

Electronic models are supplied with an Ovation power supply unit for recharging the pipette's battery. Use of other power supply units can damage the pipette and invalidate the warranty.



## Using your Ovation pipette



### Ergonomic Handling

1. "Shake hands" position to pick up. Allow body to fill your palm.
2. Rotate adjustable hook to rest comfortably on your forefinger.
3. Keep hand posture relaxed.



### Installing the "Click" Tip

1. Insert nozzle into tip.
2. Lightly press down until a "click" is heard. This indicates the tip is securely sealed onto the nozzle.

## Charging your Ovation pipette

Recharge battery approximately 90 minutes prior to use.  
Go to [www.vistalab.com](http://www.vistalab.com) to activate warranty.



**WARNING!** Only connect power supply to a compatible power source. Use of an incompatible power source can cause shock and fire hazard. Use only the power supply provided by Vistalab Technologies. Use of other power supplies can damage the pipette and invalidate warranty. Unplug power supply before cleaning exterior.

## Ovation pipette display

Displays volume and values during set-up, e.g. # of mix cycles, # of multiple dispenses.



Symbol indicates the next action to be performed: aspirate (up) and dispense (down).

Displayed when cal factor has been changed from factor setting of 1.000.

Icon indicates the remaining battery capacity.

Displays liquid handling function, setting, or prompt that is active.

## Keypad Select



1. Press center button to advance to the desired program.
2. Use the up or down arrows to change settings and prompts within a program, such as volume, speed, and count.
3. When you return to the desired program, depress plunger and begin.



## Programs

Display	Function Description
P1, P2, P3	<b>Custom volume pre-sets</b> - Routine aspirating and dispensing of pre-set volumes (3 available).
MULTI	<b>Multi-dispense</b> - Repetitive dispensing of equal, set volumes for a set number of counts. Pipette aspirates enough liquids for the set number of dispenses.
SDILU	<b>Serial Dilute</b> - A sequence of dilutions. Sample is aspirated and then dispensed into a diluent and mixed. Diluted solution is automatically aspirated for addition into next diluent.
MIX	<b>Mix</b> - Repetitive cycles of aspirating and dispensing.
REVER	<b>Reverse Pipetting</b> - Set volume is aspirated with slight overage and the exact volume is dispensed, leaving some liquid in the tip to be purged.

For more details and expanded setup examples see

Operator's Guide at [www.vistalab.com/support/electronic-multichannel-8-and-12-channel](http://www.vistalab.com/support/electronic-multichannel-8-and-12-channel)

## Settings and Prompts

Display	Setting Description
FILL	Volume to be dispensed.
SPEED	Speed at which the pipette aspirates, dispenses, and mixes. 5 settings are available (1 is slowest, 5 is fastest).
DIS	Shows the number of dispenses remaining when using MULTI.
DISP	Volume of individual dispenses when using MULTI.
MIX	Volume of dilution to be mixed when using SDILU.
VOL	Volume of sample to be mixed when using MIX.
COUNT	Number of dispenses to be made when using MULTI, or the number of mix cycles (1-9) when using SDILU or MIX.
PURGE	Ends any function and expels liquid remaining in the tip. Press  during a function and PURGE appears. Press trigger to expel liquid or  again to cancel PURGE.
ZERO	Indicates the pipette pistons are at the overflow or lowest position at the end of MIX. Pressing the pipette trigger will return pistons to starting position.

## Taking Care of Your Ovation Pipette

The Ovation pipette requires minimal routine maintenance. Always store it in its "standing" position when not in use. Clean outer surfaces as needed with a soft cloth dampened with warm water. To decontaminate outer surfaces, wipe with 70% ethanol or isopropanol solution or use a 10% bleach solution followed by water. Remove ejector sleeve and wipe outside of nozzle and inside of ejector sleeve with 70% alcohol to remove any accumulated deposits. **ONLY WIPE THE LCD SCREEN DISPLAY WITH WATER.**

- Only guaranteed to work with VistaLab Tips.
- 2 Year Limited Warranty.
- VistaLab Technologies offers comprehensive calibration and repair programs recommended every 6-12 months. See [www.vistalab.com/services](http://www.vistalab.com/services) for more information or to place an order.
- For more information on troubleshooting and maintenance visit [www.vistalab.com/support](http://www.vistalab.com/support).

For additional assistance with warranty repairs or other technical assistance, contact [techservice@celltreat.com](mailto:techservice@celltreat.com).

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