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Quick Start Guide E4[™] XLS[™]+ Electronic Pipette

Controls and Indicators

- 1. Display
- 2. Battery Cover
- 3. Soft Keys
- 4. Joystick
- 5. Tip Ejector
- 6. Power Port



Powering Up and Charging

- 1. Slide open the main battery compartment cover (2).
- 2. Pull out the tab that isolates the auxiliary coin cell battery.
- 3. Place the battery as shown so that the metal contacts on the battery line up with the metal contacts on the pipette.
- Replace the cover. The pipette will turn on and remind you to set local time. Press the left button (soft key) to clear the notice.
- 5. When the pipette switches on, the start-up screen will appear briefly.

(Pressing one of the soft keys will always switch on the pipette.)

 Plug in the wall power supply to the power port (6) and charge the battery for at least 30 minutes before using.

For full charge, plug in for 90 minutes.







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Display

- 1. Current menu or mode
- 2. Menu level, current operation or page
- 3. Time
- 4. Battery charge indicator
- 5. System icon display
- 6. Mode carousel
- 7. Joystick navigation icon
- 8. Soft key functions



Basic Navigation

Navigation is done using the soft keys and the joystick control. The soft key and joystick functions change according to the menu or mode displayed.

Soft key functions are displayed above each key, and the available joystick controls are highlighted in the navigation icon.



Soft Key Functions

MAIN: Displays the Main Menu CONT: Continues current pipetting operation DONE: Exits Settings and Options screens RESET: Purge tip, reset operation to aspiration RETURN: Exits a Help screen PREV: Returns to previous mode

RIGHT SOFT KEY

OPTIONS: Available mode options CANCEL: Cancels, exits current action HELP: Operational information SELECT: Select a Preset or Protocol LOAD: Load a Protocol SAVE: Save a Preset or Protocol DELETE: Delete a Preset or Protocol

Joystick Controls

Press and click the center button – \bullet

- Aspirate and dispense
 - Access menu items
 - Edit settings and options
 - Choose and save selections



Move joystick left or right – ◄ or ►

- Navigate between menu items and pages
- Access Settings screens
- Make coarse setting value adjustments



Move joystick up or down – ▲ or ▼

- Aspirate and dispense
- Navigate between settings and options
- Make fine setting value adjustments

Application Guide What do you want to do?

Mode	Icon	Function
BASIC	A	Perform simple aspiration and dispense procedures.
MULTI-DISP	<i>!</i>	Dispense a solution in a sequence of multiple equal or un- equal aliquots. Options: timed dispensing, programmed list of fixed volumes, blowout control.
ADVANCED	4	Pipette with the following options: individually-settable as- piration and/or dispense speeds, mixing , pre-programmed sequence of volumes, pre-programmed list of fixed volumes, blowout control, cycle counter .
MANUAL	4	Pipette with full manual control of aspiration and dispens- ing. Useful for slow, careful start/stop pipetting and volume measurement of liquid samples.
REVERSE		Perform reverse pipetting. Useful for pipetting viscous liquids and for minimizing introduction of bubbles into the sample.
SETUP	*	Adjust instrument settings : sound level, screen brightness, display timeout, time, date, language, levels where each mode appears, and alarms when a user-defined number of pipetting cycles or time have elapsed.
DILUTE	-00	Aspirate multiple solutions and solvents into a pipette tip separated by a column of air. After dispense, the pipette can automatically mix them together.
TITRATE	<u> </u>	Dispense a titrant with full manual control and record the volume dispensed.
SERVICE		Provides important instrument information, including Last Service Date, Service Log, serial number, manufacturing date, model number. Information is protected for GLP compliance .
ADMIN	Ţ	Customize pipette configuration and control use of your pipette by hiding, locking, and unlocking pipetting modes, date, time, alarms, and all settings. Optional password protection . save backups of the entire configuration of the pipette after modifying settings in other modes.
POWER OFF		Turn the pipette off.
PURESPEED*	Ŷ	Procedures for protein/biomolecule purification using Rainin PureSpeed Tips™ . For more information, please refer to the PureSpeed manual.
TO LEVEL I & TO LEVEL II	2 5	Access two levels on the MAIN menu of the pipette on which Modes are displayed. Mode and Level configuration can be customized using SETUP and ADMIN.

