

## DLS Power Meter User Guide

Version 1.2

### Brief introduction:

DLS is a pair of power meter module installed on bicycle crank. It can measure the power and cadence of the left and right side. DLS has dual protocol of ANT+ and Bluetooth, which can easily link various bike computers and mobile phone APPs. DLS is powered by built-in lithium-ion battery, which are charged using a dedicated charging cable.

### Specifications:

Data: power, cadence , left/right balance

Power measurement accuracy: + / - 2%

Power measurement range: 0~1800W

Cadence measurement range: 30~180RPM

Operational Temperature: - 10 °C to 50 °C

Battery life: 120h

Standby time: More than 1 year

Waterproof Level: IP67

Data protocols: ANT+, BlueTooth4.0

Weight: 50 g

### ANT ID

The ANT ID is marked on the power meter modules. Each side has an ANT ID.

### Connection

Rotate the crank 1 to 2 cycles to make sure the power meter is waked-up while LED flashes once. Turn on bike computer, search and connect power meter directly, or input one of the two ANT ID.

### Working mode:

The DLS consists of power measurement modules on the left and right, which are connected via wireless communication. The two modules can work together (Dual side mode) or independently (Single side mode).

Working mode	LED status	occurrence	Power data
Dual side mode	Both LED off	The left and right modules are awake and connected to each other.	Power = L_Power + R_Power
Single side mode	One side LED on	The two modules are not connected to each other, or not a pair.	Power = L_Power*2 Or Power = R_Power*2
Reversely rotate the crank for more than 5 cycles to switch from single side mode to dual side mode.			

### **Sleep/wake up:**

When DLS standing still for more than 4 minutes, the power meter enters sleep state. Rotate the crank to wake it up.

### **Zeroing**

Method 1: Use bike computer

When the power meter is awakened, make the crank vertical to the ground, hands and feet leave the pedal, and press the zero button of the bike computer to make the power meter zeroing.

Method 2: Reverse rotate

DLS provide a special and easy method for zeroing. Reverse rotate the crank by hand (while the crank is in no payload status) more than 6 cycles. Then the zeroing operation is finished.

### **Charging:**

Please use the standard 5V USB power supply and the dedicated magnetic charge cable to charge the DLS.

When charging, the LED is on. LED turns off when fully charged which may cost about 2~3 hours.

## **FCC Statement**

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.

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.