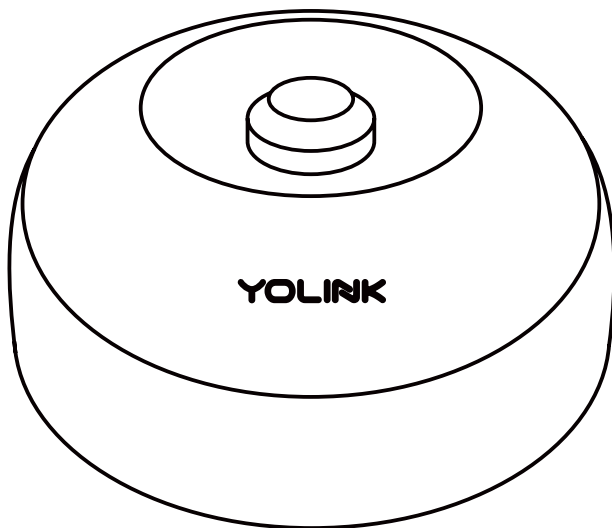




YOLINK

Motion Sensor

YS7804-UC, YS7804-EC
Installation & User Guide

Rev 1.1

Thank you for purchasing YoLink products and for entrusting us with your smart home needs! Your 100% satisfaction is our goal. If you experience any problems with setting up your new YoLink Motion Sensor, please give us a chance to assist you, before returning your purchase. We at Customer Support are here for you. If you need any assistance installing, setting up or using a YoLink product or our app.

Find additional support and ways to reach us at:



www.yosmart.com/support-and-service

Or scan this QR code with your smartphone



Email us, 24/7 at:



service@yosmart.com

Call us, 9AM to 5PM Pacific Standard Time at:



(949) 825-5958

You may chat with us on Facebook (non-urgent matters):



www.facebook.com/YoLinkbyYoSmart

Sincerely,

Queenie, Clair, James, Eric

Customer Support Team

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Revised: 05/07/2021

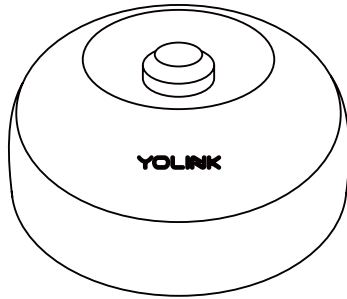
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A. In the Box

A. Motion Sensor (and Mounting Plate)

B. Quick Start Guide

A.

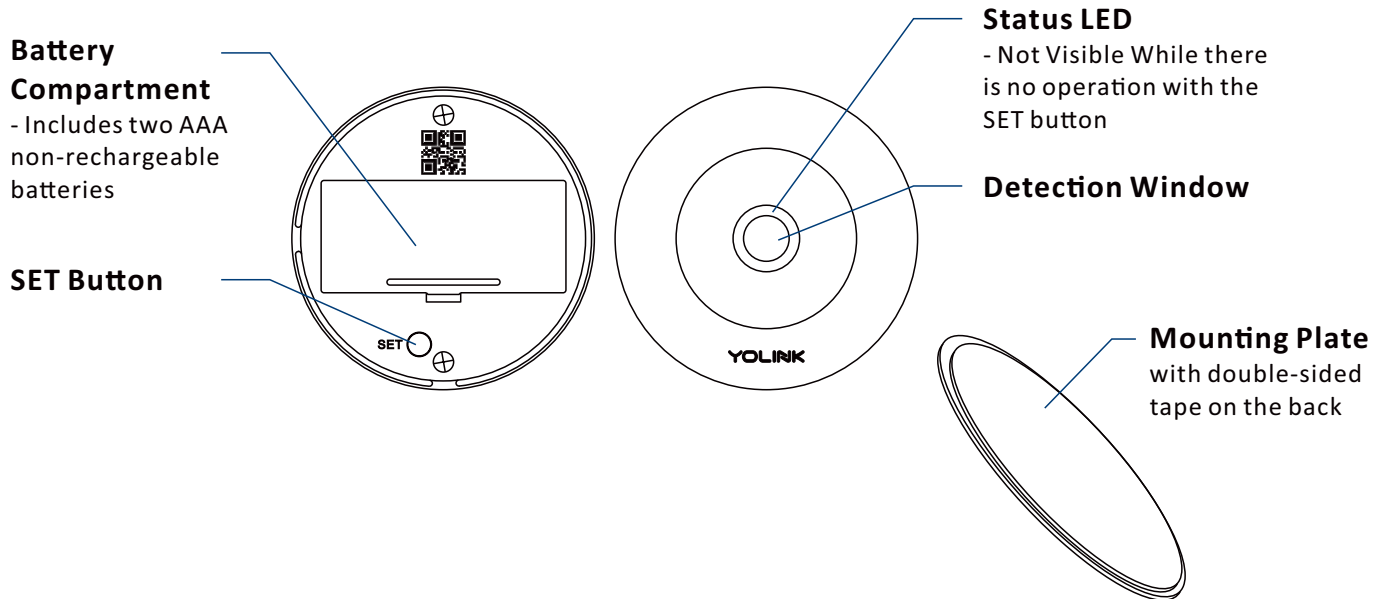


B.

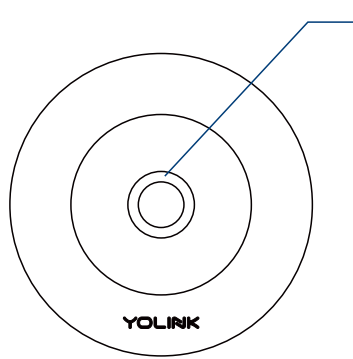


B. Introduction

The Motion Sensor can be used to detect motion in an area, and based on the presence or absence of motion it can trigger actions by other devices. Actions may include turning on a light, activating a siren and/or sending a notification via the YoLink app. (Available notification types are: email, text/SMS and banner notifications on your Apple or Android smartphone, each configurable in app settings.)



The LED light indicates the current status of the sensor:



-  **Blinking Red Once, then Green Once**
Device turned on
-  **Blinking Red And Green Alternately**
Restoring to Factory Defaults
-  **Blinking Green**
Connecting to Cloud
-  **Slow Blinking Green**
Updating
-  **Fast Blinking Green**
Establishing Connection with YoLink System (YoLink *Control*)
-  **Blinking Red Once**
Device alerts or device is connected to the cloud and is functioning normally
-  **Fast Blinking Red**
Removing Connection to YoLink System (YoLink *Control*)
-  **Fast Blinking Red Every 30 Seconds**
Batteries are low; please replace the batteries (see page 23)

C. Set Up

C-1. Set Up - First-Time YoLink Users *(Existing users proceed to C-2. Add Device, next page)*

- 1 Download the YoLink app through Apple App Store or Google Play Store (Search in the store or use the QR code on the right)



Available on the
App Store



Google Play



Apple iPhone or tablet that is iOS 9.0 or higher, or an Android phone or tablet that is Android 4.4 or higher

- 2 Log in to the YoLink app



Create a new account if required

Username

Password

Forgot Password?

