

CNT520 Fully Automatic Stainer On-Site Installation Guide

1. Check for any abnormalities on the instrument outer packaging box.
2. Open the cover plates, front and rear side panels, left and right end faces of the packaging box in sequence. Count the accessories against the Packing List, check for missing or incorrectly delivered parts, and inspect the instrument and all accessories for damage or other defects.
3. Use an adjustable wrench to raise the four foot supports of the instrument. Slide the instrument from the base onto the pre-prepared flat ground via the ramp as shown in the figure. Then lower the foot supports to jack up the instrument, keeping the four feet at roughly the same height. The specific requirement is that the bubble of the level gauge in the middle of the heating chamber assembly shall be centered.



4. Open the instrument top cover, remove the cable ties securing the left and right mechanical arms of Y-axis and Z-axis with tools. Manually move the mechanical arms gently left-right and up-down separately. (Note: Ensure the Z-axis is at its uppermost position when moving the arms left-right or front-back to prevent mechanical collision.) Check for abnormalities such as stuttering or jamming.
5. Take out four slide racks, one mixing station and four 11-well reagent bottle bases respectively, install them at the corresponding positions of the instrument, then fill the small reagents into the 11-well reagent bottle bases.



Washing&mixing station

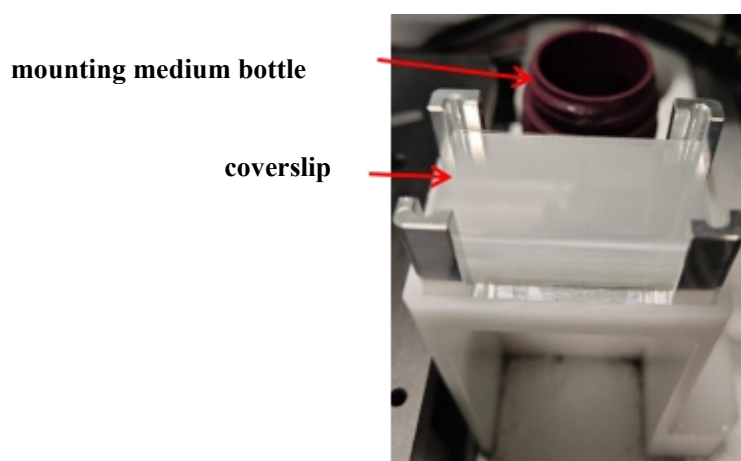


Slide rack



Reagent tray

6. Place coverslips into the membrane cassette and position the mounting medium bottle at its designated fixed location.



7. Keep the instrument workbench clean and free of foreign objects.
8. Open the lower front door of the instrument and fill each reagent tank with the corresponding reagent (50% ethanol, 95% ethanol, absolute ethanol, deionized water, deparaffinizing solution, washing solution and buffer solution).



9. As shown in the figure below, first make sure the button switch on the right side of the instrument is turned off. Connect the power cord to the rear of the instrument, and plug the other end into an external power socket (ensure the external power supply is properly grounded).



10. Take out the computer host, monitor, mouse, keyboard, power cord and VGA cable, place them on a clean workbench, connect all cables completely, then power on the computer.

