



# iSED<sup>®</sup> PRO MAINTENANCE

Routine and Preventative Maintenance

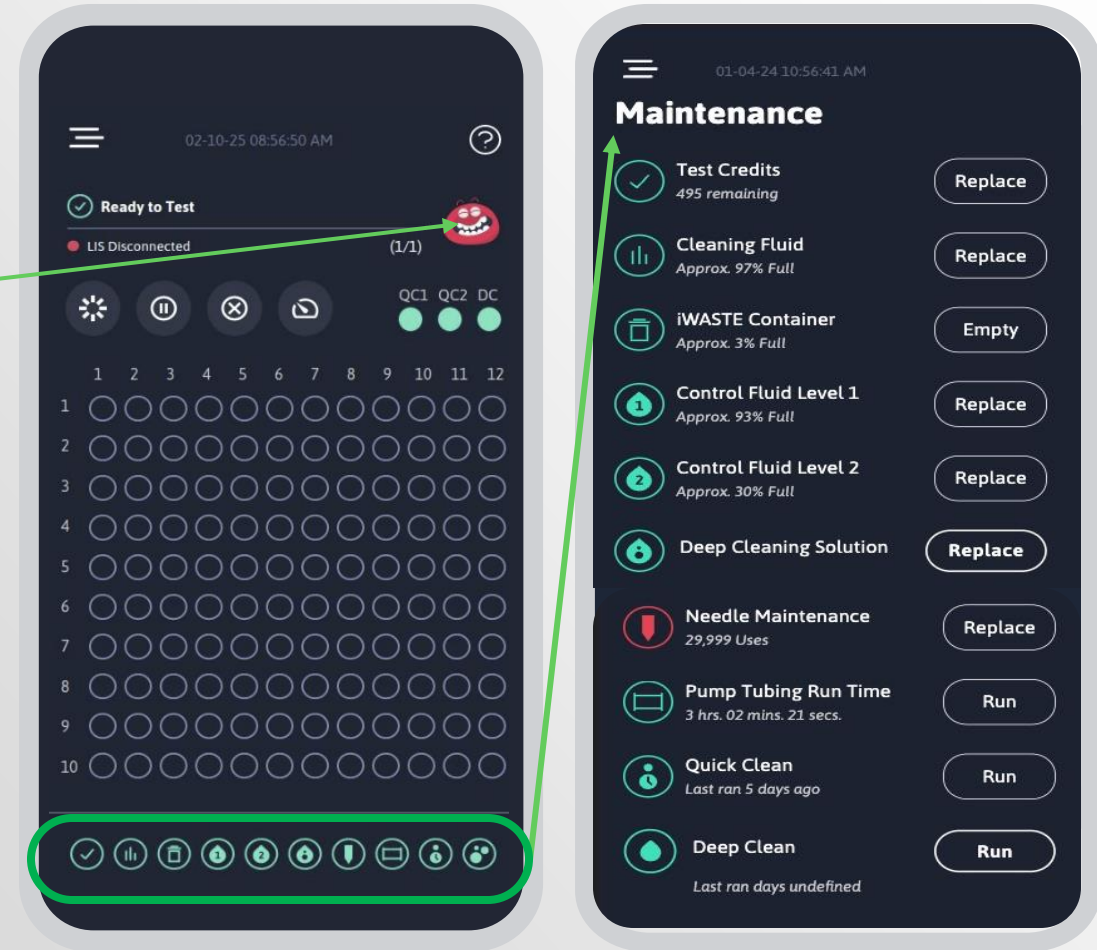
# INTRODUCTION

Proper maintenance of the instrument is required to ensure optimal performance.

The iSED PRO's Home Screen contains a Status Banner where all active system status messages appear. An animated emoji, who we call 'Sedrick', accompanies these messages to provide a quick visual reference to the general operating status of the analyzer.

