

Quick Guide

(Refer to the Operating Manual for details on operating methods.)



Tissue-Tek Prisma® Plus Automated Slide Stainer

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Process Flow

- Preparation for Operation Standby
- Start the water supply.
- Turn on the power and log on to the instrument.



- Preparation for Staining
- Open the lid of each solution reservoir to check the solution level.
- Select a solution configuration.



- Start of Staining
- Select a staining program.
- Set staining baskets in the start station.



To perform another staining run consecutively, add staining baskets.
* Applicable only in the continuous mode.

During Staining
Operations permitted during staining



- End of Staining
- Remove the stained baskets from the end station.



- End of Operation
- Turn off the power and stop the water supply.
- Close the lid of each solution reservoir.

Preparation for Process

Opening the Water Supply

1. Open the tap water faucet so that water can be supplied.
2. Hold the center of the hood and raise while pulling it toward you to open the hood and remove the lid of each solution reservoir.

Caution! Be sure to remove all lids. If any lid remains closed, tissues may be damaged when the baskets are transferred to the applicable station.

Logging On to the Instrument

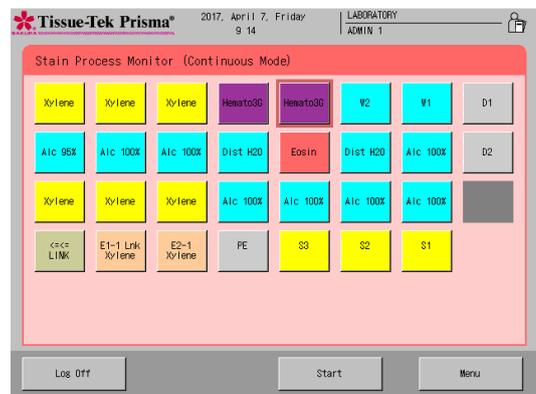
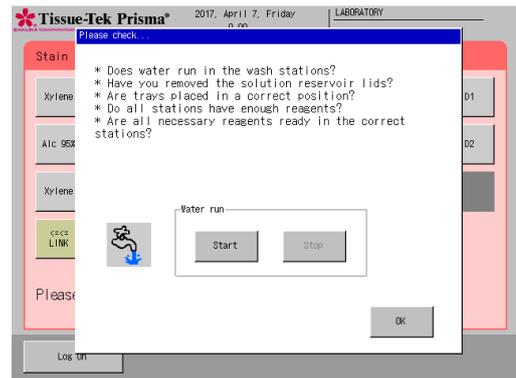
1. The user must log on to the instrument to start instrument operation. Only one user can log on to the instrument at a time.

When the power switch located at the bottom right of the instrument is turned on, the display shows a message indicating that the instrument is loading data. After a while, a confirmation screen on instrument use appears. After confirming the items, touch the **OK** button to return to the Stain Process Monitor screen.

Note Touch the **Start** button under "Confirm Water Supply," and you can perform a water supply test. Touch the **Stop** button to stop the water supply.

2. When the Stain Process Monitor screen appears, touch the **Log On** key at the bottom left. When the Enter Password sub-window appears, enter a pre-assigned password using the numeric keypad (number keys 0 to 9) shown on the display. If you have made a mistake, touching the **Backspace** key deletes the last character entered. Alternatively, you can touch the **Cancel** key to cancel the password entry and return to the Stain Process Monitor screen.
3. After the password has been entered, touch the **Enter** key to complete the logon.

Note "Logging off"
To log off from the instrument, touch the **Log Off** key at the bottom left of the screen. You can log off from the instrument even after staining has started. Once the user logs off, the instrument only accepts the operation inputs to check the staining status, which prevents inadvertent operations by different users. To perform other operations, the user must log on to the instrument again.



Selecting and Saving a Solution Configuration and Setting Solutions

The instrument can store multiple solution configurations and staining programs. Accordingly, you must select a solution configuration appropriate for the staining program you want to run and display the selected configuration on the monitor screen before starting the program.

1. Touch the **Menu** key [1] shown at the bottom right of the Stain Process Monitor screen.
2. Select Stain Process Menu [2] from the Stain Process Menu, Utility Menu or Edit Menu tab, and then touch the **Solution Configuration Selection** key [3].
3. Select and touch a desired solution configuration name under Solution Configuration List, and then touch the **Select** key [4].

Note Touch the Check Program key to check the staining programs that can be operated with the solution configuration you have selected.

To check a given solution configuration, select the applicable solution configuration and touch the View key to display the Solution Configuration View screen showing the applicable station arrangement. You can also check the reservoir arrangement of the next configuration by touching the Change View key at the bottom right. If the current solution configuration is appropriate, touch the Select key. To check other solution configuration, touch the Exit key and select a desired solution configuration again.

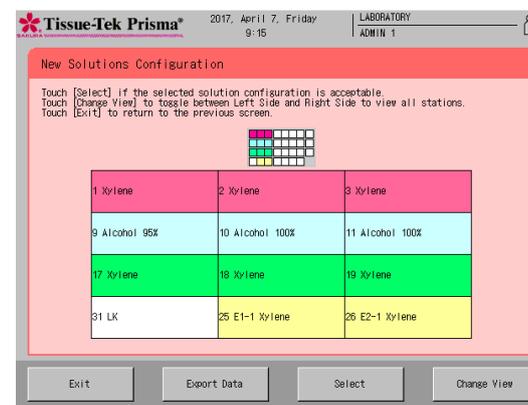
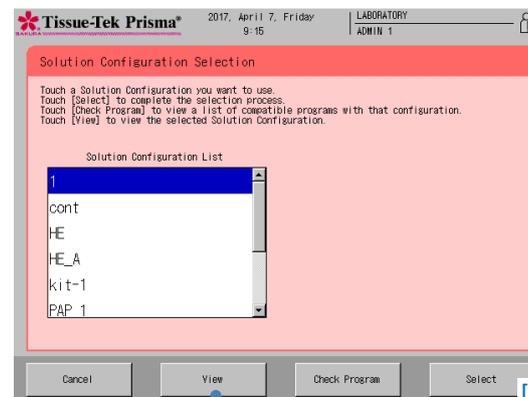
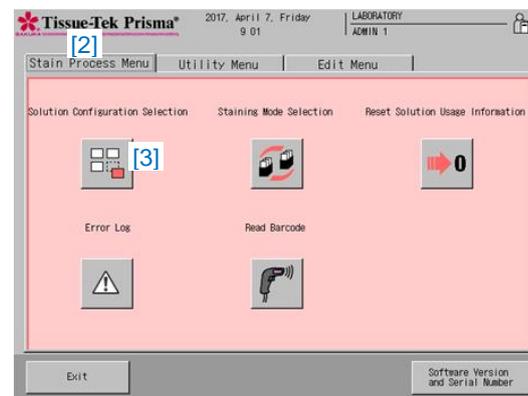
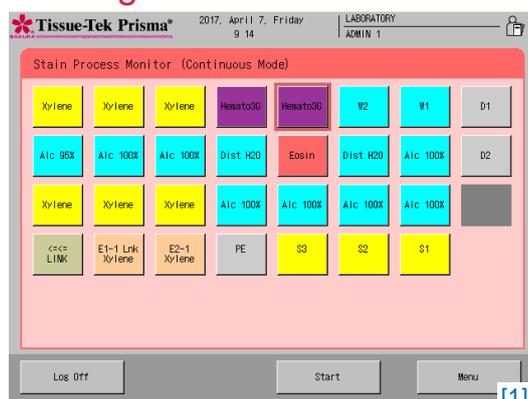
4. Touching the **Select** key displays the New Solution Configuration screen. If the new solution configuration you have selected requires changing the arm holder from the 3-position type to 1-position type, or from the 1-position type to 3-position type, the Change Arm Holder window appears with the message asking if the arm holder has been changed. Change the arm holder according to the message, and then touch **Yes**.
5. Open the hood and set solutions according to the screen display. First, set solution reservoirs by paying attention to the different reservoir types; i.e., standard solution reservoir, small solution reservoir and special stain solution reservoir.
6. Next, fill solutions into the reservoirs. Solutions should be filled into the solution reservoirs beforehand on a flat, stable surface, or directly into the reservoirs already set in the instrument. If solutions are filled outside the instrument, transport the filled reservoirs into the instrument using special solution trays to facilitate the operation.