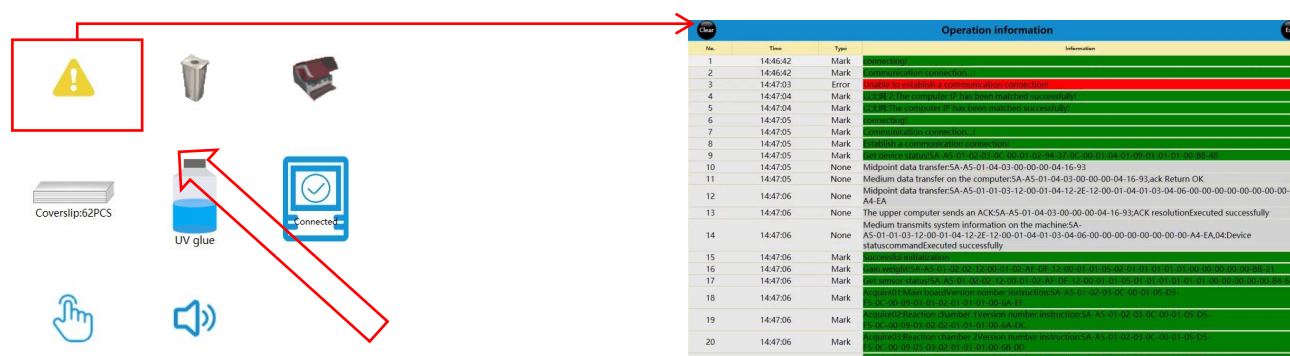
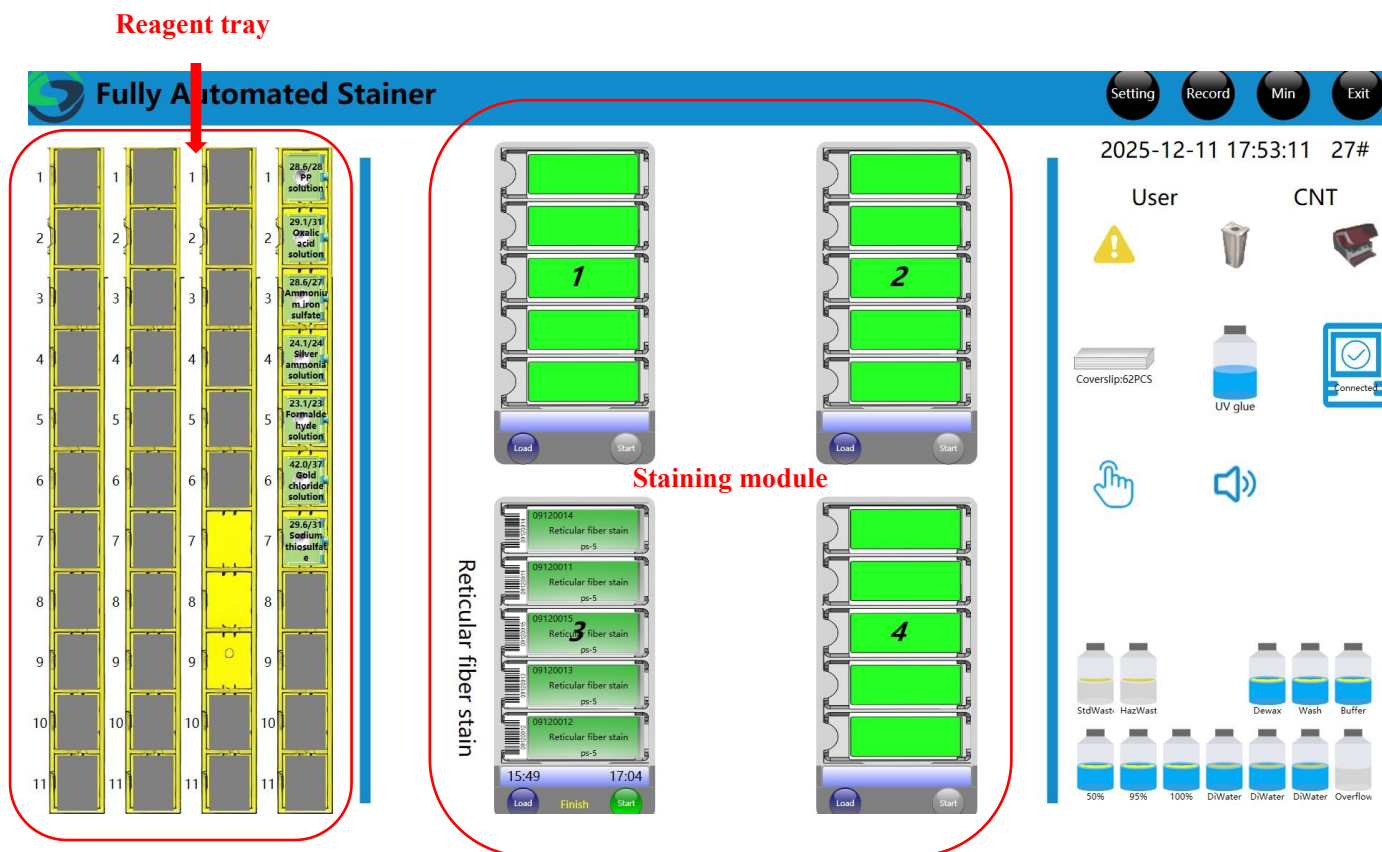
11. Retrieve the network cable, connect one end to the computer host and the other end to the rear side of the instrument.

