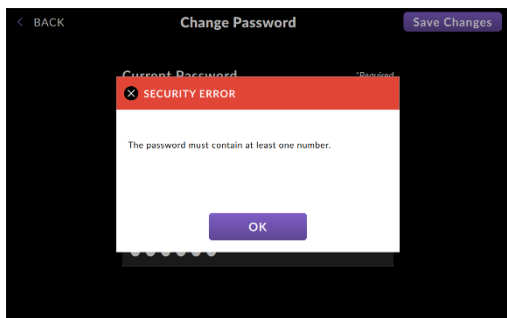


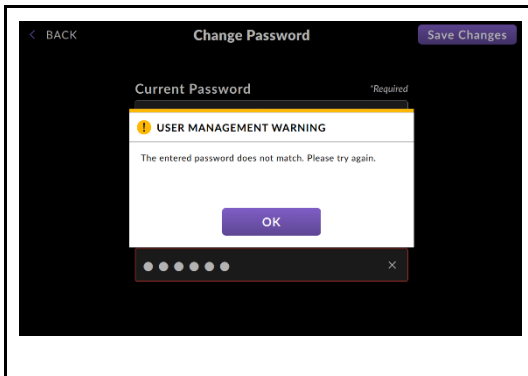
- A warning window will display the notification that any Savanna configuration file in the destination folder will be overwritten.
- To continue the configuration import and overwrite the current Savanna configuration, tap .
- To cancel the configuration import, tap .

	<ul style="list-style-type: none"> ■ If the configuration export failed, a pop-up error message will appear. ■ Tap OK to dismiss the pop-up. ■ Make sure the device is connected and working properly, then tap Export Savanna Configuration again. ■ If export configuration still fails, seek IT assistance.
	<ul style="list-style-type: none"> ■ If the configuration export was successful, a pop-up message will appear. ■ Tap OK to dismiss the pop-up. ■ Tap < BACK to return to the Utilities screen.

Change Password

For password changes, navigate to **Menu > Utilities > Change Password**.

	<ul style="list-style-type: none"> ■ Input the current password, as well as the new password and password confirmation into the corresponding text input fields using the on-screen keyboard. ■ Tap Save Changes to save. ■ This action will close the Change Password screen and display the Utilities screen.
	<ul style="list-style-type: none"> ■ If the password character or other requirements are not met, a security error pop-up window may be displayed, as shown. ■ Tap OK, correct the password entry, and confirm password. ■ Tap Save Changes.

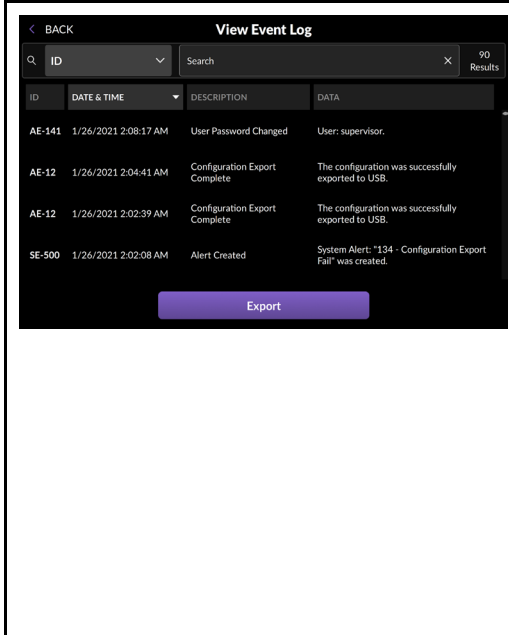


- If the passwords do not match, a **User Management Warning** window may be displayed, as shown.
- Tap **OK**, correct the password entry, and confirm with matching password.
- Tap **Save Changes**.

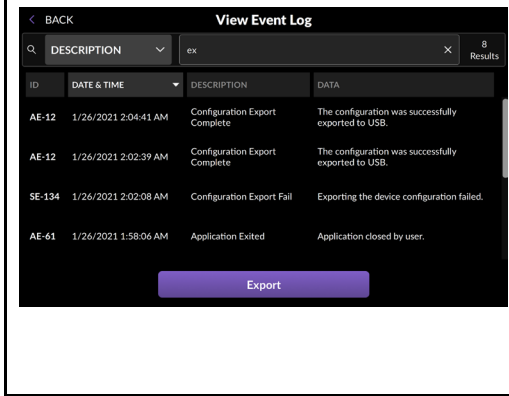
View Event Log

The event log includes information about who has logged into or out of the system, the tests they have run, and settings they have changed. It also includes information about any errors that arose from these actions. Supervisors can see all of the events, however operators can only see events associated with their own activities.