SIGN IN

Sign up for an account



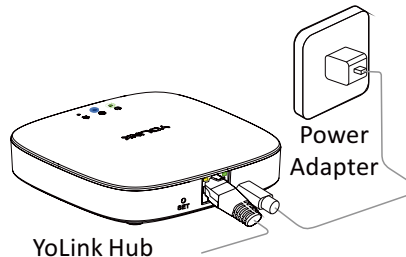
1. Make sure your Hub is connected to the internet (green LED indicator is blinking, blue LED indicator is always on)

2. Ethernet patch cable (included) to your network (router, switch, etc.), recommended. Otherwise connect your Hub to your home 2.4 GHz Wi-Fi network (only when necessary). Refer to the Hub set up manual for more information:



YS1603-UC
User Guide

- 3 The YoLink Hub is required to set up your Motion Sensor. Please set up your YoLink Hub first (refer to YoLink Hub manual)

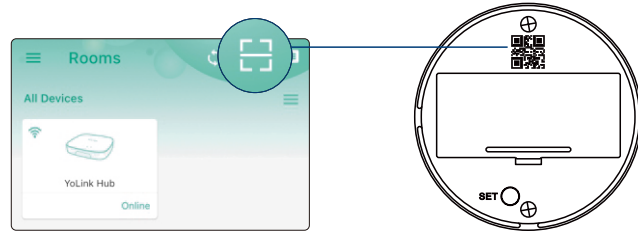


C-2. Add Device

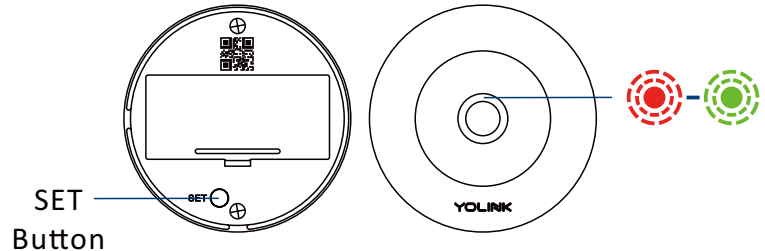
- 1 Tap “” icon, then scan QR Code on the device. Follow the steps to add the device



You must press “Bind Device” to pair the device to your account



- 2 Press the SET button once to turn on the device. The Status LED will blink red once, then green several times, indicating your device has connected to the cloud and is ready to use



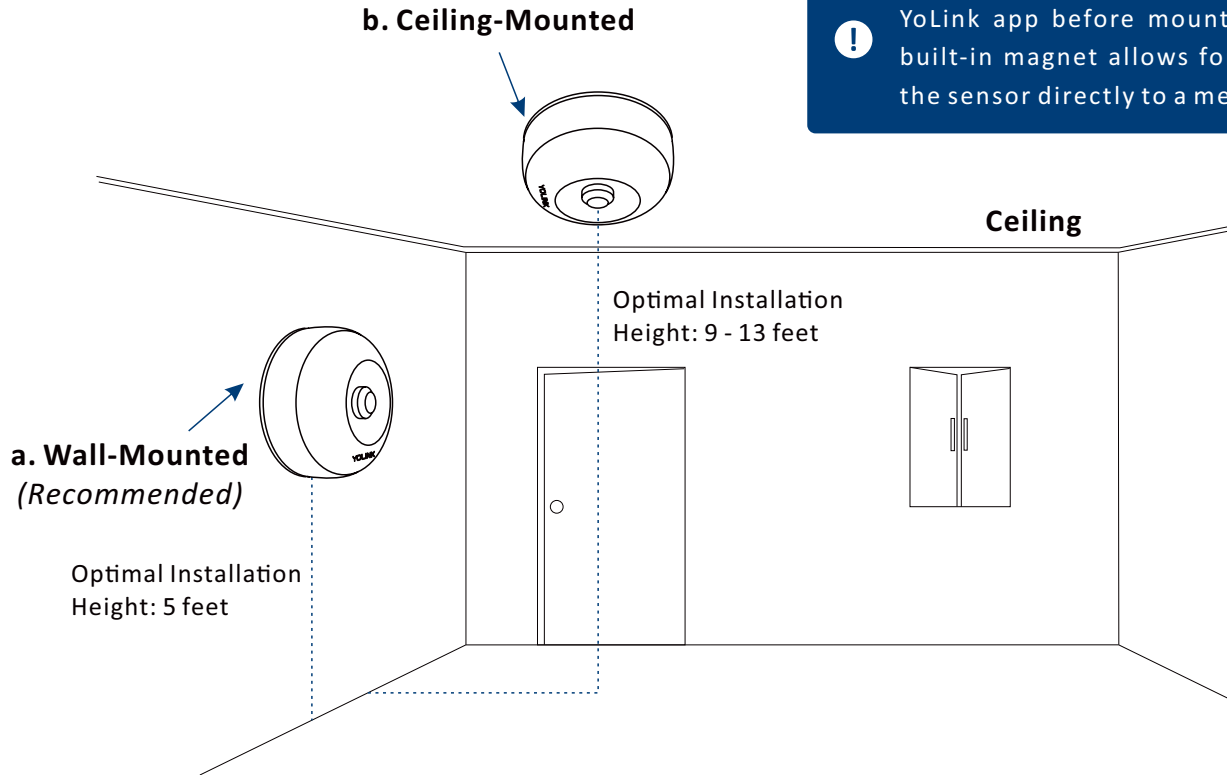
1. You will need to press the SET button once again if the device failed to connect to the cloud
2. Pressing the SET button at any other time after this initial process will result in the LED blinking red once, only. This indicates the device is connected to the cloud and is functioning normally
3. If the red LED does NOT blink as noted this may indicate a problem with the sensor. Please see the troubleshooting section and the contact section for technical support

D. Installation

D-1. Test the Motion Sensor Location Before Installation

- The mounting plate is very difficult to relocate after being affixed to the mounting surface. Test your motion sensor location before affixing the plate to the surface. Use masking or painters tape to secure the sensor to the surface, being careful to not obscure the detection window. Once you have the sensor temporarily mounted, test it out. With the app in hand, walk into the intended detection area while observing the status of the sensor as shown on the app (Motion Detected or No Motion Detected). Optionally, you may set up your automation (e.g. turn on a light on motion detection) to functionally test the motion - proceed to the following steps for information on creating automations, then return to this step
- Depending on the location, wall- or ceiling-mounting method, and the height and/or distance from your intended motion-detection area, it may be possible that your motion sensor responds slower than desired or too soon (e.g. detects you in an adjacent room, before you enter the room). Experiment with several locations until the sensor responds as desired
- The motion sensor responds best to motion **across** the **major axis** of coverage area (refer to page 8), as opposed to directly **towards** the motion sensor. This will be most apparent when wall-mounting the sensor, with the detection window aimed towards a door, which is not an ideal application
- As your sensor utilizes heat detection technology, avoid locations subject to rapid temperature changes, direct sunlight, or near heat sources such as heating registers, vents, radiators, space heaters, fireplaces, etc.

