NT8® Release Notes
Last Updated: August 2, 2022

Version 4.5 Hotfix 3
August 2, 2022

Fixed:

- An issue where the software didn't wait for the Z motor to stop before moving on to another task. The issue occurred when the software attempted to detect the plate before dispensing with the FF.

Version 4.5 Hotfix 2
June 15, 2022

Fixed:

- An error where the plate setting in the RM Integration was used in the **Task List** view although the number of columns was different.

Version 4.5 Hotfix 1
May 30, 2022

Fixed:

- *(RM Integration)* An error where the **Select Protein Type** dialog box did not appear because the software expected to use the same Protein Source Block as in the previous Task List.

Software Improvements

A Selectable Protein Source Block in ROCK MAKER (RM) Integration to Support Your Needs

NT8-RM Integration has been improved for a better user experience. You can now easily select the Protein Source Block that suits your needs: **High Volume Protein Block**, **Low Volume Protein Block**, and **High Volume Multi-Source Protein Block**. A dialog box will appear once you enter the barcode of an experiment, allowing you to select the type of Protein Source Block most suitable for your needs. The NT8 Control Software also provides a recommendation of Protein Source Block based on the protein volume in your experiment.

Enhanced 24-Well Plate Dispensing Feature

- **Optimized Dispensing with Both Types of Protein Source Blocks**

  Increase your 24-well plate dispensing performance by working with both types of Protein Blocks. You can aspirate from a standard Protein Block and a High Volume Multi-Source Protein Block on the same task list. Aspirating from both Protein Block types (the standard and the high volume multi-source ones) can facilitate you with more protein volumes for your experiment.

- **Easier 24-well Plate Dispensing**

  When dispensing a 24-well plate, strikethroughs now appear to indicate which wells on the protein block are not available. This makes programming which well to aspirate protein from easier when working with 24-well plates.

  The software interface improvement also goes for the Deep Well and HV Tip Caddy Stations interface. The Deep Well and High Volume Tip Caddy stations you use to run the Plate Copy option are highlighted as "Unavailable" when using 24-well plate dispensing. This improvement aims to keep your NT8 hardware safe. A message informing you that both stations are not accessible is provided in each station to give you a visual cue that the Plate Copy option will not be available for 24-well plate dispensing.

Note: This improvement is only available for NT8 hardware purchases with the plate copy option.

A Redesigned Software Menu for Streamlined User Experience

NT8 4.5 comes with a redesigned **Tools** menu to make it easier for you to perform tasks. The **Options**, **Touch Sensors**, **Calibrations**, and **Test Email** options are categorized in a tidier section for your convenience.

Minor Software Changes

NT8 version 4.5 added several minor changes for your better usability including the following:

- **More Intuitive Auto Calibration Settings**

  Your keyboard and mouse have been intensified to support your **Auto Calibration Settings**. Your keyboard arrow keys can be used to adjust the X, Y, and Z axes, and the scroll wheel on your mouse can be used to adjust the **Speed** in the **Manual Control** field.

  On top of all that, your keyboard and mouse have been configured to modify the X, Y, and Z axes instantly on the calibration result table. Click on either the X, Y, and Z axes and type the axes you think are more accurate.

- **A Reliable Data Backup Storage**

  Enjoy a more secure data backup experience with the NT8 Control Software. When you install the NT8 Control Software for the first time, you can now select the data backup location that fits your needs: **Default location** or **Custom location**. Your backup data and live data will remain safe.

Improved:

- Software behavior so that users can automatically scroll through the **Task List** panel. This improvement will work when their cursor is pointing outside of the **Task List** panel.

Fixed:

- An incorrect installation space required for the NT8 Control Software version 4.2.

- An error where the NT8 Head did not continue moving to Z when the user opened then closed the NT8 enclosure during the Dispose Tip task in the Waste Station.

- An issue when a wrong warning message appeared informing users that not enough reagent was available in the well plate. This occurred when the user aspirated from the well plate using HV Tips.

- An error in the Waste Station when the user used the data in software version 2.8 to be run in software version 4.2. This error occurred because no default configuration for the Waste Station in software version 2.8.

- An issue where the user enabled the sensors of LV Tip Flexible Finger in the **Touch Sensors** dialog box to accommodate dispense task but the **Run Task List button** did not work.

- An issue where the NT8 hardware did not move to the home position after the user unplugged the USB cable while the task list was running and tried to reconnect to the NT8 Control Software.

- An issue where the user did not receive a warning message after inputting a wrong format of humidity percentage value in the **Humidity Setting** dialog box instead of an error message.

- A plate type file in the **Plate Type Library** wizard not deleted because the file overwrote the non-existing plate type file.

- An error where an exception message appeared when the user canceled the process of upgrading the NT8 Control Software to the latest version.

- An issue where the error message informing users that they could not load the barcode of an experiment containing 24-well plate type in **RM Integration** appeared after the user selected the protein source block type. The message should appear after the user loads the barcode.

- An issue in the **Auto Calibration Settings** wizard where the **Apply** button was disabled after the user run **Move down until touch**. This issue occurred when the user adjusted the Laser **to LV Position**.

- An issue where there were two software installers run.

Removed:

- A warning message appeared in the Dispense task in software version 4.4 although the aspirate and dispense volumes were correctly set.