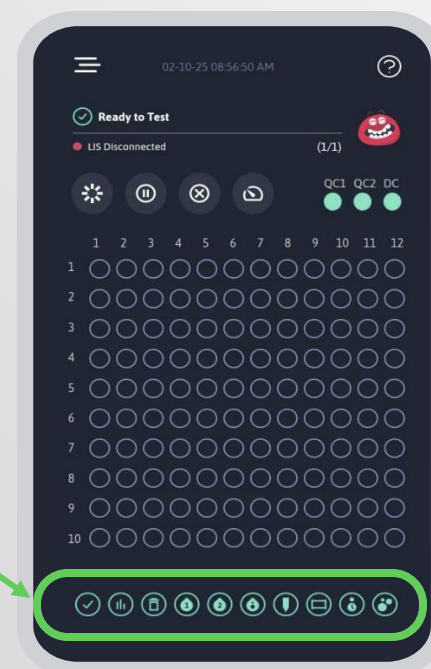
The Maintenance Menu provides a "dashboard" for the user-related functions. When **green**, the circular icons indicate that the listed category is within preset limits. When a category is approaching a preset limit, the circular icon will turn **yellow**, indicating that attention is needed soon. Should the category limit be exceeded, the icon will turn **red** and require action to be taken.

**It is important to be mindful of this Status Banner.**



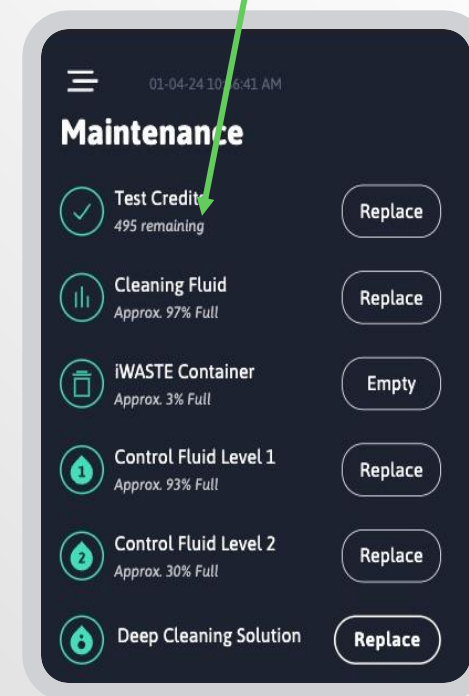
# LOW TEST CREDITS

The Home Screen and the Maintenance Menu provide the user with the number of Test Credits available. When Test Credits become low, more Test Credits need to be added in order not to disrupt analyzer operation.



Available  
Test Credits

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# ADDING TEST CREDITS

To add credits to the instrument, the user must insert an iSED PRO Test Card into the Test Card reader.

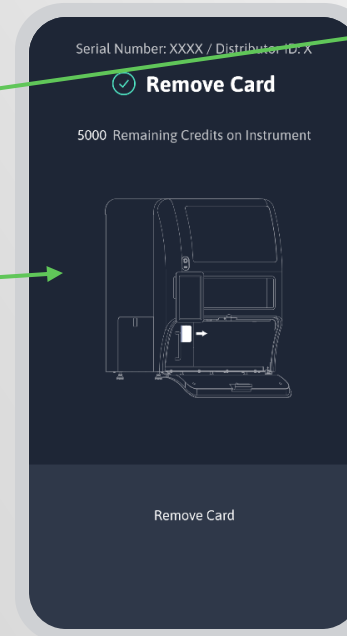
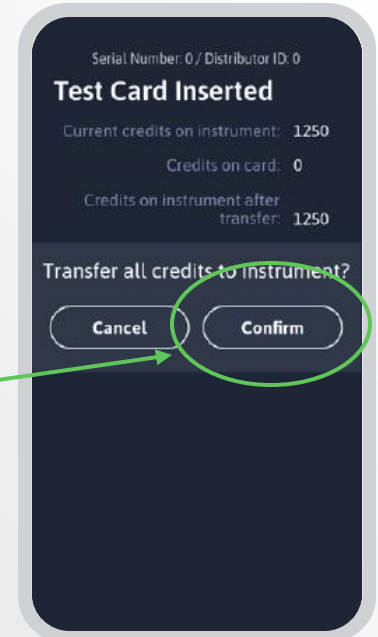
## To download Test Credits:

1. Insert your Test Card into the Test Card reader with the arrow facing forward and to the left.
2. Once the Test Card is inserted, the next screen will show the number of Test Credits currently on the instrument, the serial number of the card, and the number of Test Credits on the card. If the user taps "Confirm", all the available credits will be transferred to the analyzer.
3. The new total of available tests will display on the screen. Remove the empty test card and discard; **the Test Card cannot be reused.**

**Test Credits never expire! Whether loaded on the analyzer or still contained in the Test Card, there is no time limit for you to use available Test Credits.**



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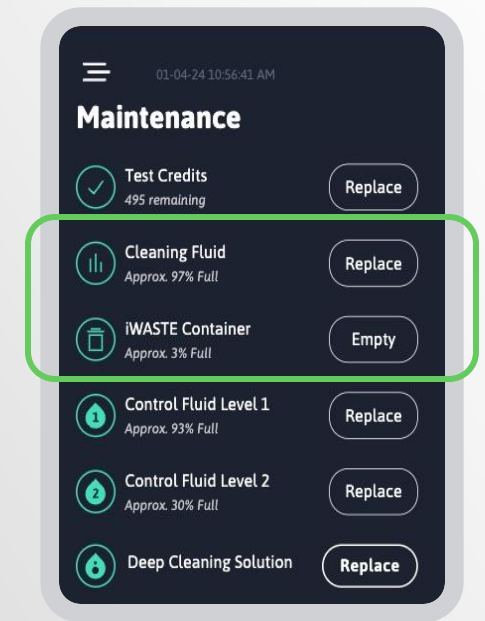
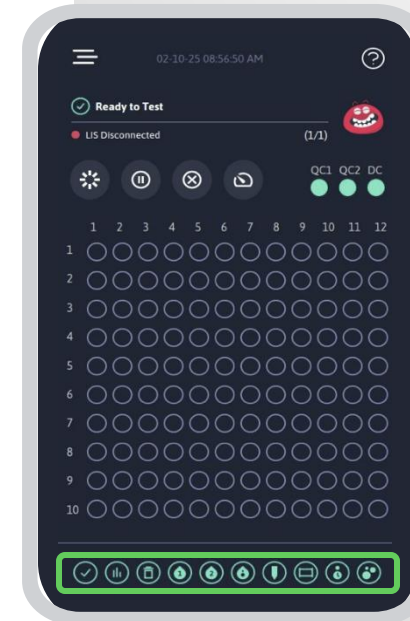
# LOW WASH SOLUTION OR FULL WASTE CONTAINER

An error message on the Home Screen's Status Banner accompanied by an alarm will alert the operator to any issues with iWASH® PRO solution or the iWASTE® PRO container.

- If the fluid level icon is **green**, there are no errors in relation to the iWASH/iWASTE bottle or container capacity.
- If the fluid level icon is **yellow**, the iWASH PRO bottle is nearing empty or the iWASTE PRO container is nearing full capacity.
- If the fluid level icon is **red**, the iWASH PRO bottle is empty or the iWASTE PRO container is full. The analyzer will not be able to process samples.


**When a bottle is changed, remember to select Replace or Emptied in the Maintenance Menu.**

 **WARNING:** Universal precautions should be followed. Always wear gloves and safety glasses to prevent exposure to pathogens. Dispose of bio-hazardous waste properly.