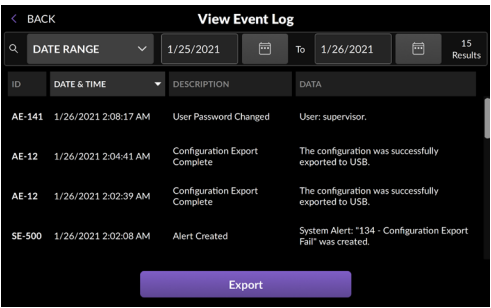

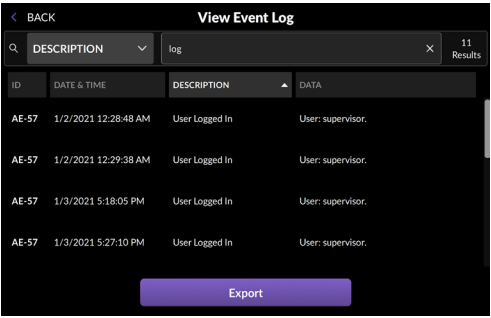
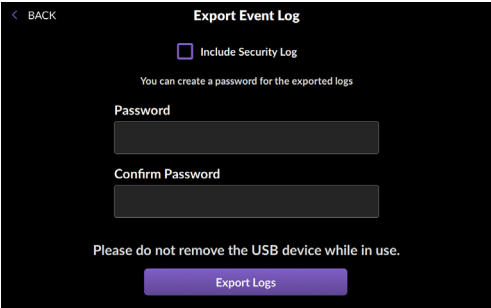

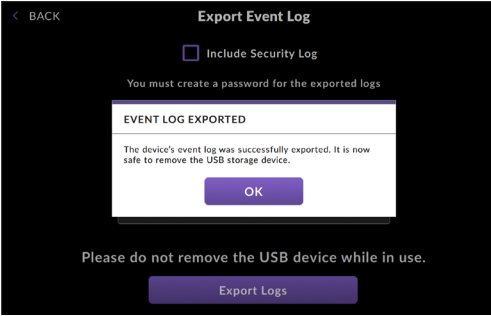

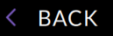
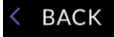
To see the event log, navigate to **Utilities > View Event Log**.



- System events are displayed in a list, based on date and time of occurrence.
- The log lists an event ID, which corresponds to a system or application event or error condition that occurs during regular operations. For example, AE-57 will always correspond to User Login.
- The date and time of the event is also shown.
- The event description will always be the same for a given event code, but the event data will differ. For example, User Login is always AE-57, but the Data field could show any active user on the system.



- To search or filter based on event ID, description, or data, choose one of these options from the list and enter the details into the text input field using the on-screen keyboard. The example at left shows events with "ex" in the description.
- Once the search criteria have been set, tap the Search icon on the left to display the results.

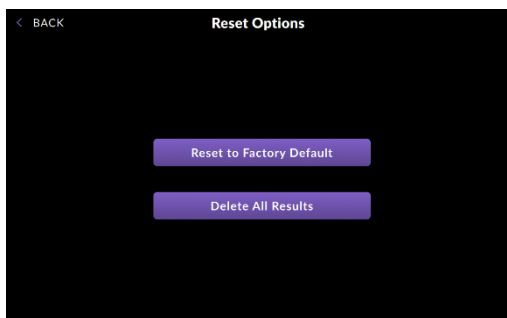

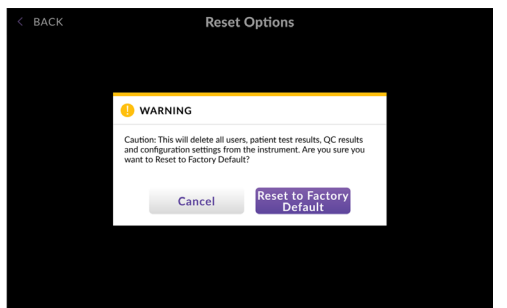

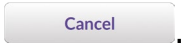
	<ul style="list-style-type: none"> ■ The data can also be sorted by each header by tapping on the column header.
	<ul style="list-style-type: none"> ■ To filter the events by date, choose the Date Range option from the list at the top of the page. ■ Use the  icon to narrow down the list to the required time frame.
	<ul style="list-style-type: none"> ■ Use the filters, search capabilities and sorting features to browse the event log and narrow down the list for review. ■ The number of records matching the specified criteria is shown in the top right.
	<ul style="list-style-type: none"> ■ To export the event log, insert an empty USB storage device into one of Savanna's USB ports. ■ Enter and confirm a password, then tap .
	<ul style="list-style-type: none"> ■ After the event log has been exported, a pop-up notification will be displayed with a confirmation message that the operation was successful. ■ Tap  to dismiss the pop-up. ■ Tap  to return to the View Event Log screen, or tap  several times to return to the Home screen.

