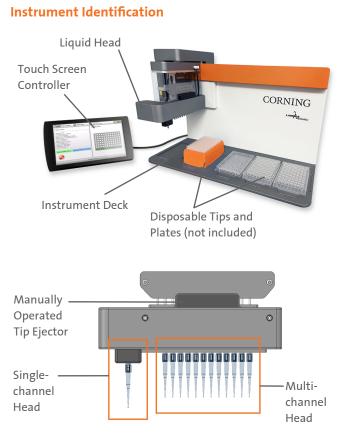
Corning[®] Lambda[™] EliteMax Semi-automated Benchtop Pipettor

Quick Start Guide

For the complete Corning Lambda EliteMax Benchtop Pipettor Instruction Manual (CLS-AN-671DOC), visit **www.corning.com/lifesciences**.



Unboxing

Tools needed: Phillips and flat head screwdrivers, 2 mm Allen wrench (provided), hammer, and needle-nose pliers.

- Pry open top of box with the flat head screwdriver.
- Remove the screws holding down the deck plate with the Phillips head screwdriver.
- Remove the unit from the box, lifting from the bottom of the deck plate, and place on the benchtop.
- Be sure to remove the holding bracket prior to use. The holding bracket is located next to the yellow warning label and can be removed using the Allen wrench provided.

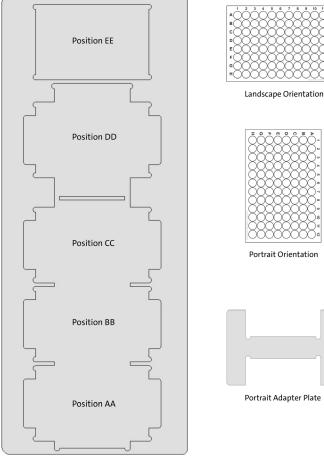
Installation



- 1. Connect the Touch Screen Controller cable into the rear panel of the Corning Lambda EliteMax Benchtop Pipettor.
- 2. Connect the round connector of the universal external power supply to the rear panel of the instrument. Push in firmly until you feel it click into position.
- 3. Connect the AC power cord to the universal external power supply and then to the AC wall power receptacle. The AC power receptacle should be able to supply approx. 300W and MUST be grounded to a true earth ground.
- 4. Power up the unit by rocking the Reset/Off switch located in the back of the Corning Lambda EliteMax Benchtop Pipettor to the Reset position. The instrument should boot up, and the home screen will appear in a few seconds.

CORNING

Deck Positions





Typical landscape layout orientation.

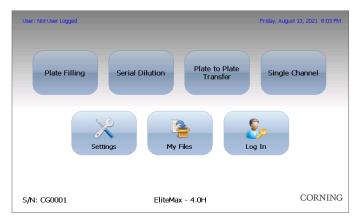
Typical portrait layout orientation. NOTE: Portrait adapter between plates.

Operating the Unit

Place the following in landscape position:

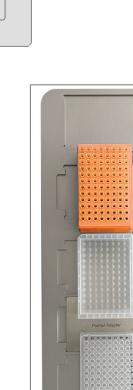
- Tip Rack in deck Position DD
- Reagent Reservoir in Position CC
- Plates in Position BB and Position AA

After powering up the Corning[®] Lambda[™] EliteMax Benchtop Pipettor, you will be presented with the main screen or Home Screen.



Simply touch the desired action to access the submenu.

- Plate Filling: Create, run, save, or edit a Plate Filling protocol.
- Serial Dilution: Create, run, save, or edit a Serial Dilution protocol.
- Plate to Plate Transfer: Create, run, save, or edit a Plate-to-Plate Transfer protocol.
- **Single Channel:** Create, run, save, or edit a Single-channel protocol (this is also known as cherry picking with the singlechannel head only).
- Settings: Change instrument settings, access calibration data and other configuration tools.
- My Files: View user-created protocols and data logged information. From here, you are also able to delete unwanted protocols.
- Log In: Login under a specific user profile. To access this menu, a user profile must be created first in Settings.