# REPLACING THE iWASTE PRO CONTAINER

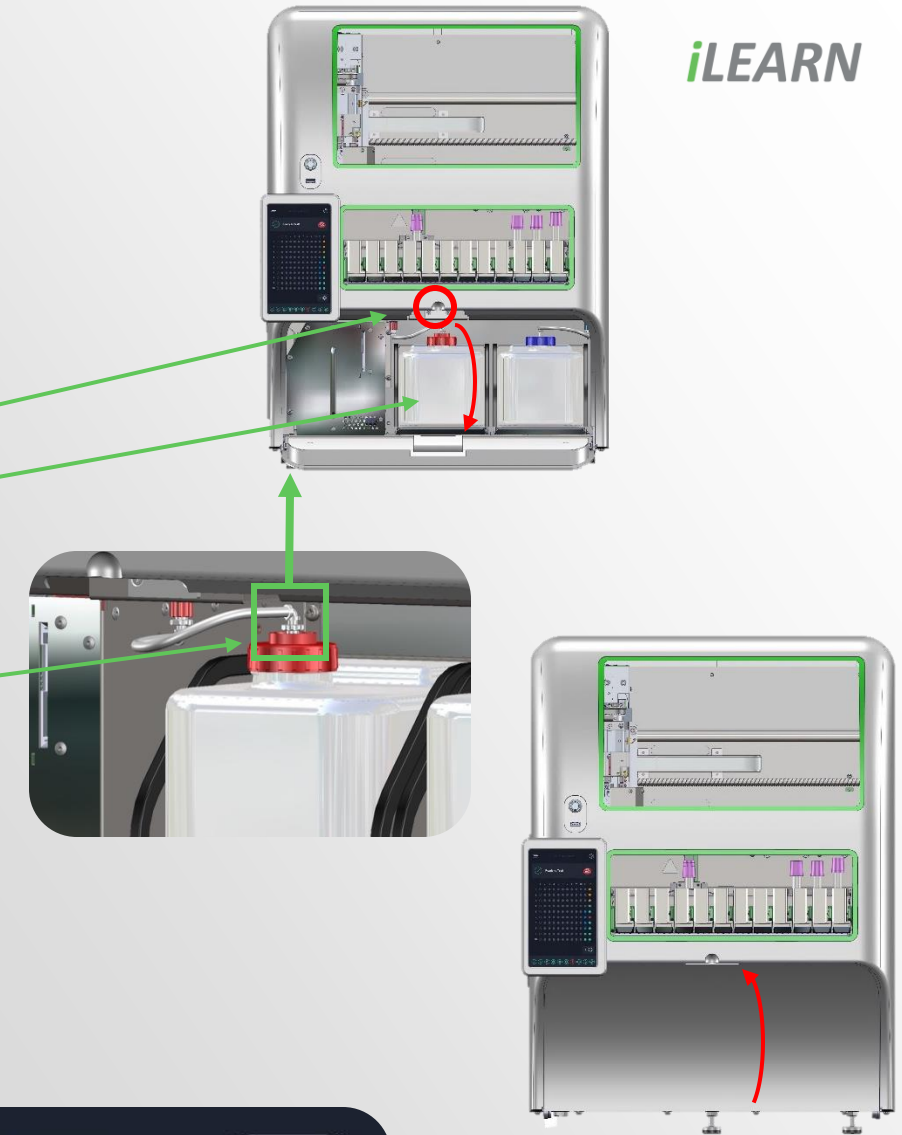
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 **WARNING:** Universal precautions should be followed. Always wear gloves and safety glasses to prevent exposure to pathogens. Dispose of bio-hazardous waste properly.

## To replace the waste container:

1. Open the front door to access the Bottle Compartment.
2. Locate the iWASTE PRO container in the left bottle tray.
3. Pull out the iWASTE PRO container slightly to provide access to the cap and tubing connections. Disconnect the LUER connector from the waste bottle screw cap. **Do not discard the special container bottle caps!**
4. Remove the empty container and dispose of the waste according to your laboratory's biological waste protocol.
5. Replace the emptied container and firmly reconnect the LUER connector on the plastic screw cap. If using a new container, be sure to use the screw cap from the waste container being replaced.
6. Close the bottle compartment door.
7. In the Maintenance Menu, press the iWASTE Container "Empty" button to reset counter.

 Empty iWASTE PRO containers can be repurposed as waste containers onboard iSED PRO.




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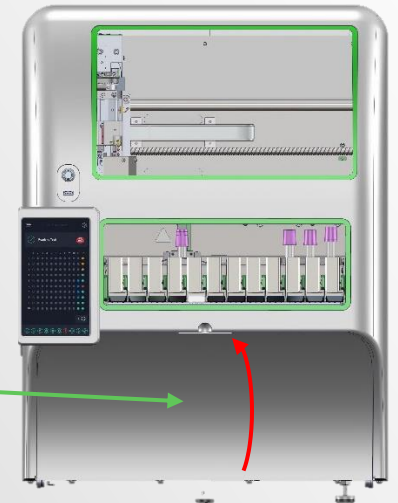
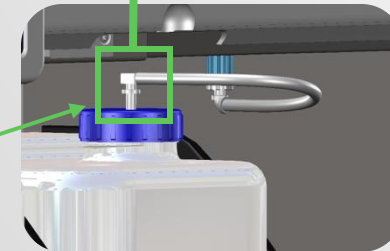
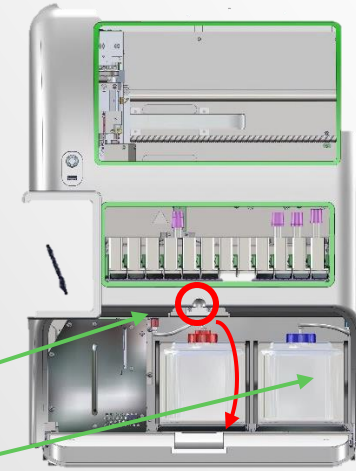
# REPLACING THE iWASH PRO WASH FLUID

