

Makers Making Change LipSync Mouse Command List

LipSync Mouse Command List

Command	Success Response	Failure Response	Description
SETTINGS	SUCCESS,0:SETTINGS	FAIL,{N}: Command	Enter Settings mode
EXIT	SUCCESS,0:EXIT	FAIL,{N}: Command	Exit Settings mode
MN,0:0	SUCCESS,0:MN,0:1	FAIL,{N}:Command	Get Model number (1=Mouse)
VN,0:0	SUCCESS,0:VN,0:V{N.NN}	FAIL,{N}:Command	Get version number (V{N.NN})
SS,0:0	SUCCESS,0:SS,0:{Level}	FAIL,{N}:Command	Get the mouse cursor speed value (Level)
SS,1:{Speed Level:0-10}	SUCCESS,0:SS,1:{Level}	FAIL,{N}:Command	Set the mouse cursor speed value (Level)
	MANUAL,0:SS,1:{Level}		Set the mouse cursor speed value (Level)
PT,0:0	SUCCESS,0:PT,0:{Threshold 5% to 50%}:{Nominal Pressure V*100}	FAIL,{N}:Command	Get pressure threshold (threshold 5% to 50%) (Nominal Pressure V*100)
PT,1:{thresho Id 5% to 50%}	SUCCESS,0:PT,1:{Threshold 5% to 50%}:{ Nominal Pressure V*100}	FAIL,{N}:Command	Set pressure threshold (threshold 5% to 50%) (Nominal Pressure V*100)
PV,0:0	SUCCESS,0:PV,0:{Nominal Pressure V*100}	FAIL,{N}:Command	Get pressure value (Nominal Pressure V*100)
RA,0:0	SUCCESS,0:RA,0:{Rotation Angle}	FAIL,{N}:Command	Get rotation angle (deg)
RA,1:{Angle: 0-359}	SUCCESS,0:RA,1:{Rotation Angle}	FAIL,{N}:Command	Set rotation angle (0,90,180,270 deg)
DM,0:0	SUCCESS,0:DM,0:{Debug Mode}	FAIL,{N}:Command	Get debug mode value (0=debug mode disabled,1=debug mode enabled)
DM,1:0	SUCCESS,0:DM,1:0	FAIL,{N}:Command	Set debug mode value to 0 (Disabled)
DM,1:1	SUCCESS,0:DM,1:1	FAIL,{N}:Command	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,yLowMa x}		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
RM,0:0	SUCCESS,0:RM,0:{Raw Mode}	FAIL,{N}:Command	Get Raw mode value (0=raw mode disabled,1=raw mode enabled)
RM,1:0	SUCCESS,0:RM,1:0	FAIL,{N}:Command	Set Raw mode value to 0 (Disabled)
RM,1:1	SUCCESS,0:RM,1:1	FAIL,{N}:Command	Set Raw mode value to 1 (Enabled)
	RAW,1:{x,y,action,xHigh,xLow,yHigh,yLow}	FAIL,{N}:Command	Log raw values if raw mode is enabled until raw mode is disabled
IN,0:0	SUCCESS,0:IN,0:{xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral}	FAIL,{N}:Command	Get joystick initialization values (xHighNeutral,xLowNeutral,yHigh Neutral,yLowNeutral)