D-2. Installation Diagram *(Wall-mounted or Ceiling-mounted)*

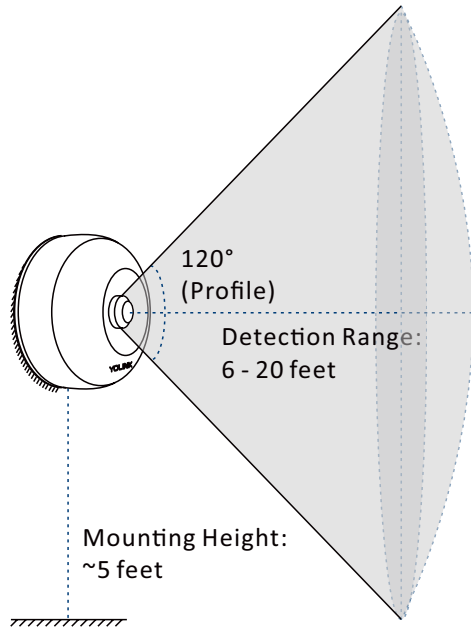


Please add the motion sensor to the YoLink app before mounting it. The built-in magnet allows for mounting the sensor directly to a metal surface

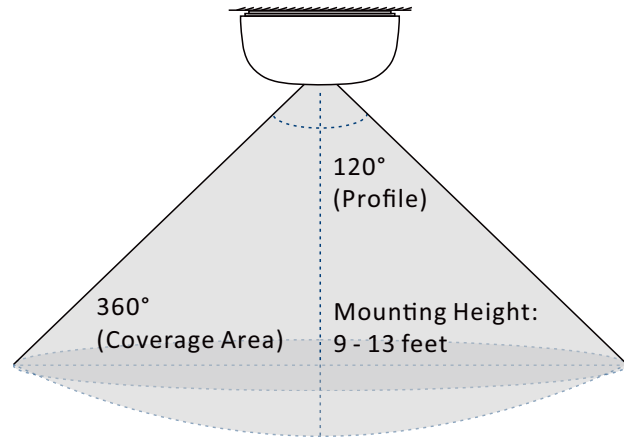
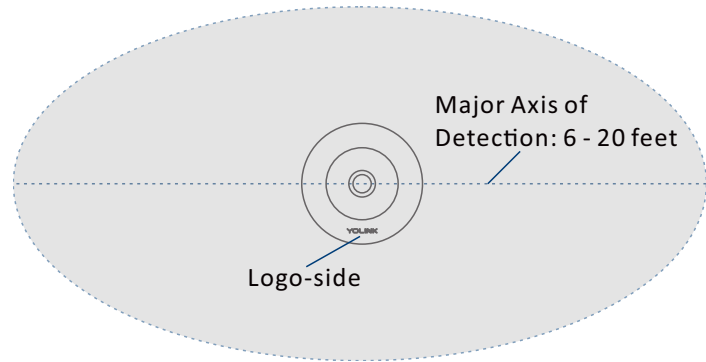
D-3. Sensor Coverage Diagram



As your sensor utilizes heat detection technology, detection and sensitivity would be decreased apparently and even would be failure for a short-time when the ambient temperature is close to the human body temperature



Wall-Mounted

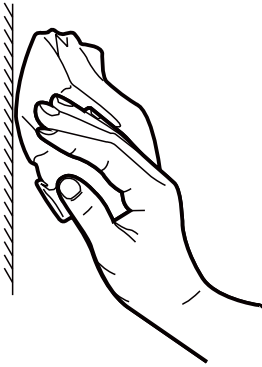


Ceiling-Mounted

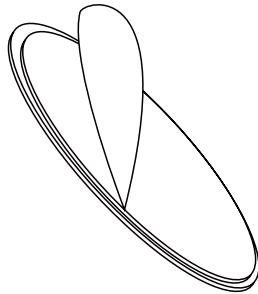
D-4. Wall- or Ceiling-Mounting

a. Wall-Mounting (*Recommended*)

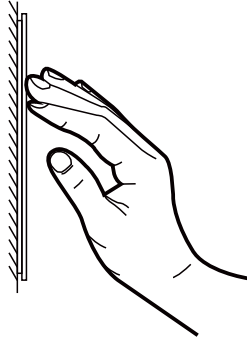
- 1 Clean the installation area



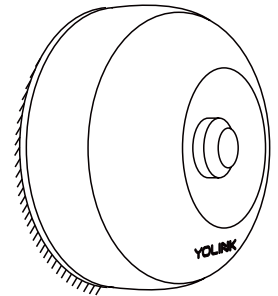
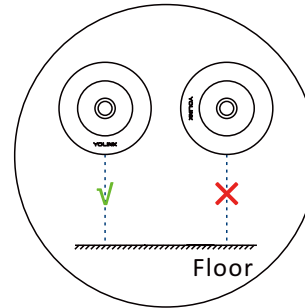
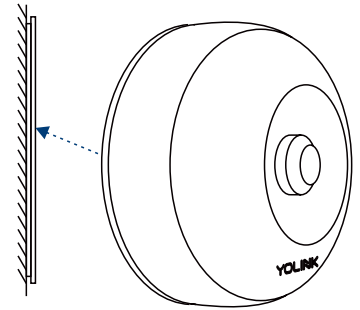
- 2 Remove the protective layer from the double-sided tape on the mounting plate, place the plate in the desired position, and press firmly for at least 5 seconds



- 3 Place the motion sensor on the mounting plate. The internal magnet should hold the sensor securely to the plate