Note Solution reservoirs are largely classified into three types: standard solution reservoir, small solution reservoir and special stain solution reservoir. The basket capacity and required solution volume of each solution reservoir are summarized below.

	Standard solution reservoir	Small solution reservoir	Special stain solution reservoir
20-slide basket	3	1	-
10-slide basket	3	1	1
Required solution volume	680 ~ 820 mL	255 ~ 285 mL	160 ~ 180 mL

7. After all solutions have been set, close the hood and touch the **Exit** key to save the selected solution configuration.

To perform other operation, you can return to the Stain Process Menu screen by touching the **Cancel** key.



Setting Slides into Baskets

1. Prepare slides to be stained. Check the solution configuration and prepare baskets (20-slide or 10-slide baskets) together with appropriate basket adapters.
2. Attach a basket adapter to each basket by aligning the "UP SIDE" mark on top of the adapter with the "UP SIDE" mark on one side of the basket. After confirming that both "UP SIDE" marks are facing the same direction, tilt the basket adapter along the groove.
3. Next, store the slide into the basket one by one. Set the slides in the correct orientation so that their tissue side aligns with the "UP SIDE" marks. When all slides have been set, return the tilted basket adapter to the original position.

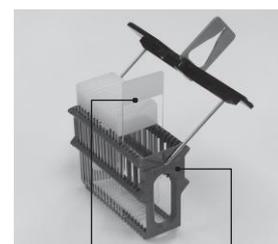


"UP SIDE" mark

Caution! Do not use a deteriorated, worn, damaged or deformed basket/basket adapter, as it may cause problems. Replace any such basket/basket adapter with a new one.

Note

Store the slides evenly in the basket. If the slides are stored unevenly, basket movements are affected during the staining operation. Particularly when there are fewer slides, be careful not to let the basket tilt when storing the slides.



Tissue side "UP SIDE" mark

Start of Stain Process

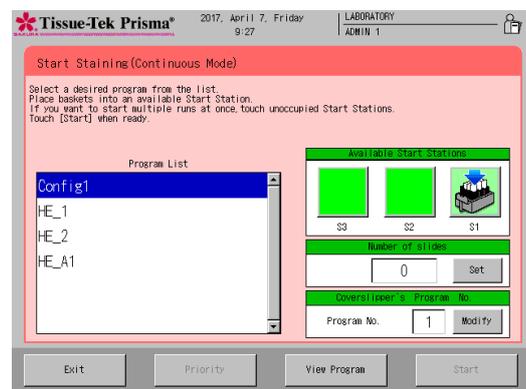
Note

This section explains a normal procedure to start stain process. Refer to P. 2-13 of the Operating Manual for the procedure to start stain process in the "batch mode" by specifying the start step and end step.

1. Touch the **Start** key at the bottom of the Stain Process Monitor screen. If the Stain Process Monitor screen is not currently displayed, complete or abort the current operation and touch the **Exit** key or **Cancel** key at the bottom right of the screen to return to the Stain Process Monitor screen.
2. Touch the **Start** key and select a desired staining program under Program List. To check the details of the selected program, touch **View Program** key at the bottom right.
3. Next, select the place to set a basket in, from among the baskets shown under Available Start Stations on the right side of the screen. If all start stations are empty, "S1" is automatically selected. To change the start station, select the new station, and then touch the original station to cancel the selection. You can also select and set multiple start stations simultaneously for the same staining program. The number of start stations as well as the number and type of baskets that can be set in each station are fixed depending on the selected "solution configuration." Check the applicable basket type from the basket icon shown on the screen.

Note

If three start stations have been set, "S1," "S2" and "S3" are shown. Touching a desired icon on the screen adds the basket mark on the applicable station, thus setting it as the start station in which baskets are set.



Starting the Process

- If the program covers stations for which "Management by slides" has been set, the field in which to enter the number of slides is displayed.

If this field is displayed, enter a desired number of slides.

Touching the **Set** key displays the virtual numeric keypad for entering values.

The range of values that can be entered varies depending on the program.

- If the program covers only standard solution stations, the range is 1 to 60.
- If the program covers only small solution stations, the range is 1 to 20.
- If the program covers special stain solution stations, the range is 1 to 10.

Note If the **Start** button is touched without entering the number of slides, a warning window appears. If the program does not cover any station for which "Management by slides" has been set, the field in which to enter the number of slides is not displayed. If "Management by slides" is selected, processing can be started at only one station at a time.



■ **For standard solution station**

Up to three 20-slide baskets can be set.
Use the 3-position arm holder.



■ **For small solution station**

Only one 20-slide basket can be set.
Use the 1-position arm holder and attach a 20-slide basket load/unload adapter to the start station. The arm will not pick up baskets set in positions other than the center of the start station.



■ **For special stain solution station**

Only one 10-slide basket can be set.
Use the 1-position arm holder and attach a 10-slide basket load/unload adapter to the start station. Stain process cannot be started if a 10-slide basket load/unload adapter is not set.

- Open the door at the bottom of the hood to set a basket into the start station. Push the top of the center of the door toward the back once opens the door toward you. When the door opens, draw out the reservoir in the start station and set by paying attention to the orientation of the basket in which slides have been set. Set the basket so that the "UP SIDE" mark on top of the basket adapter faces right. Align the grooves in the top surface of the start station with the grooves provided at both ends of the top surface of the basket adapter. After setting the basket, push the start station reservoir into the instrument, close the door, and then push the door until a click sound is heard.
- Touching the **Start** key at the bottom right of the screen displays a confirmation message. Select **Start** to start staining.
- Once staining starts, the Stain Process Monitor screen appears where you can check the current processing. Refer to P. 2-7 of the Operating Manual for the operations permitted during stain process.

