

Programming and Functionality

SofTouch™ Navigation and Programming



Pipetting Mode (P):

Pipetting is the SofTouch default operating mode. The Adjustment buttons can be used for quick changes to the desired dispense volume. The mixing option can be selected by pressing the Mixing Button.

- Step 1: Set the desired volume
- Step 2: Press the Start Button to aspirate sample into the tip
- Step 3: Press the Start button to dispense sample followed by a blow-out

Reverse Pipetting Mode (rP):

Reverse Pipetting minimizes the effects of surface tension and vapor pressure for highly viscous and volatile samples. For these sample types Reverse Pipetting can improve accuracy and precision.

- Step 1: Set the desired volume
- Step 2: Press the Start Button to aspirate more than the required sample volume
- Step 3: Press the Start Button to dispense the required sample
- Step 4: Press the Start Button twice to discard the excess sample or hold the Start Button for one second to skip the discard step

Programming and Functionality

Repeat Dispensing Mode (d):

Repeat Dispensing is used to speed up repetitive dispenses of the same volume. The pipette aspirates sample once and performs several dispenses.

- Step 1: Set the desired volume and number of dispenses
- Step 2: Press the Start Button to aspirate enough sample for all dispenses
- Step 3: Press the Start Button to prepare the pipette
- Step 4: Press the Start Button to dispense the first aliquot
- Step 5: Repeat step 4 for the remaining dispenses
- Step 6: Press the Start Button to blow out the remaining sample

Diluting Mode (dd):

Diluting mode aspirates two different samples, separated by an air gap, into the same pipette tip. This minimizes contamination of the second sample and increases throughput. The mixing option can be selected by pressing the Mixing Button.

- Step 1: Set the desired volume for sample one and sample two
- Step 2: Press the Start Button to aspirate the first sample
- Step 3: Remove the tip from the sample and press the Start Button to draw an air gap
- Step 4: Press the Start Button to aspirate the second sample
- Step 5: Finally press the Start Button to dispense the samples and the air gap

Sequence Dispense Mode (Sd):

Sequence Dispensing is useful for repetitive dispensing applications that involve multiple different dispense volumes.

- Step 1: Set the desired series of volumes to dispense
- Step 2: Press the Start Button to aspirate enough sample for all dispenses
- Step 3: Press the Start Button to prepare the pipette
- Step 4: Press the Start Button to dispense the first aliquot
- Step 5: Repeat step 4 for the remaining dispenses
- Step 6: Press the Start Button to blow out the remaining sample

Mixing Mode (*):

Mixing mode is available when using Pipetting and Diluting Modes. This allows for the sample to be completely mixed following an addition or dilution.

- Step 1: Use the Mode Button to select either Pipetting or Diluting
- Step 2: Press the Mixing Button. The screen should display P* or dd*
- Step 3: Perform the pipetting or diluting operation as described previously
- Step 4: To mix press and hold the Start Button with the tip in the sample
- Step 5: To blow out remaining sample in the tip press the Start Button twice.

SofTouch™ Electronic Pipettes

- **The Total Ergonomic Solution**
- **Easy-to-Operate and Fast**
- **Guaranteed Accuracy and Precision**

SofTouch electronic pipettes provide the best in user-friendliness, safety, and efficiency. Nearly 100% of the pipetting forces on the thumb are eliminated. SofTouch pipettes automatically aspirate, dispense, and perform the blowout step based on the selected program.

Take the effort out of pipetting and choose from four single channel adjustable volume SofTouch pipettes covering 0.2 μ L to 5 mL and eight multi-channel adjustable volume pipettes covering 0.2 μ L to 1.2 mL. SofTouch multi-channel pipettes are available with eight or twelve channels.

SofTouch air-displacement pipettes are simple to operate with an intuitive interface. One-handed operation, a motorized piston, and a choice of speeds make pipetting extremely fast for high-throughput applications. Cost of operation is low as the DC-motor controls aspiration preventing liquid from reaching and damaging the piston.