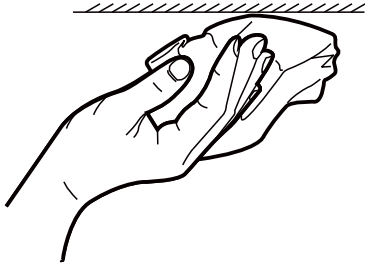


- 4 Place motion sensor on the plate securely

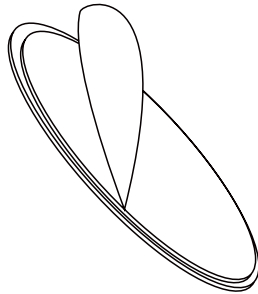


b. Ceiling-Mounting

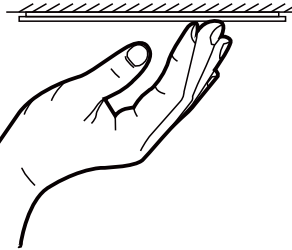
- 1 Clean the installation area



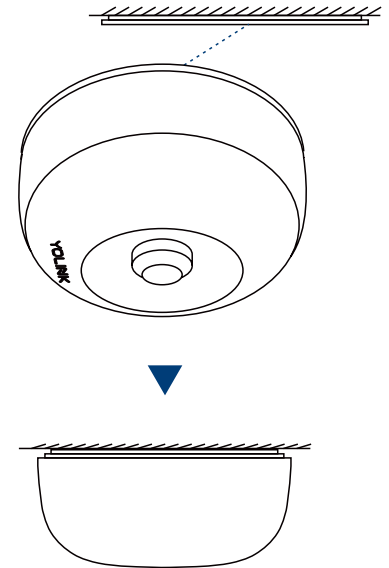
- 2 Remove the protective layer from the double-sided tape on the mounting plate, place the plate in the desired position, and press firmly for at least 5 seconds



- 3 Place the motion sensor on the mounting plate. The internal magnet should hold the sensor securely to the plate

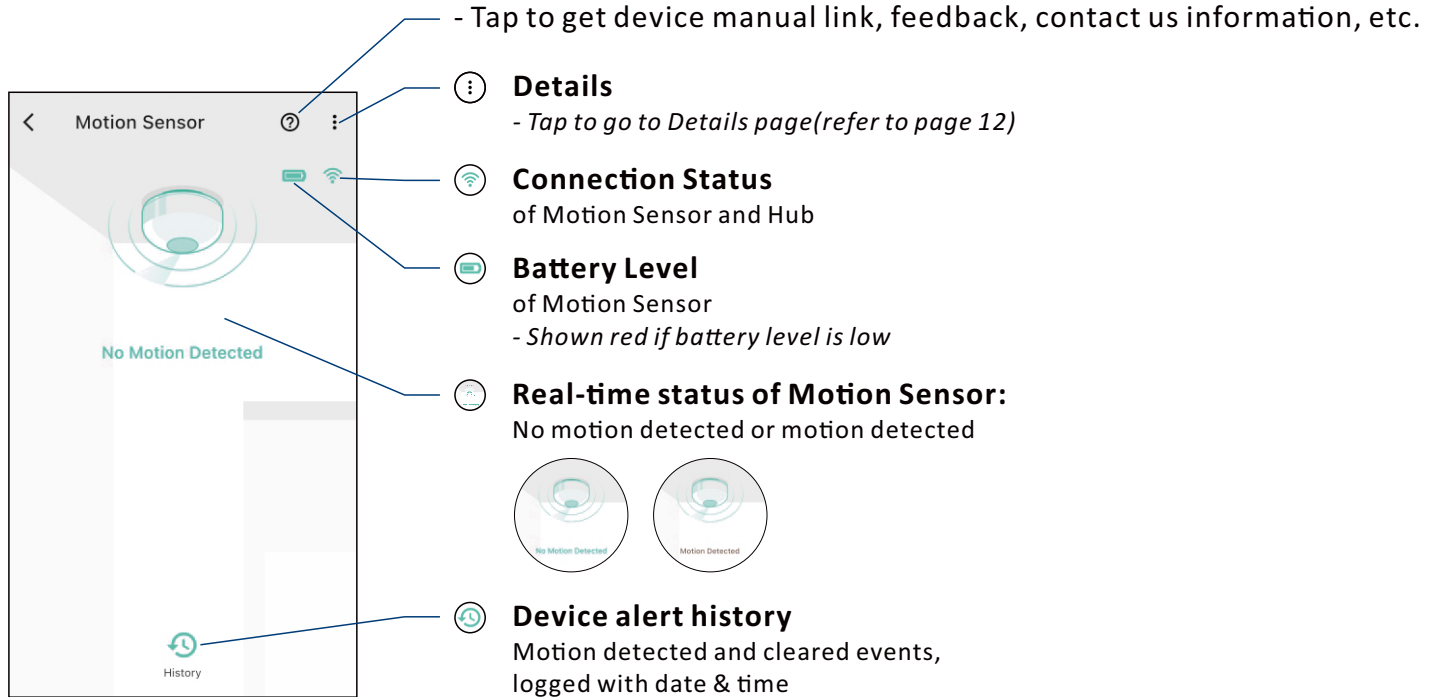


- 4 Place motion sensor on the plate securely



E. Using the YoLink App

E-1. Device Page



- Tap to get device manual link, feedback, contact us information, etc.

Details
- Tap to go to Details page(refer to page 12)

Connection Status
of Motion Sensor and Hub

Battery Level
of Motion Sensor
- Shown red if battery level is low

Real-time status of Motion Sensor:
No motion detected or motion detected

Device alert history
Motion detected and cleared events,
logged with date & time

The screenshot shows the 'Motion Sensor' device page in the YoLink app. At the top, there is a back arrow, the title 'Motion Sensor', and two icons: a question mark and a vertical ellipsis. Below the title, there is a large circular icon of a motion sensor with concentric circles around it. To the right of this icon are two smaller icons: a battery level indicator and a Wi-Fi signal strength indicator. Below the large sensor icon, the text 'No Motion Detected' is displayed in green. At the bottom left, there is a circular icon with a clock and a refresh symbol, labeled 'History'. Two callout boxes on the right side of the screen provide detailed information about each of these icons.

E-2. Details Page

< Detail ?