Reset Options

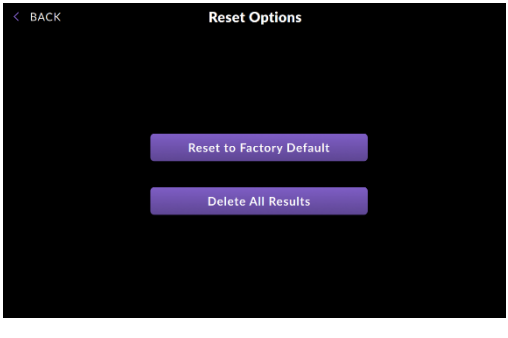

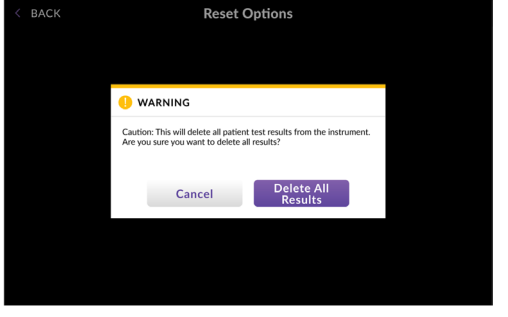


There are two reset options, and they are quite different, so pay careful attention to which one is selected.

- 1. Reset to Factory Default.** This deletes everything except for the originally installed Savanna system software. The system will have to be set up from scratch after a factory reset.
- 2. Delete All Results.** This deletes all PHI from the system, but leaves languages, users, assays, and settings just as they were.

Reset to Factory Default

	<ul style="list-style-type: none">■ To reset Savanna to factory defaults, tap .
	<ul style="list-style-type: none">■ Resetting the device will delete all users, test results, QC results and configuration settings from the instrument. A warning window with this information will appear once the reset button is tapped.■ To proceed and reset the instrument, tap the  confirmation on the window.■ To stop this process and keep the instrument settings and data intact, tap .

Delete All Results

 <p>The screenshot shows a dark-themed interface with a back arrow and the text 'Reset Options'. Two purple buttons are visible: 'Reset to Factory Default' and 'Delete All Results'.</p>	<ul style="list-style-type: none">■ To delete all patient results, tap  .
 <p>The screenshot shows the same 'Reset Options' screen as above, but with a white warning dialog box overlaid. The dialog box has a yellow warning icon and the text: 'WARNING Caution: This will delete all patient test results from the instrument. Are you sure you want to delete all results?'. It contains two buttons: 'Cancel' and 'Delete All Results'.</p>	<ul style="list-style-type: none">■ This action will delete all patient results from the instrument. A warning window with this information will also be displayed.■ To delete the results, tap  .■ To cancel and keep patient results on the instrument, tap  .

Help/About Menu

Help

This screen references contact information for QuidelOrtho Technical Support.

Training

The screen lists the training videos available direct from the instrument. The user can access them here.

Legend

This screen shows the legend and the relevant legend descriptions for Test Results, QC Test Results, and the Home Screen Top Bar.

About

The About section shows the details on tests run by Bay Name and includes data on the hardware and software version and serial number. The About section list headers are: bay name, hardware version (HW version), software version (SW version), serial number, and total tests run.

License Information

The relevant license information is displayed in this section. Savanna software uses a number of third-party open-source software components, and these components, along with copies of the software licenses, are included in this section for reference.

Shut Down

Turn off the unit by holding the power switch in the rear of the unit. Shutdown is complete when the screen goes dark.

Instrument Maintenance and Cleaning

Cleaning, Contamination, and Maintenance Requirements

■ Preventative Maintenance

Savanna does not require periodic calibration or preventative maintenance from QuidelOrtho or the end user. When Savanna is powered on, the instrument performs internal self-testing to ensure that the instrument is functioning properly and is within calibration standards. Should a Savanna unit fail the internal self-check, users are encouraged to notify QuidelOrtho Technical Support as soon as possible. The end-user should not attempt any maintenance except for cleaning the external surfaces of Savanna. The user may upgrade the instrument software and firmware as directed by QuidelOrtho.