Creating User Protocols

By pressing the Plate Filling, Serial Dilution, or Plate-to-Plate Transfer button in the main menu, the following screen will appear:

General Settings Tab

Luquid Handling Speed: High Speed	Plate Filling:	Plate F	iling 96 Default	Select a Row to Pick Up Tips:
Tip Rack: Magazine 96 Landscape		(High Spe	ed 🔽	
Pick Up Tips From:		Idscape	-	
				•••••
		t Available Row	Always Ask	
	Gene	al Settings		Plate Filing Protocol

You can edit the following to customize your protocols:

- Protocol name
- Liquid handling speed
- Link file option: Allows you to select a protocol to be run after the current one is finished (link multiple protocols)
- Tip rack orientation
- Tip change frequency
- Which tips are used: The plate interface can be interacted with to determine which rows of tips are used (green = selected)

Protocol Settings Tab

Back More Options Plate Filling	Status: Plate Filing 96 Defauk.txt User: Security Disabled
Plate Information: Plate Name: [p1 land Transfer Volume (uL): 100 Volume in Well Before Any Transfer (uL): 0 Number of Mixes in Plate: 0 Mix Volume in Plate (uL): 0 Allow Aliquot Transfer 0	Select Rows to Be Filled: • • • • • • • • • • • • • • • • • • •
Reservoir 100ml (COLD) Reservoir Name: [Reservoir 100ml (COLD) Number of Mixes in Reservoir 100ml (COLD) Mix Volume in Reservoir 1(L1): 0 Reservoir Volume at Start: Image: Total Column at Start:	
General Settings	Plate Filling Protocol

Depending on the protocol, you can edit the following:

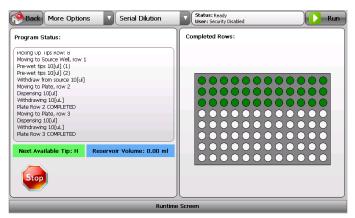
- Source plate location
- Source plate volume
- Destination plate location
- Destination plate volume
- Transfer volume
- Blowout volume
- Number of mixes in plate
- Source and destination
- Plates (serial dilution)
- Mix volume (serial dilution)

You can also interact with the plate diagram on the right and modify the rows filled on the destination plate. When you are finished customizing your protocol, return to the General Settings tab and select Run in the upper right corner.

NOTE: Be sure to confirm the tip rack and plates/reservoirs are in the correct position before pressing Run.

Running User Protocols

After selecting Run, the instrument will begin performing the selected protocol (Plate Filling, Serial Dilution, or Plate-to-Plate Transfer).



- During each protocol, the instrument will track the status of each operation performed. You can save your protocol by selecting More Options and then Save User Program.
- At any time the instrument is running, you can press the Stop button to pause the instrument. You will then have the option to either abort or continue the protocol.

Cherry Picking Protocols for Single channel

By pressing the Single channel button in the main menu, the following screen will appear:

General Settings Tab

Back More Options Single Ch. Head	Status: Single Head Sample.txt User: Security Disabled
Single Channel Head Program:	Single Head Sample Link File:
Magazine Tips:	Source Plates:
M1: DD Single Tip 96 200uL Landscape	S1: B8 Costar 9017 Landscape
M2: Single Head Side Disposal Tip	S2: none
M3: none	S3: none
Linked File Information:	Destination Plates:
File Name: pf1 Browse	D1: AA Costar 9017 Landscape
Link File Delay [Seconds]: 0 Home Machine When Linking Files:	D2: none
Stop and Ask Operator to Continue:	D3: none
General Settings	Single Channel Head Protocol

In the General Settings tab, you can edit the following:

- Magazine tips
- Source plates
- Destination plates

NOTE: You will need to assign at least one magazine tip, source plate, and destination plate to run a protocol. However, up to 3 different tip racks/plates can be assigned for more complex protocols.

Linked File Information

If you would like to save your protocol for future use, check the Link File box in the upper right corner. When selected, the Linked File Information box will appear in the bottom left.

Back More Options Single Ch. Head	Status: Single Head Sample.txt User: Security Disabled
Single Channel Head Program:	Single Head Sample Link File:
Magazine Tips:	Source Plates:
M1: DD Single Tip 96 200uL Landscape	S1: BB Costar 9017 Landscape
M2: Single Head Side Disposal Tip	S2: none
M3: none	S3: none
Linked File Information:	Destination Plates:
File Name: pf1 Browse	D1: AA Costar 9017 Landscape
Link File Delay [Seconds]: 0 Home Machine When Linking Files:	D2: none
Stop and Ask Operator to Continue:	D3: none
General Settings	Single Channel Head Protocol

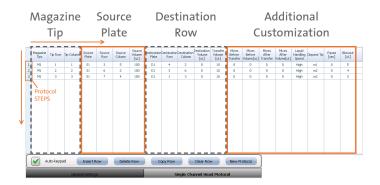
Here you can modify:

- File name: Specify the name of the protocol to be executed when the current protocol is completed.
- Link file delay: Specify a time delay value in seconds between completion of the current protocol and the start of the next linked protocol.
- Home machine when linking files: When this box is checked, the instrument will perform a full Home axis routine.
- Stop and ask operator to continue: When this box is checked, the instrument will pause between protocols until the operator instructs the instrument to continue.