Caution! The starting procedure explained above is only one example. If the instrument has been set to start staining upon closing of the door, you need not touch the **Start** key because closing the door automatically starts stain process.

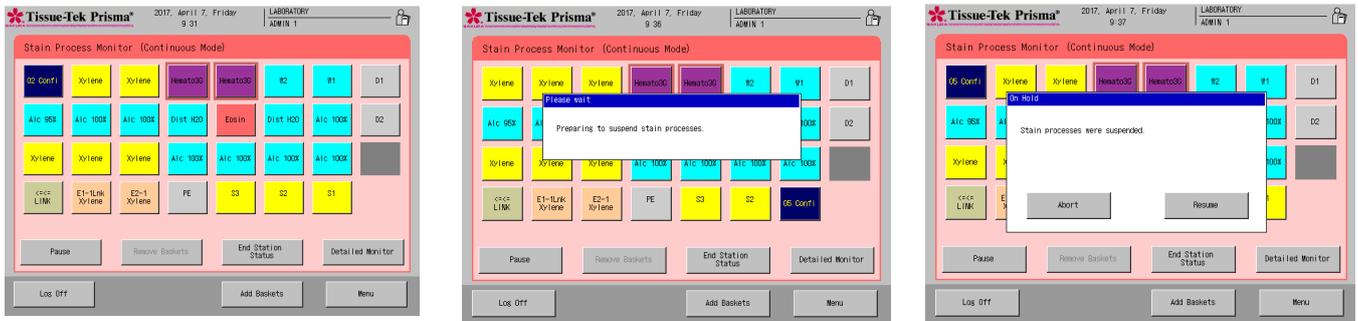
Pausing/Aborting

Pausing

To pause stain process, touch the **Pause** key on the left of the Stain Process Monitor screen.

Touching the **Pause** key displays the pausing window. The arm will continue to move until a position where it can stop safely, after which all staining runs will stop.

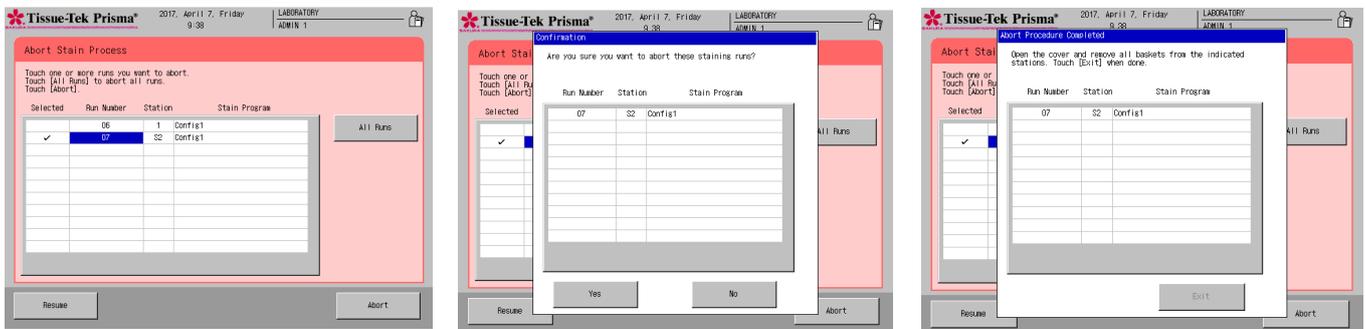
To resume stain process, touch the **Resume** key. Note that the pause operation may make it no longer possible to complete the process by the scheduled end time. In this case, the scheduled end time must be extended at the time of resumption by up to the period during which stain process has been paused.



Aborting

To cancel all or part of the current staining runs, touch the **Pause** key in the Stain Process Monitor screen and then touch the **Abort** key. When the abort window appears, touch the **All Runs** key to cancel all staining runs. To cancel certain staining runs, touch the applicable staining run numbers to add a check mark "✓" to the "Selected" field of each staining run.

When the **Abort** key is touched, a confirmation screen appears and asks if you want to abort the selected staining runs. Selecting **Yes** displays the abort completion window. Open the hood and remove the aborted baskets. Once the baskets have been removed and the hood closed, the **Exit** key is displayed. Touch this key to complete the abort operation.



End of Process

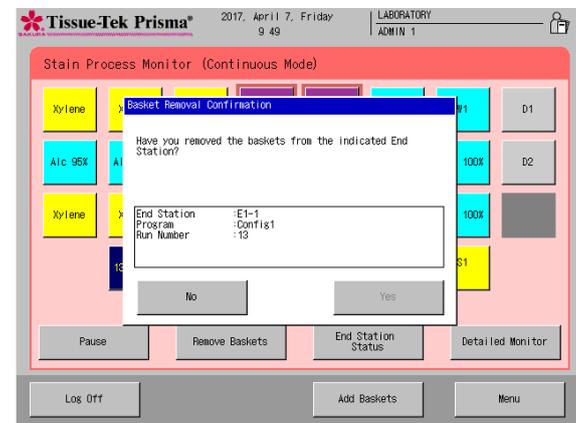
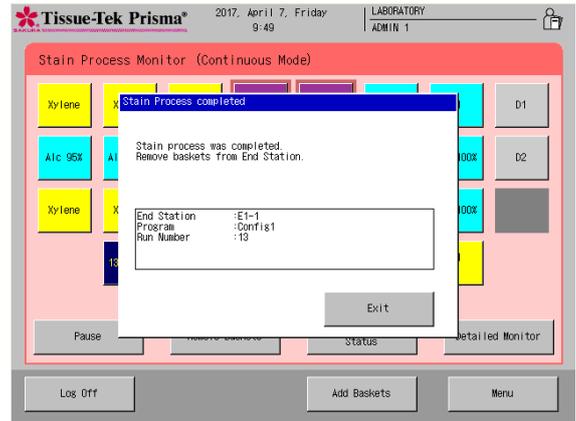
End of Process

Stained baskets are stored in the specified end station or PE station. (If the instrument is linked to a coverslipper, stained baskets are stored in the link station. If the link station is full, stained baskets are temporarily stored in the end station as a standby station and wait there until they can be stored in the link station.)

● Removing the Stained Baskets

1. A window notifying the end of stain process appears and automatically disappears in around 15 seconds.
2. Confirm that the arm is not on a solution station in the frontmost row, and then open the door and remove the basket.
3. Once the basket has been removed and the door closed, the basket removal confirmation window appears. Touch the **Yes** key in this window. If you have not yet removed the basket, touch the **No** key.

Note After the door is opened, remove all stained baskets from the end station and PE station.



End of Operation

1. After all operations have completed, turn off the power switch located at the bottom right of the instrument, and then stop the water supply.
2. Close the lids on all solution reservoirs, and then close the hood.

