

# Creating Protocol Sets and Customising Layouts



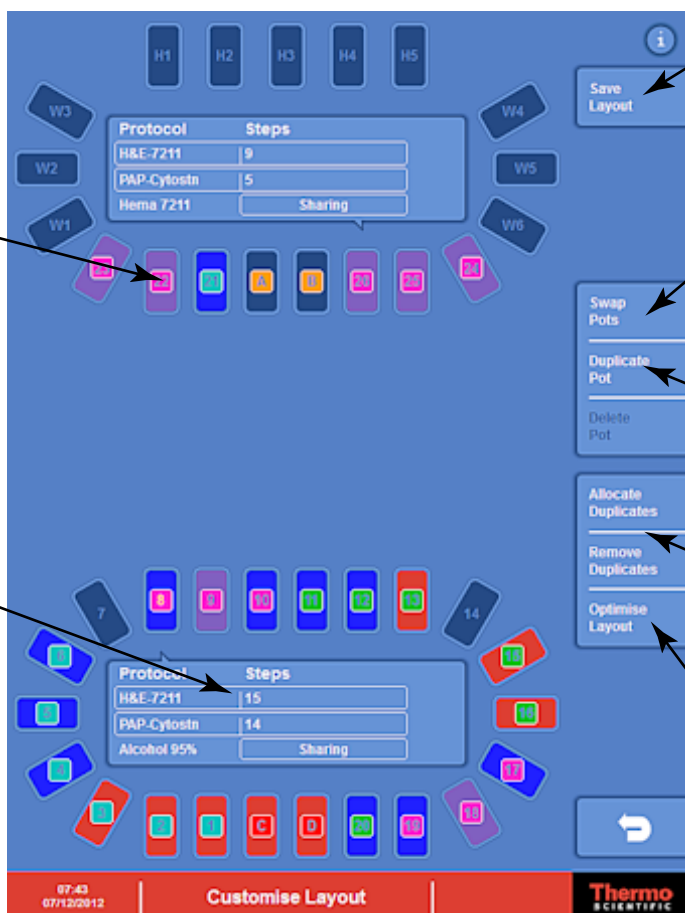
List of Protocol Sets. Yellow text indicates current selection.

Press Load/Unload for each door to change or select function. 'Customise Layout' only available after doors are assigned.

To add protocols to a set, press bottom screen then 'Add Protocol'.

'Move Up' / 'Move Down' to change priority of protocols within a set.

Select 'Customise Layout' to optimise reagent layout and assign duplicates.



The number in the pot identifies its position within the instrument.

Press the pot to see the protocols and steps that share this pot. Press 'Sharing' to change.

Press 'Save Layout' when optimisation completed.

'Swap Pots' to change reagent positions.  
1. Press the first reagent pot  
2. Press 'Swap Pots'  
3. Press the second reagent pot

'Duplicate Pot' to add extra pot of a reagent. Press pot first then press 'Duplicate Pot'.

Allocating duplicates automatically adds pots AND optimises the position of ALL reagents.

'Optimise Layout' to automatically rearrange reagent pots for optimal performance.

# Loading, Staining and Quality Control

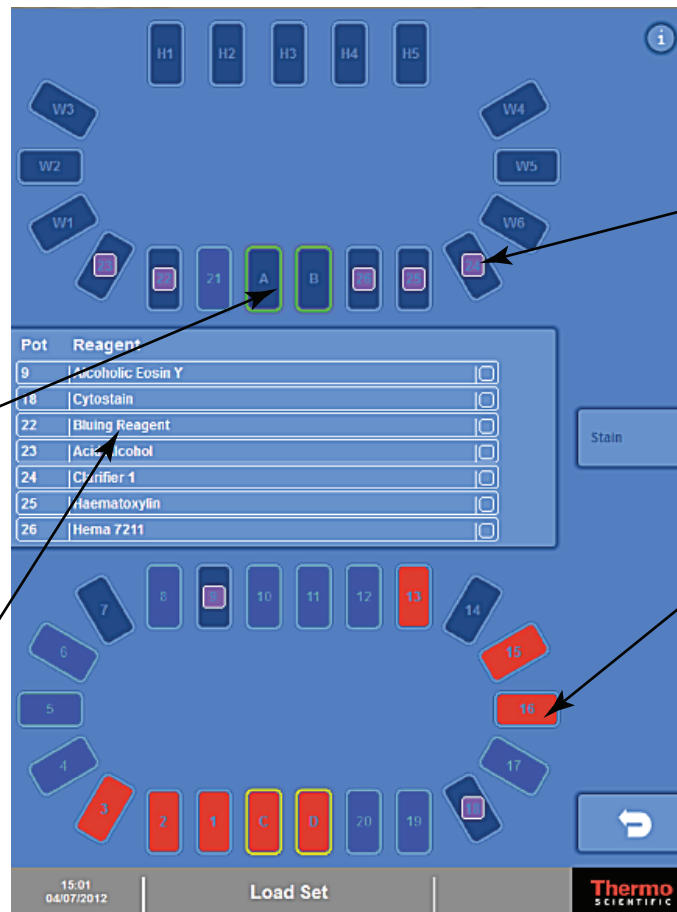
The layout shows the upper and lower levels, along with the pots and a list of the required reagents.

