

Ousmile YS-LSTM-S1

Ousmile Wireless Laser Timer YS-LSTM-S1 Instruction Manual

Model: YS-LSTM-S1

1. PRODUCT OVERVIEW

The Ousmile Wireless Laser Timer YS-LSTM-S1 is designed for precise timing in various athletic activities, including sprints, track and field, and speed training. This system utilizes a laser beam to accurately start and stop the timer, eliminating human error associated with manual stopwatches. Its wireless design and long battery life make it suitable for extended training sessions both indoors and outdoors.

Key Features:

- **Wireless Operation:** No external power bank required; simply turn on the power switch to begin operation.
- **Extended Battery Life:** Provides up to 10 hours of continuous use on a single charge, supporting all-day training needs.
- **Bright LED Display:** Features a clear and bright LED digital tube display, ensuring visibility of times in various lighting conditions, including direct sunlight.
- **Stable Signal:** Engineered to resist interference from visible light, maintaining reliable performance even in bright outdoor environments.
- **Portable Design:** Includes an aluminum suitcase for convenient storage and transport of all components to different training locations.



Image 1.1: The Ousmile Wireless Laser Timer (right) and its reflector (left), each mounted on a tripod.

2. PACKAGE CONTENTS

Verify that all components listed below are included in your package. If any items are missing or damaged, please contact customer support.

- Timer Unit (x1)
- Reflector (x1)
- Mini Tripod Stands (x2)
- Charger and Cable (x1)
- User Manual (x1)



Image 2.1: All components included in the Ousmile Wireless Laser Timer package: timer, reflector, two stands, charger/cable, and user manual.

Video 2.1: This video demonstrates the unboxing of the Ousmile Laser Timer, showing all included components.

3. SETUP INSTRUCTIONS

Follow these steps to set up your Ousmile Wireless Laser Timer for use.

1. **Install the Timer on a Stand:** Screw the timer unit onto one of the provided mini tripod stands. Ensure it is securely fastened.
2. **Install the Reflector on a Stand:** Attach the reflector to the second mini tripod stand. The reflector should be positioned to face the timer unit.
3. **Position the Units:** Place the timer and reflector on a flat, stable surface at the desired start/finish line. Ensure the laser beam from the timer is aligned with the reflector. The laser indicator on the timer will turn off when proper alignment is achieved.
4. **Power On:** Locate the power switch on the side of the timer unit. Press and hold the power switch for approximately 2 seconds to turn on the device. The LED display will illuminate.
5. **Check Battery Level:** Upon powering on, the timer display will show the battery level (e.g., "1 100" for full charge).



Image 3.1: Close-up view of the timer unit's power switch and the reflector's design.

4. OPERATING INSTRUCTIONS

The Ousmile Wireless Laser Timer operates by detecting interruptions in its laser beam. The timer starts when the beam is first broken and stops when it is broken a second time.

1. **Initial Setup:** Ensure the timer and reflector are correctly positioned and powered on, with the laser beam aligned (laser indicator off). The display should show "0.000".
2. **Start Timing:** When an object (e.g., a runner) breaks the laser beam for the first time, the timer will automatically start counting.
3. **Stop Timing:** When the same object breaks the laser beam for the second time, the timer will stop, and the final time will be displayed.
4. **Resetting the Timer:** To reset the timer for a new measurement, press and hold the "ZERO" button located on the side of the timer unit for 3 seconds. The display will return to "0.000".

Advanced Modes:

The timer supports various modes for different timing scenarios. To access these modes, press and hold the "ZERO" button for 3 seconds to enter the mode setting state. Then, press the "ZERO" button again to cycle through modes F1, F2, F3, F4, H1, and H2.

- **F1 Mode:** Standard single-trigger timing (default).
- **F2 Mode:** Multi-trigger timing mode (details not specified in manual, refer to advanced documentation if available).
- **F3/F4 Modes:** These modes are typically used when connecting multiple timer units for complex timing setups (not applicable for a single timer unit).
- **H1 Mode:** Displays cumulative accumulated time.
- **H2 Mode:** Displays individual lap times.

