

## YoLink YS1604+2YS7805

# YoLink Outdoor Motion Sensor Kit User Manual

MODEL: YS1604+2YS7805 | BRAND: YO LINK

## 1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your YoLink Outdoor Motion Sensor Kit. This kit includes two YoLink Outdoor Motion Sensors (Model YS7805) and one YoLink SpeakerHub (Model YS1604), designed to enhance your property's security and convenience through advanced LoRa wireless technology.



Figure 1: YoLink Outdoor Motion Sensor Kit components.

## 2. Product Overview

### 2.1 YoLink Outdoor Motion Sensor (Model YS7805)

The YoLink Outdoor Motion Sensor is a battery-powered, passive infrared (PIR) sensor designed for outdoor use. It detects motion from vehicles and people, providing alerts for driveway and perimeter security. Its robust IP67-rated enclosure ensures durability in various weather conditions.

# protect your perimeter



with economical and easy to install security sensors from YoLink

Figure 2: YoLink Outdoor Motion Sensor (Model YS7805) features.

- **Indoor/Outdoor Use:** Suitable for both indoor and outdoor environments.
- **IP67 Rated Enclosure:** Provides protection against dust and water immersion.
- **Detection Range:** Up to 30 feet.
- **Coverage:** 80° horizontal, 20° vertical.
- **Wireless Range:** Up to 1/4 mile (open-air) using LoRa technology.
- **Battery Life:** Up to 2+ years typical service with AA batteries.

## 2.2 YoLink SpeakerHub (Model YS1604)

The SpeakerHub acts as an audio gateway for your YoLink devices, providing audible alerts and text-to-speech capabilities. It can play pre-defined tones, sounds, uploaded MP3 files, and read out messages from alerts, enhancing your notification system.



# Outdoor Motion Sensor

MODEL YS7805



- Indoor/Outdoor motion sensor
- IP67 outdoor rated enclosure
- Small form factor: <3 inches across
- Up to 30' detection range
- 80° horizontal, 20° vertical coverage
- Up to ¼ mile open-air wireless range
- 2+ year standby battery life
- Email, SMS, push notifications
- Audio notifications w/SpeakerHub
- Control-D2D device-to-device pairing for no-internet/no-power device control
- Compatible with Alexa, IFTTT, Home Assistant
- A YoLink hub is required for full functionality

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Figure 3: YoLink SpeakerHub (Model YS1604) overview.

- **Audio Hub:** Features a built-in speaker for audible notifications.
- **Text-to-Speech:** Converts alert messages into spoken words.
- **Customizable Audio:** Plays from a library of tones/sounds or user-uploaded MP3 files.
- **Power:** USB-powered.
- **Connectivity:** Requires a 2.4GHz Wi-Fi internet connection.
- **Compatibility:** Compatible with all YoLink hubs and devices.

## 2.3 System Features

- **Long-Range LoRa Wireless:** Offers extended communication range, ideal for large properties.
- **D2D Direct Pairing:** Allows devices to communicate directly without internet or power, ensuring reliability.
- **Flexible Notifications:** Receive app push notifications, emails, and SMS alerts.
- **Smart Home Integration:** Create Alexa routines or link with other YoLink devices for automated actions like chimes, lights, and sirens.
- **Expandable Ecosystem:** The SpeakerHub supports over 300 devices, allowing for future expansion of your smart home system.

## 3. Setup

Setting up your YoLink Outdoor Motion Sensor Kit is a straightforward process. Ensure you have the YoLink

app installed on your smartphone (available for iOS and Android).

1. **Unpack Components:** Carefully remove all items from the packaging.
2. **Install Batteries in Motion Sensors:** Each Outdoor Motion Sensor requires 2 AA batteries (included). Open the battery compartment and insert the batteries, observing polarity.
3. **Power On SpeakerHub:** Connect the SpeakerHub to a power source using the provided USB cable and adapter. The power indicator light will illuminate.
4. **Download YoLink App:** If you haven't already, download the YoLink app from your device's app store.
5. **Add Devices to App:** Open the YoLink app and follow the on-screen instructions to add your SpeakerHub and Motion Sensors. This typically involves scanning a QR code on each device for quick pairing.
6. **Mount Motion Sensors:** Choose appropriate locations for your motion sensors, such as driveways, gates, or remote buildings. The sensors come with simple mounting hardware. Ensure the sensor has a clear line of sight to the area you wish to monitor.