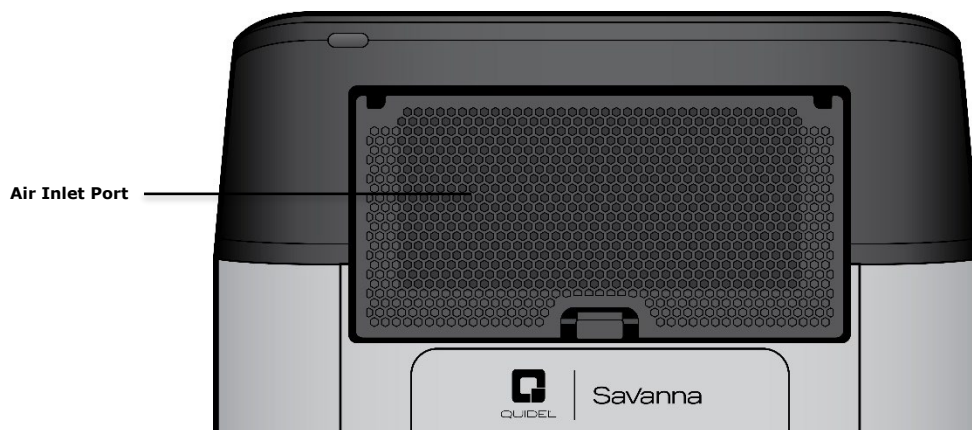
■ Cleaning, Contamination, and Maintenance Requirements

Decontamination of workspace and equipment should follow and be performed according to established laboratory protocols and schedules. For daily cleaning, the housing of the instrument may be cleaned using a soft cloth dampened with 70% Isopropanol. For more persistent stains and for disinfecting Savanna, it is possible to clean the surface with a cloth dipped in 1% bleach solution (0.055% sodium hypochlorite) followed by wiping with water. The procedure can be repeated 2 to 3 times. It is also possible to use 70% alcohol (isopropanol or ethanol) to wipe off the remaining traces of bleach. No liquids should be directly applied to the Savanna Instrument. Care should be taken to avoid any application of liquids near the touchscreen or to the inside of Savanna cartridge bay, as this can damage the internal portions of the instrument. Spillage of potentially infectious material should be wiped off immediately with absorbent paper tissue and the contaminated areas wiped with 10% bleach solution (0.55% sodium hypochlorite), followed by water or 70% alcohol (isopropanol or ethanol). Materials used to clean spills, including gloves, should be disposed of as biohazardous waste. In the event there is a cartridge leak in Savanna, the display will provide specific cleanup instructions.

Contact QuidelOrtho Technical Support if the instrument repeatedly fails the power-on self-testing or QC or gives invalid results. The user should follow technical support recommendations on when to discontinue use.

■ Air Inlet Port Cleaning Recommendations

It is recommended that the air inlet port located at the rear of the Savanna instrument (illustrated below) is inspected on a regular basis to ensure that there are no blockages/obstructions.



If any blockages/obstructions are observed, wipe down/clean the outer surface using a soft cloth dampened with 70% Isopropanol.

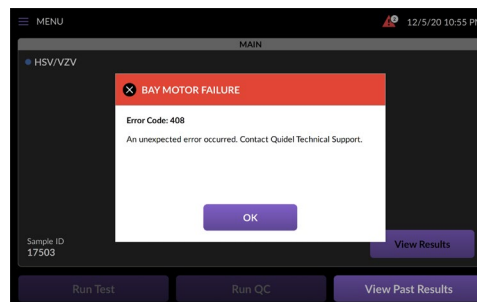
If the instrument is not functioning correctly and/or is displaying “Temperature Errors” after cleaning the exterior of the air inlet port (per the area highlighted above) contact QuidelOrtho Technical Support per the contact details listed in **Help**.

Other Environmental Conditions Requirements

- Indoor use only
- Horizontal installation space
- Dust-free environment with adequate ventilation
- No direct sunlight
- No perceptible vibration
- No equipment generating electromagnetic waves in the near vicinity
- No machines discharging ultrahigh frequencies (e.g., electric discharger)

Troubleshooting and Errors

Errors encountered using Savanna will appear as a pop-up window with a red band on top (see example at right). These errors generally include an error code. In the example at right, the error code is 408. The table below provides additional information about how to recover or resolve errors based on the error code. For any codes not listed below, contact QuidelOrtho Technical Support.