Type Motion Sensor

Name Motion Sensor >

Room 7804 >

Alert ☒

Alert LED light ☒
Enable/Disable LED light when alert

Favorite ☒
Will show in favorite screen

Time to enter No-Motion state Disabled >
Disable No-Motion state

Sensitivity High ▾

History >
Get device logs

State Online

- Tap to get device manual link, feedback, contact us information, etc.

a. Device Type

b. Rename the Device

c. Choose a Room for device

d. Alert settings

- Enable or disable alerts

e. Alert LED light settings

- Enable or disable LED light when device alerts

f. Add/Remove from favorites

g. Restore device to normal monitoring

status after no motion detected for a set time

- Default is 1 minute

h. Switch sensitivity of detection for the

Motion Sensor: High, Medium, Low

(Default is high)

i. Device alert history

Motion detected and cleared events, logged with date & time



After changing “Alert LED Light” “Time to enter No-Motion State” and / or “Sensitivity” settings, press the device’s SET button once, to sync the new settings to the device. Otherwise, the device will automatically update within 4 hours (maximum)

< Detail ?

State Online

Other

Model YS7804-UC

Device EUI d88b4c010002b8c3

SN 0DE6D07CC1  >

Temperature 79 °F

Signal Intensity Strong (-43 dBm)

Battery 

Firmware 0463

Delete

j. Real-time Status: Normal, Warning

k. Device model

l. Device EUI (unique)

m. Device SN (unique)

o. Connection status of sensor and Hub

n. Temperature value

- Updates when:

1. SET button pressed
2. On a device alert
3. Batteries are replaced
4. Automatically within 4 hours maximum

p. Current Battery Level

- Shown red if battery level is low

q. Firmware version

- “#### ready now” indicates a new update is available (refer to page 21)

r. Remove Device From Current Account

- Tap to delete the device from your YoLink account

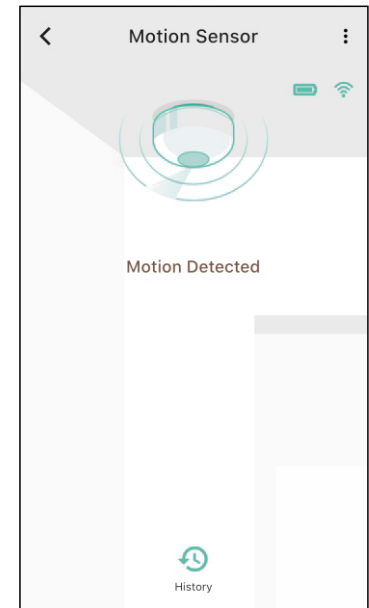
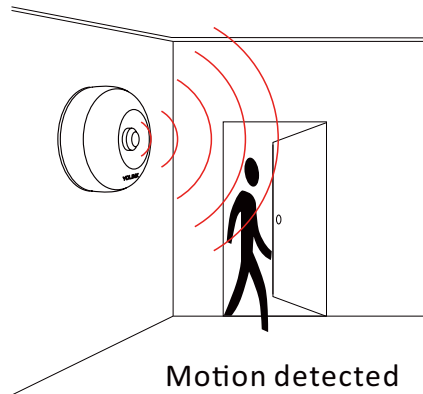
E-3. Device Alerts

- Your motion sensor may be optionally used for security/intrusion detection (rather than for the control of home lighting). Enable alerts in device settings to use your motion sensor for intrusion detection or other critical functions. Upon the detection of motion, an alert will be sent to your YoLink account



1. After the first alert, subsequent alerts will be sent every 30 minutes if the motion sensor keeps detecting motion

2. One exception is that if someone stays still in the room for more than one minute, another alert will be sent when the person starts moving again

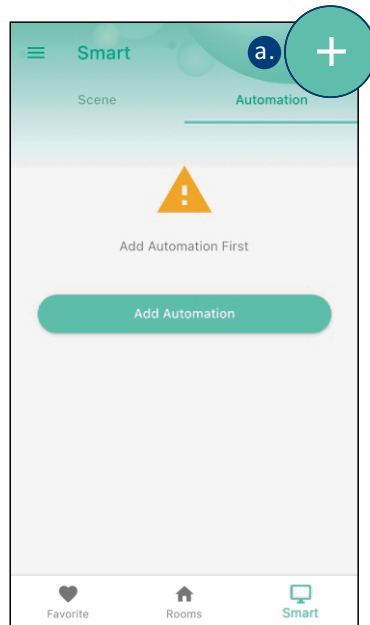


E-4. Automation

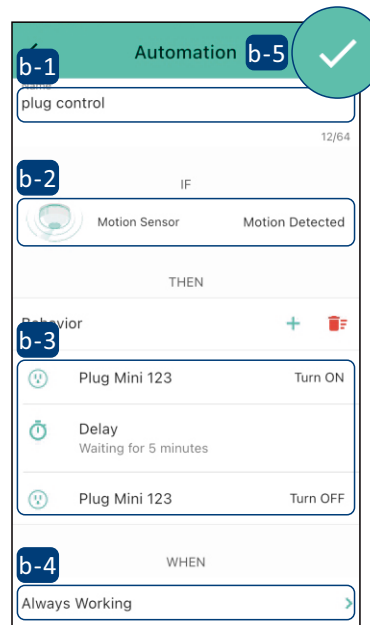
- Go to the “Smart” screen, tap “Automation”



Motion Sensor can be set as a trigger only, with two trigger options: Motion Detected; No Motion Detected



- a. Tap the “+” icon to add an automation



- b. Add an automation

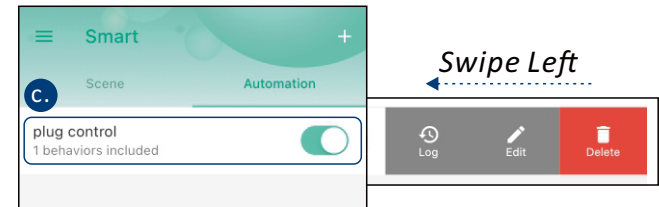
b-1 Edit name

b-2 Edit trigger

b-3 Edit behavior (*You must have at least one action device, or you cannot set a behavior*)

b-4 Edit when (*Set a time range for the automation: always or during specific days or times*)

b-5 Tap to save the settings



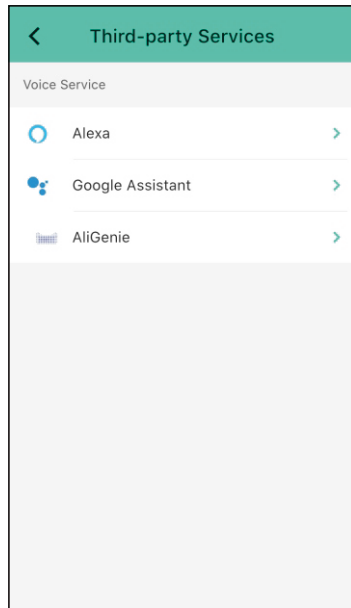
- c. Click to edit the automation

- Tap “” button to enable or disable the automation
- Swipe left to view the history logs and to edit or delete the automation