12. Take out the barcode scanner and label printer, place them beside the computer and connect their cables to the computer host. Plug the power cord of the label printer into an external power socket, turn on the printer's power switch, and confirm printing paper is loaded inside the printer.

13. Power on the instrument: flip the power switch on the right side of the instrument to the ON position.

14. Double-click the CNT520 icon on the computer desktop to launch and log into the software. As shown in the figure below, wait until the instrument successfully connects to the computer. Right-click the exclamation mark with the mouse to enter the operation information interface. Items to be checked:

- ① Whether the instrument initializes normally without alarms or error prompts, and all moving parts operate smoothly;
- ② Whether the front indicator light strip of the instrument displays normal status;
- ③ Whether the reagent tank status displays correctly after instrument initialization;
- ④ Whether all other interface displays are normal.



Right-click to view instrument running information.



Status of reagent tray

Status of instrument cover



Coverslip:62PCS

Status of instrument cover



UV glue

Status of UV glue



Connection status



Click to scan the barcode of kits



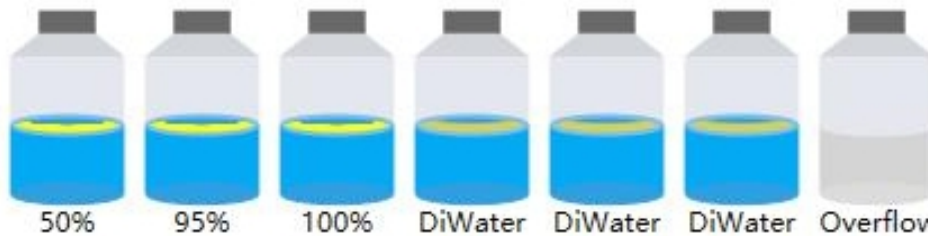
Alarm



StdWaste HazWaste

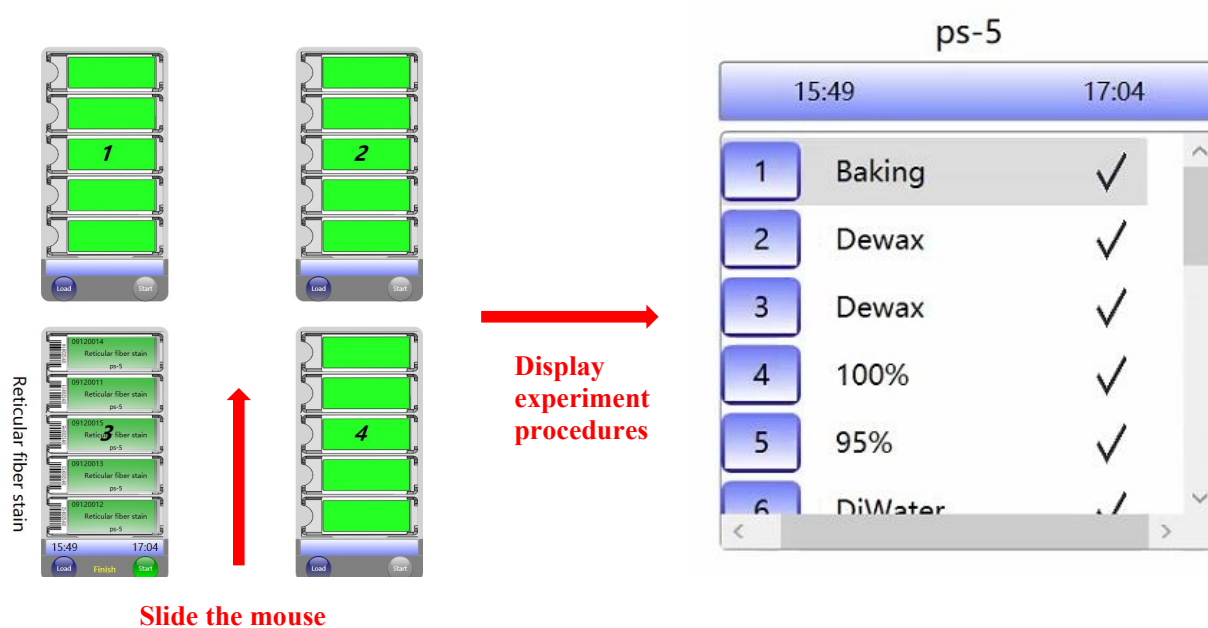


Dewax Wash Buffer

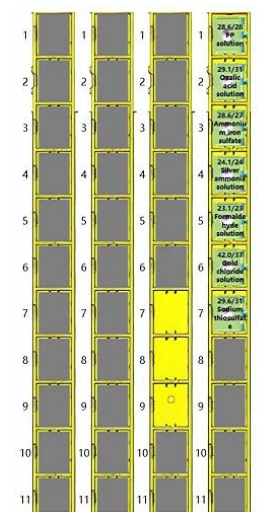


50% 95% 100% DiWater DiWater DiWater Overflow

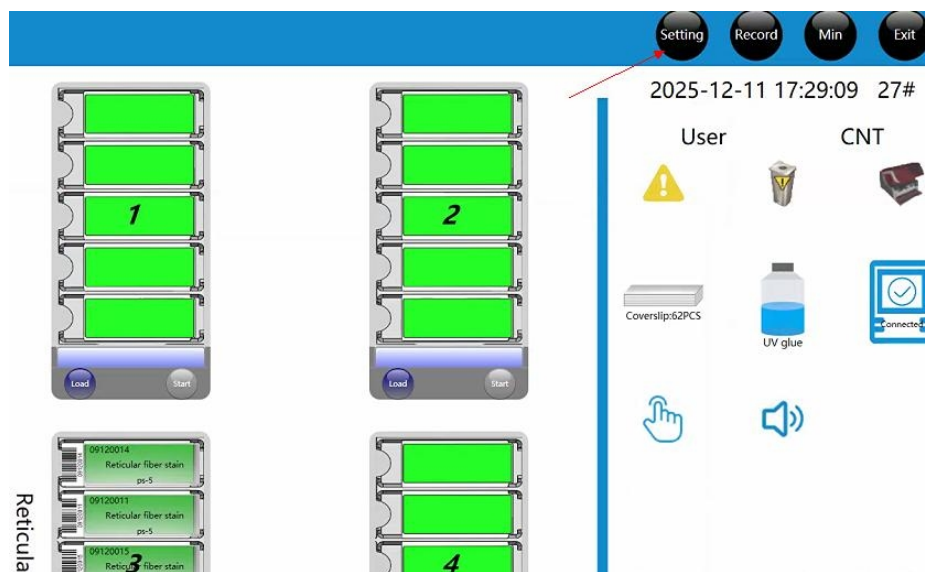
Status of the consumable&liquid tank



Before the experiment



- 1.Registration kit scan the side code on the kit with a scanner connected to the computer