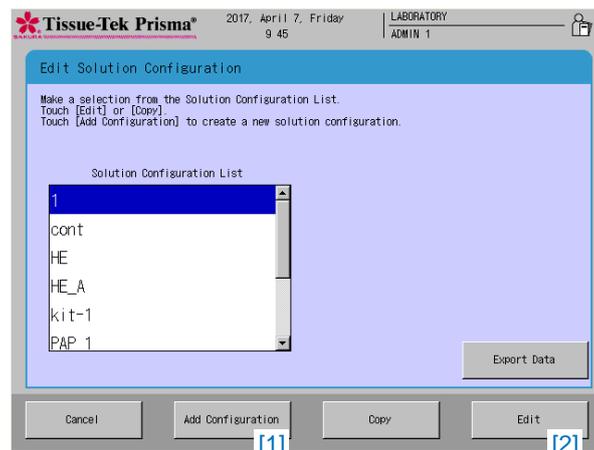
Setting a Solution Configuration

Setting a Solution Configuration (1)

● Saving/Editing a Solution Configuration

1. Touch **Menu** at the bottom right of the Stain Process Monitor screen, and then select **Edit Solution Configuration** from the Edit Menu tab.
2. Touch the **Add Configuration** key [1], and then enter a solution configuration name (using of up to 20 characters) from the simple keyboard shown in the Create Solution Configuration Name screen. After the solution configuration name has been entered, touch the **Save** key to save the name.
3. Touching the **Save** key displays the Solution Configuration Setup screen.

Note Up to 50 solution configurations can be saved. To edit a solution configuration, select the solution configuration you want to edit from Solution Configuration List, and touch the Edit key [2].



Setting a Solution Configuration (2)

● Setting Up a Solution Configuration

Setting a solution configuration name displays the Solution Configuration Setup window. In this screen, the entire solution configuration can be set.

● Solution Configuration Type

You can select whether to use standard solution reservoirs (Standard) or small solution reservoirs (Small). Touching this function toggles the selection between **Standard** and **Small**.

● Number of Start Stations

Determine the number of start stations. Up to three start stations can be set.

Touching this function toggles the selection in the sequence of **1 Station**, **2 Stations** and **3 Stations**.

● Program End (PE) Station

Select whether or not to use a PE station. If a PE station is used, the PE station is set on the rightmost end station. Touching this function toggles the selection between **In Use** and **Not In Use**.

● Setting Number of linked End Stations (E1)

If the instrument is linked to a coverslip, the processing moves to the linked end stations when the staining ends. Up to five such stations can be set. Touching this function toggles the selection in the sequence of **Not In Use**, **1 Station**, **2 Stations**, **3 Stations**, **4 Stations** and **5 Stations**.

● Setting Number of non-linked End Stations (E2)

Determine the number of end stations that are not linked to the coverslip. Up to five such stations can be set. Touching this function toggles the selection in the sequence of **Not In Use**, **1 Station**, **2 Stations**, **3 Stations**, **4 Stations** and **5 Stations**.

Note Set no more than six stations including the start stations, PE station, linked end stations (E1) and non-linked end stations (E2).

● Number of Wash Stations

Determine how many wash stations to be used or no wash station will be used. If used, up to four wash stations can be set. Touching this button toggles in the sequence of **Not In Use**, **1 Station**, **2 Stations**, **3 Stations** and **4 Stations**.

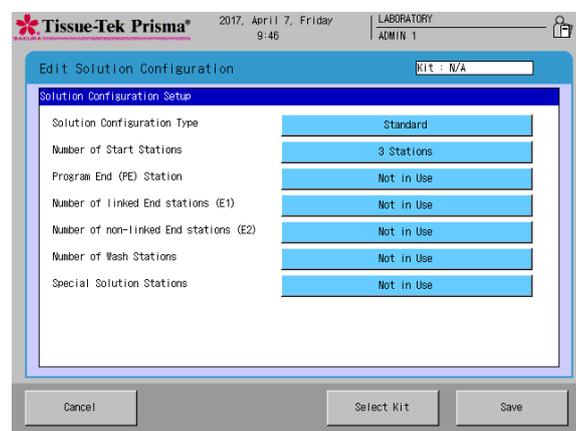
● Special Solution Stations

Determine whether or not to use special solution stations. Touching this function toggles the selection between **In Use** and **Not In Use**.

● Heating Stations (Available with the DRS-Prisma-P-JS only)

Determine whether or not to use heating stations. If **In Use (No Heating)** is selected, the heating stations do not perform heating control and are treated as normal special solution stations. Touching this function toggles the selection in the sequence of **In Use**, **Not in Use** and **In Use (No Heating)**.

Touching the **Save** key displays the next setup screen, or Edit Solution Configuration screen, where you can set each solution station.



Setting a Solution Configuration

Setting a Solution Configuration (3)

● Setting Up an Edit Solution Configuration

Setting the items in the Solution Configuration Setup screen and then touching the **Save** key displays the Edit Solution Configuration screen. In this screen, you can set detailed settings for individual solution stations.

The available settings are explained below. After the necessary items have been set, touch the **Save** key to save the completed configuration.

● Solution Configuration Layout

You can touch each station to set a solution name for the specified solution station as well as management method of the solution. These items can be set only for colored solution stations. Those filled with gray do not permit these settings.

● Detailed View

You can view the solution configuration in a list form.

● Properties

Touching **Properties** in the Edit Solution Configuration screen opens another screen where you can set display colors for the selected solution configuration as well as parameters relating to staining control.

... Station Colors

Change the display color of each station group.

... Station Parameters

You can set detailed controls such as "Mix," "Enhanced Wash," "Basket Lifting Speed," "Water Wash Cycle Time" and "Temperature Settings."

● How to Set Solution Name and Management Method

You can touch each station to set a solution name for the specified solution station as well as management method of the solution. These items can be set only for colored solution stations. Those filled with gray do not permit these settings.

1. In the Edit Solution Configuration screen, touch the station you want to set a solution for. Select a desired solution name from "Standard Solutions," "Sakura Solutions" and "Kit Components" in the Select Solution field.

Note

"Standard Solutions" show the solutions other than special solutions, as well as the solutions saved by the user.
 "Sakura Solutions" include Sakura staining solutions managed by bar code.
 "Kit Components" include the solutions that constitute the staining kits managed by bar code.

2. After selecting the solution name, set the solution management method.
 Touching the **Management Method** toggles in the sequence of **Runs: Management by runs done/Days: Management by days/Pcs: Management by slides/NONE: Not Managed**.
3. Next, determine a specific usage limit. Touching the **Modify** button in the entry field displays the virtual numeric keypad, so enter a limit value using the numeric keypad.

