

Valve Steam Controller

File: /dev/input/by-id/usb-Valve_Software_Wired_Controller-if02-event-joystick (all)				
TO USER	Linux Type	Type Alias	Linux Code	Code Alias
Joystick_LR	3	EV_ABS	0	ABS_X
Joystick_UD	3	EV_ABS	1	ABS_Y
RIGHT DPAD PRESSURE LR	3	EV_ABS	3	ABS_RX
RIGHT DPAD PRESSURE UD	3	EV_ABS	4	ABS_RY
LEFT DPAD PRESSURE LR	3	EV_ABS	16	ABS_HAT0X
LEFT DPAD PRESSURE UD	3	EV_ABS	17	ABS_HAT0Y
RIGHT TRIGGER PRESSURE	3	EV_ABS	20	ABS_HAT2X
LEFT TRIGGER PRESSURE	3	EV_ABS	21	ABS_HAT2Y
LEFT DPAD ENGAGED	1	EV_KEY	289	BTN_THUMB
RIGHT DPAD ENGAGED	1	EV_KEY	290	BTN_THUMB2
A	1	EV_KEY	304	BTN_SOUTH
B	1	EV_KEY	305	BTN_EAST
X	1	EV_KEY	307	BTN_NORTH
Y	1	EV_KEY	308	BTN_WEST
LEFT SHOULDER	1	EV_KEY	310	BTN_TL
RIGHT SHOULDER	1	EV_KEY	311	BTN_TR
LEFT TRIGGER BTN	1	EV_KEY	312	BTN_TL2
RIGHT TRIGGER BTN	1	EV_KEY	313	BTN_TR2
<	1	EV_KEY	314	BTN_SELECT
>	1	EV_KEY	315	BTN_START
STEAM	1	EV_KEY	316	BTN_MODE
Joystick BTN	1	EV_KEY	317	BTN_THUMBL
RIGHT DPAD BTN	1	EV_KEY	318	BTN_THUMBR
LEFT GRIP	1	EV_KEY	336	BTN_GEAR_DOWN
RIGHT GRIP	1	EV_KEY	337	BTN_GEAR_UP
LEFT DPAD UP	1	EV_KEY	544	BTN_DPAD_UP
LEFT DPAD DOWN	1	EV_KEY	545	BTN_DPAD_DOWN
LEFT DPAD LEFT	1	EV_KEY	546	BTN_DPAD_LEFT
LEFT DPAD RIGHT	1	EV_KEY	547	BTN_DPAD_RIGHT

File: events except gyro/accelerometer)	
TO USER	Value Range
Joystick_LR	-32767 to 32767 (Resolution 51)
Joystick_UD	-32767 to 32767 (Resolution 51)
RIGHT DPAD PRESSURE LR	-32767 to 32767 (Fuzz 256, Resolution 1638)
RIGHT DPAD PRESSURE UD	-32767 to 32767 (Fuzz 256, Resolution 1638)
LEFT DPAD PRESSURE LR	-32767 to 32767 (Fuzz 256, Resolution 1638)
LEFT DPAD PRESSURE UD	-32767 to 32767 (Fuzz 256, Resolution 1638)
RIGHT TRIGGER PRESSURE	0-255
LEFT TRIGGER PRESSURE	0-255
LEFT DPAD ENGAGED	0-1
RIGHT DPAD ENGAGED	0-1
A	0-1
B	0-1
X	0-1
Y	0-1
LEFT SHOULDER	0-1
RIGHT SHOULDER	0-1
LEFT TRIGGER BTN	0-1
RIGHT TRIGGER BTN	0-1
<	0-1
>	0-1
STEAM	0-1
Joystick BTN	0-1
RIGHT DPAD BTN	0-1
LEFT GRIP	0-1
RIGHT GRIP	0-1
LEFT DPAD UP	0-1
LEFT DPAD DOWN	0-0-0
LEFT DPAD LEFT	0-1
LEFT DPAD RIGHT	0-1

