

QuadStick

A mouth operated gamepad, mouse and keyboard for quadriplegics



The QuadStick has a joystick, four sip & puff sensors, a lip position sensor, and a push switch connected to a 32-bit ARM processor that converts the sensor inputs into USB and Bluetooth signals for PC's & Game consoles.

The QuadStick appears

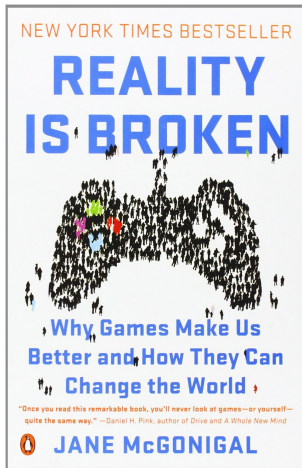
to the host device as a PS3 compatible Gamepad, Mouse, Keyboard and Flash drive.



The connections between the input sensors and the signals sent to the host are configurable by the user and can be quickly changed between pre-configured profiles, while playing a game, to match different situations in the game.

Specific configuration profiles can easily be created for games that require combinations or unique control inputs.

	A	B	C
1	Profile Name		Left joy
2	cod.csv		Normal
3	Output or Function	Function	usb
4	increment_mode	normal	right_sip
5	decrement_mode	normal	right_puff
6	dpad_N	normal	
7	dpad_NE	normal	
8	dpad_E	normal	
9	dpad_SE	normal	
10	dpad_S	normal	
11	dpad_SW	normal	
12	dpad_W	normal	
13	dpad_NW	normal	
14	left_joy_left	normal	left
15	left_joy_right	normal	right
16	left_joy_up	normal	up
17	left_joy_down	normal	down
18	right_joy_left	normal	
19	right_joy_right	normal	
20	right_joy_up	normal	
21	right_joy_down	normal	
22	left_1	normal	mp_left_sip
23	left_2	normal	mp_left_puff
24	left_3	toggle	mp_left_center_sip
25	right_1	normal	lip
26	right_2	normal	mp_right_puff
27	right_3	normal	mp_right_center_sip
28	x	normal	mp_right_sip
29	circle	normal	mp_center_puff
30	square	normal	mp_center_sip
31	triangle	normal	mp_right_center_puff
32	select	normal	mp_left_sip_soft
33	select	normal	right_sip_soft
34	ps3	normal	mp_center_sip_soft
35	start	normal	mp_right_sip_soft

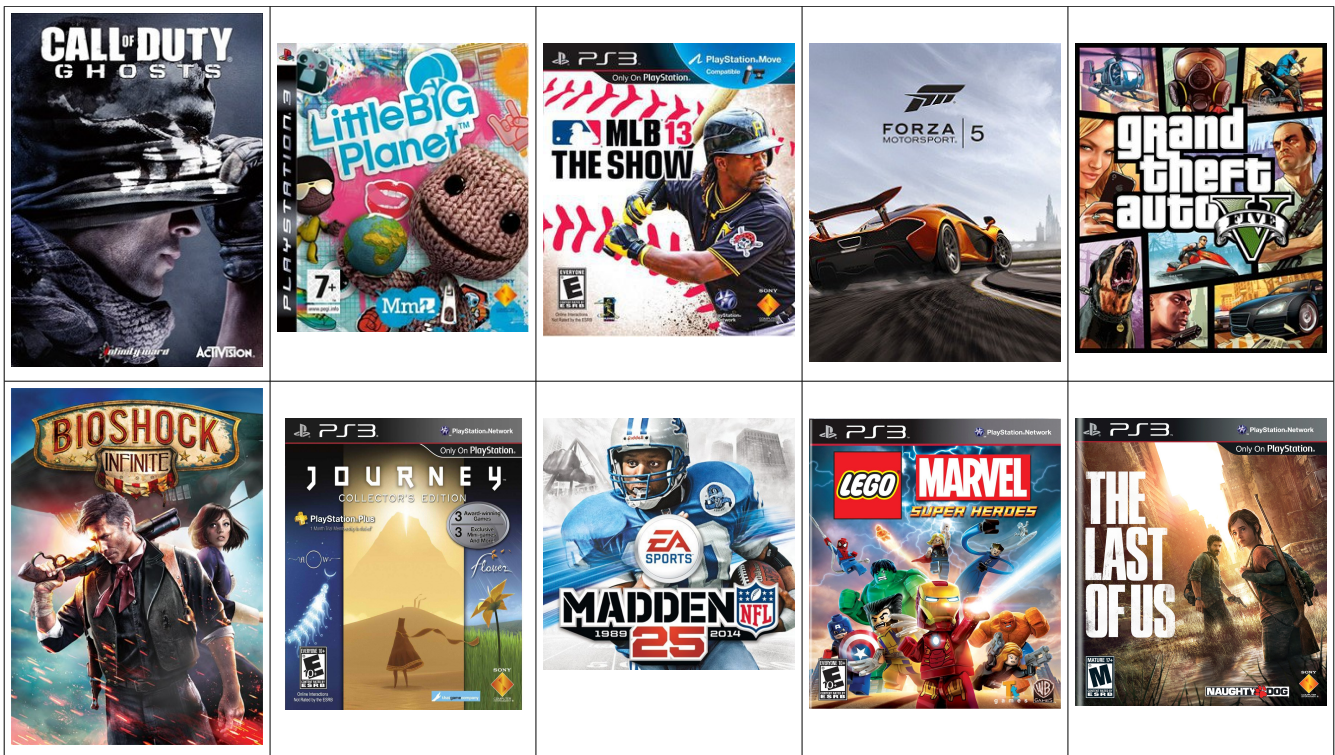


“A game is an opportunity to focus our energy, with relentless optimism, at something we’re good at (or getting better at) and enjoy. In other words, gameplay is the direct emotional opposite of depression.”

— Jane McGonigal, Reality Is Broken: Why Games Make Us Better and How They Can Change the World

Sports, music, racing, puzzle, role-playing, casual, strategy and adventure games allow players to cooperate and compete, to interact with friends and family, to meet and socialize with other members of the gaming community.

Some games that have successfully been played by quadriplegics with high level injuries with the QuadStick include:



The QuadStick is directly compatible with the PS3, Android, and many PC games that use a joystick, mouse or keyboard. Through the use of a 3rd party USB adapter, Xbox 360 & Xbox One consoles can be used, as well as PC games that require an Xbox 360 controller. PS4 support is under development.

QuadStick
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