



## 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,xHighChangeTolerance,xLowChangeTolerance,yHighChangeTolerance,yLowChangeTolerance} | FAIL:SETTINGS | Get change tolerance values 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:{NNNNNN}</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      |