



## LipSync Mouse Command List

Command	Success Response	Failure Response	Description
<b>SETTINGS</b>	SUCCESS:SETTINGS	FAIL:SETTINGS	Enter Settings mode
<b>EXIT</b>	SUCCESS:EXIT	FAIL:SETTINGS	Exit Settings mode
<b>MN,0:0</b>	SUCCESS:MN,0:1	FAIL:SETTINGS	Get Model number (1=Mouse)
<b>VN,0:0</b>	SUCCESS:VN,0:V{N.NN}	FAIL:SETTINGS	Get version number (V{N.NN})
<b>SS,0:0</b>	SUCCESS:SS,0:{Level}	FAIL:SETTINGS	Get joystick sensitivity value (Level)
<b>SS,1:1</b>	SUCCESS:SS,1:{Level}	FAIL:SETTINGS	Decrease the speed using command (Level)
	MANUAL:SS,1:{Level}		Decrease the speed using push button (Level)
<b>SS,1:2</b>	SUCCESS:SS,1:{Level}	FAIL:SETTINGS	Increase the speed using command (Level)
	MANUAL:SS,1:{Level}		Increase the speed using push button (Level)
<b>PT,0:0</b>	SUCCESS:PT,0:{Threshold 1% to 50%}:{Nominal Pressure}	FAIL:SETTINGS	Get pressure threshold (threshold 1% to 50%) (Nominal Pressure V)
<b>PT,1:{threshold 1% to 50%}</b>	SUCCESS:PT,1:{Threshold 1% to 50%}:{Nominal Pressure}	FAIL:SETTINGS	Set pressure threshold (threshold 1% to 50%) (Nominal Pressure V)
<b>DM,0:0</b>	SUCCESS:DM,0:{Debug Mode}	FAIL:SETTINGS	Get debug mode value ( 0=debug mode disabled,1=debug mode enabled)
<b>DM,1:0</b>	SUCCESS:DM,1:0	FAIL:SETTINGS	Set debug mode value to 0 (Disabled)
<b>DM,1:1</b>	SUCCESS:DM,1:1	FAIL:SETTINGS	Set debug mode value to 1 (Enabled)
	LOG:1:{xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral}		Log initialization values once if debug mode is enabled
	LOG:2:{xHighMax,xLowMax,yHighMax,yLowMax}		Log calibration values once if debug mode is enabled
	LOG:3:{xHigh,xLow,yHigh,yLow}		Log FSR values if debug mode is enabled until debug mode is disabled
<b>RM,0:0</b>	SUCCESS:RM,0:{Raw Mode}	FAIL:SETTINGS	Get Raw mode value ( 0=raw mode disabled,1=raw mode enabled)
<b>RM,1:0</b>	SUCCESS:RM,1:0	FAIL:SETTINGS	Set Raw mode value to 0 (Disabled)
<b>RM,1:1</b>	SUCCESS:RM,1:1	FAIL:SETTINGS	Set Raw mode value to 1 (Enabled)
	RAW:1:{x,y,action}:{xHigh,xLow,yHigh,yLow}	FAIL:SETTINGS	Log raw values if raw mode is enabled until raw mode is disabled
<b>IN,0:0</b>	SUCCESS:IN,0:{xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral}	FAIL:SETTINGS	Get joystick initialization values (xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral)
<b>IN,1:1</b>	SUCCESS:IN,1:{xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral}	FAIL:SETTINGS	Perform joystick initialization using command



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			(xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral)
	MANUAL:IN,1:{xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral}		Perform joystick initialization using push button or sip/puff (xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral)
<b>CA,0:0</b>	SUCCESS:CA,0:{xHighMax,xLowMax,yHighMax,yLowMax}	FAIL:SETTINGS	Get joystick calibration values (xHighMax,xLowMax,yHighMax,yLowMax)
<b>CA,1:1</b>	SUCCESS:CA,1:0	FAIL:SETTINGS	Perform joystick calibration using command
	SUCCESS:CA,1:1	FAIL:SETTINGS	Perform joystick calibration using command (Step 1)
	SUCCESS:CA,1:2	FAIL:SETTINGS	Perform joystick calibration using command (Step 2)
	SUCCESS:CA,1:3	FAIL:SETTINGS	Perform joystick calibration using command (Step 3)
	SUCCESS:CA,1:4	FAIL:SETTINGS	Perform joystick calibration using command (Step 4)
	SUCCESS:CA,1:5:{xHighMax,xLowMax,yHighMax,yLowMax}	FAIL:SETTINGS	Perform joystick calibration using command (Step 5) (xHighMax,xLowMax,yHighMax,yLowMax)
	MANUAL:CA,1:0		Perform joystick calibration using push button
	MANUAL:CA,1:1		Perform joystick calibration using push button (Step 1)
	MANUAL:CA,1:2		Perform joystick calibration using push button (Step 2)
	MANUAL:CA,1:3		Perform joystick calibration using push button (Step 3)
	MANUAL:CA,1:4		Perform joystick calibration using push button (Step 4)
	MANUAL:CA,1:5:{xHighMax,xLowMax,yHighMax,yLowMax}		Perform joystick calibration using push button (Step 5) (xHighMax,xLowMax,yHighMax,yLowMax)
<b>CT,0:0</b>	SUCCESS:CT,0:{ changePercent, changeTolerance,xHighMax,xLowMax,yHighMax,yLowMax}	FAIL:SETTINGS	Get change tolerance value based on max value of FSRs and change tolerance percentage
<b>MP,0:0</b>	SUCCESS:MP,0:{NNNNNN}	FAIL:SETTINGS	Get Button mapping ( Example: SUCCESS:MP,0:012345)
<b>MP,1:{NNN NNN}</b>	SUCCESS:MP,1:{NNNNNN}	FAIL:SETTINGS	Set Button mapping ( Example: MP,1:012345)
<b>FR,0:0</b>	SUCCESS:FR,0:0	FAIL:SETTINGS	Perform factory reset



## Makers Making Change LipSync Mouse Command List

### Action Mapping Options

Action Number	Action
0	Left Click
1	Right Click
2	Drag
3	Scroll
4	Middle Click
5	Initialization
6	Calibration

### Default Action Mapping

Physical Action	LipSync Mouse Action
Short Puff	0 : Left Click
Short Sip	1 : Right Click
Long Puff	2: Drag
Long Sip	3 : Scroll
Very Long Puff	5: Initialization
Very Long Sip	4: Middle Click