Green outline indicated when load door(s) available.

Colour coded reagents used in current set and their location.

Colour in pots indicates reagent type when loading. Reagent details shown in central panel.

Load appropriate reagent and press pot to confirm.  
**Note**  
*'Stain' is not available until all reagents are loaded.*



Arm position shown by a solid black line.

QC Info box displayed when pot is pressed. Press pot again to remove this box. Press 'Reset Count' to zero.

**Note**  
*Future uses cannot be zeroed.*

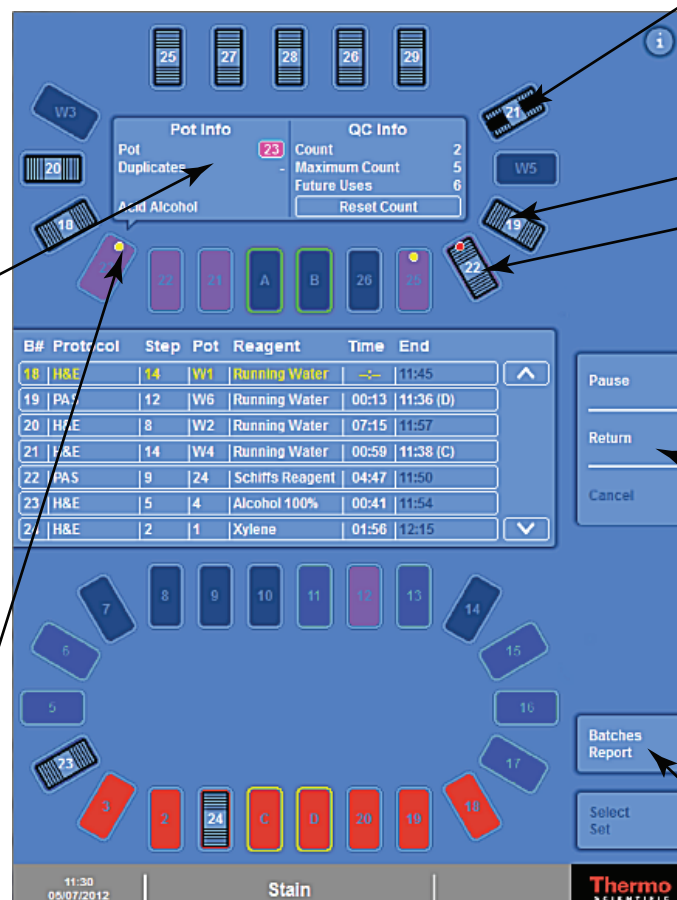
Amber QC alert displayed when reagent is within 3 uses of its limit. Red QC alert displayed when limit is reached or exceeded.

**Note**  
*Alerts only display if enabled in 'Options'.*

Current position of Batch / Basket

Press 'Pause' to stop staining. Press 'Pause' again to restart or close main access doors if open. Select 'Return' to bring highlighted batch back to load door. Press 'Cancel' to abort a batch and manually remove basket.  
**Note**  
*'Cancel' only available when main doors open.*

Insert USB to download reports.



# Icons and Colour Coding

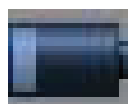
The instrument may play audible alarms or display warning messages during routine operation. Warning icons may appear on the main display, in the form of an exclamation mark near the heaters or water wash stations, or in the message icon area in the bottom of the information bar next to the Thermo Scientific logo.



Gemini AS is running on batteries. The instrument will continue to schedule batches already running, but no new baskets can be loaded until power is restored. Heater stations will not provide heat when running on batteries.



The reagent filter needs changing, is not fitted, or the extractor fan has stopped working.



The Low Battery Icon will flash in the tool bar next to the Thermo Scientific logo when the battery is running low. If the battery completely runs out the Gemini AS will shut down.



If the Gemini AS main doors are open during staining, the door open icon will be displayed in the tool bar next to the Thermo Scientific logo and an audible alarm is played.



If the Gemini AS sliding doors are open during staining, this icon will be displayed in the tool bar next to the Thermo Scientific logo and an audible alarm is played.



On a Heater Station, that the heater on that station is not operating and cannot be used by the instrument. If the heater becomes faulty whilst attempting to dry slides, the slide basket will be auto-returned to the door it was loaded into. Baskets can continue to be loaded and will make use of the other heater stations. Contact your local Service representative to investigate the fault.



On Water Wash Stations, that there is a blockage in the drain hose. the instrument will continue to schedule batches already running, but no new baskets can be loaded until the blockage is removed.

Within the Setup Protocols screen, each protocol is comprised of steps which are colour-coded for easy identification.

	Start Step (Orange)
	Pre-Stain Step (Cyan)
	Stain Step (Pink)
	Post-Stain Step (Green)
	Unload Step (Red)

Gemini AS comes with a list of pre-defined reagents; however, new reagents can be added as required from within the Options menu ('Add Reagents'). In addition to a name, the new reagent must be defined by type. Each reagent type has its own colour identifier.

	Clearant
	Alcohol
	Stain

# Work Flow Diagram