Error Code	Displayed Message	Description/ Possible Cause	Suggested Action
003	Cartridge Expired Please use a non-expired cartridge.	Test cannot be run with a cartridge that is past its expiration date, as determined by the cartridge barcode.	Retest the sample using a different cartridge that has not expired.
005	Reused Cartridge The scanned cartridge <serial number> was previously used.	Cartridges have a unique serial number to track use. A cartridge cannot be used for more than one test, even if the test was canceled.	Retest the sample with a new cartridge.
006	Invalid Cartridge Inserted The inserted cartridge does not match the cartridge scanned during the test setup.	The cartridge inserted into the instrument is not the cartridge scanned at the start of the assay.	Recommend to start with new cartridge and restart assay.
013	Savanna Backup Failed Verify that the destination device is connected and working properly.	Savanna was unable to back up the database based on the user-initiated backup.	Confirm the correct USB drive was used and inserted correctly. If this does not work, try with a different USB storage device.
014	Savanna Restore Failed Verify that the destination device is connected, working properly and the correct password entered.	Savanna could not restore the database. Only backups created with the 'Backup' utility can be restored.	Make sure the USB drive works, ensure backup is on the USB drive, and retry backup.
019	Test Results Export Failed The test result export operation failed. Please remove the USB storage device, exit this screen, then try again. If the problem persists, contact QuidelOrtho.	Savanna was unable to export the selected tests, probably because an appropriate storage destination was unavailable.	Verify that the USB or destination device is connected and working properly. Try another USB storage device. If the issue persists, contact QuidelOrtho Technical Support.

Error Code	Displayed Message	Description/ Possible Cause	Suggested Action
023	Print test page Please make sure the printer is properly configured and connected.	Failed to Print Test Page. Savanna was unable to send a test page to the selected printer.	Ensure the printer is connected; retry printing. If that does not resolve error, try removing and adding/reconnecting the printer again.
024	Add Printer Failed Please make sure the printer is properly configured and connected.	Failed to Add Printer. The information required to add the printer was not available, or the printer was not connected.	There are a number of steps involved in adding a printer, including choosing model, manufacturer and driver. Contact IT to obtain or verify information relevant for adding a printer.
025	Sending Results to The LIS Network Failed Please make sure the LIS network is configured properly.	LIS connection failed.	Check the LIS connection. If this issue persists, contact IT or QuidelOrtho Technical Support.
026	Failed to Send to Virena Please make sure the Virena network is configured properly.	Virena connection failed.	Check the network connection. If this issue persists, contact IT or QuidelOrtho Technical Support.
040	Bay Disconnected While Running a Test Expansion bay <serial number> was disconnected while running a test. The test results are invalid.	The Savanna Bay lost communication while a test was running. The assay run is unrecoverable.	Reboot the Savanna instrument. If error persists, contact QuidelOrtho Technical Support.
041	Bay Disconnected Expansion bay <serial number> has been disconnected.	The Savanna bay lost communication.	Reboot the Savanna instrument. If error persists, contact QuidelOrtho Technical Support.
048	Invalid User Credentials The user and password do not match any records. Please try re-entering the login information.	User ID and/or password is not valid.	Contact Administrator to verify user information or reset password. The user will be locked out of account if too many login attempts are made with invalid credentials.
056, 066	Assay(s) Import Failure	Savanna was unable to import an assay method file/assay method files from the USB storage device.	The error message should contain the name of the file. Make sure it is current, and that it is stored in the correct location on the storage device. If this issue persists, contact QuidelOrtho Technical Support.