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Video 1: Building Your Smart Home with YoLink. This video provides a general overview of YoLink products and their setup process, demonstrating how various sensors and hubs integrate into a smart home system.

## 4. Operation

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Once your devices are set up, you can begin utilizing the kit's features for enhanced security and convenience.

### 4.1 Motion Detection and Alerts

The Outdoor Motion Sensors detect movement within their specified range. Upon detection, the system can trigger various notifications:

- **App Push Notifications:** Instant alerts sent to your smartphone.
- **Email Alerts:** Notifications sent to your registered email address.
- **SMS Alerts:** Text messages sent to your phone (limited free messages per month).
- **Audible Alerts (via SpeakerHub):** The SpeakerHub will play a pre-selected tone, sound, or text-to-speech message, such as "Motion Detected in Driveway!"

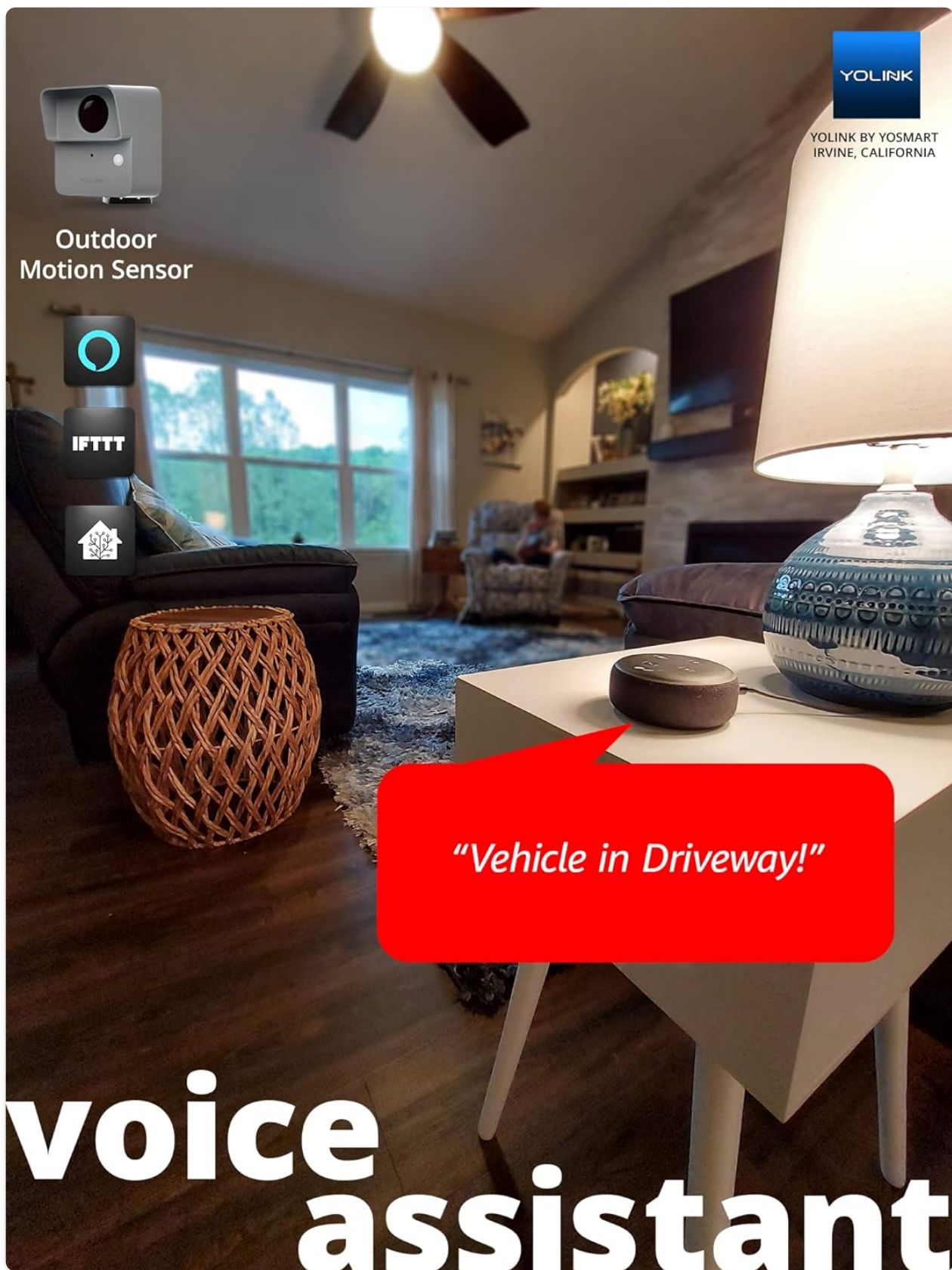


Figure 4: SpeakerHub providing an audible alert for motion detection.