Microsoft XBOX 360 Controller

File: /dev/input/by-id/usb- ©Microsoft_Xbox_360_Wireless_Reciever_for_Windows_E15D4C50-event-joystick		Everything			
TO USER	Linux Type	Type Alias	Linux Code	Code Alias	Value Range
Left Joystick LEFT/RIGHT	3	EV_ABS	0	ABS_X	-32768 to 32767, Fuzz 16, Flat 128
Left Joystick UP/ DOWN	3	EV_ABS	1	ABS_Y	-32768 to 32767, Fuzz 16, Flat 128
LT	3	EV_ABS	2	ABS_Z	0-255
Right Joystick LEFT/RIGHT	3	EV_ABS	3	ABS_RX	-32768 to 32767, Fuzz 16, Flat 128
Right Joystick UP/DOWN	3	EV_ABS	4	ABS_RY	-32768 to 32767, Fuzz 16, Flat 128
RT	3	EV_ABS	5	ABS_RZ	0-255
DPAD LEFT/ RIGHT	3	EV_ABS	16	ABS_HAT0X	-1 to 1
DPAD UP/DOWN	3	EV_ABS	17	ABS_HAT0Y	-1 to 1
A	1	EV_KEY	304	BTN_SOUTH	0-1
B	1	EV_KEY	305	BTN_EAST	0-1
X	1	EV_KEY	307	BTN_NORTH	0-1
Y	1	EV_KEY	308	BTN_WEST	0-1
LB	1	EV_KEY	310	BTN_TL	0-1
RB	1	EV_KEY	311	BTN_TR	0-1
<	1	EV_KEY	314	BTN_SELECT	0-1
>	1	EV_KEY	315	BTN_START	0-1
XBOX	1	EV_KEY	316	BTN_MODE	0-1
Left Joystick Button	1	EV_KEY	317	BTN_THUMBL	0-1
Right Joystick Button	1	EV_KEY	318	BTN_THUMBR	0-1
Left DPAD	1	EV_KEY	704	BTN_TRIGGER_HAPPY1	0-1
Right DPAD	1	EV_KEY	705	BTN_TRIGGER_HAPPY2	0-1
Up DPAD	1	EV_KEY	706	BTN_TRIGGER_HAPPY3	0-1
Down DPAD	1	EV_KEY	707	BTN_TRIGGER_HAPPY4	0-1
Input?	21	EV_FF	80	FF_RUMBLE	Input?
Input?	21	EV_FF	81	FF_PERIODIC	Input?
Input?	21	EV_FF	88	FF_SQUARE	Input?
Input?	21	EV_FF	89	FF_TRIANGLE	Input?
Input?	21	EV_FF	90	FF_SINE	Input?
Input?	21	EV_FF	96	FF_GAIN	Input?