The combination of the self-calibrating, microprocessor and DC-motor-based system increases accuracy and precision because pipetting is independent of user variation. Accuracy and precision is guaranteed when used with Hamilton Universal AdvanTip™ Precision Pipette Tips.



Electronic Pipettes

SofTouch™ Single Channel Electronic Pipettes, 0.2 µL - 5 mL

Part No.	Volume	Increments (µL)	Color	At 10% of Pipette Volume		At 100% of Pipette Volume	
				Accuracy within ±%	Precision within +%	Accuracy within ±%	Precision within +%
8707-01XX	0.2-10 µL	0.1	Purple	2.50	1.50	0.90	0.50
8707-02XX	5-100 µL	1.0	Violet	2.00	1.00	0.40	0.15
8707-03XX	50-1000 µL	5.0	Sky Blue	1.50	1.50	0.40	0.15
8707-04XX	100-5000 µL	50.0	Graphite	0.80	0.30	0.50	0.15

SofTouch Multi-Channel Electronic Pipettes, 8-Channel, 0.2 µL - 1200 µL

Part No.	Volume	Increments (µL)	Color	At 10% of Pipette Volume		At 100% of Pipette Volume	
				Accuracy within ±%	Precision within +%	Accuracy within ±%	Precision within +%
8707-05XX	0.2-10 µL	0.1	Purple	4.00	4.00	0.90	0.50
8707-06XX	5-100 µL	1.0	Violet	2.50	1.50	0.50	0.20
8707-07XX	25-250 µL	5.0	Burnt Orange	1.50	1.00	0.40	0.10
8707-08XX	50-1200 µL	10.0	Teal	4.00	0.80	0.50	0.15

SofTouch Multi-Channel Electronic Pipettes, 12-Channel, 0.2 µL - 1200 µL

Part No.	Volume	Increments (µL)	Color	At 10% of Pipette Volume		At 100% of Pipette Volume	
				Accuracy within ±%	Precision within +%	Accuracy within ±%	Precision within +%
8707-09XX	0.2-10 µL	0.1	Purple	4.00	4.00	0.90	0.50
8707-10XX	5-100 µL	1.0	Violet	2.50	1.50	0.50	0.20
8707-11XX	25-250 µL	5.0	Burnt Orange	1.50	1.00	0.40	0.10
8707-12XX	50-1200 µL	10.0	Teal	4.00	0.80	0.80	0.15

Replace 'XX' for regional adapter: US = U.S.A., EU = Europe, UK = United Kingdom, and JP = Japan.

Direct-connect AC/DC recharging adapter and environmentally friendly NiMH rechargeable battery included with all SofTouch Pipettes.

Optional Pipette Safe™ Tip Cone Filters to prevent sample cross-contamination are available for all SofTouch Pipettes.

Selecting the Right Hamilton AdvanTip™ Pipette Tip

Pipette Part No.	Pipette Volume	Hamilton Tip	Page No.
8707-01XX	0.2-10 µL	10 µL	21and22
8707-02XX	5-100 µL	100 and 200 µL	21and22
8707-03XX	50-1000 µL	1000 µL	21and22
8707-04XX	100-5000 µL	5000 µL	21and22
8707-05XX	0.2-10 µL x 8	10 µL	21and22

Pipette Part No.	Pipette Volume	Hamilton Tip	Page No.
8707-07XX	25-250 µL x 8	300 µL	21and22
8707-08XX	50-1200 µL x 8	1200 µL	21and22
8707-09XX	0.2-10 µL x 12	10 µL	21and22
8707-10XX	5-100 µL x 12	100 and 200 µL	21and22
8707-11XX	25-250 µL x 12	300 µL	21and22
8707-12XX	50-1200 µL x 12	1200 µL	21and22



SofTouch 5-Position Carousel Pipette Stand

Safe, convenient storage solution for up to five SofTouch pipettes.

Part No.	Description
8706-01	Holds Five SofTouch Pipettes

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18