Note

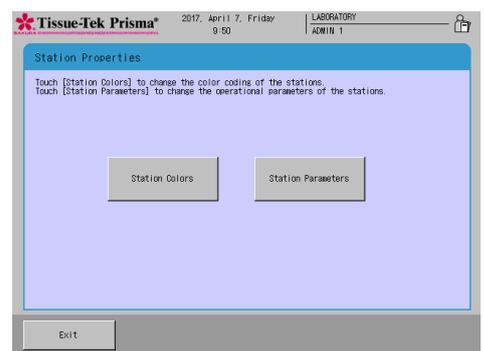
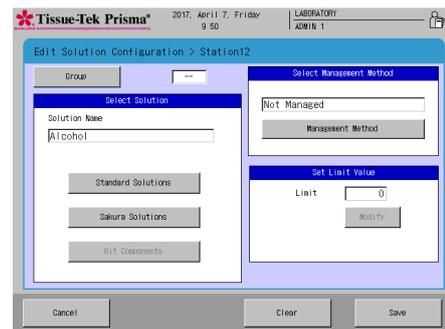
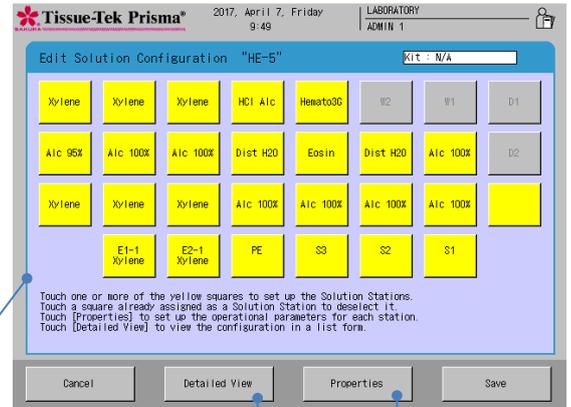
Runs: Manages the number of runs. You can enter a value between 0 and 99.
Days: Manages the number of days. You can enter a value between 0 and 99.
Pcs: Manages the number of slides. You can enter a value between 1 and 9999.
NONE: Not Managed. The entry field is grayed out.

4. Touching the **Save** key saves the settings and returns to the Edit Solution Configuration screen.

● How to Set Station Groups

Select solution names and touch the **Group** button, and you can assign the stations to groups G1 to G5.

The stations in a group can have a colored border.



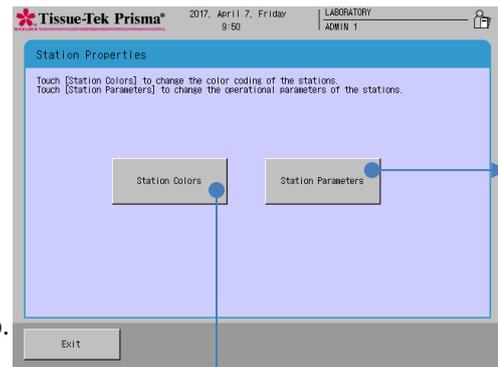
Setting a Solution Configuration

Setting a Solution Configuration (4)

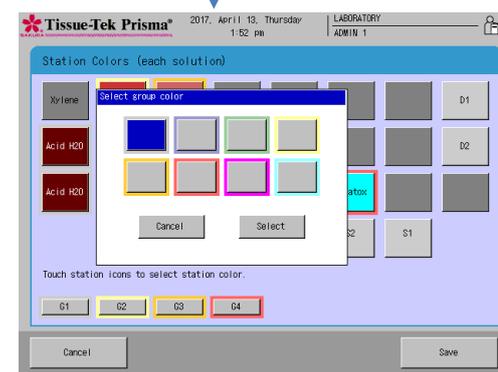
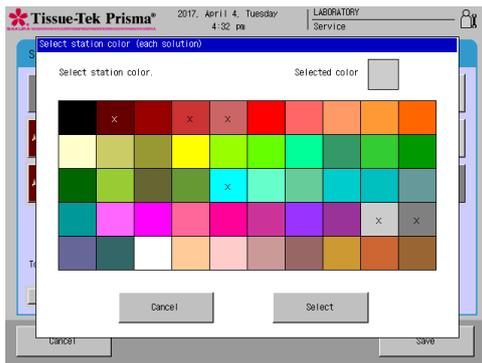
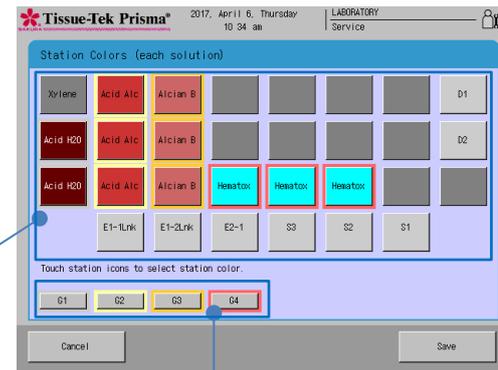
- **How to Set Station and Group Colors/
How to Set Staining Control Parameters**

Touching **Properties** in the Edit Solution Configuration screen opens another screen where you can set display colors for the selected solution configuration as well as parameters relating to staining control.

In addition, at staining control parameters, you can set detailed staining controls by touching **Mix, Enhanced Wash, Basket Lifting Speed, Water Wash Cycle Time** and **Temperature Setup**.



To (a) on next page



● Setting Station Colors

You can assign colors to the solution stations, heating stations, special solution stations, drying stations, wash stations, start stations, end stations, and PE station, except for the link stations. Fifty different colors are available.

Different colors can be set for each solution name or station.

1. Touch **Properties** on the Edit Solution Configuration screen, and then touch the **Station Colors** button on the Station Properties screen, to move to the Station colors (each solution) screen.
2. Touch the button corresponding to the station you want to set a color for.
3. The Select Station color window appears. Select one color, and then touch the **Select** key to apply the selection.
4. The Select station color (each solution) screen closes and the color of the applicable station button changes to the selected color. Touch the **Save** key to save the setting.

Note

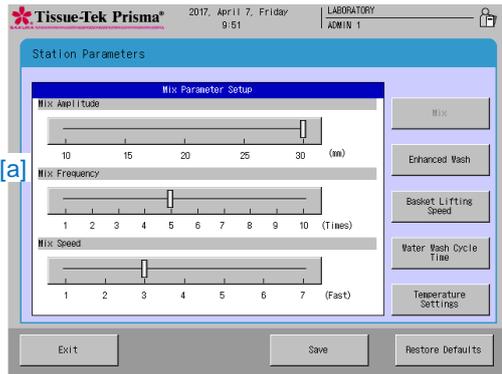
If the color setting mode is for each solution name, all stations of the same solution name have the same color. Note that this only applies to the solution stations, heating stations and special solution stations. The colors already selected are denoted by x. You can change the color mode by selecting System Setup from the Utility Menu tab.

● How to Set Colors for Solution Name Groups

The Station Colors (each station) setting screen for a group of solution names has up to five buttons of G1 to G5. Eight colors are available.

1. Touch **Properties** on the Edit Solution Configuration screen, and then touch the **Station Colors** button on the Station Properties screen, to move to the Station colors (each solution) screen.
2. Touch the button corresponding to the group whose color you want to change. Example) **G1** button
3. The Select group color window appears. Select one color, and then touch the **Select** key to apply the selection.
4. The selected color appears around the border of the station buttons in the group. Touch the **Save** key to save the setting.

