Specification For Approval

Customer:

Product Name: PS3 Wireless Grip

Model No.: N3-015 (83081)

Shenzhen Pega Game Accessories

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Prepared By	Checked By	Approved By	Signature By	Checked By	Approved By

Suppier:

Date:

Customer:

Date:

Please return one specification or one copy of it with your chop and signature of approval and retain the others for your record. In the event of an order being placed for this part number before the chop and signed with specification (or copy) is returned and without special explanation, it will be assumed that full approval have been given.

Shenzhen Pega Game Accessories

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Content

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1. Introduction

1. Product Scope and Features:

1.1 The specification is applicable to the Pega's production of N3-015/N3-016 PS3 wireless grip.

1.2 This product is used in 2.4G wireless grip of PS3 console. Adopts a new movement sensing technology to detect, including Roll (left tilt), Pitch (tilt), Yaw (rotation around), It can accurately sense the grip angle and it can also capture three-dimensional space X, Y, Z, 3 axis acceleration information. Information will be quickly transmitted to the game system. The player can completely conduct special operations of game through new movement sensing technology of PS3 grip.

Product Features:

1. RF_2.4G wireless, wide range control of distance, Maximum: 10 meters

2. To support any software versions of PS3 console.

3. Supports dual motor vibration function.

4. With 3D acceleration sensors and G gyro sensors, composed of six-axis sensor capabilities.

5 Connection diversity: automatic on-line, seven groups of one to one (TX, RX) online without interference.

6 With 7-channel LED indicator.

7 Lithium battery can be charged, and a related charge instructions.

8 Wide operating voltage range, and low power consumption.

9 Using the standard PS3 functions (with the original function, to work through the Driver in the PC) or use the OEM mode (can support the PS3 & PC function)

2. Product Photo:

3. Buttons Function:

R Right 3D Joystick

✕ Key

◯ Key

△ Key

□ Key

R1 Key

R2 Key

Start Key

Home (PS) Key

Select Key

USB Charging Interface

LED Channel Indicator

LED Indicator of Battery Charging

Cross Direction Key

L Left 3D Joystick

L1 Key

L2 Key

Reset Key

A/B Switch

4. User Manual:

1. Connected console power and turn on console.

2. Press the Home (PS) key until the four-channel LED into the flash state.

3. Access USB into the console, grip and receiver will be automatically associated. After connecting, grip LED will flash slowly.

4. Press the grip Home (PS) key. Current channel LED is on. Grip and console will be in normal connection.

5. Above steps is used for the first operation. After first operation, connect receiver with console and directly press PS button to complete the normal connection with the console.

6. After connection, power saving mode is entered if no connection of grip and receiver for 15s.

7. In Power-saving mode, press PS button to wake up the grip.

9. A and B Mode: When you select mode A, L1, R1, L2, R2 buttons are for the normal function keys (the same with the original function). When you select the mode B, L1 and L2 functions exchange, R1 and R2 functions exchange.

5. PS3 console game features

1. Composed of the 3D-Sensor and the G-Sensor six-axis features (accelerometer and gyro sensor), as shown below:
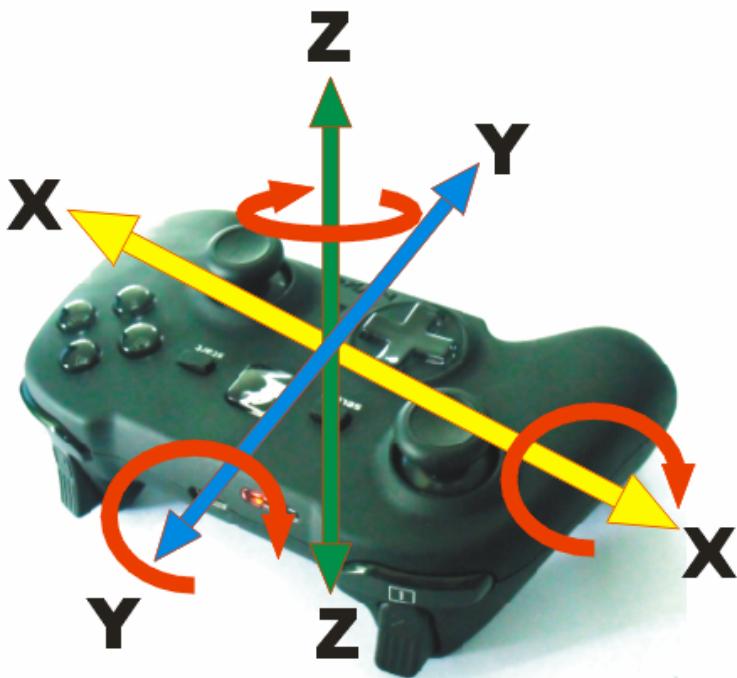
2. 6-axis basic description:

