

User Manual Template (FCC)

Company: MANY WAIN ENTERPRISE CO., LTD.

Product Name: Wireless Towing Light

Model: PY-9371

1. Product Overview

This product is a wireless truck lighting control system that transmits control signals via a wireless transmitter operating in the 433 MHz band, allowing remote control of vehicle lighting functions such as running lights, left/right turn signals, brake lights, and warning lights. The products are mainly used for lighting control of trailers, trucks, engineering vehicles, and other large vehicles.

2. Package Contents

Wireless Towing lighting × 1
Wireless transmitter × 1
Wired control cable × 1
Cigarette lighter charger × 1
User manual ×1

3. Product Features

- Two mode control: Supports both 433 MHz wireless and wired control modes.
- Far distance wireless transmission: In unobstructed, open environments, wireless control distances can reach up to 80–100 meters.
- High brightness LED light source: Uses high-brightness LEDs to provide clear and reliable warning lighting.
- Rechargeable lead-acid battery: Built-in rechargeable lead-acid battery featuring stability, safety, and fire resistance.
- Comprehensive battery protection mechanism: Equipped with multiple safety protection features, including:
 - UVP (Under Voltage Protection)
 - UVR (Under Voltage Recovery)
 - OVP (Over Voltage Protection)
 - Charge Timeout (7 Hours)
 - Charge OTP (Over Temperature Protection)
 - CC-CV Charging: Constant current/constant voltage charging control, automatic current adjustment

4. Specifications

1) Wireless Towing Light

- Operating voltage: 12 VDC (lead-acid battery).
- Maximum output current: 2.4 A (IPK)
- Battery: 6 V / 7 Ah sealed lead-acid battery × 2 (series)
- UVP (undervoltage protection): 9.8V
- UVR (Undervoltage Recovery): 11.8V
- Battery capacity indicator light

2) Wireless Transmitter

- Operating frequency: 433 MHz

3) Wired Control Cable

- Supports **12 VDC** power for wired control.

4) Cigarette Lighter Charger

- Output voltage: 13.6 VDC
- Maximum charging current: 1.6 A
- OVP (Overvoltage Protection): 13.7V
- Charge OTP: Charger automatically shuts off charging at 150°C
- Charge Timeout Protection: 7H (reconnect and recount).
- When the battery is fully charged, the charging current is automatically adjusted

5. Installation

The wireless towing lights and wireless transmitters are paired with a unique ID before leaving factory, with no need to re-pair.
Install wireless truck lights fixedly at the appropriate rear of the vehicle.
Install the wireless transmitter in the vehicle according to the installation instructions.

6. Operation

After installation, press the red power switch on the wireless towing light to start the system. Once activated, the system can normally control functions such as running lights, left/right turn signals, and brake lights.

- ☐ The brake light of this product also functions as a warning light. To switch the warning light flashing mode, press the Yellow Warning Light Mode Switch button to sequentially switch between the following modes:

- Off
- Single Flash
- Double Flash

- Tripple Flash
- Quad Flash

☐ The system features a battery level indicator:

- **Full battery:** The yellow-green indicator light goes off.
- **Battery about 50% remaining:** yellow-green indicator light flashing.
- **Low battery:** The yellow-green indicator light will continue to flash, and the system will automatically shut off to protect the battery. At this point, please use the included cigarette lighter charger to charge.
- **Note: This product does not support simultaneous charging.**

☐ When using the Wired Control Cable, the system is powered directly by the vehicle's 12 VDC power supply, eliminating the need for built-in batteries in the wireless towing lights. All lighting functions can be controlled directly from the vehicle's power supply.

7. Safety Information

- Do not disassemble the product yourself.
- Do not throw into fire.
- Do not use non-original chargers.
- Please charge regularly when not in use for extended periods.
- Do not charge in high-temperature environments.

8. Federal Communication Commission Interference 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 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.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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.