Setting a Solution Configuration



● Mix Parameter Setup

● Mix Amplitude

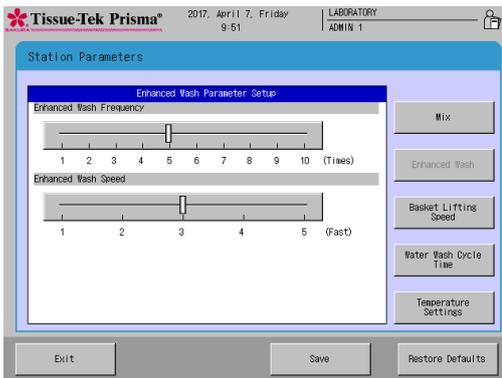
You can set the amplitude of up/down basket movement in the solution. Select a desired slider and move it to right or left to change the setting. The adjustable range is "10 to 30" (mm) at 5-mm intervals. The default is "30" mm.

● Mix Frequency

You can set the mix frequency applicable to each mixing operation. Select a desired slider and move it to right or left to change the setting. The adjustable range is "1 to 10" (times). The default is "5."

● Mix Speed

You can set the speed of up/down basket movement during mixing. Select a desired slider and move it to right or left to change the setting. The adjustable range is "1 to 7," with "7" representing the maximum speed. The default is "3."



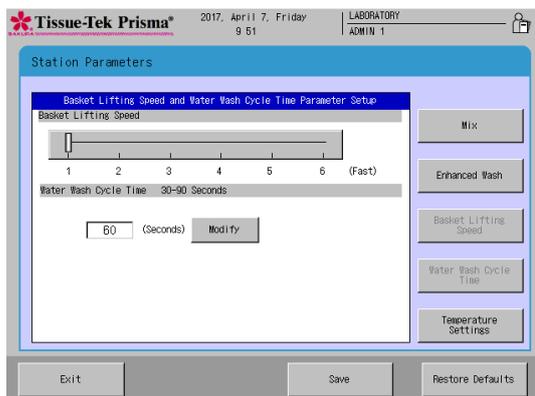
● Enhanced Wash Parameter Setup

● Enhanced Wash Frequency

You can set the number of times the up/down basket movement out of the solution and back into the solution is repeated. Select a desired slider and move it to right or left to change the setting. The adjustable range is "1 to 10" (times). The default is "5."

● Enhanced Wash Speed

You can set the speed of up/down basket movement during enhanced wash. Select a desired slider and move it to right or left to change the setting. The adjustable range is "1 to 5," with "5" representing the maximum speed. The default is "3."



● Basket Lifting Speed and Water Wash Cycle Time Parameter Setup

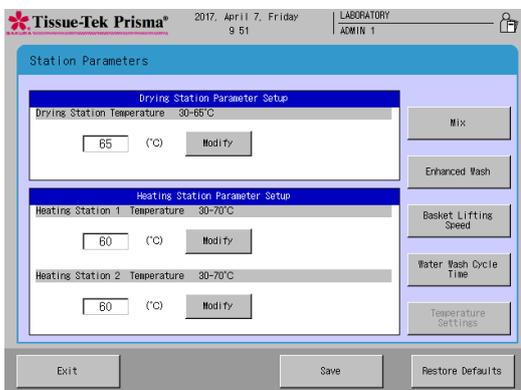
● Basket Lifting Speed

You can set the speed at which baskets are lifted. Select a desired slider and move it to right or left to change the setting. The adjustable range is "1 to 6," with "6" representing the maximum speed. The default is "1." Use "1" in normal conditions of use.

Caution! When the pull-up speed is increased, more solution will be brought into the next station and accelerate solution deterioration, resulting in lower staining quality. There are also risks of tissue contamination due to dropping solution.

● Water Wash Cycle Time

You can set the cycle at which the dirty water containing staining solution and other contaminants in the wash stations is changed. Set a value using the numeric keypad displayed by touching the **Modify** key. The adjustable range is "30 to 90" (seconds). The default is "60" (seconds).



● Temperature Setup

● Drying Station Temperature

You can set the temperature of drying stations. Set a value using the numeric keypad displayed by touching the **Modify** key. The adjustable range is "30 to 65(°C)". The default is "65(°C)". Note that the drying stations may not be controlled at low temperatures depending on the outside air temperature.

● Heating Station 1 Temperature

You can set the temperature of the heating station installed at the back of the instrument. Set a value using the numeric keypad displayed by touching the **Modify** key. The adjustable range is "30 to 70(°C)". The default is 60°C. Note that the heating station may not be controlled at low temperatures depending on the outside air temperature.

● Heating Station 2 Temperature

You can set the temperature of the heating station installed at the front of the instrument. Set a value using the numeric keypad displayed by touching the **Modify** key. The adjustable range is "30 to 70(°C)". The default is 60°C. Note that the heating station may not be controlled at low temperatures depending on the outside air temperature.

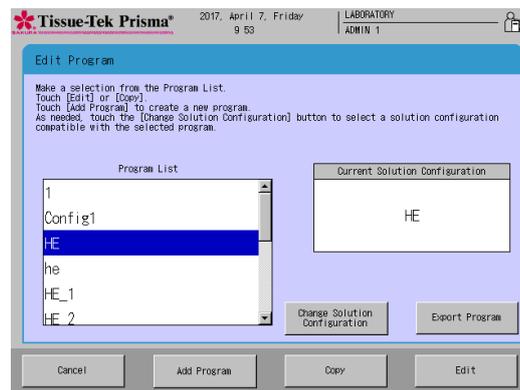
Setting a Staining Program

Setting a Staining Program (1)

● Saving/Editing a Staining Program

1. Touch **Menu** at the bottom right of the Stain Process Monitor screen.
2. Select **Edit Program** from the **Edit Menu** tab.
3. Touching **Change Solution Configuration** displays the Select Configuration window. In the list of preset solution configurations, touch the solution configuration you want to use for your new staining program and then touch the **Select** key.
4. Next, touch the **Add Program** key. When the Create Program Name screen showing the simple keyboard appears, enter a solution name (using up to 20 characters). Once the solution name has been entered, touch the **Save** key. When the screen prompts you to enter an abbreviated staining program name, enter an abbreviation from the onscreen keyboard and then touch the **Save** key to save the abbreviation. (Enter the abbreviation using up to five characters.)
5. Touching the **Save** key proceeds to the operation explained under "Creating a Staining Program."

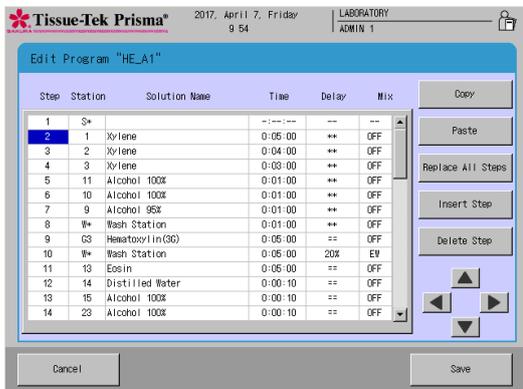
Note Up to 50 solution configurations can be saved.