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 **WARNING:** Universal precautions should be followed. Always wear gloves and safety glasses to prevent exposure to pathogens. Dispose of bio-hazardous waste properly.

## To replace the cleaning fluid container:

1. Open the front door to access the Bottle Compartment.
2. Locate the iWASH PRO bottle in the right bottle tray.
3. Pull out the iWASH PRO bottle slightly to provide access to the cap and tubing connections. Disconnect the LUER connector from the bottle screw cap. **Do not discard the special container bottle caps!**
4. Replace the iWASH PRO bottle and firmly reconnect the LUER connector on the plastic screw cap with the vent hole positioned at top. Close the bottle compartment door.
5. In the Maintenance menu, press the Cleaning Fluid “Replace” button to reset counter.



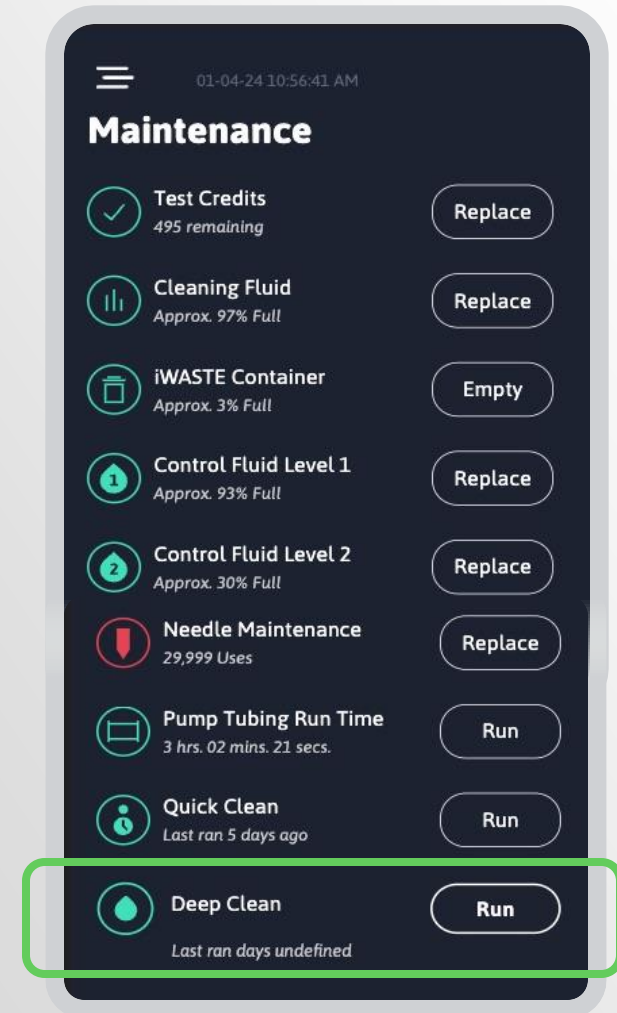
# DEEP CLEANING

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- The analyzer will automatically perform a Deep Clean of the aspiration pathway from the needle to the reading cell **once per week** or every **1,000 samples**, whichever comes first.
- Deep Cleaning can also be performed **as needed** for troubleshooting purposes.
- Deep Cleaning **removes accumulated blood residuals** from the fluidics path and is important for proper functioning of the iSED PRO analyzer.
- Deep Cleaning must be performed with **deepCLEAN® PRO** which needs to be preloaded into iSED PRO's Onboard Consumables Holder.