After selecting a mode, power cycle the timer to apply the setting. To return to F1 mode, power cycle the timer while in F2 mode.



Image 4.1: The Ousmile Wireless Laser Timer set up on a running track, demonstrating its application in speed training.

5. CHARGING AND BATTERY INFORMATION

The timer unit is equipped with a rechargeable battery for wireless operation.

- **Charging:** Use only the included charger and cable to charge the timer. Connect the cable to the charging port on the timer and plug the charger into a standard power outlet (5V, 1A-2A).
- **Charging Indicator:** A red light will illuminate during charging and turn off once the battery is fully charged.
- **Battery Life:** A full charge typically provides up to 10 hours of operational time.
- **Battery Level Display:** The timer displays the current battery level upon startup (e.g., "1 100" for 100%).

Rechargeable Battery

Charge for **4** hours

Use for **10** hours



Image 5.1: The timer unit showing its rechargeable battery feature, indicating 4 hours of charge time for 10 hours of use.

6. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your laser timer.

- **Cleaning:** Use a soft, dry cloth to clean the timer and reflector. Avoid abrasive cleaners or solvents that could damage the surfaces.
- **Storage:** When not in use, store the timer and all accessories in the provided aluminum suitcase to protect them from dust, moisture, and physical damage. Store in a cool, dry place.
- **Battery Care:** To maintain battery health, avoid fully discharging the battery frequently. If storing for an extended period, charge the battery to approximately 50% every few months.

- **Environmental Conditions:** While designed for outdoor use, avoid exposing the device to extreme temperatures, heavy rain, or direct impact.

7. TROUBLESHOOTING

If you encounter issues with your Ousmile Wireless Laser Timer, refer to the following troubleshooting tips:

- **Timer Not Turning On:**
 - Ensure the battery is charged. Connect the charger and wait for the red charging indicator light to turn off.
 - Press and hold the power switch for at least 2 seconds.
- **Timer Not Registering:**
 - Verify that the laser beam from the timer is perfectly aligned with the reflector. The laser indicator light on the timer should be off when aligned. Adjust the position of the timer and reflector as needed.
 - Ensure no obstructions are blocking the laser path between the timer and reflector.
 - Check that the timer is set to the correct operating mode (e.g., F1 for standard timing).
- **Inaccurate Timing:**
 - Confirm proper alignment of the laser and reflector. Misalignment can lead to delayed or missed triggers.
 - Ensure the timer is placed on a stable surface to prevent movement during operation.
- **Charging Issues (Timer not holding charge or blinking '0'):**
 - Always use the original charger and cable provided with the device. Using third-party chargers may cause damage or improper charging.
 - If the issue persists, the battery may require service. Contact customer support.

If these steps do not resolve the issue, please contact Ousmile customer support for further assistance.

8. PRODUCT SPECIFICATIONS

| Feature | Specification |
|-------------------------------------|--|
| Brand | Ousmile |
| Model Name | YS-LSTM-S1 |
| Color | Red |
| Material | Aluminum |
| Item Weight | 3 Pounds |
| Number of Settings | 3 (Modes F1, H1, H2) |
| Item Package Dimensions (L x W x H) | 10 x 10 x 4 inches |
| Manufacturer | Hangzhou YiZhi Sports Goods Co., Ltd. |
| Included Components | Timer, Reflector, 2 Stands, Charger & Cable, User Manual |



Image 8.1: Detailed dimensions of the timer unit, stand, and carrying case.

9. WARRANTY AND SUPPORT

The Ousmile Wireless Laser Timer YS-LSTM-S1 comes with a 1-year warranty from the date of purchase.

For warranty claims, technical support, or any product-related inquiries, please contact Ousmile customer support. Ensure you have your purchase details and model number (YS-LSTM-S1) available when contacting support.