

Note: This quick user guide is not a replacement for the a4S Operation Manual which must be read before using the heat sealer for the first time. All users must know and observe all safety instructions as detailed in the operation manual.

Important!



Shipping Bracket

The a4S is shipped with a transportation bracket to prevent the plate shuttle moving during shipping. It is essential that this bracket is removed before the unit is powered up for the first time.

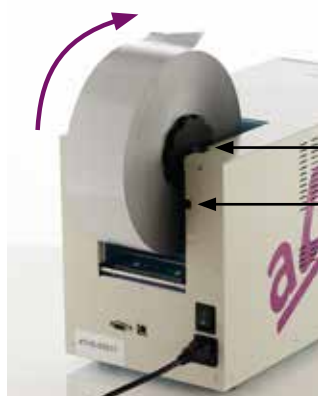
Sensor Protection Screw

To protect the rear foil sensor during transportation, the a4S is shipped with a protective screw highlighted with a white washer, inserted into the rear of the instrument. Before the unit is switched on, please make sure that the screw is removed from the instrument and retained with the other transportation packaging.

Please also refer to the **a4S Operation Manual**.

Operation of the a4S Automatic Heat Sealer

1. Connect the power cord and turn on the device.
2. Place the seal roll, along with its holder, on the device locating the ends of the Axle in either Seal Roll Support 1 or 2. The orientation of the seal roll should be as indicated by the purple arrow.



Seal Roll Support 1
(seal roll with large diameter)

Seal Roll Support 2
(seal roll with small diameter)

3. Perform the seal roll loading procedure (Please refer to the a4S Operational Manual, section 2.4 *Seal Roll Loading Procedure*).
4. Perform the fine adjustment of the seal position (Please refer to the a4S Operational Manual, section 2.5 *Fine Adjustment of the Seal Position*).
5. Adjust sealing temperature and time settings (Please see reverse page).
6. Place the plate to be sealed on the plate carrier, using an appropriate adaptor if necessary (Please see section **Plate Adaptors**).
7. The Seal icon will remain grey while the unit is heating or cooling. Once the set temperature is reached, the icon will turn green.
8. Sealing can then commence by touching Seal

Plate Adaptors

Plate Type / Plate Height	Adaptor / Side of adaptor to use
96well PCR plates 	Adaptor B  Side with 96 holes
384well PCR plates 	Adaptor B  Side with 384 holes
1536well plates, standard height plates  4mm – 20mm	Adaptor B  Side with 384 holes
Mid-height plates  14mm – 33mm	Adaptor A 
Deep well plates  34mm – 53mm	No adaptor needed

Protocol and Password Settings



Creating a Protocol

- Touch in the left hand corner of the main screen.
- Touch to create a new protocol.
- Touch the respective columns and key-in the desired name, sealing temperature, sealing time and any additional information to your protocol.
- Touch to store your protocol.
- Select your Protocol Security Level:
 - Low Level Security
 - High Level Security
 - No Password Protection (do not touch , touch to leave this window)
- Touch to go back to the main screen.

Editing a Stored Protocol*

- Touch in the left hand corner of screen.
- Touch the column you would like to edit.
- Key-in the desired temperature, time or note.
- Touch to store your new settings and to go back to the main screen.

Selecting a Protocol*

- Touch the desired protocol in the list.
- Touch .
- Touch to return to the main screen.
- The protocol setting will appear on the main screen.

Deleting a Stored Protocol*

- Touch the protocol you want to delete in the list.
- Touch .
- A warning message will appear for confirmation.
- Touch and the protocol will be deleted.
- Touch if you don't want to delete the protocol.

***Note: You may need to enter a password depending on the level of security that was set with any particular protocol. Keying-in the password is required for editing, deleting or selecting a protected protocol.**

Setting the Sealing Parameters

Time Setting

- Touch the icon on the touch screen showing the current sealing time. The time adjustment window will pop-up.



- Touch / to adjust the time setting to your desired sealing time. Pressing the touch screen repeatedly will adjust the time in 0.5 second intervals. Pressing and holding your finger on the screen will initiate scrolling through the time settings.
- Touch to confirm the displayed setting, or to revert to the original setting.

Temperature Setting

- Touch the icon on the touch screen showing the current sealing temperature. The temperature adjustment window will pop-up.



- Touch / to adjust the temperature setting to your desired sealing temperature. Pressing the touch screen repeatedly will adjust the temperature in 1 degree intervals. Pressing and holding your finger on the touch screen will initiate scrolling through the temperature settings.
- Touch to confirm the displayed setting, or to revert to the original setting.