2.1 X axis: X axis acceleration motion (X + / X-direction)

Action: left → right, right → left.

VCD of reflecting functions: 'NBA07 basketball'

2.2 Y axis: Y axis acceleration motion (Y + / Y-direction),

Action: before → after, before→ after

VCD of reflecting functions: 'NBA07 basketball'

2.3.Z axis: Z axis acceleration motion (Z + / Z-direction),

Action: Above → bottom, Bottom → Above

VCD of reflecting functions: 'NBA07 basketball'

2.4.Roll axis (left and right tilt): The Y axis is tilted about the central axis

Action: the level → left tilt, the level → right tilt

VCD of reflecting functions: 'BLAZING AND aircraft ', "TONY HAWK'S skateboard '', "GENJI Brave played chaos' and 'RIDGE RACER"

2.5.Pitch axis (tilt): the X-axis rotation around the center axis.

Action: the level→pre-tilt, the level→ post tilt.

VCD of reflecting functions: 'BLAZING AND aircraft ', "TONY HAWK'S skateboard '', "GENJI Brave played chaos'

2.6.Yaw axis: (right and left rotation): The central axis around Z axis rotation,

Action: level → left rotation, level→ right rotation.

VCD of reflecting functions: 'NBA07 basketball' and "TONY HAWK'S skateboard ''

6. Grip Standard PS3 and OEM PS3 mode:
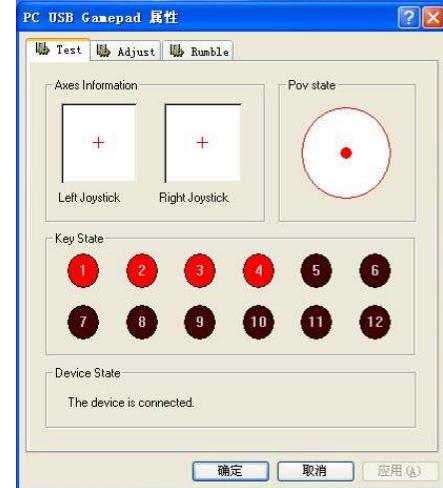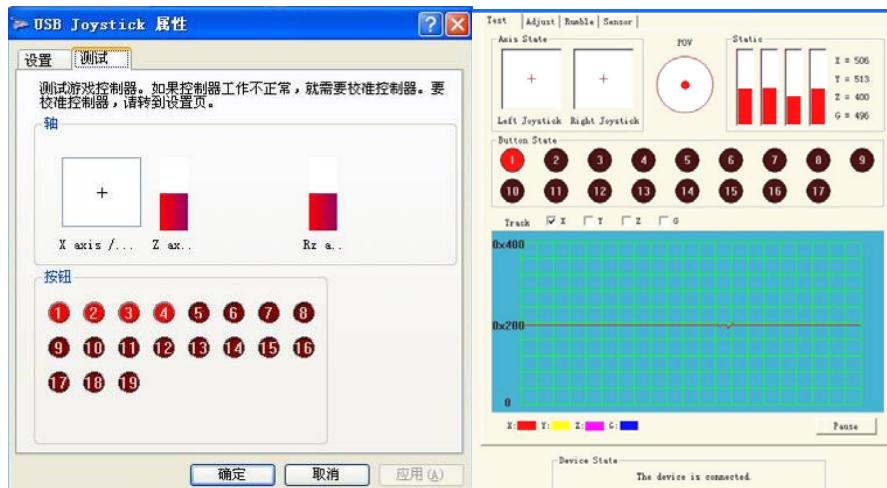
【Standard PS3 gaming device interface】 【OEM gaming device interface】 【Standard PC gaming device interface】

