

S-001 型单人版无线激光计时器使用说明

一、概述

S-001 型无线激光计时器是东莞市炫影体育科技有限公司的专利系列产品之一，本产品结构简单，操作方便，计时精准，安全可靠。适用于一般竞速类体育训练及比赛计时。

二、硬件组成及参数

1. 起点激光发射器（配激光反射板一块），终点激光发射器（配激光反射板一块），6 位 LED 高亮显示屏，支架 5 个，夹具 5 个，天线 3 条，电源线 3 根。
2. 激光发射器与显示器均采用 5V 直流电源（充电宝）供电。
3. 可测试人或者物体在起点和终点间行进的精确时间，可精确到千分之一秒。
4. 设备之间使用 2.4g 无线通讯，有效通信距离最大可达 500 米（强电磁干扰或遮挡物或对通信距离、通信效果可能存在影响），一般情况，200-300 米内都可以稳定通讯。

三、设备的架设、调试与使用

1. 将起点激光发射器和反射板架设到起点，终点激光发射器和反射板架设到终点，显示屏可设置到任意方便观察的位置，三个设备需分别相距 2 米以外，全部设备需要装上天线，通过电源线接上充电宝 5V 2A 的 USB 接口（充电宝需客户自备），确保两个激光发射器的激光点都能落在对应的反射板上，并在显示屏侧面的电源线接口下方按下复位键，保持约 1 秒，此时显示屏“滴”一声，系统复位归零，屏幕上的六个零常亮，系统进入待机状态，此时如触发行进，系统开始计时，再触发行进，系统停止计时，显示屏显示时间。
2. 如需再次测试，可重复触发行进，此时屏幕自动归零并开始计时，经过终点激光则停止计时，显示屏显示时间。
3. 如需要在开始计时之后，还未到达终点之前重新开始计时，可在显示屏端的电源线接口上方按下复位键，此时显示屏“滴”一声，系统复位归零，屏幕上的六个零常亮，系统会重新进入待机状态。

客户可也通过互联网，点击查看设备的安装及操作视频，附设备操作视频：

中国大陆地区客户可点击：http://www.iqiyi.com/v_19rxkocyio.html

中国其他地区及国外客户可点击：<https://youtu.be/FXm7Z-d1vQg>

请注意：由于激光的特殊性，激光传感器的最佳触发距离是距离激光发射头 0.5-3 米，您可以根据自己的实际需求去摆放架设。

四、安全与注意事项

1. 本产品使用过程中，注意激光发射勿对准人眼。
2. 为确保运输安全和使用方便，本设备不含电池，不含使用充电宝供电（5V 直流电，USB 接口），充电宝需要客户自行购买。在需要的时候，也可以通过其他设备的 USB 接口向设备供电。
3. 本设备的夹具接口为标准 1/4 螺丝接口，可以接驳各种高矮不同的三脚支架（一般市面上单反相机用支架的都可以），客户可以根据自己的需要，再另行购买适合高度的三脚架。

五、保修政策

本产品的电子部件保修一年，一年后如有需要维修，我们仅收取必要的硬件成本费用，不收维修费。人为损坏和自行拆装造成的故障，均不在保修范围内。

S-001 Single Version Wireless Laser Timer User Manual

● Overview

S-001 wireless laser timer is one of the patented products of Dongguan Xuanying Sports Technology Co., Ltd. This product is simple in structure, convenient in operation, accurate in timing, safe and reliable. It is suitable for general racing sports training and competition timing.

● Hardware composition and parameters

1. Starting point laser transmitter (with a laser reflector), end laser transmitter (with a laser reflector), 6-digit LED highlight display, 5 brackets, 5 clamps, 3 antennas, 3 power cords .
2. Both the laser transmitter and the display are powered by 5V DC power supply (charging treasure).
3. It can test the precise time that a person or object travels between the starting point and the ending point, which can be accurate to one thousandth of a second.
4. 2.4g wireless communication is used between devices, and the effective communication distance is up to 500 meters (strong electromagnetic interference or obstructions may have an impact on the communication distance and communication effect). In general, stable communication is possible within 200-300 meters.

● Equipment erection, debugging and use

1. Set up the starting point laser transmitter and reflector to the starting point, and the ending point laser transmitter and reflector to the end point. The display screen can be set to any position that is convenient for observation. Put on the antenna, connect the USB port of the power bank 5V 2A through the power cable (the power bank needs to be prepared by the customer), make sure that the laser points of the two laser transmitters can fall on the corresponding reflector, and the power supply on the side of the display screen Press the reset button below the line interface and hold for about 1 second. At this time, the display screen makes a "beep", the system resets to zero, the six zeros on the screen are always on, and the system enters the standby state. At this time, if the starting point laser is triggered, the system starts Timing, then trigger the end laser, the system stops timing, and the display shows the time.

2. If you need to test again, you can trigger the starting point laser repeatedly. At this time, the screen will automatically reset to zero and start timing. After the end point laser, the timing will stop and the time will be displayed on the display.

3. If you need to restart the timing after starting the timing and before reaching the end point, you can press the reset button above the power cable interface on the display side. At this time, the display screen makes a beep, the system resets to zero, and the six on the screen zero is always on, and the system will re-enter the standby state.

Customers can also click to view the installation and operation video of the equipment through the Internet, and the equipment operation video is attached:

Customers in mainland China can click: http://www.iqiyi.com/v_19rxkocyio.html

Customers from other regions of China and

foreign countries can click: <https://youtu.be/FXm7Z-d1vQg>

Please note: Due to the particularity of the laser, the optimal triggering distance of the laser sensor is 0.5-3 meters away from the laser transmitter. You can place and erect it according to your actual needs.

● **safety and precautions**

1. During the use of this product, be careful not to point the laser emission at the human eye.
2. In order to ensure the safety of transportation and the convenience of use, this device does not contain batteries, and does not include the use of power bank (5V DC, USB interface), and the power bank needs to be purchased by the customer. When needed, power can also be supplied to the device through the USB interface of other devices.
3. The fixture interface of this device is a standard 1/4 screw interface, which can be connected to a variety of tripod brackets of different heights (generally those that can be used by SLR cameras on the market can be used), customers can purchase them according to their own needs. High tripod.

● **Warranty Policy**

The electronic parts of this product are guaranteed for one year. If maintenance is required after one year, we only charge the necessary hardware cost and no maintenance fee. Man-made damage and failures caused by self-disassembly are not covered by the warranty.

FCC WARNING

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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.