Error Code	Displayed Message	Description/ Possible Cause	Suggested Action
064	Assay Validation Failure An unexpected error occurred. Contact QuidelOrtho Technical Support.	The assay method file could not be validated. Assay method files must be validated before every test.	The user needs to make sure that he/she has the most up-to-date version of the assay method file, and that it is compatible with the cartridge. If this issue persists, contact QuidelOrtho Technical Support.
068	Assay Delete Failure An unexpected error occurred. Contact QuidelOrtho Technical Support.	An assay method file could not be deleted from the instrument.	Restart instrument and retry assay method file removal. If this issue persists, contact QuidelOrtho Technical Support.
091	Invalid QC Sample Scanned The scanned QC sample is invalid or not compatible with the scanned cartridge.	The scanned QC sample is incompatible with scanned assay cartridge.	Verify the correct scanned QC sample is used for the assay cartridge tested.
092	Expired QC Sample scanned The scanned QC sample is expired.	The scanned QC sample is expired.	Run the QC with a valid QC sample.
099	Invalid Cartridge Scanned Cartridge barcode is invalid, missing or unreadable. Please retry with a new cartridge.	The cartridge scanned could be damaged, or there could be an issue with how the cartridge was scanned.	Cartridge barcode is invalid, missing, or unreadable. Retry existing cartridge. If the issue persists, retry with a new cartridge.
114	Event Log Export Failed Export Log Export Failed. Verify that the destination device is connected and working properly.	Savanna was unable to export the selected event log, probably because an appropriate storage destination was unavailable.	Verify that the USB or destination device is connected and working properly. Try another USB storage device. If the issue persists, contact QuidelOrtho Technical Support.
131	User List Import Failed User List Import Failed. Verify that the destination device is connected and working properly.	Savanna was unable to import the user list.	Verify that the USB or destination device is connected and working properly. Try another USB storage device. If the issue persists, contact QuidelOrtho Technical Support.

Error Code	Displayed Message	Description/ Possible Cause	Suggested Action
132	User List Export Failed User List Export failed. User List Export failed. Verify that the destination device is connected and working properly.	Savanna was unable to export the user list, probably because an appropriate storage destination was unavailable.	Verify that the USB or destination device is connected and working properly. Try another USB storage device. If the issue persists, contact QuidelOrtho Technical Support.
133	Configuration Import Failed Configuration Import Failed. Verify that the destination device is connected and working properly.	Savanna was unable to import the configuration.	Verify that the USB or destination device is connected and working properly. Try another USB storage device. If the issue persists, contact QuidelOrtho Technical Support.
134	Configuration Export Failed Configuration Export Failed. Verify that the destination device is connected and working properly.	Savanna was unable to export the configuration, probably because an appropriate storage destination was unavailable.	Verify that the USB or destination device is connected and working properly. Try another USB storage device. If the issue persists, contact QuidelOrtho Technical Support.
146	User Locked Out Too many failed login attempts. Contact Supervisor to reset access.	The user has attempted to log in with incorrect credentials too many times, and, as a result, the user was locked out to prevent further login attempts.	User <login name> was locked out due to too many failed login attempts. Contact supervisor to reset password.
148	Test Result Unlock Failed Test Result failed to unlock.	The test result is invalid, or it has been over 48 hours since a valid test was completed.	Re-process another aliquot of the same sample or obtain a new sample and re-test with a new Cartridge.
149	Assay Not Found An Assay was not found on the system to execute the scanned cartridge. Please import the proper Assay.	The assay that corresponds to the scanned cartridge assay has not been found on the instrument system and needs to be imported prior to running a test.	An assay was not found on the system to execute the scanned cartridge. Import the proper assay.
150	Invalid Sample Type The detected sample type does not match the expected type or the sample was not detected. Please verify the proper sample is inserted into the cartridge.	The sample used in a test has either not been loaded into the cartridge correctly, or there is a mismatch between the actual sample type used and the sample type selected on the instrument.	The detected sample type does not match the expected type or the sample was not detected. Verify the sample type used matches the sample type selected. Ensure the sample is loaded into the cartridge properly.

Error Code	Displayed Message	Description/ Possible Cause	Suggested Action
170	Failed To Connect To WI-FI Network The device could not connect to the network Hospital-Wi-Fi. Please try again, or choose a different network.	The Wi-Fi connection failed.	Check the Wi-Fi connection. Try again or choose a different network. If this issue persists, contact IT or QuidelOrtho Technical Support.
209	Delete all results failed The 'delete all results' operation failed.	A request to remove results or reset to factory defaults could not be completed. Unable to Purge Database.	Restart the instrument and retry. If the issue persists, contact QuidelOrtho Technical Support.
210	Print Failure Printing Error. Please check that the printer is connected and powered on.	Savanna could not print on the chosen device as requested.	An error occurred while printing. Verify the printer connections and retry.
215	Database Error An unexpected error occurred. Contact QuidelOrtho Technical Support.	Database error. An error occurred when trying to retrieve or store information from the system.	Restart and retry workflow steps. If the issue persists, contact QuidelOrtho Technical Support.
216	System Error An unexpected error occurred. Contact QuidelOrtho Technical Support.	System error. A system error has occurred that does not fit into any of the other categories shown here.	Restart and retry workflow steps. If the issue persists, contact QuidelOrtho Technical Support.
217	Factory Reset Failed An unexpected error occurred. Contact QuidelOrtho Technical Support.	Failed to reset to factory default.	Reboot the instrument and try again. If the issue persists, contact QuidelOrtho Technical Support.
400	Bay POST Failure An unexpected error occurred. Contact QuidelOrtho Technical Support.	The unit failed initial startup testing. If there was an unexpected shutdown, it may recover; otherwise, service is required.	Restart instrument. If the error persists, contact QuidelOrtho Technical Support.
401	Bay Door Stuck The Cartridge door is stuck on expansion bay serial number "<serial number>".	The bay door is stuck, most likely during cartridge insertion or removal.	Restart instrument. If the error persists, contact QuidelOrtho Technical Support.
402	Bay Command Rejected An unexpected error occurred. The bay has been restarted. If the problem persists, please contact QuidelOrtho Technical Services.	Internal instrument error caused Savanna reboot.	If the error persists, restart instrument. Otherwise contact QuidelOrtho Technical Support.