E-5. Third-party Assistants

Connect YoLink with third-party voice assistants to monitor the status of your devices through voice commands

- Tap “☰” in the upper left corner to go to My Profile
- Go to **Settings > Voice Assistants** for the applicable voice assistant integration guide



1. The Motion Sensor integrates with Alexa and IFTTT.com
2. Monitor the motion detected/no motion detected status of the Motion Sensor from the Alexa app
3. Motion detected/no motion detected status can be queried by voice command as well as the Alexa app (For example, “Alexa, what is the status of the Corridor Motion Sensor?” -- “No motion is detected of the Corridor Motion Sensor”
4. The Motion Sensor may be used as a trigger or input for Alexa routines and for custom applets (IFTTT.com)
5. For additional information specific to the platform, refer to the associated app. Visit our website at www.yosmart.com/support-and-service for additional information, or contact us via email or phone (see page 29 for Customer Support email address and phone number) information

F. About YoLink Control

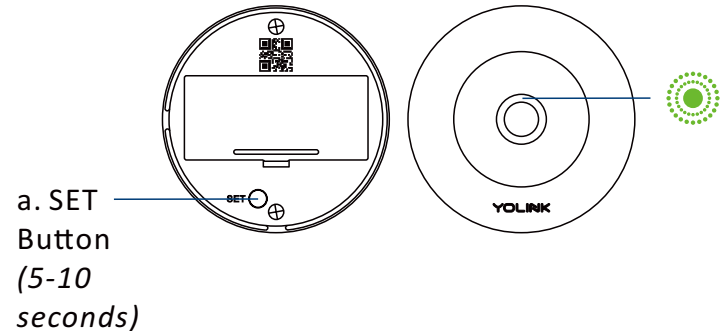
YoLink *Control* is our unique device-to-device control technology. Using YoLink *Control*, YoLink devices can be controlled without the Hub or an internet connection. (Use of YoLink *Control* is optional; you can use the Automation feature in the app OR use YoLink *Control*, but YoLink *Control* offers the benefit of operation without the Hub or internet connection.)

One device controls another, directly. A device that sends out commands is called the controller. A device that receives the commands is called the responder. Examples of a controller are a Motion Sensor or Water Leak Sensor, while examples of a responder are a Siren or a YoLink Relay

The YoLink Motion Sensor can work as the controller of YoLink *Control*

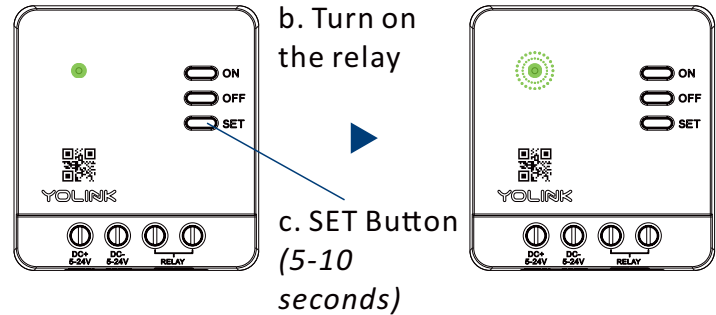
F-1. Pairing

- 1 To configure your Motion Sensor as a controller. Press and hold the SET button for 5-10 seconds until the LED quickly blinks green, then, release the button



- 2 To configure a YoLink Relay as the responder, turn on the relay using ON button or via YoLink app (verify the Status LED of YoLink Relay displays green). Press and hold the SET button for 5-10 seconds until the LED quickly blinks green, then release the button

- 3 Upon pairing, the LED will stop blinking (this may happen after only blinking two or three times)



Refer to the YoLink Relay
manual for more information:

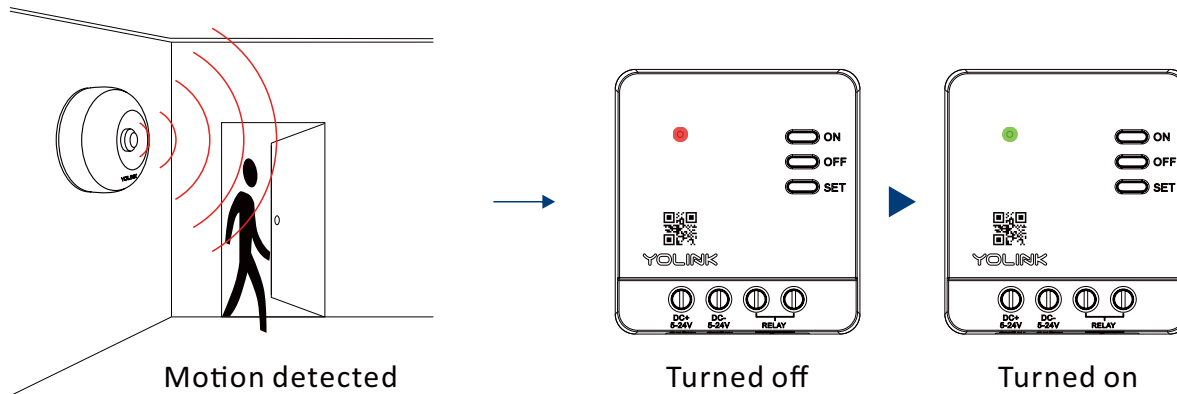


YS5706-UC
YoLink Relay

1. Hold the SET button longer than 10 seconds will ABORT the pairing operation
2. If you want to turn off the YoLink Relay when motion is detected, turn off the YoLink Relay first , and let it enter pairing mode
3. For the same Motion Sensor and YoLink Relay, you can only choose to either turn on or turn off the YoLink Relay when a motion is detected