# PERFORMING A DEEP CLEAN

1. Press the Deep Clean “Run” button in the Maintenance Menu to start a Deep Clean.
2. A deepCLEAN PRO tube must be preloaded into the Onboard Consumables Holder. iSED PRO can only perform the Deep Clean procedure with the deepCLEAN PRO Cleaning Solution which contains sodium hypochlorite.
3. The analyzer will run two (2) wash cycles then automatically perform the Deep Clean (three (3) minutes). During the Deep Clean, the device will appear to be idle while the fluidic system soaks in sodium hypochlorite.
4. Once the Deep Clean procedure is completed, the analyzer will perform two (2) additional wash cycles to purge the system of sodium hypochlorite and return the deepCLEAN PRO tube back to the Onboard Consumables Holder for re-use.



# REPLACING SEDI<sup>T</sup>ROL<sup>®</sup>

The bar at the bottom of the Home Screen will indicate the status of SEDI<sup>T</sup>ROL Controls. Tapping on any of the status icons below, will bring up the Maintenance Menu with further information of their status.

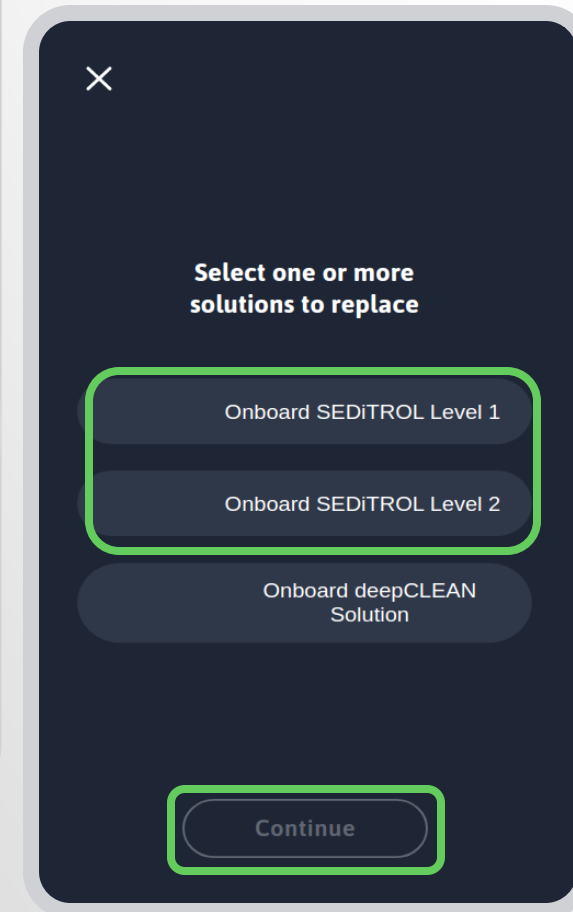
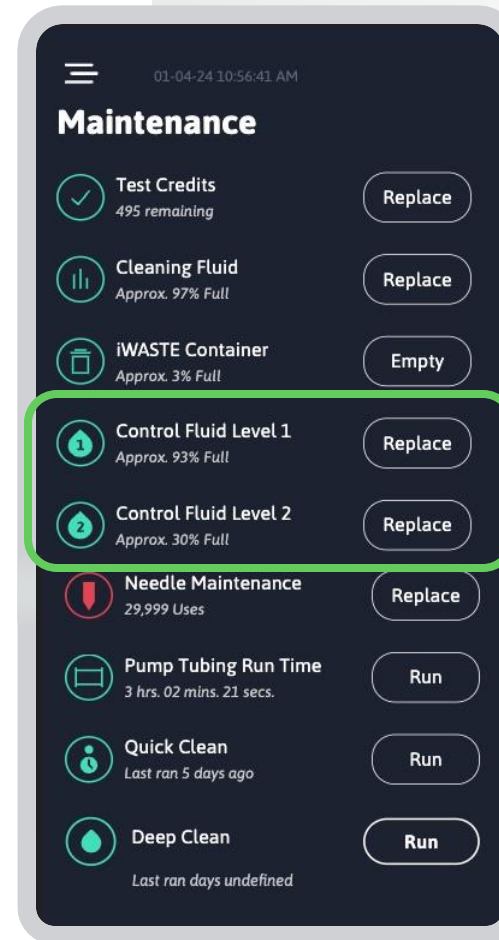


The analyzer will notify users to replace SEDI<sup>T</sup>ROL Controls when one of two things occurs:

1. QC material was measured for the first time 60 days ago. This is the open vial stability for SEDI<sup>T</sup>ROL.
2. The usage counter reaches 0 uses. There is enough sample volume for approximately 28-30 uses in each 4.0 mL tube of SEDI<sup>T</sup>ROL.