Error Code	Displayed Message	Description/ Possible Cause	Suggested Action
403	Cartridge Barcode Invalid The system could not read the cartridge barcode. Please try inserting again or try another cartridge.	The system could not read the cartridge barcode. Try inserting again or try another cartridge.	Try reinserting the cartridge. If error continues, try a new cartridge. If issue persists with new cartridge, contact QuidelOrtho Technical Support.
404	Cartridge Inserted on Powerup Please remove cartridge.	If a cartridge is inside the instrument at shutdown, it will be ejected when the instrument is started again.	Ensure the cartridge is ejected and removed before proceeding.
406	Bay Optics Module Error An unexpected error occurred. Contact QuidelOrtho Technical Support.	A test was unable to complete because of an internal instrument error.	Restart and retry the workflow steps. If the issue persists, contact QuidelOrtho Technical Support.
408	Bay Motor Failure An unexpected error occurred. Contact QuidelOrtho Technical Support.	An internal instrument error occurred. Cartridges cannot be removed, and the unit is disabled.	Contact QuidelOrtho Technical Support.
410	Bay TEC Setpoint Failure An unexpected error occurred. Contact QuidelOrtho Technical Support.	A test was unable to complete because of an internal instrument error.	Contact QuidelOrtho Technical Support.
412	Bay Pressurization Failure The bay failed to Pressurize. Please try another cartridge. If the problem persists, please call QuidelOrtho Technical Service.	A test was unable to complete because of an internal instrument error.	Contact QuidelOrtho Technical Support.
413	Cartridge Timeout Cartridge insert/eject timeout.	Depending on when this error occurs, too much time has elapsed before the cartridge was either loaded or unloaded. Approximately too slowly – after 30 or more seconds have passed elapsed following the screen prompt.	Choose the Open Bay Door button, and after it opens insert or remove the cartridge.
415	AMF CRC Error An unexpected error occurred. Contact QuidelOrtho Technical Support.	The assay method file was transferred but has failed the checksum test.	Re-import the assay method file and retry. If the issue persists, contact QuidelOrtho Technical Support.
416	AMF Receive Timeout An unexpected error occurred. Contact QuidelOrtho Technical Support.	Unexpected Error loading the Assay Method file. The test run was aborted.	Re-import the assay method file and retry. If the issue persists, contact QuidelOrtho Technical Support.

Error Code	Displayed Message	Description/ Possible Cause	Suggested Action
417	AMF Validation Failed An unexpected error occurred. Contact QuidelOrtho Technical Support.	Unexpected Error loading the Assay Method file. The test run was aborted.	Re-import the assay method file and retry. If the issue persists, contact QuidelOrtho Technical Support.
419	Cartridge Leak Detected Please re-try with a new cartridge.	A cartridge air leak was detected during the course of a test run, while the cartridge was inside the instrument. The cartridge is unusable and can be discarded.	Eject and discard cartridge. Retry with a new cartridge.
420, 421, 422, 423, 429	Temperature out of range Temperature error. The instrument needs to cool down before it can be used. Please check that the filter inlet is not obstructed.	The internal temperature is too high, the instrument has overheated.	Ensure ambient temperature is within the user manual and the instrument is not in direct sunlight. Ensure sufficient airflow around the instrument. Clean the outer surface of the air inlet port or replace the dust filter on the back of the instrument. Contact QuidelOrtho Technical Support if issue persists.
424	Agitation Failure An unexpected error occurred. Contact QuidelOrtho Technical Support.	A test was unable to complete because of an internal instrument error.	Contact QuidelOrtho Technical Support.
425	Software Update Failed There was an error updating software. The system will automatically revert to the previous version on restart.	The software update process initiated by the user has not successfully completed, and new software has not been installed.	Re-download software update from the source and re-try. If the issue persists, contact QuidelOrtho Technical Support.
426	Hardware Peripheral Fail An unexpected error occurred. Contact QuidelOrtho Technical Support.	A test was unable to complete because of an internal instrument error.	Restart and retry workflow steps. If the issue persists, contact QuidelOrtho Technical Support.
428	Bay Firmware Update Failed An unexpected error occurred. Contact QuidelOrtho Technical Support.	The firmware update process initiated by the user has not successfully completed, and new firmware has not been installed.	Re-download firmware update from the source and re-try. If the issue persists, contact QuidelOrtho Technical Support.
499	Bay Unexpected Error An unexpected error occurred. Contact QuidelOrtho Technical Support.	A test was unable to complete because of an internal instrument error.	Contact QuidelOrtho Technical Support.

