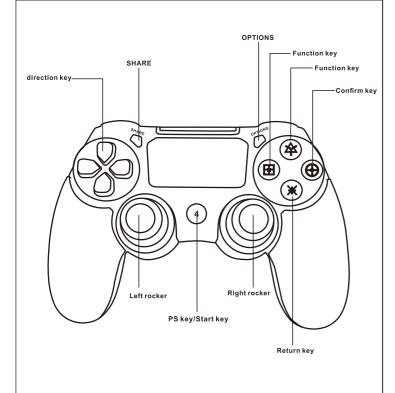
P4 Wireless Controller



Brief Introduction:

The Controller is specially designed for P4 console, adapting Double Shock 4 wireless controller program, It's equipped with latest motion sensing technology,built-in three-axis gyroscope and three-axis accelerator. With the three features, it can detect omnidirectional dynamic information including Roll, Pitch and Yaw. In addition to induce tilt angle of the controller, it can also capture the 3 axis acceleration information of three-dimensional space $\mathbf{X},\ \mathbf{Y},$ Z,and transmit all information captured to the game system quickly. With this function.players can use this P4 Dual Shock 4 controller to operate special games, It's also featured with a new function:dual-point capacitive sensing touchpad on the front of the controller.It's the first controller which can support Windows PC.



There are several built-in output connection ports in the controller: 3.5mm headset jack, Micro-USB charging port, extension port and built-in speaker. Among them, the 3.5mm stereo headset jack can connect with headset and microphone, allowing Users to receive and transmit audio at the same time.

The controller is loaded with a light bar which can glow various colors, different colors represent different players they can also used as an important message tips such as reduction of player's life value and so on. What's more, the light bar also can interact with camera, so that the camera can determine the movement and distance of the controller.

Features

 $\textbf{Standard buttons: P1,Share,Option}, \uparrow, \downarrow, \leftarrow, \rightarrow, \textbf{x}, \circ, \Box, \triangle\,, \ \ \textbf{L1,L2,L3,R1,R2,R3},$ VRL.VRR.RESET

Supports any software version of the P4 Console

Connected with P4 console via Bluetooth Ver 4.0, distance range 10M Equipped with 6-axis sensor which is composed by 3D acceleration sensor and gyro sensor

With RGB LED color channel instructions

Supports dual-point capacitive sensing touchpad

Equipped with 3.5mm stereo headset jack and built-in speaker

Supports double motor vibration function

Wide operating voltage range, ultra low sleep current

Full function as original Double Shock 4, works with PC by installing driver (no driver needed for Windows 10 and Android 5.0)

Product Function

- 3.1 P4 Platform function
- 3.1.1 The six-axis function consisting of 3D and G is as follows



3.1.2 Basic description of Six-axis

X axis:acceleration movement of X axis is: left \rightarrow right, right \rightarrow left. Representative game disc: NBA07.

Y axis:acceleration movement of Y axis is: front→back, back→front. Representative game disc : NBA07.

Z axis:acceleration movement of Z axis is: up→down, down→up. Representative game disc: NBA07.

Roll axis:tilt from left and right taking the Y axis as the center axis, movement of Roll axis is: flat→tilt left , flat→tilt right .Representative game disc : BLAZING ANG, TONY HAWK'S, GENJI, RIDGE RACER. Pitch axis:tilt from front and back taking the X axis as the center axis, movement of Pitch axis is: flat→tilt front , flat→tilt back .Representative game disc : BLAZING ANG, TONY HAWK'S, GENJI.

Yaw axis:rotate from left and right taking the Z axis as the center axis, movement of Yaw axis is: flat \rightarrow rotate left, flat \rightarrow rotate right.Representative game disc : NBA07, TONY HAWK'S.

3.2 Standard-P4 working mode

3.2.1 The controller can fulfill any function in games on P4 console. including basic digital and analog buttons as well as six-axis sensor and color display function of LED.At the same time,regarding to certain games, it supports vibration function, But when test on Window 10 PC, a virtual 6-axis 14-key + visual helmet function device appears,at this point, no operation can be carried on.Default interface of 6-axis 16keys 1 POV under Windows 10 system is as below:





Sensor Calibration is completed automatically when testing PCBA, no need any calibration any more.

3.4 Sleep mode

The controller enters into Sleep mode if it fails to get connection with P4 console after it's under search status for 30 seconds or if no buttons press and no big movement of 3D analog for 10 minutes. You can wake up the controller by pressing P button.

3.5 LED indication

Led indicators will enter into breathing light mode if the controller is charging under power off status, and the color is random. The light goes off when controller is full charged.

Different light colors of each controller when several controllers connected to one Console at the same time: User 1 blue light, User 2 red light, User 3 green light, User 4 pink light.

Stand-by mode: orange light

Charge while playing : blue light

Charge while in stand-by mode: orange light, and light goes off when full

Controller lose connection: white light

3.6 Bluetooth Connection:

3.6.1 A data-capable USB cable is required to wired connect the

the first time you use this controller on the current Console, Hold the P button, the LED light bar will keep a single color, connected successfully, after the first time, hence you can connect the controller to the Console wirelessly via Bluetooth

3.6.2 One P4 console can only support 7 bluetooth devices at the same time no matter it's connected wired or wirelessly.

3.7 Correspondence of Standard P4 and PC buttons (Chart)

Electrical parameters

Electrical parameters (All voltages are referenced to GND and the ambient temperature is 25 degrees)

| Parameter | Symbol | Condition | Minimum | Typical | Maximum | Unit |
|--------------------|--------|---------------|---------|---------|---------|------|
| Working voltage | Vo | whole machine | 3.6 | | 4.5 | ٧ |
| Working current | lo | whole machine | | 80 | | mA |
| Sleep mode current | Isp | whole machine | | 70 | | uA |
| Motor current | lm | magnitude | | | 80 | mA |

Limited rating (All voltages are referenced to GND and the ambient temperature is 25 degrees)

| Parameter | Symbol | Rated value | Unit |
|---------------------------|---------|-------------|------|
| Input voltage | USB_VIN | 5.0 | V |
| Input current | USB_IIN | 1000 | mA |
| Working temperature range | TJ | 0-40 | C |
| storage temperature | TSTG | -20-85 | °C |

When a firmware update of the P4 Console is installed, it can be possible that the functions in the adapter may be affected, then you will need to update the controller as well to fix these issues