Setting a Staining Program (2)

● Creating a Staining Program

To create a staining program, touch a desired item or select a desired location using the cursor keys (▲ ▲▼▲) located at the bottom right.



● How to Operate the "Step" Field

"Step" refers to the order of each staining step. You can touch and select a number(s) or blank field(s) under "Step" in the Edit Program screen and then select **Copy**, **Paste**, **Replace All Steps**, **Insert Step** or **Delete Step** to perform the applicable operation.

● Copy

Touching this button copies the line corresponding to the selected "Step" field. The data is not yet pasted.

● Paste

Touching this button pastes the data in the copied "Step" line to the line corresponding to the "Step" field currently selected. This operation inserts the source line immediately above the "Step" line currently selected by the cursor. Basically, only the "Time," "Delay" and "Mix" data are copied.

● Replace All Steps

Touching this button replaces the "Time," "Delay" and "Mix" data of all lines excluding the start station, end station and PE station lines, with the corresponding data in the copied line. The solution station names are not replaced.

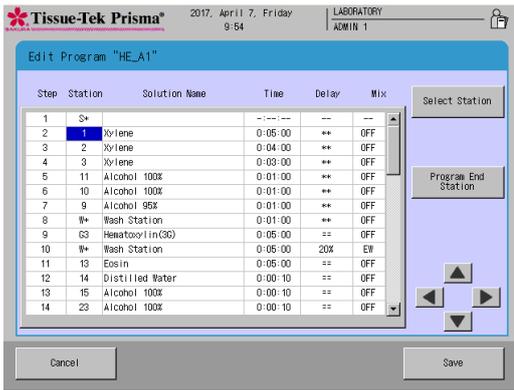
● Insert Step

Touching this button inserts a new blank "Step" field directly below the line corresponding to the selected "Step" field.

● Delete Step

Touching this button deletes the line corresponding to the selected "Step" field.

Setting a Staining Program



● How to operate the "Station" field

"Station" refers to each station number assigned to the currently selected solution configuration.

You can touch and select each "Station" field in the Edit Program screen and then select **Select Station** or **Program End Station** to perform the applicable operation.

● Select Station

You can select the station to be assigned to the selected "Station" field.

Touching the **Select Station** key displays the solution configuration layout. When a desired station is touched, the data of that station is displayed at the bottom of the screen to let you check the attribute and solution name for the station. Touching the **Modify** key reflects the selection in the "Station" field in the Edit Program screen, with the selected station number shown in the "Station" field and applicable solution name shown in the "Solution Name" field. If a non-solution station such as start station, end station, wash station or drying station is selected, the text displayed in the "Station" field conforms to the table to the left.

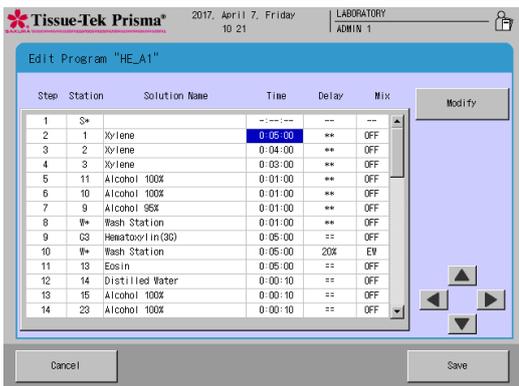


Note Set an end station or stations at the end of the staining program.

● Program End Station

You can insert a PE station as a standby station in the selected line. This operation adds "PE" to the "Station" field in the Edit Program screen. For your information, the PE station is automatically set to the rightmost end station.

Station attribute	Text displayed in "Station" field	Text displayed in "Solution Name" field
Start station	S *	(Solution name)
End stations (linked)	E1- *	(Solution name)
End stations (non-linked)	E2- *	(Solution name)
Wash stations	W *	Wash Station
Drying stations	D *	Drying Station
PE station	PE	(Solution name)



● How to operate the "Time" field

In the "Time" field, you can set a processing time for the currently selected solution.

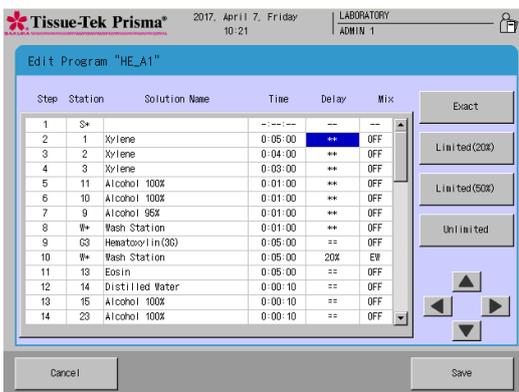
Set a desired time in the "Hours:Minutes:Seconds" format. The maximum time that can be entered is "99:59:59."

● Modify

Touch the **Modify** key to determine a processing time. Touching this key displays the numeric keypad where you can set a desired time in the "Hours:Minutes:Seconds" format. The input range of each segment is shown below:

Hours: 0 to 99 Minutes: 0 to 59 Seconds: 0 to 59

Touching **Clear** clears the selected segment to "0." Touching the **Enter** key applies the entered processing time. You can also enter "0:00:00" in some fields. But if "0:00:00" is set in all fields, you cannot save.



● How to operate the "Delay" field

"Delay" refers to an "allowable delay" to be applied to a staining run in order to run another staining run when multiple staining runs must be performed at the same time in the continuous mode while delaying other stain process.

In the "Delay" field, you can set this "allowable delay" as one of four levels.

● Exact

No delay is allowed and each staining run is performed exactly according to the specified time.

● Limited (20%)

A delay of up to 20% of the specified time is allowed.

● Limited (50%)

A delay of up to 50% of the specified time is allowed.

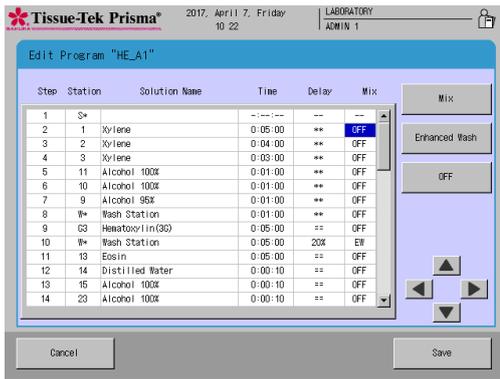
● Unlimited

An unlimited delay is allowed.

Each setting is displayed in the "Delay" field as shown to the left.

Delay setting	Text displayed in "Delay" field
Exact	==
Limited (20%)	20%
Limited (50%)	50%
Unlimited	**

Setting a Staining Program



● How to operate the "Mix" field

In the "Mix" field, you can set whether to perform "mixing" and "enhanced wash" during staining. Use of these operations that closely simulate manual staining prevents mottled colors and co-staining to enhance the staining quality.