PlayStation 4 DualShock Wireless Controller

Event		File: /dev/input/by-id/usb-Sony_Interactive_Entertainment_Wireless_Controller-if03-event-mouse					All Touch Pad Features
#	/proc/bus/input/devices		Vendor=054c Product=09cc "Wireless Controller Touchpad"				
1	Touchpad	TO USER	Linux Type	Type Alias	Linux Code	Code Alias	Value Range
		X-Coordinates	3	EV_ABS	0	ABS_X	0-1920
		Y-Coordinates	3	EV_ABS	1	ABS_Y	0-942
		Two-Finger Toggle	3	EV_ABS	47	ABS_MT_SLOT	0-1
		X-Coordinates	3	EV_ABS	53	ABS_MT_POSITION_X	0-1920
		Y-Coordinates	3	EV_ABS	54	ABS_MT_POSITION_Y	0-942
		Number of Times Engaged Per Use	3	EV_ABS	57	ABS_MT_TRACKING_ID	0-65535
		Trackpad Button	1	EV_KEY	272	BTN_LEFT	0-1
		Trackpad Engaged	1	EV_KEY	325	BTN_TOOL_FINGER	0-1
		Trackpad Engaged	1	EV_KEY	330	BTN_TOUCH	0-1
Two-Finger Touch	1	EV_KEY	333	BTN_TOOL_DOUBLETAP	0-1		
Event		File: /dev/input/by-id/usb-Sony_Interactive_Entertainment_Wireless_Controller-event-if03					Accelerometer
#	/proc/bus/input/devices		Vendor=054c Product=09cc "Wireless Controller Motion Sensors"				
	Gyro	TO USER	Linux Type	Type Alias	Linux Code	Code Alias	Value Range
2	Acceleration	MOVE LEFT/RIGHT	3	EV_ABS	0	ABS_X	-32768 to 32768, Fuzz 16, Resolution 8192
		MOVE UP/DOWN	3	EV_ABS	1	ABS_Y	-32768 to 32768, Fuzz 16, Resolution 8192
		LED FORWARD/BACKWARD	3	EV_ABS	2	ABS_Z	-32768 to 32768, Fuzz 16, Resolution 8192
	Tilt/Rotational Acceleration/ Gyroscope	TILT LEFT/RIGHT	3	EV_ABS	3	ABS_RX	-2097152 to 2097152, Fuzz 16, Resolution 1024
		FACE UP/DOWN	3	EV_ABS	4	ABS_RY	-2097152 to 2097152, Fuzz 16, Resolution 1024
		LED UP/DOWN	3	EV_ABS	5	ABS_RZ	-2097152 to 2097152, Fuzz 16, Resolution 1024
		Time Stamp	4	EV_MSC	5	MSC_TIMESTAMP	?
Event		File: /dev/input/by-id/usb-Sony_Interactive_Entertainment_Wireless_Controller-if03-event-joystick					Joystick + All Buttons Except Touch Pad
#	/proc/bus/input/devices		Vendor=054c Product=09cc "Wireless Controller"				
3	Buttons	TO USER	Linux Type	Type Alias	Linux Code	Code Alias	Value Range
		LEFT Joystick PRESSURE LEFT/ RIGHT	3	EV_ABS	0	ABS_X	0-255, Flat 15
		LEFT Joystick PRESSURE UP/DOWN	3	EV_ABS	1	ABS_Y	0-255, Flat 14
		L2 PRESSURE	3	EV_ABS	2	ABS_Z	0-255, Flat 15
		RIGHT Joystick PRESSURE LEFT/ RIGHT	3	EV_ABS	3	ABS_RX	0-255, Flat 15
		RIGHT Joystick PRESSURE UP/DOWN	3	EV_ABS	4	ABS_RY	0-255, Flat 14
		R2 PRESSURE	3	EV_ABS	5	ABS_RZ	0-255, Flat 15
		DPAD LEFT	3	EV_ABS	16	ABS_HAT0X	-1-0
		DPAD RIGHT	3	EV_ABS	16	ABS_HAT0X	0-1
		DPAD UP	3	EV_ABS	17	ABS_HAT0Y	-1-0
		DPAD DOWN	3	EV_ABS	17	ABS_HAT0Y	0-1
		X	1	EV_KEY	304	BTN_SOUTH	0-1
		Circle	1	EV_KEY	305	BTN_EAST	0-1
		Triangle	1	EV_KEY	307	BTN_NORTH	0-1
		Square	1	EV_KEY	308	BTN_WEST	0-1
		L1	1	EV_KEY	310	BTN_TL	0-1
		R1	1	EV_KEY	311	BTN_TR	0-1
		L2	1	EV_KEY	312	BTN_TL2	0-1
		R2	1	EV_KEY	313	BTN_TR2	0-1
		Share	1	EV_KEY	314	BTN_SELECT	0-1
		Options	1	EV_KEY	315	BTN_START	0-1
		PlayStation	1	EV_KEY	316	BTN_MODE	0-1
		LEFT Joystick	1	EV_KEY	317	BTN_THUMBL	0-1
		RIGHT Joystick	1	EV_KEY	318	BTN_THUMBR	0-1