Appendix: Savanna Technical Specifications

Dimensions	Width = 8.25 inches (21 cm) Depth = 10 inches (25 cm) Height = 10 inches (25 cm)
Weight	25 lbs. (11 kg) maximum
Power Supply Input	100VAC - 240VAC, 50/60Hz, 2.5-1.3A
Savanna Input	48VDC, 4.6A
Replaceable Battery	No battery
Display	1024 x 768 minimum resolution 80° minimum viewing angle 320 cd/m ² maximum brightness
LAN Interface	RJ45 connector that supports 100BASE-TX communication rates at minimum
Operating Temperature	15°C - 30°C
Operating Humidity	15% to 85% RH non-condensing
Operating Altitude	0 - 2500 meters
Shipping and Storage Temperature	-20°C to +55°C (24 hours)
Shipping and Storage Humidity	10% to 90% RH non-condensing (24 hours)
Patient Test Result Storage	10,000
QC Results Storage	1,000
Emissions Class and Group	Group 1, Class A
Immunity Test Level	Professional healthcare facility environment
External Barcode Scanner Compatibility	1D: UPC-A, UPC-E, CODE 39, EAN-13 with extended coupon code, CODE 93/93i, CODABAR, CODE 128, INTERLEAVED 2 OF 5, GS1 DATABAR; 2D: DATA MATRIX, AZTEC CODE, QR CODE

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Patents: [quidelortho.com/us/en/patents](https://www.quidelortho.com/us/en/patents)

Revision History

Part Number	Revision Date	Introduced Modifications
1480306	August 2024	<p>For all Users: Minor formatting and editorial changes throughout.</p> <p>Updated the menu screens and screenshots for Software version 6.2.</p> <p>Removed the QuidelOrtho Technical Support contact information and replaced it with a QR code.</p> <p>Added additional information for EMC compliance.</p> <p>Added additional functions to the Operator user type.</p> <p>Clarified the function of the Transmit Unsent Results button.</p> <p>Updated the legal manufacturing address.</p> <p>Updated guidance for the following functionality:</p> <ul style="list-style-type: none"> ■ Importing/exporting cartridge QC lot ■ Unlocking unordered test results ■ Completing HL7 or POCT1-A protocol setup ■ Exporting the Savanna configuration ■ Updating the software ■ Backing up data and restoring Savanna ■ Viewing event logs ■ Importing a user list ■ Managing assays ■ Importing/exporting configuration settings ■ Converting the keyboard to a new language
1480305	May 2024	<p>For Users outside the United States: Updates to rebrand from Quidel to QuidelOrtho.</p> <p>Removal of Overall Result language/screens, and removal of Clinical Data section.</p> <p>For all Users: Updated QuidelOrtho Technical Support contact information, menu screens for Software version 6.1.3, and link to QuidelOrtho symbol glossary.</p> <p>Added list of compatible barcodes for use with external barcode reader.</p>
1480304	November 2023	<p>For Users in the United States: Additional modifications for Software version 6.1.2, removal of Overall Result language/screens, and removal of Clinical Data section.</p>

Part Number	Revision Date	Introduced Modifications
1480303	July 2023	<p>For all Users: Updated the instrument with air inlet port, Instrument Maintenance and Cleaning, Cybersecurity Instructions, and Software version to 6.1.0. Added Importer contact information.</p>
1480301	October 2021	Initial release.

REF 20382 – Savanna Instrument
1523700 – Printer

IVD



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1480306EN00 (08/24)

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