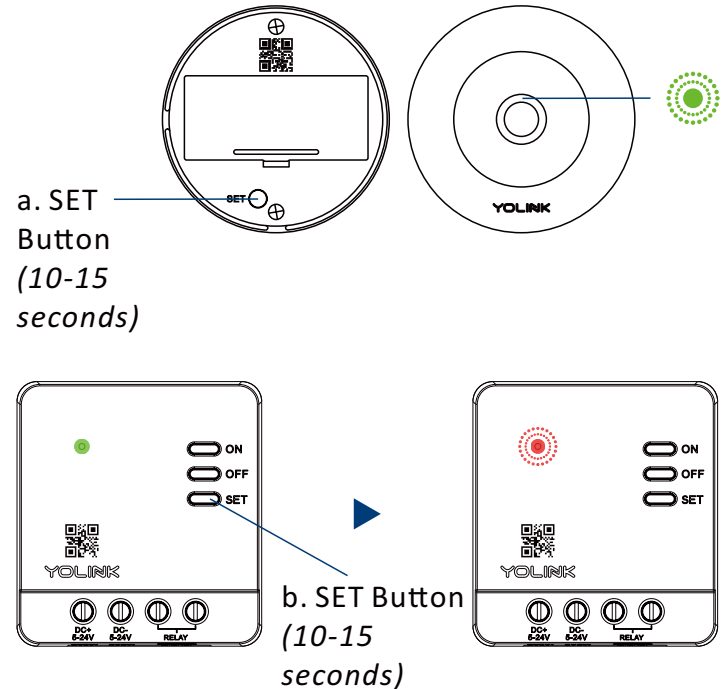
Operation

- When the Motion Sensor detects motion or activity, the YoLink Relay will now immediately turn on. The relay will remain turned on until turned off using the OFF button or via the app; the restoral of the YoLink Relay to normal (no motion detected) does not turn off the relay (however you can use Automation feature in the app to turn off the relay)
- More advanced sequences, controlling multiple outputs (e.g. turn off relay and activate siren) are available via the YoLink app



F-2. Unpairing

- ① At the Motion Sensor (controller), press and hold the SET button for 10-15 seconds until the LED quickly blinks green, then red
- ② At the YoLink Relay (responder), press and hold the POWER button for 10-15 seconds, until the LED quickly blinks green, then red
- ③ Upon un-pairing, the Motion Sensor LED will stop blinking and turn off, and the YoLink Relay LED will stop blinking and return to the previous color (green for turned on, red for turned off)
- ④ The YoLink Relay will no longer respond when a motion is detected



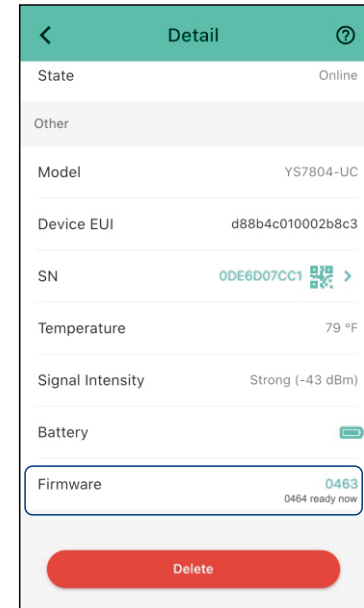
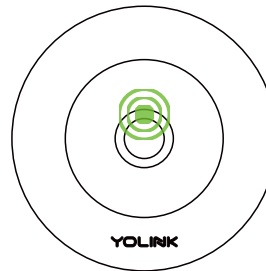
Hold the SET button longer than 15 seconds will ABORT the unpairing operation

G. Maintenance

G-1. Firmware Update

To ensure our customers have the best user experience, we highly recommend you update to the newest version firmware when an update is available

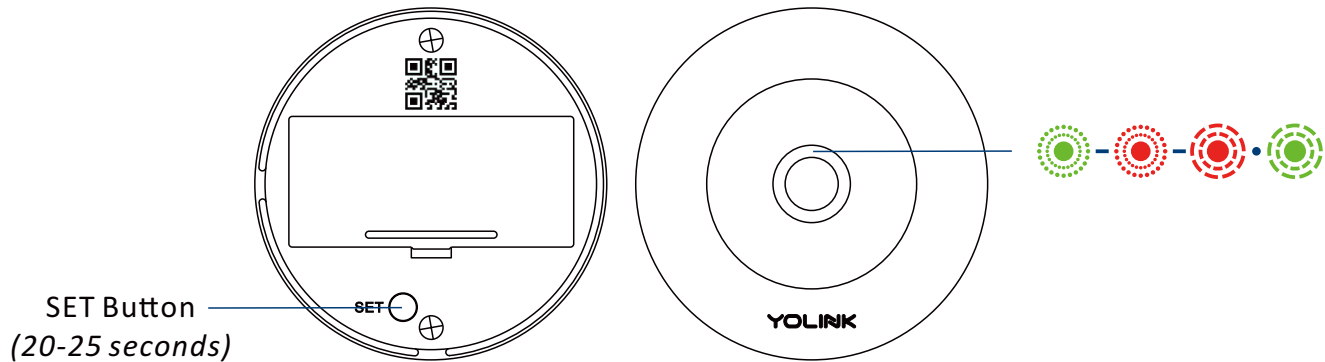
- In “Firmware”, if a new version is listed as available (#### ready now), click it to start the firmware update process
- The device’s firmware will be updated automatically within 4 hours (maximum). To force an immediate update, press the SET button on the device once to make the device enter update mode
- You may use your device during the update as it is performed in the background. The LED light will slowly blink green during the update and the process will be complete within 2 minutes after the light stops blinking



G-2. Factory Reset

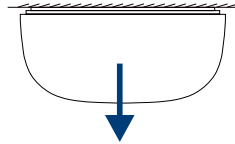
Factory reset will erase all of your settings and restore it to factory defaults. After the factory reset, your device will remain in your Yolink account

- Hold the SET button for 20-25 seconds until the status light blinks red and green alternately, then, release the button (*Hold the SET button longer than 25 seconds will ABORT the factory reset operation*)
- Factory reset will be complete when the status light stops blinking

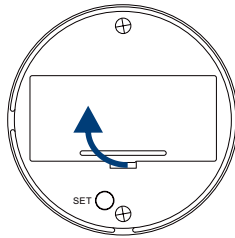


G-3. Replacing the Batteries

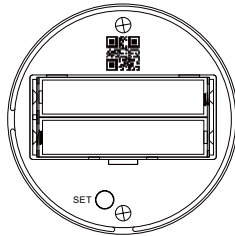
- 1 Remove the sensor from its mounting location



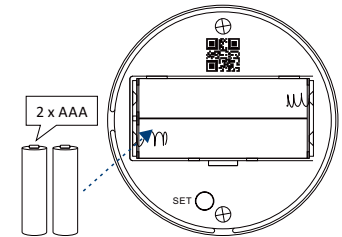
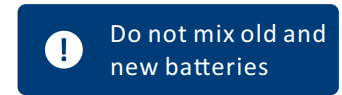
- 2 Open the battery cover