7. Sensor tested methods and procedures:

1. In order to ensure that every product of Sensor 【3D_Sensor, G_Sensor】 is in good condition, Gamepad calibration must be carried out before delivery.

2. Specific steps of Testing: First, press and hold SELECT + Home (PS) keys, and then charge or reset grip. When the four channels are on simultaneously, it sets into the SENSOR 6-axis center state. Make the grip horizontal placement (Note: must be horizontal) Press the START button. Four-channel LED will be off and

on after two seconds. It followed that four-channel lights blink and enter the normal operating mode. It is successful testing.

8. Channel LED instructions:

In order to save energy of Gamepad, Gamepad is not in line with the Dongle and RF LED often flashes. After 1 minute, Gamepad channel lights are off automatically. Press the MENU key, RF LED flashes quickly. After Gamepad connection, the corresponding channel LED light is on.

9. Battery and battery charge indicator function:

1. When the voltage is lower than the program default value (Low battery state default: 3.2 volts), enter the low power state. Indicator light will show an indication from the dark to bright. Format of indicator light flashing: LED will flash from dark to bright slowly. Lastly, it will be off. Later, LED will again flash from dark to bright slowly. Repeat operation.

2. In low-power state, user will be prompted to insert the USB cable for charging on the Gamepad. After connecting USB, LED light is on and is in a charging state.

3. In rechargeable power state, when the battery voltage is charged to program the default value (4.2 volts) and fully charged, the indicator light flashes rapidly (flash)

10. Sleep and wake-up function

In the search state for 30 seconds, it enters sleep mode. In 10 minutes of online state, the grip-side is without pressing and 3D joystick without any action, it enters sleep mode. Wake up by pressing MENU of Gamepad.

11. Relationship of Standard PS3 and corresponding PC button:

PS3 & PC Corresponding Key													
PS3	△	○	X	□	L2	R2	L1	R1	SELECT	START	L3	R3	MENU
PC	1	2	3	4	5	6	7	8	9	10	11	12	17

12. Product Maintenance and attention:

1. Please read the manual.

2: The product includes small things. Prohibit children less than 5 years old to play.

3: Prohibition of demolition / reconstruction to damage the products.

4: The battery life time is depends on game.

5: When the product is dusty or dirty, wipe with a cloth. Prohibit the use of chemical solvents to clean.

6: No prior notice will be issued for upgrade or technical improvements of product.