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IN,1:1	SUCCESS,0:IN,1:{xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral}	FAIL,{N}:Command	Perform joystick initialization using command (xHighNeutral,xLowNeutral,yHigh Neutral,yLowNeutral)
	MANUAL,0:IN,1:{xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral}		Perform joystick initialization using push button or sip/puff (xHighNeutral, xLowNeutral,yHighNeutral,yLow Neutral)
JV,0:0	SUCCESS,0:JV,0:{xHigh,xLow,yHigh,yLow}	FAIL,{N}:Command	Get joystick FSR values: {xHigh,xLow,yHigh,yLow}
CA,0:0	SUCCESS,0:CA,0:{xHighMax,xLowMax,yHighMax,yLowMax}	FAIL,{N}:Command	Get joystick calibration values (xHighMax,xLowMax,yHighMax,y LowMax)
CA,1:1	SUCCESS,0:CA,1:0	FAIL,{N}:Command	Perform joystick calibration using command
	SUCCESS,0:CA,1:1	FAIL,{N}:Command	Perform joystick calibration using command (Step 1)
	SUCCESS,0:CA,1:2	FAIL,{N}:Command	Perform joystick calibration using command (Step 2)
	SUCCESS,0:CA,1:3	FAIL,{N}:Command	Perform joystick calibration using command (Step 3)
	SUCCESS,0:CA,1:4	FAIL,{N}:Command	Perform joystick calibration using command (Step 4)
	SUCCESS,0:CA,1:5:{xHighMax,xLowMax,yHigh Max,yLowMax}	FAIL,{N}:Command	Perform joystick calibration using command (Step 5) (xHighMax,xLowMax,yHighMax,y LowMax)
	MANUAL,0:CA,1:0		Perform joystick calibration using push button
	MANUAL,0:CA,1:1		Perform joystick calibration using push button (Step 1)
	MANUAL,0:CA,1:2		Perform joystick calibration using push button (Step 2)
	MANUAL,0:CA,1:3		Perform joystick calibration using push button (Step 3)
	MANUAL,0:CA,1:4		Perform joystick calibration using push button (Step 4)
	MANUAL,0:CA,1:5:{xHighMax,xLowMax,yHigh Max,yLowMax}		Perform joystick calibration using push button (Step 5) (xHighMax,xLowMax,yHighMax,y LowMax)
СТ,0:0	SUCCESS,0:CT,0:{changeTolerance}	FAIL,{N}:Command	Get change tolerance value
CT,1: {Change Tolerance: 0- 30}	SUCCESS,0:CT,1:{changeTolerance}	FAIL,{N}:Command	Set change tolerance value
MP,0:0	SUCCESS,0:MP,0:{NNNNNN}	FAIL,{N}:Command	Get Button mapping (Example: SUCCESS,0:MP,0:123465)
MP,1: {NNNNNN}	SUCCESS,0:MP,1:{NNNNNN}	FAIL,{N}:Command	Set Button mapping (Example: MP,1:123465)
FR,1:{Rest Type: 0-1}	SUCCESS,0:FR,1:{Reset Type: 0-1}	FAIL,{N}:Command	Perform factory reset (0 = Hard Rest , 1 = Soft Reset)



Response Code

Response Status	Response Code	Description
	-	The common difference of the monte was a
SUCCESS	0	The command has successfully performed.
FAIL	0	The serial API mode is not enabled. Please enter the serial API mode.
FAIL	1	The requested command does not exist.
FAIL	2	The requested command exists, but the entered parameter is incorrect.

Input Actions

Input Action	Description	
Short Puff	< 3 seconds	
Short Sip	< 3 seconds	
Long Puff	3-5 seconds	
Long Sip	3-5 seconds	
Very Long Puff	> 5 seconds	
Very Long Sip	> 5 seconds	

Output Actions Options

Action Number	Output Action	Description
0	(No action)	No action
1	Left Click	Presses and immediately releases a left click.
2	Right Click	Presses and immediately releases a right click.
3	Drag Mode	Initiates drag mode. Left click is pressed and held down. Cancelled with
		short puff or short sip.
4	Scroll Mode	Initiates Scroll mode. Vertical motion of joystick generates mouse scroll
		wheel movements. Cancelled with short puff or short sip.
5	Middle Click	Presses and immediately releases a middle click.
6	Center Reset	Initiates center reset routine to set joystick center position.
7	Calibration	Initiates joystick calibration routine to set joystick limits and reset
		joystick center.





Action Mapping

Input Action	LipSync Mouse Action	
Short Puff	1 : Left Click	
Short Sip	2 : Right Click	
Long Puff	3: Drag Mode	
Long Sip	4 : Scroll Mode	
Very Long Puff	6: Center Reset	
Very Long Sip	5: Middle Click	

Example

INPUT	RESPONSE	ACTION
SETTINGS	SUCCESS,0:SETTINGS	LipSync Ready for API Command
VN,0:0	SUCCESS,0:VN,0:30	LipSync return firmware version
		3.0

INPUT	RESPONSE	ACTION
SETTINGS	SUCCESS,0:SETTINGS	LipSync Ready for API Command
PT,0:0	SUCCESS,0:PT,0:10	LipSync return current pressure threshold of 10%
PT,1:20	FAIL,2:PT,1:20	(Attempt to set pressure threshold failed – need to resend SETTINGS for each command)
SETTINGS	SUCCESS,0:SETTINGS	LipSync Ready for API Command
PT,1:20	SUCCESS,0:PT,1:20:50	LipSync set new pressure threshold of 20% and returned current nominal pressure of