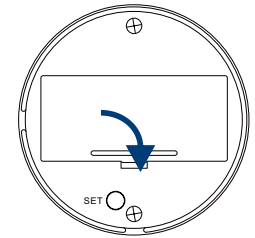
- 3 Remove the old batteries



- 4 Observing polarity, insert two new AAA batteries



- 5 Close the battery cover



- 6 Using the app, verify the sensor is online and battery with full charge

H. Specifications

Voltage:	3V DC (2 - alkaline non-rechargeable AAA batteries)
Coverage Angle:	360°(from below or above), 120° (side profile)
Optimal Installation Height:	9 - 13 feet (ceiling), 5 feet (wall)
Dimensions:	Φ2.44 x 1.10 inches (62.0 x 27.8 millimeters, Dia x D)
Environment:	Temperature: 32°F - 122°F (0°C - 50°C), <i>standard alkaline batteries</i> Temperature: -4°F - 122°F (-20°C - 50°C), <i>lithium batteries (not included, customer-supplied)</i> Humidity: 0% - 95% non-condensing

H-1. Wireless Specifications (Model: YS7804-EC)

Description:	Motion Sensor
Operation Frequency:(CE)	SRD(TX): 863.1 MHz
Max RF Output Power:(CE)	SRD: 1.51 dBm

H-2. Wireless Specifications (Model: YS7804-UC)

Description:	Motion Sensor
Operation Frequency:	SRD(TX): 910.3 MHz
Max RF Output Power:	SRD: 1.51 dBm

I. Troubleshooting

Hardware:

1. Batteries: Batteries should be brand new, name brand “AAA” alkaline type. Refer to “Warnings” Section on page 27

2. Installation: Be sure device is placed at an appropriate place. Refer to “Installation” Section on page 6

Function:

1. Device is offline

- If sensor is not connected to the cloud, press the SET button on motion sensor once
- If Hub is offline, reconnect the Hub to the Internet and press the SET button on motion sensor once
- If Hub is not on, power on the Hub again and press the SET button on motion sensor once
- If sensor is out of range with Hub, relocating the sensor or Hub may be required
- For a device with low-battery indicators or alerts or if the condition of the batteries is in question, replace the batteries with two premium “AAA” alkaline batteries

2. No alerts received or alerts are inconsistent: The interval between alerts is a default duration. Refer to “Device Alerts” section on page 14

3. Other issues, contact customer service, **1-949-825-5958 (M-F 9am - 5pm PST)** or email 24/7 at **service@yosmart.com**

J. Warning

- Please install, operate and maintain the Motion Sensor only as outlined in this manual. Improper use may damage the unit and/or void the warranty
- Use only new, name brand, alkaline non-rechargeable AAA batteries
- Do not use rechargeable batteries
- Do not use zinc blend batteries
- Do not mix new and old batteries
- Do not puncture or damage batteries. Leakage can cause harm on skin contact, and is toxic if ingested
- Do not dispose of batteries in fire as they may explode! Please follow local battery disposal procedures
- Do not install or use the sensor outside of the temperature and humidity range listed in the Environmental section in Specifications, on page 24. Lithium non-rechargeable batteries, operating in a wider temperature range, are recommended for applications on the hotter or colder end of the device's operating range (device environmental limitation can be extended to the range of -4°F - 140°F (-20°C - 60°C))
- The sensor is not waterproof and is not designed for outdoor use, avoid wet locations and do not install outside
- Please try to install the sensor in an open area, walls and other factors may affect the inductive distance and range of the sensor
- If two motion sensors are installed in one detection area, adjust the position to prevent the sensors from interfering with each other to avoid false alerts

- If your device gets dirty, please clean it by wiping it down with a clean, dry cloth. Do not use strong chemicals or detergents, which may discolor or damage the exterior and/or damage the electronics, voiding the warranty
- Do not install or use this device where it will be subjected to physical impacts and/or strong vibration. Physical damage is not covered by the warranty
- To avoid damaging the device, if storing the device for an extended period, remove the batteries
- Please contact Customer Service before attempting to repair, disassemble or modify the device, any of which can void the warranty and permanently damage the device

If you have any difficulties installing or using YoLink products, please contact our Customer Service department during business hours:

US Live Tech Support: **1-949-825-5958** M-F 9am - 5pm PST

Email: **service@yosmart.com**

YoSmart Inc. 15375 Barranca Parkway, Ste G-105 Irvine, CA 92618, USA

Warranty 2 Year Limited Electrical Warranty

YoSmart warrants to the original residential user of this product that it will be free from defects in materials and workmanship, under normal use, for 2 year from the date of purchase. User must provide a copy of original purchase receipt. This warranty does not cover abuse or misused products or products used in commercial applications. This warranty does not apply to devices that have been improperly installed, modified, put to a use other than designed, or subjected to acts of God (such as floods, lightning, earthquakes, etc.). This warranty is limited to repair or replacement of the device only at YoSmart's sole discretion. YoSmart will NOT be liable for the cost of installing, removing, nor reinstalling this product, nor direct, indirect, or consequential damages to persons or property resulting from the use of this product. This warranty only covers the cost of replacement parts or replacement units, it does not cover shipping & handling fees

To implement this warranty please give us a call during business hours at 1-949-825-5958, or visit www.yosmart.com

FCC Statement

Product Name: Motion Sensor

Model Number: YS7804-UC, YS7804-UA

Responsible Party: YoSmart Inc.

Address: 15375 Barranca Parkway, Ste G-105 Irvine, CA 92618, USA

Tel: 1-949-825-5958

E-mail: service@yosmart.com

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
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: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF radiation exposure statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. 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."

CE Mark Warning

Product Name: Motion Sensor

Model Number: YS7804-EC, YS7804-EA

Responsible Party: YoSmart Inc.

Address: 15375 Barranca Parkway, Ste G-105 Irvine, CA 92618, USA

Tel: 1-949-825-5958

E-mail: service@yosmart.com

The host manufacturer has the responsibility that the host device should be compliance with all essential requirement of RER. This restriction will be applied in all member states. The simplified UK declaration of conformity referred shall be provided as follows: Hereby, YoSmart Inc. declare that the radio equipment type Motion Sensor is in compliance with Directive UK Radio Equipment Regulations (SI 2017/1206); UK Electrical Equipment (Safety) Regulation (SI 2016/1101); and UK Electromagnetic Compatibility Regulations (SI 2016/1091); The full text of the UK declaration of conformity is available at the following internet address: 15375 Barranca Parkway, Ste G-105 Irvine, CA 92618, USA

IC Caution:

-English:

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

To maintain compliance with RSS-102 RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

-French:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Pour être conforme aux lignes directrices d'exposition RF RSS-102, cet équipement doit être installé et exploité à une distance minimale de 20cm entre le radiateur et votre corps: n'utilisez que l'antenne fournie.