Original Wii Remote

Event #	TO USER	Linux Type	Type Alias	Linux Code	Code Alias	Value Range
/proc/bus/input/devices: Vendor=057e Product=0306 Nintendo "Wii Remote Accelerometer" Accelerometer						
1	TILT LEFT/RIGHT	3	EV_ABS	3	ABS_RX	-500 to 500, Fuzz 2, Flat 4
	IR UP/DOWN	3	EV_ABS	4	ABS_RY	-500 to 500, Fuzz 2, Flat 5
	Buttons UP/DOWN	3	EV_ABS	5	ABS_RZ	-500 to 500, Fuzz 2, Flat 6
/proc/bus/input/devices: Vendor=057e Product=0306 "Nintendo Wii Remote IR" IR						
2	?	3	EV_ABS	16	ABS_HAT0X	0 to 1023, Fuzz 2, Flat 4
	?	3	EV_ABS	17	ABS_HAT0Y	0 to 767, Fuzz 2, Flat 4
	?	3	EV_ABS	18	ABS_HAT1X	0 to 1023, Fuzz 2, Flat 4
	?	3	EV_ABS	19	ABS_HAT1Y	0 to 767, Fuzz 2, Flat 4
	?	3	EV_ABS	20	ABS_HAT2X	0 to 1023, Fuzz 2, Flat 4
	?	3	EV_ABS	21	ABS_HAT2Y	0 to 767, Fuzz 2, Flat 4
	?	3	EV_ABS	22	ABS_HAT3X	0 to 1023, Fuzz 2, Flat 4
	?	3	EV_ABS	23	ABS_HAT3Y	0 to 767, Fuzz 2, Flat 4
/proc/bus/input/devices: Vendor=057e Product=0306 "Nintendo Wii Remote" Buttons						
3	DPAD UP	1	EV_KEY	103	KEY_UP	0-1
	DPAD LEFT	1	EV_KEY	105	KEY_LEFT	0-1
	DPAD RIGHT	1	EV_KEY	106	KEY_RIGHT	0-1
	DPAD DOWN	1	EV_KEY	108	KEY_DOWN	0-1
	1	1	EV_KEY	257	BTN_1	0-1
	2	1	EV_KEY	258	BTN_2	0-1
	A	1	EV_KEY	304	BTN_SOUTH	0-1
	B	1	EV_KEY	305	BTN_EAST	0-1
	Home Button	1	EV_KEY	316	BTN_MODE	0-1
	+	1	EV_KEY	407	KEY_NEXT	0-1
	-	1	EV_KEY	412	KEY_PREVIOUS	0-1
	Input?	21	EV_FF	80	FF_RUMBLE	Input?
	Input?	21	EV_FF	81	FF_PERIODIC	Input?
	Input?	21	EV_FF	88	FF_SQUARE	Input?
	Input?	21	EV_FF	89	FF_TRIANGLE	Input?
	Input?	21	EV_FF	90	FF_SINE	Input?
	Input?	21	EV_FF	96	FF_GAIN	Input?
/proc/bus/input/devices: Vendor=057e Product=0306 "Nintendo Wii Remote Nunchuk" Nunchuks						
4	Z	1	EV_KEY	309	BTN_Z	0-1
	C	1	EV_KEY	386	BTN_C	0-1
	Joystick LEFT/RIGHT	3	EV_ABS	16	ABS_HAT0X	-120 to 120, Fuzz 2, Flat 5
	Joystick UP/DOWN	3	EV_ABS	17	ABS_HAT0Y	-120 to 120, Fuzz 2, Flat 4

Event #	TO USER	Linux Type	Type Alias	Linux Code	Code Alias	Value Range
	Tilt LEFT/RIGHT	3	EV_ABS	3	ABS_RX	-500 to 500, Fuzz 2, Flat 4
	Triggers UP/DOWN	3	EV_ABS	4	ABS_RY	-500 to 500, Fuzz 2, Flat 5
	Face UP/DOWN	3	EV_ABS	5	ABS_RZ	-500 to 500, Fuzz 2, Flat 6

Gaming Mouse

File: Mouse*					
TO USER	Linux Type	Type Alias	Linux Code	Code Alias	Value Range
Move Left/Right	2	EV_REL	0	REL_X	-256 to 254
Move Forward/Backward	2	EV_REL	1	REL_Y	-256 to 254
Scroll	2	EV_REL	8,11	REL_WHEEL, REL_WHEEL_HI_RES	-1 to 1, -120 to 120
Left Click	1	EV_KEY	272	BTN_LEFT	0-1
Right Click	1	EV_KEY	273	BTN_RIGHT	0-1
Middle Click	1	EV_KEY	274	BTN_MIDDLE	0-1
Side Button 1	1	EV_KEY	275	BTN_SIDE	0-1
Side Button 2	1	EV_KEY	276	BTN_EXTRA	0-1

PlayStation 3 DualShock 3 Controller

DualSense PS5 Controller

DualSense Edge PlayStation Controller

Xbox One Controller