## To replace SEDI<sup>T</sup>ROL Level 1 and/or Level 2:

1. Select "Replace" next to Control Fluid Level 1 or 2.
2. On the next screen, select the Level that needs replacing (Level 1, Level 2, or both) and select "Continue".
3. Load the new SEDI<sup>T</sup>ROL tube(s) in a hematology rack and follow the onscreen prompts. Once the hematology rack is loaded, iSED PRO will remove the expired control tube(s) from the Onboard Consumables Holder and replace with the new SEDI<sup>T</sup>ROL tube(s).



# REPLACING deepCLEAN PRO

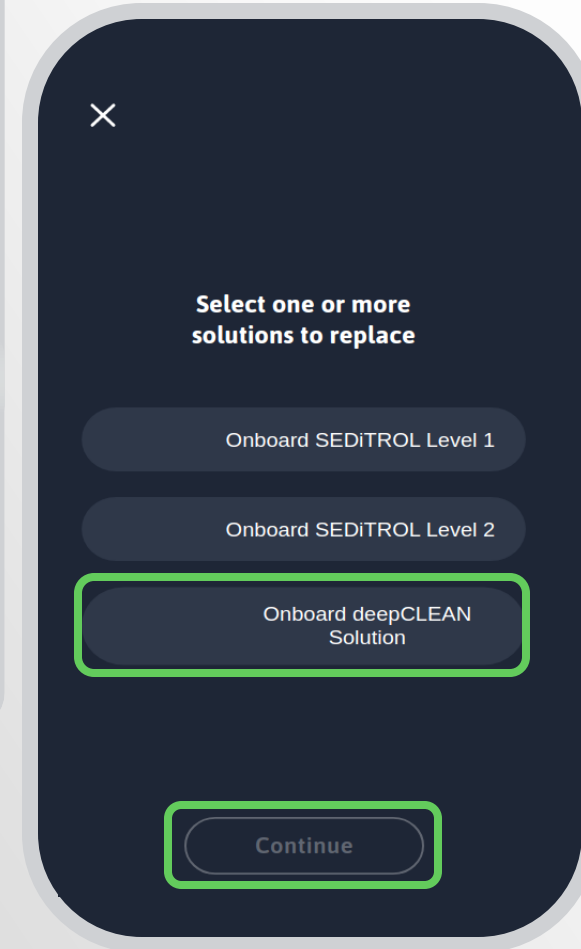
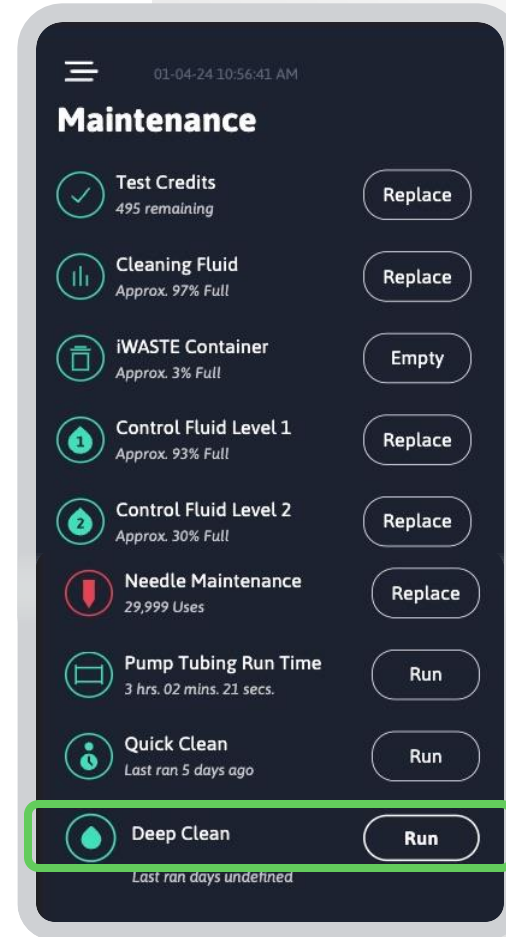
The bar at the bottom of the Home Screen will indicate the status of deepCLEAN PRO. Tapping on any of the status icons below, will bring up the Maintenance Menu with further information of their status.



