# User Manual

## WCG91501 – 915 MHz Wireless Charging Grip

### PRODUCT DESCRIPTION

The Powercast Wireless Charging Grip (WCG91501) has been designed to charge its internal battery wirelessly while in range of a 915MHz RF Transmitter (such as the PowerSpot® TX91503 RF Wireless Power Transmitter). The Wireless Charging Grip uses this stored, wirelessly harvested power to recharge attached Joy-Con controllers. The WCG91501 is made out of durable plastic and designed to comfortably house Joy-Con controllers for wireless recharging and for enhanced game play. An optional USB-C connector can provide DC power to charge the WCG91501 at a more rapid rate. The WCG91501 includes a status LED to provide feedback on battery and charging status. Once Joy-Con controllers are properly mounted, the WCG91501 begins charging the controllers from its internal battery.

### APPLICATIONS

- Wireless Charging of Joy-Cons
- Gaming Controller

### FEATURES

- FCC approved
- Wirelessly rechargeable
- Comfortable feel
- Extends Joy-Con battery life
- Wide charging area

### PRODUCT CONTENTS

The following items are included:

| Qty | Description |
|---|---|
| 1 | Wireless Charging Grip |
| 1 | Quick Start instruction card |

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**Powercast products and technology are covered by one or more of the following patents and other patents pending:**
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**7,925,308 | 8,159,090 | 8,350,255 | 8,432,062 | 8,461,817 | 8,621,245 | 9,000,616 | 9,021,277 | 9,107,579 | 9,251,699 | 9,706,924**

## COMPONENT FEATURES

Fig. 1: WCG91501 features

## SET-UP AND OPERATION

1. Mount or place the RF transmitter in the desired location with the Powercast logo and status LED facing the direction of where the WCG91501 will be placed.
2. Turn the WCG91501 upside-down and flip the switch to the on position.
3. Slide the Joy-Con controllers downward into the brackets. The Joy-Cons will lightly click into place once secured.
4. Place the WCG91501 within 2 ft of the transmitter with the USB-C connector facing the transmitter, as seen below in Fig. 2.

Fig.2: WCG91501 recharging orientation

5. Charging performance and status is communicated by the LED indicator on the WCG91501. See the table below for details.

The status LED indicates the following operating conditions:

| LED | Status | Description |
|---|---|---|
| Off | Not Charging or Off | WCG91501 is not charging, is powered off via the rear switch, or the internal battery is extremely discharged |
| Single blink Green | Preferred Charging | WCG91501 is charging wirelessly at a high rate |
| Single blink Yellow | Fair Charging | WCG91501 is charging wirelessly at a fair rate |
| Single blink Red | Poor Charging | WCG91501 is charging wirelessly at a low rate |
| Blue | Wired Charging | WCG91501 is charging via the USB-C port |
| Double blink Green | Fully Charged | WCG91501 internal battery is fully charged |
| Double blink Red | Low Battery | WCG91501 internal battery is low and recharging is needed |
| Blue with Double blink Green | Fully Charged | WCG91501 is fully charged with USB-C connected |
| Blue with Double blink Red | Low Battery | WCG91501 internal battery is low and charging via USB-C port |

6. Use the WCG91501 to house the Joy-Con controllers during game play.
7. When done playing, return the WCG91501 to the front of the transmitter for recharging.

Notes:

1. If the WCG91501 LED does not respond when placed in front of the transmitter, verify that the switch on the back of the device is turned on. If the LED still does not respond turn the switch off for 5 seconds and then turn it back on. If the LED still does not respond the battery could be fully depleted. Place the WCG91501 in front of the PowerSpot TX91503 RF Wireless Power Transmitter and enable the transmitter manually by pressing the button on top. See the PowerSpot TX91503 instruction manual for more information.
2. When the WCG91501 will not be used for a long period of time, turn the rear switch off to avoid discharging or potentially damaging the internal battery.
3. If a firmware upgrade is available for your WCG91501, turn the switch off on the back and insert a USB-C cable. Turn the switch on and within 2 minutes, utilize the recommended mobile phone application to connect to the WCG91501 and upload the firmware upgrade. Once the upgrade is complete, remove the USB-C cable and turn the switch off and then back on.
4. The WCG91501 will only charge the inserted Joy-Con controllers if the WCG91501 internal battery has adequate charge. The Joy-Con controllers will automatically begin charging from the WCG91501 once the internal battery has been recharged to the required level. Note if the internal battery is extremely discharged causing the LED to not indicate charge status, the PowerSpot TX91503 RF Wireless Power Transmitter can be manually enabled for charging by pressing the button.

## SPECIFICATIONS

| Item | Description |
|---|---|
| Communication | Bluetooth Low Energy (BLE) |
| Approvals | United States - FCC ID: YESWCG91501<br>Canada – IC ID: 8985A-WCG91501 |
| Operating Temperature | 0°C to 40°C |
| Environment | Indoor use only |
| Color | Black |
| Dimensions | 6.2” × 4.6” × 1.8” (157.5 x 116.8 x 45.7 mm) |

## SUPPORT

Technical support for Powercast products can be initiated through the following methods:

Website contact form: http://www.powercastco.com/contact/

Telephone: +1 412-455-5800

## COMPLIANCE STATEMENTS

Changes or modifications not expressly approved by Powercast could void the user's authority to operate the equipment. Use and maintain device only as specified in this manual.

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 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.

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.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**WARNING!**

**FCC and IC Radiation Exposure Statement:**

This portable equipment with its antenna complies with FCC's and IC's RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance follow the instructions below:

1. This device must not be collocated or operating in conjunction with any other antenna or transmitter.
2. Avoid direct contact to the antenna, or keep contact to a minimum while using this equipment.

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