14. Overall Dimension:
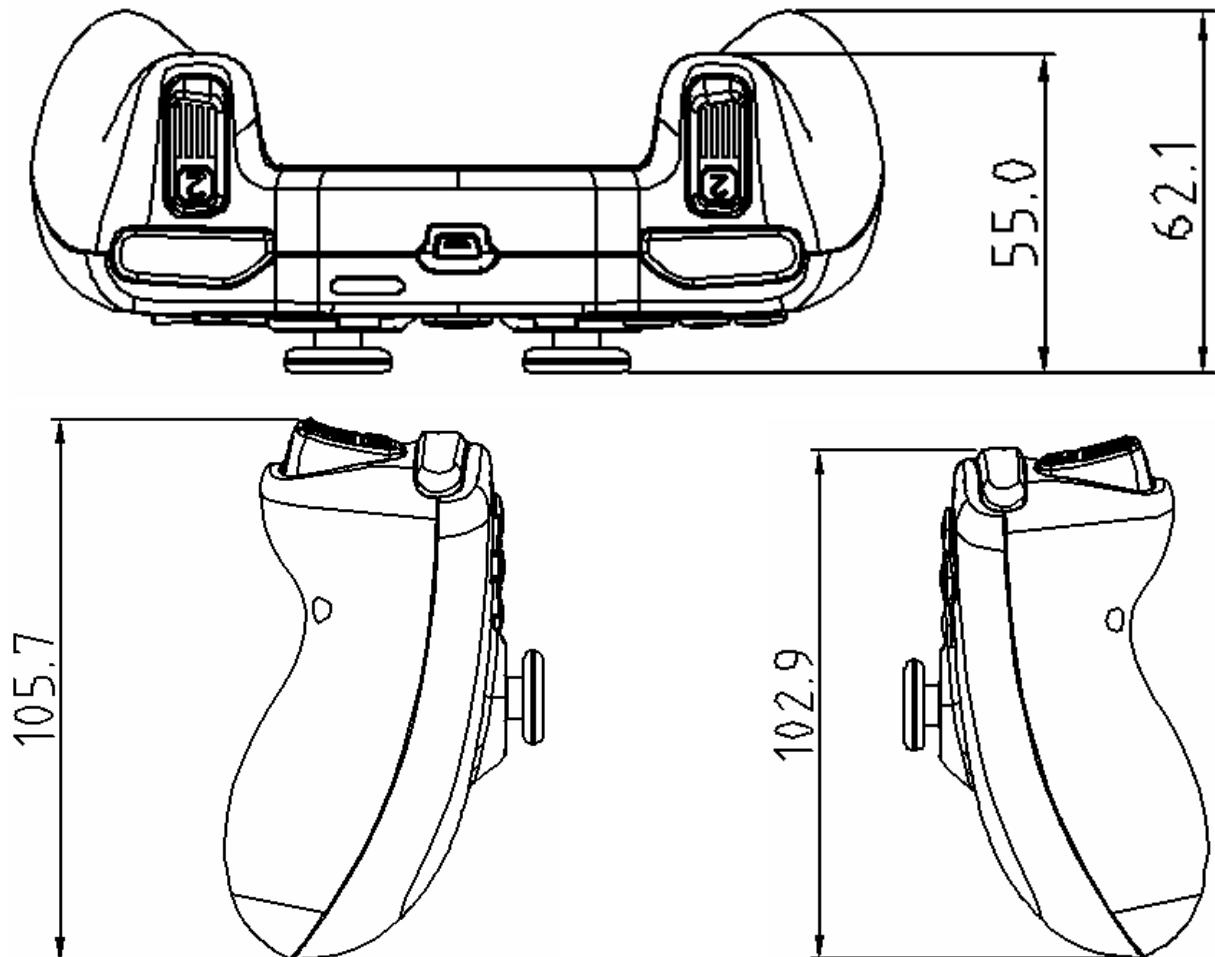
15. Electrical standards and testing requirements:

1. Detection tool

1.1 PS3 Test Stands, 9V power supply, PS3 console, TV, PC console.

1.2 CD: NBA07 basketball, BLAZINGANG aircraft, genji divinity played chaos

2. Electrical Characteristics

2.1 lithium battery: nominal 3.7V/650MAH

2.2 USB Input voltage: 5V

2.3 Charge current: ≤ 500MA

2.4 The machine operating current: ≤ 30MA

2.5 Motor vibration current: Large motor ≤ 80MAMA; Small motors ≤ 50MA

2.6 Wireless connection distance: ≥ 10M

3. Detection steps

3.1 Connect receiver and test tool. Receiver LED flashes rapidly for 15 seconds and slowly flashes (flashing means connecting to the receiver) If current is less than 30MA, visual LED light to be uniform.

3.2 4-channel LED of grips blink, visual 4 LED light are evenly Press the MENU (PS) key after the 4-channel LED flash after 20 seconds, slowly flash (forced flash is connected with the transmitter). After connection,

grip current is less than 30MA. After transmitter and receiver connected, the receiver LED is on. Assigned channel LED of PS3 grip is automatically on. Press MENU (PS) button to change the channel position, were 1; 2; 3; 4; 4 +1; 4 +2; 4 +3, a total of seven channels.

