

SP4218B Bluetooth Game Controller Specification

1. Product description

This controller is a DualShock 4 Bluetooth controller for the PS4 console. The Bluetooth connection distance of the controller is over 10M. The front of the controller is equipped with a pressable dual-point capacitive touchpad and a 3.5mm TRRS stereo jack for connecting headphones and a microphone, allowing users to receive and transmit audio at the same time. It is equipped with a Micro-USB port for data communication and for charging the controller.



2. Product Feature

- (1) Buttons: PS, Share, Option, ↑, ↓, ←, →, ×, ○, □, △, L1, L2, L3, R1, R2, R3, VRL, VRR, RESET, T-PAD;
- (2) Supports any software version of the PS4 console;
- (3) Bluetooth version 5.0, the controller connects to the console in the same way as the original controller, and the Bluetooth connection distance is more than 10M;
- (4) Equipped with red and blue dual-color LED color indication;
- (5) Built-in large-capacity polymer lithium battery, supports Micro-USB port data cable charging;
- (6) 3.5mm TRRS stereo jack for connecting headphones and microphones;
- (7) Equipped with a dual-point capacitive touch panel;
- (8) Built-in dual motor vibration;
- (9) Supports users to use PC USB to upgrade the product update program released by the company.

3. Product Function

3.1 PS4 Platform Features

All in-game features can be used on the PS4 console, including all button functions, motor vibration functions,

and touch functions of the original PS4 controller.

3.2 Connecting to a PS4 Console

3.2.1 If the controller is not connected to the current PS4 console, you must first use a Type-C cable to establish wired communication with the PS4 console. The program will automatically pair the controller. Press the PS button to connect the controller wirelessly via Bluetooth.

3.2.2 You can connect up to four controllers to the console and play games simultaneously. If a controller is not paired with the console, pressing the PS button will wake the console from sleep mode.

3.3 Connecting the Controller to a PC

3.3.1 The controller supports D_INPUT when connected to a PC via a data cable.

3.4 LED Charging Indicator

When the controller is powered off and charging, the LED will illuminate red. When fully charged, the LED will turn off.

4.Button functions

Number	name	Functional role
1	SHARE button	Share button
2	PS button	Long press to turn on/off the device, short press to return to the main interface when connected to a device
3	OPTION button	Select button/Pause button in game
4	D-pad button	Control the character's direction of movement and the selection between menu program options
5	△button	Action key: Issue action commands (according to the settings of the corresponding game)
6	○button	Action key: Issue action commands (according to the settings of the corresponding game)
7	× button	Action key: Issue action commands (according to the settings of the corresponding game)
8	□ button	Action key: Issue action commands (according to the settings of the corresponding game)
9	Left 3D:LEFTANALOGAXIS(L3)	The direction of movement of the character in the game (functional when pressed down)
10	Right 3D: RIGHTANALOGAXIS(R3)	The visual movement direction of the character in the game (functional when pressed down)
11	Left L1 button	Action key: Issue action commands (according to the settings of the corresponding game)
12	Left L2 button	Action key: Issue action commands (according to the settings of the corresponding game)
13	Right R1 button	Action key: Issue action commands (according to the settings of the corresponding game)
14	Right R2 button	Action key: Issue action commands (according to the settings of the corresponding game)
15	touch screen	This function is for selecting special weapons in the corresponding game
16	TOUTCH button	Touch screen push button

PS4, PS3, PC button comparison table

PS4	□	×	○	△	L1	R1	L2	R2	SHARE	OPTION	L3	R3	PS	T-PAD
PS3	□	×	○	△	L1	R1	L2	R2	SHARE	OPTION	L3	R3	PS	T-PAD
PC	1	2	3	4	5	6	7	8	9	10	11	12	13	14

5. Electrical parameters

1) Electrical parameters

(All voltages are referenced to GND, ambient temperature is 25°C)

Project	symbol	Condition	Minimum value	Typical value	maximum value	unit
Working voltage	Vo	whole machine	3.5		4.2	V
Working current	Io	whole machine		55		mA
Sleep current	Isp	whole machine			10	uA
Motor current	Im	size	80		140	mA

2) Limit ratings

(All voltages are referenced to GND, ambient temperature is 25°C)

Project	Symbol	Rating	Unit
input voltage	USB_V _{IN}	5.0	V
Input current	USB_I _{IN}	500	mA
Operating temperature range	T _J	0-40	°C
Storage temperature	T _{STG}	-20-60	°C

3) Battery parameters

(All voltages are referenced to GND, ambient temperature is 25°C)

Project	Symbol	parameters	Unit
Rated capacity	C	500	mAH
Nominal voltage	BAT_V	3.7	V
Charging current	BAT_I _{IN}	230—0	mA
Battery life	BAT_H	8	H

6. Firmware Upgrade

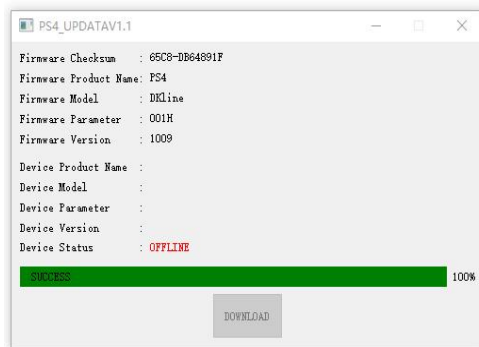
(This is the production upgrade firmware method. Depending on the customer's order requirements, a user-specific upgrade program can be produced.)

When the user needs to upgrade the host system or update the controller function during use, the controller can be connected to the PC via the USB data cable for upgrade.

(1) Double-click the upgrade program file. The upgrade interface is as follows after opening:



(2) Press and hold "SHARE" + "Action Button X" to connect the controller to the PC. Release "SHARE" and "Action Button X" after the connection is completed. After a while, the "DOWNLOAD" icon turns from gray to black, indicating that the connection is successful. Click "DOWNLOAD" to upgrade, as shown below:



7.FCC Caution

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.