● Mix

Touching the **Mix** key displays the screen where you can set mixing.

● Enhanced Wash

Touching the **Enhanced Wash** key displays the screen where you can set enhanced wash.

● OFF

Touching the **OFF** key disables both mixing and enhanced wash.

Each setting is displayed in the "Mix" field as follows.

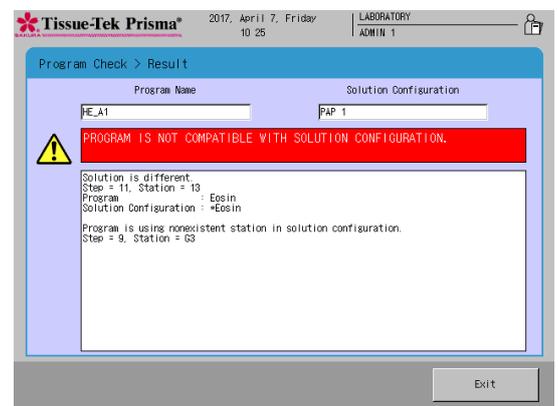
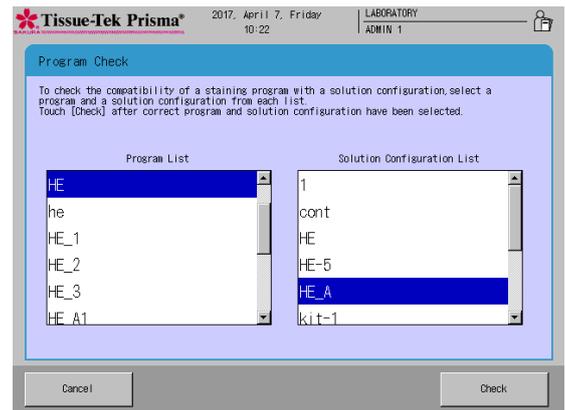
Mixing setting	Text displayed in "Mix" field
Mix	ON
Enhanced Wash	EW
OFF	OFF

Setting a Staining Program (3)

● Checking a Staining Program

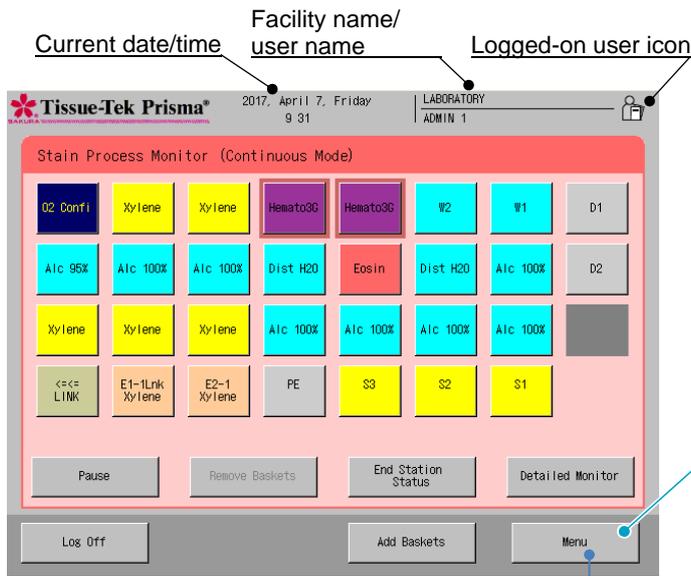
This section explains the procedure to check if a given combination of solution configuration and staining program is feasible.

1. Touch **Menu** at the bottom right of the Stain Process Monitor screen.
2. Select **Program Check** from the **Edit Menu** tab.
3. When the Program Check screen appears, select the solution configuration you want to check under Solution Configuration List. Next, select the staining program you want to check under Program List.
4. After both the program and solution configuration have been selected, touch the **Check** key at the bottom right. The "Program Check Result" screen appears.
5. This screen shows problems with the selected combination, if any. If necessary, change the staining program and/or solution configuration by referring to the displayed check result to correct the problems.

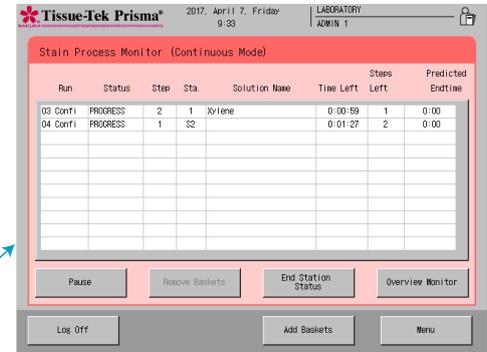


Explanation of Screens/Icons

<Stain Process Monitor screen (Overview Monitor)>

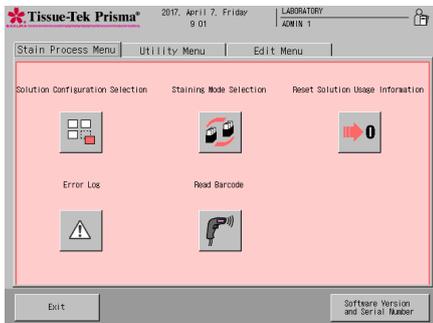


(Detailed Monitor)

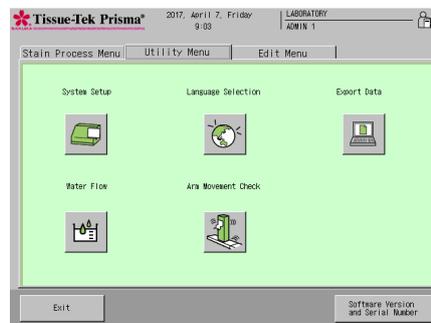


Note The staining run numbers and abbreviated staining program names shown in the "Run" field are also shown in the Overview Monitor, so the current step can be visually identified at a glance. Also, you can touch the button corresponding to a desired staining run number (No.) in Overview Monitor to check the details of the applicable staining program. Touch the Exit key to return to the Overview Monitor.

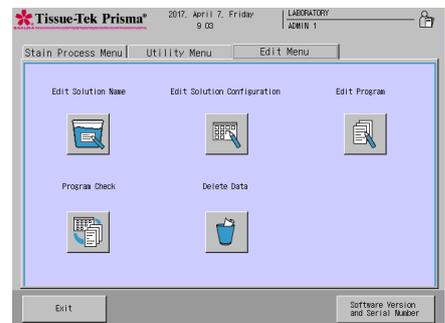
<Stain Process Menu Screen>



<Utility Menu Screen>



<Edit Menu Screen>



* During the stain process, only errors and stain mode settings are displayed.

■ Icons in the Screen Header



Administrator

This icon is shown when the user is logged on as Administrator.



User

This icon is shown when the user is logged on as User.



Sakura Finetek U.S.A., Inc. Torrance, CA 90501
Sakura Finetek Europe B.V., 2408 Alphen aan den Rijn. NL
Sakura Finetek Japan Co., Ltd. Tokyo, Japan 103-0023