## 4.2 Smart Home Integration and Automation

The YoLink system integrates with popular smart home platforms and allows for advanced automation:

- **Alexa Routines:** Create custom routines with Amazon Alexa to trigger actions based on motion detection (e.g., "Alexa, a vehicle is in the driveway!").
- **IFTTT & Home Assistant:** Compatible with IFTTT (If This Then That) and Home Assistant for broader automation possibilities.

- **Device-to-Device (D2D) Pairing:** Directly link two or more YoLink devices to perform actions without relying on internet connectivity or the app. For example, a motion sensor could directly trigger a YoLink siren or light.

## Lighting Control & Automation

Automate and control lighting by schedule, dusk-to-dawn, motion detection, device action (e.g. door opening), from the app and from a smart fob.



Figure 5: Voice assistant integration for motion alerts.

## 5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your YoLink devices.

- **Battery Replacement:** The Outdoor Motion Sensors are designed for long battery life (2+ years). When the battery level is low, you will receive a notification via the YoLink app. Replace the 2 AA batteries promptly to ensure continuous operation.
- **Cleaning:** Periodically wipe down the exterior of the motion sensors and SpeakerHub with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive materials.
- **Firmware Updates:** Ensure your devices' firmware is up-to-date through the YoLink app to benefit from the latest features and security enhancements.

## 6. Troubleshooting

If you encounter issues with your YoLink Outdoor Motion Sensor Kit, refer to the following common solutions:

Problem	Possible Cause	Solution
No motion detection alerts.	Low battery, incorrect sensor placement, or sensor out of range.	Check battery level in app and replace if necessary. Adjust sensor angle or relocate to ensure clear detection path. Verify sensor is within range of the SpeakerHub.
SpeakerHub not connecting to Wi-Fi.	Incorrect Wi-Fi password, 5GHz network, or weak signal.	Ensure correct 2.4GHz Wi-Fi network and password. Move SpeakerHub closer to the router. Restart router and SpeakerHub.
Notifications not received.	App settings, phone notifications disabled, or internet connectivity issues.	Check notification settings within the YoLink app and your phone's system settings. Ensure SpeakerHub has stable internet connection.
D2D pairing not working.	Incorrect pairing procedure.	Refer to the D2D pairing instructions in the YoLink app or online resources for the specific devices you are trying to pair.

For more detailed troubleshooting or specific issues, please refer to the official YoLink support resources or the full user guide PDF.

7. Specifications

Feature	Specification
Brand	YoLink
Model Number	YS1604+2YS7805
Color	Gray, White
Power Source	Battery Powered (Sensors), USB Powered (SpeakerHub)
Item Weight	14.7 Ounces
Maximum Range	0.25 Miles (open-air) / 1000 feet (open-air)
Mounting Type	Wall Mount
Battery Description	Alkaline (AA)
Battery Life	2 years (typical service)
Compatible Devices	Alexa, IFTTT, Home Assistant, Raedius Web Console
Product Dimensions	1.97"D x 2.6"W x 2.83"H (Motion Sensor)
Number of Batteries	4 AA batteries required (2 per sensor)
Recommended Uses	Indoor/Outdoor
Manufacturer	YoSmart
UPC	850024791824

Feature	Specification
Material	Plastic
Installation Method	Wireless DIY
Item Package Quantity	1
Usage	Outside; Professional
Included Components	Detector (Motion Sensors), SpeakerHub

## 8. Warranty and Support

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YoLink provides warranty coverage for its products:

- **SpeakerHub:** 1 Year Warranty
- **Outdoor Motion Sensor:** 2 Year Warranty

For further assistance, technical support, or to access the full user guide, please visit the official YoLink website or refer to the provided PDF document:

[Download User Guide \(PDF\)](#)