*The PureSpeed protocol is only available on 200 μL , 1000 μL and 1200 μL E4XLS+ models.

Instrument Settings – SETUP Mode

MAIN

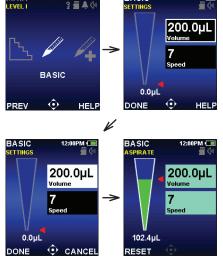


In **SETUP** mode, you can edit the pipette's settings (shown above). Use \blacktriangle and \triangledown to scroll through options, \bullet or \triangleright to select, \blacktriangleleft , \triangleright , \blacktriangle Or \blacktriangledown to change value, and \bullet or DONE to save.

Simple Operation

Volume Setting, Aspiration and Dispensing in BASIC Mode

In the **Main Menu**, move the joystick ◀ or ► to select **BASIC** and use ● or ▲ or ▼ to access **BASIC** Mode.



BASIC

12:00PM 🔲

Use \blacktriangleright to edit pipetting settings. Then use \blacktriangle or \checkmark to select volume or speed, and \bigcirc or \triangleright to edit the specific setting.

Use ◀ or ► for fast adjustment and ▲ or ▼ for slow adjustment (hold thumbstick in place for fast scroll.) Afterward, use **DONE** or ● to save settings. Move the joystick ◀ or **DONE** to exit **SETTINGS** screen. Mount a disposable tip and place tip into the sample.

Use ▲ or ● to aspirate sample, then use ▼ or ● to dispense. After dispense, use ▼ for manual blowout.

Selecting OPTIONS

In a mode with Options, press the **OPTIONS** soft key.



Use \blacktriangle or \blacktriangledown to select desired option, and \bullet or \triangleright to turn option ON/OFF.

ADMIN Mode Operation

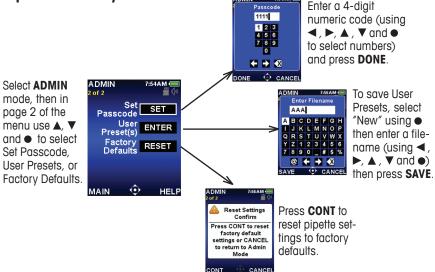
ADMIN Mode can be a helpful GLP compliance tool to enhance adherence to lab SOPs. This mode allows you to control access to pipette settings and to personalize pipette configuration.

- Mode Access sets individual modes as Locked (unalterable) or Hidden (inaccessible).
- Service-related settings such as Date/Time and Alarms can be individually controlled.
- The administrator can passcode-protect access to ADMIN mode, save the entire Settinas profile of the pipette as a **User Preset**, or restore the pipette to factory settinas.

Managing Access to Modes and Settings



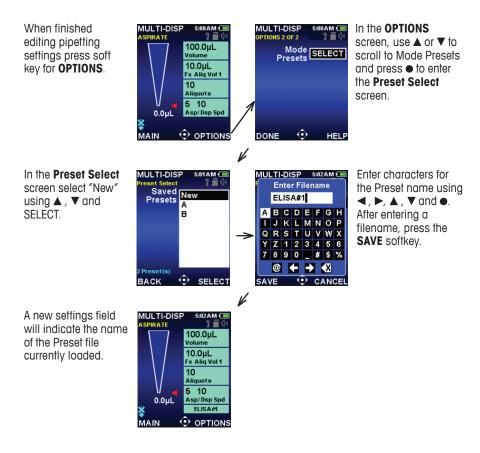
Setting the Passcode, Saving User Presets, and Resetting the **Pipette to Factory Defaults**



ONT

Setting Up Mode Presets

Mode Presets allow a user to save multiple personalized pipetting profiles for each mode and access them whenever necessary. Mode Presets allow rapid recall of favorite protocols.



This Quick Start Guide shows pipette controls, navigation and simple operation for firmware version 1.4. For more information see User Manual, Cat. No. 9920-396. Rainin, E4, XLS are trademarks of Rainin Instrument, LLC.

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