NOTE: It is recommended that you create all of your protocols first, and then add the links between them.

Single-channel Protocol Settings Tab

When the Single-channel Head Protocol tab is selected, a table showing the steps of each protocol is presented. Protocols are executed from Top to Bottom, and each protocol is interpreted from Left to Right.

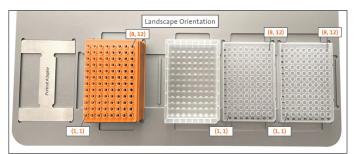


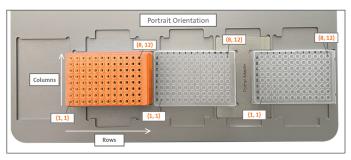
Under the table are settings to edit the table controls:

- Auto-keypad: An alphanumeric keypad will automatically pop up when double tapping a table cell.
- Insert row: Insert an empty or copied row into the table.
- Delete row: Delete a selected row from the table.
- Copy row: Copy a selected row from the table.
- Clear row: Clear the contents of a selected row.
- New protocol: This button will erase all fields in the table.

Grid Reference Numbers

The image below shows the grid reference numbers (x,x) for the Landscape and Portrait Orientations.





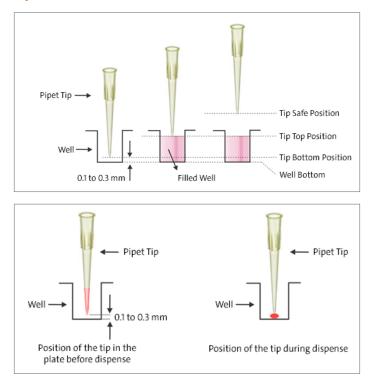
Once you have finished editing, press Run in the upper right corner and the instrument will begin performing the protocol.

Cleaning and Maintenance

The instrument requires minimal routine cleaning.

- The exterior of the instrument can be cleaned using a microfiber cloth.
- The deck plates can be cleaned with a microfiber cloth, soap, and water (soap and water or just isopropyl alcohol).

Tip Positions



Warranty

Corning Incorporated (Corning) warrants that this product will be free from defects in material and workmanship for a period of one (1) year from date of purchase. CORNING DISCLAIMS ALL OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

Warranty/Disclaimer: Unless otherwise specified, all products are for research use or general laboratory use only.* Not intended for use in diagnostic or therapeutic procedures. Not for use in humans. These products are not intended to mitigate the presence of microorganisms on surfaces or in the environment, where such organisms can be deleterious to humans or the environment. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications. *For a listing of US medical devices, regulatory classifications or specific information on claims, visit www.corning.com/resources.

Corning's products are not specifically designed and tested for diagnostic testing. Many Corning products, though not specific for diagnostic testing, can be used in the workflow and preparation of the test at the customers discretion. Customers may use these products to support their claims. We cannot make any claims or statements that our products are approved for diagnostic testing either directly or indirectly. The customer is responsible for any testing, validation, and/or regulatory submissions that may be required to support the safety and efficacy of their intended application.

CORNING

Corning Incorporated Life Sciences

www.corning.com/lifesciences

NORTH AMERICA t 800.492.1110 t 978.442.2200

ASIA/PACIFIC Australia/New Zealand t 61 427286832 Chinese Mainland t 86 21 3338 4338 India t 91 124 4604000 Japan t 81 3-3586 1996 Korea t 82 2-796-9500 Singapore t 65 6572-9740 Taiwan t 886 2-2716-0338 EUROPE CSEurope@corning.com France t 0800 916 882 Germany t 0800 101 1153 The Netherlands t 020 655 79 28 United Kingdom t 0800 376 8660 **All Other European Countries** t +31 (0) 206 59 60 51

LATIN AMERICA grupoLA@corning.com Brazil t 55 (11) 3089-7400 Mexico t (52-81) 8158-8400

For a listing of trademarks, visit www.corning.com/clstrademarks. All other trademarks are the property of their respective owners. © 2022 Corning Incorporated. All rights reserved. 7/22 CLS-AN-701DOC REV1