

Makers Making Change LipSync Gaming Command List

LipSync Gaming 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,0:2	FAIL,{N}:Command	Get Model number (2=Gaming)
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:{Joystick Sensitivity Level}	FAIL,{N}:Command	Get the joystick sensitivity value (Level)
SS,1:{Joystick Sensitivity Level:0-10}	SUCCESS,0:SS,1:{Joystick Sensitivity Level}	FAIL,{N}:Command	Set the joystick sensitivity value (Level)
	MANUAL,0:SS,1:{Joystick Sensitivity Level}		Set the joystick sensitivity value (Level)
PT,0:0	SUCCESS,0:PT,0:{Threshold 5% to 50%}:{Nominal Pressure V*100}	FAIL,{N}:Command	Get puff pressure threshold (threshold 5% to 50%) (Nominal Pressure)
PT,1:{thresho ld 10% to 50%}	SUCCESS,0:PT,1:{Threshold 5% to 50%}:{ Nominal Pressure V*100}	FAIL,{N}:Command	Set puff pressure threshold (threshold 5% to 50%) (Nominal Pressure)
ST,0:0	SUCCESS,0:PT,0:{Threshold 5% to 50%}:{Nominal Pressure V*100}	FAIL,{N}:Command	Get sip pressure threshold (threshold 5% to 50%) (Nominal Pressure)
ST,1:{threshol d 5% to 50%}	SUCCESS,0:PT,1:{Threshold 5% to 50%}:{ Nominal Pressure V*100}	FAIL,{N}:Command	Set sip pressure threshold (threshold 5% to 50%) (Nominal Pressure)
PV,0:0	SUCCESS,0:PV,0:{Nominal Pressure}	FAIL,{N}:Command	Get pressure value (Nominal Pressure)
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:{0,0,0,xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral}		Log initialization values once if debug mode is enabled
	LOG,2:{0,0,0,xHighMax,xLowMax,yHighMax,yLowMax}		Log calibration values once if debug mode is enabled
	LOG,3:{x,y,action,xHigh,xLow,yHigh,yLow}		Log cursor and FSR values if debug mode is enabled until debug mode is disabled
IN,0:0	SUCCESS,0:IN,0:{xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral}	FAIL,{N}:Command	Get joystick initialization values (xHighNeutral,xLowNeutral,yHighN eutral,yLowNeutral)
IN,1:1	SUCCESS,0:IN,1:{xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral}	FAIL,{N}:Command	Perform joystick initialization using command



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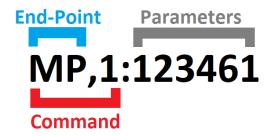
	Lipsync Gaming Command		
			(xHighNeutral,xLowNeutral,yHighN eutral,yLowNeutral)
	MANUAL,0:IN,1:{xHighNeutral,xLowNeutral,yHighNeutral,yLowNeutral}		Perform joystick initialization using push button or sip/puff (xHighNeutral, xLowNeutral,yHighNeutral,yLowNeutral)
JV,0:0	SUCCESS,0:JV,0:{xHigh,xLow,yHigh,yLow}	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,yLo wMax)
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,yLowMax)
	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,yLowMax)
MP,0:0	SUCCESS,0:MP,0:{NNNNNN}	FAIL,{N}:Command	Get Button mapping (Example: SUCCESS,0:MP,0:125670)
MP,1: {NNNNNN}	SUCCESS,0:MP,1:{NNNNNN}	FAIL,{N}:Command	Set Button mapping (Example: MP,1:125670)
DZ,0:0	SUCCESS,0:DZ,0:{Deadzone Value}	FAIL,{N}:Command	Get the deadzone value
DZ,1:{ Deadzone :30-250}	SUCCESS,0:DZ,1:{ Deadzone Value}	FAIL,{N}:Command	Set the deadzone value (Example: SUCCESS,0:DZ,1:30)
BM,0:0	SUCCESS,0:BM,0:{Button Mode Value}	FAIL,{N}:Command	Get the button mode value (1 = Digital Mode , 2 = Analog Mode)



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BM,1:{ Button Mode Value:1-2}	SUCCESS,0:BM,1:{Button Mode Value}	FAIL,{N}:Command	Set the button mode value (1 = Digital Mode , 2 = Analog Mode)
FR,1:{Rest Type: 0-1}	SUCCESS,0:FR,1:{Reset Type: 0-1}	FAIL,{N}:Command	Perform factory reset (0 = Hard Reset , 1 = Soft Reset)

API Format



Response Code

Response Status	Response Code	Description
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. Returns the response code and the requested parameter.
FAIL	2	The requested command exists, but the entered parameter is in incorrect format. Returns the response code and the requested parameter.
FAIL	3	The requested command exists, but the entered parameter is out of range. Returns the response code and the current value stored in the EEPROM.

Input Actions

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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 Digital Actions

Action Number	Output Action	Description
0	(No action)	No action
1	Button 1 Click	Presses and immediately releases Button 1.
2	Button 2 Click	Presses and immediately releases Button 2.
3	Button 3 Click	Presses and immediately releases Button 3.
4	Button 4 Click	Presses and immediately releases Button 4.
5	Button 5 Click	Presses and immediately releases Button 5.
6	Button 6 Click	Presses and immediately releases Button 6.
7	Center Reset	Initiates center reset routine to set joystick center position.
8	Calibration	Initiates joystick calibration routine to set joystick limits and reset joystick center.

Output Analog Actions

Action Number	Output Action	Description
0	(No action)	No action
1	Button 1 Press	Presses Button 1.
2	Button 2 Press	Presses Button 2.
3	Button 3 Press	Presses Button 3.
4	Button 4 Press	Presses Button 4.
5	Button 5 Press	Presses Button 5.
6	Button 6 Press	Presses Button 6.
7	Center Reset	Initiates center reset routine to set joystick center position.
8	Calibration	Initiates joystick calibration routine to set joystick limits and reset joystick center.

Digital Action Mapping

Input Action	LipSync Gaming Action
Short Puff	1: Button 1 Press and Release
Short Sip	2: Button 2 Press and Release
Long Puff	5: Button 5 Press and Release
Long Sip	6: Button 6 Press and Release
Very Long Puff	7 : Center Reset
Very Long Sip	0 : No action

Analog Action Mapping

Input Action	LipSync Gaming Action
Puff	1: Button 1 Press
Sip	2 : Button 2 Press





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 puff pressure threshold of 10%
PT,1:20	FAIL,0:PT,1:20	(Attempt to set puff 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,1:20:266	LipSync set new puff pressure threshold of 20% and returned current nominal pressure of