3.3 Key Test: Press the transmitter button △, ○, ※, □, L1, L2, R1, R2, Arrows, the corresponding LED light are on. Corresponding Cross Direction LED is on one by one. Note: The key cannot be touched or pressure phenomenon and LED light cannot flash. Press SELECT, START corresponding single lights are on. All the buttons moderate intensity.

3.4 3D Test: Press the 3D button, the corresponding LED light is on. 3D up, down, left, right direction corresponding cross LED will be on in accordance of angle. LED light shelves cannot flash. 3D must be able to fill the grid. 3D in the upper and lower, left and right 45 degrees, the corresponding LED light directions Cross LED must be able to fill the grid.

3.5 Vibration test: Press R2, L2, corresponding left and right motor vibration, L motor current ≤ 80MA, R motor current ≤ 50MA.

3.6 SENSOR Check: First of all while holding down the SELECT + MENU 2 keys, and then charge grip. When the four channels are on simultaneously, that sets into the center of the state SENSOR 6-axis. Place the grip horizontally. Press the START key, four-channel LED will be off. The light will be on after two seconds and followed by four-channel light blinks. It enters the normal operating mode, that checks success Note: All grips are required be checked.

3.7 SENSOR six-axis basic description: X-axis:

a. X axis: X axis acceleration motion (X + / X-direction)

Action: left → right, right → left.

VCD of reflecting functions: 'NBA07 basketball'

b. Y axis: Y axis acceleration motion (Y + / Y-direction),

Action: before → after, before→ after

VCD of reflecting functions: 'NBA07 basketball'

c.Z axis: Z axis acceleration motion (Z + / Z-direction),

Action: Above → bottom, Bottom → Above

VCD of reflecting functions: 'NBA07 basketball'

d.Roll axis (left and right tilt): The Y axis is tilted about the central axis

Action: the level → left tilt, the level → right tilt

VCD of reflecting functions: 'BLAZING AND aircraft ', "TONY HAWK'S skateboard '', "GENJI Brave played chaos' and 'RIDGE RACER"

e. Pitch axis (tilt): the X-axis rotation around the center axis.

Action: the level→pre-tilt, the level→ post tilt.

VCD of reflecting functions: 'BLAZING AND aircraft ', "TONY HAWK'S skateboard '', "GENJI Brave played chaos'

f. Yaw axis: (right and left rotation): The central axis around Z axis rotation,

Action: level → left rotation, level→ right rotation.

VCD of reflecting functions: 'NBA07 basketball' and "TONY HAWK'S skateboard ''
Note: All grips in the game which must be 'BLAZINGANG aircraft' test. When the grip is in horizontal placement, plane cannot move up, down, left and right shift. 'NBA07 basketball' & "genji fame" is used for arbitrary 5% sampling sensitivity.
g. Wireless connection test: Select other high-frequency radio interference-free space. Operating grip away from the receiver distance 10-12M and it cannot have broken code.
h. Low battery and charging test: Can use false load, fake batteries (low battery voltage & full charging 4.2v) and replace by the relevant regulator power supply. Charge current control is between the 200-400MA. Specific process complies with "charging battery power and indicator function"
i. In the search state for 30 seconds, it enters sleep mode. In 10 minutes of online state, the grip-side is without pressing and 3D joystick without any action, it enters sleep mode. Wake up by pressing MENU of Gamepad.3.11 A and B mode test: When you select A mode, L1, R1, L2, R2 buttons for the normal function keys (the same with the original function), select the B mode, L1 and L2 functions on the exchange, R1 and R2 function on the exchange.

16. Appearance requirements and test standards:
1. Shell is without distortion, shrinkage, edges, combined with tight upper and lower crust, spray evenly, the surface without scratches, dirt, black spots and the disclosure front.
2. Not missed screws, without big crack and unclear labels.
3. Packing materials and accessories in accordance with order requirements and the correct model.
4. Other standards please refer to similar products.

FCC NOTE:
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.

FCC NOTE:
The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.