- 2.Selects the location of the code to be scanned (select the corresponding reagent tray on the left side of the interface-left click is selected, and the color changes from gray to yellow). pulls out the reagent tray, and then loads the reagent rack into the reagent tray, open the cover of the kit, Push the kit back to its original position, and automatically scan the code on the kit



3. Click "Settings" in the top right corner of the screen



The screenshot shows the 'Case information' form. It has a blue header with the title 'Case information'. Below the header, there are input fields for 'Caseld', 'Doctor', 'Office', 'Name', and 'Description'. The 'Caseld' field contains 'James', the 'Doctor' field contains '1', the 'Office' field contains '2', and the 'Name' field contains 'J'. The 'Description' field is empty. At the bottom, there are 'OK' and 'Exit' buttons.

4. Right-click the yellow area, then left-click to select add, input patient information click "OK"

Caseld	Doctor	Office	Name	Description
cs11.18				
ces				
111				
HE				
222				
333				
444				
555				
James	1	2	J	

Slide information
Type: Elastic fiber stain
Protocol: *Elastic fibre
Description:
OK Exit

Add Delete
Print Setting

5. select the case, and then click on the right side of the interface "Add", pop-up slide information, select the type of staining And staining process, and finally click "OK"

Slide information
Type: Elastic fiber stain
Protocol: *Elastic fibre
Description:
OK Exit

Add Delete
Print Setting

11120001 Elastic fiber stain *Elastic fibre
11120002 Elastic fiber stain *Elastic fibre
11120003 Elastic fiber stain *Elastic fibre

6. click to select the slides, then click "Print", the printer will label printing, the label need affixed to the corresponding slide



Run a staining test to check for abnormalities such as positioning issues.



Routine testing can be performed after normal operation is confirmed.



Provide training to instrument operators until they master the operating procedures of the analyzer.