Each tube of deepCLEAN PRO can be used up to four times. The analyzer will notify the user when the onboard deepCLEAN PRO tube needs to be replaced.

## To replace deepCLEAN PRO:

1. On the next screen, select “Onboard deepCLEAN Solution” and select “Continue”.
2. Load the new deepCLEAN PRO tube in a hematology rack and follow the onscreen prompts. Once the hematology rack is loaded, iSED PRO will remove the old deepCLEAN PRO tube from the Onboard Consumables Holder and replace with the new deepCLEAN PRO tube.



# ADDITIONAL PREVENTATIVE MAINTENANCE

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## Tubing Change

After 200 hours of continuous pump use, iSED PRO will notify the user that a “Tubing Change is Required”. This message only serves as a warning that maintenance should be performed and does not prevent the analyzer from operational use. [Contact ALCOR Scientific Technical Support or your authorized representative](#) for instructions and parts for items that should be replaced.

## 90,000 Test Aspirations

After 90,000 aspirations, iSED PRO will alarm and notify the user to contact [ALCOR Scientific Technical Support](#). This message only serves as a warning and does not prevent the analyzer from operational use. [Contact ALCOR Scientific Technical Support or your authorized representative](#) for instructions and parts for items that should be replaced.

# SYSTEM STATUS, ERROR CODES, AND WARNING MESSAGES

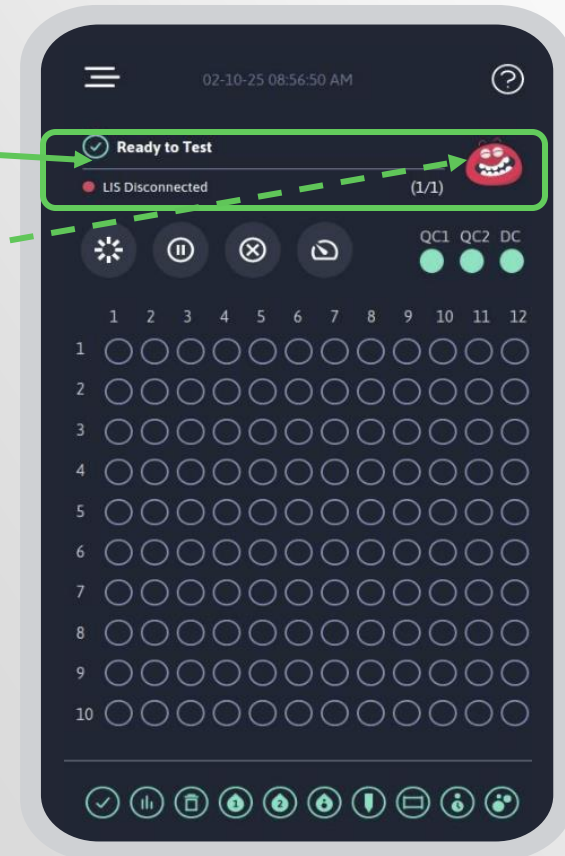
Different messages display in the **Status Banner** at the top of the Home Screen.

The “SEDRick” emoji on the right side of the status banner provides a quick visual reference to general operating status.

**Refer to the iSED PRO Operator’s Manual for a full list of system status messages and error messages with resolutions.**

**For technical assistance:  
US customers ONLY - contact ALCOR Scientific  
Technical Support  
(401) 737-3774  
(800) 495-5270  
[techservice@alcorscientific.com](mailto:techservice@alcorscientific.com)**

**Customers outside of the US - please contact  
your local distributor for technical support**



# THANK YOU!



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