

Motion Installation & Maintenance Manual

(Model: SPHNS-S01E)



IMPORTANT:

READ AND UNDERSTAND THIS MANUAL BEFORE USING THIS CONTROLLER . KEEP THIS MANUAL FOR FUTURE REFERENCE.

IMPORTANT NOTICE:

- No part of this manual may be reproduced without written permission.
- Signal words (DANGER, WARNING, and CAUTION) are used to identify levels of hazard seriousness. Definitions of identifying hazard levels are provided below with their respective signal words.

⚠ DANGER : Immediate hazards which WILL result in severe personal injury or death.

⚠ WARNING : Hazards or unsafe practices which COULD result in severe personal injury or death.

⚠ CAUTION : Hazards or unsafe practices which COULD result in minor personal injury or product or property damage.

NOTE: Useful information for operation and/or maintenance.

1. Safety Summary

⚠ DANGER

- **DO NOT pour water into the Motion.** This product is equipped with electrical parts that may cause serious electrical shock when in contact with water.

⚠ WARNING

- **DO NOT perform installation and electrical wiring connection by yourself.** Contact your distributor or dealer and ask them for installation work and electrical wiring by service person.

⚠ CAUTION

- **DO NOT install the indoor unit, outdoor unit, controller and cable at places such as;**
 1. Where there is oil vapor and the oil is dispersed.
 2. Where hot springs are located nearby (in a sulfuric environment).
 3. Where generation, flowing, staying or leaking of flammable gas is detected.
 4. Where the sea is located nearby (in the salty environment).
 5. An acid or alkaline environment.
- **DO NOT install the indoor unit, outdoor unit, controller and cable within approximately 3 meters from strong electromagnetic wave radiators such as medical equipment.** In case that the controller is installed in a place where there is electromagnetic wave direct-radiation, shield the controller and cables by covering with the steel box and running the cable through the metal conduit tube.
- **In case that there is electric noise at the power source for the indoor unit, provide a noise filter.**

The box is for checking work .Check the box after checkig.

2. Installation

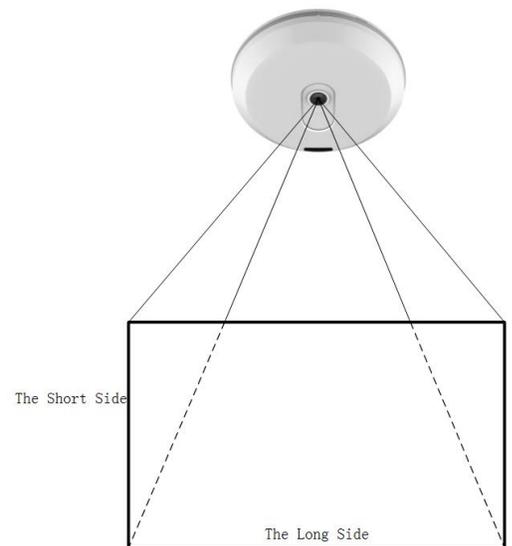
[2.1 Selection of Installation Place]

- 1) Select a suitable place for handling and determining the installation place of the Motion with the customer's acceptance. Do not install the Motion at places such as;
- where children can reach.
 - where the air from the air conditioner is directly discharged, keep a distance at least 1.2M from air conditioner.
 - where place close to light.

□2) Select a suitable Installation form for maximum range of monitoring.

- The Motion can project a standard rectangle in the condition of the area is large enough. The connection between sensor and LED is perpendicular to the long side. Please according to actual situation to choose suitable installation form.

Ceiling Mounted	Wall Mounted
	<p>Note:</p> <p>Rotating part should be pressed until steady and without shaking. </p>
<p>Keep the rotating part parallel to front surface. The height of roof should be 8.2~9.8ft. (2.5~3m).</p>	<p>Keep the rotating part fixed in wall mounting angle. The height of fixed point should be 8.2~9.8ft. (2.5~3m). Please refer chapter 4 and make sure DSW setting is correct.</p>



[2.2 Before Installation]

□1) This package contains the following parts.

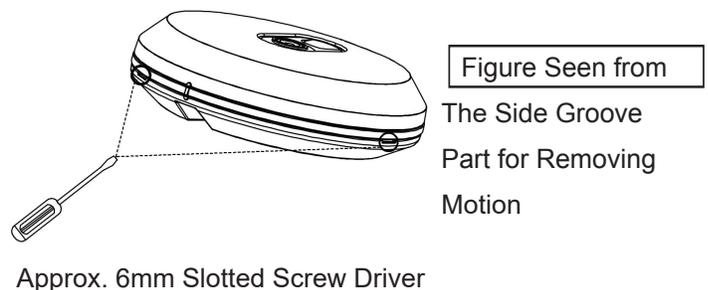
Motion.....1 Assembling screw M4*5/8in.(16mm).....2

Installation Spot check specification.....1

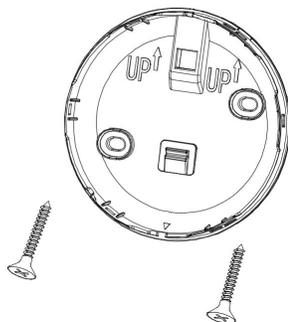
User Manual.....1

[2.3 Installation Procedures]

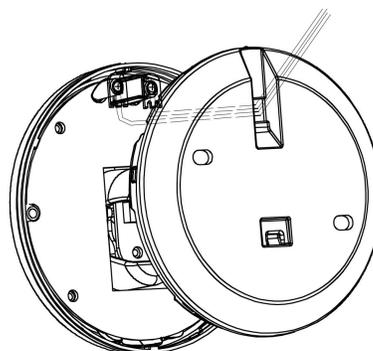
□1) Insert the edge of the slotted screwdriver into the groove at the bottom of the holding bracket, push and turn the slotted screwdriver and then remove the controller from the holding bracket.



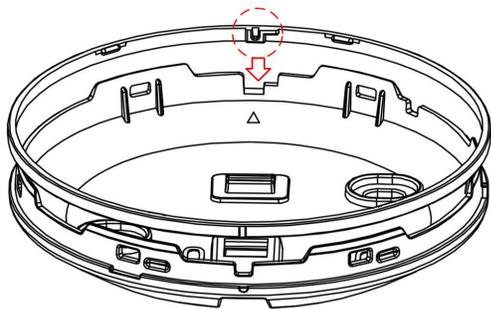
□2) Attach the Motion to the holding bracket and connect the cable as follows.



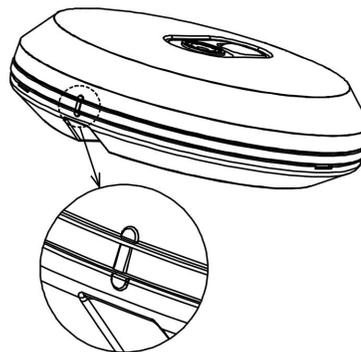
(A) Fix the holding bracket onto the fixed surface with screws (accessory), including but not limited to reinforced concrete wall and wooden board. Please choose the best fixation method based on actual situation.



(B) Peel the insulation at the end of the cable and clamp the M3 solderless terminals.



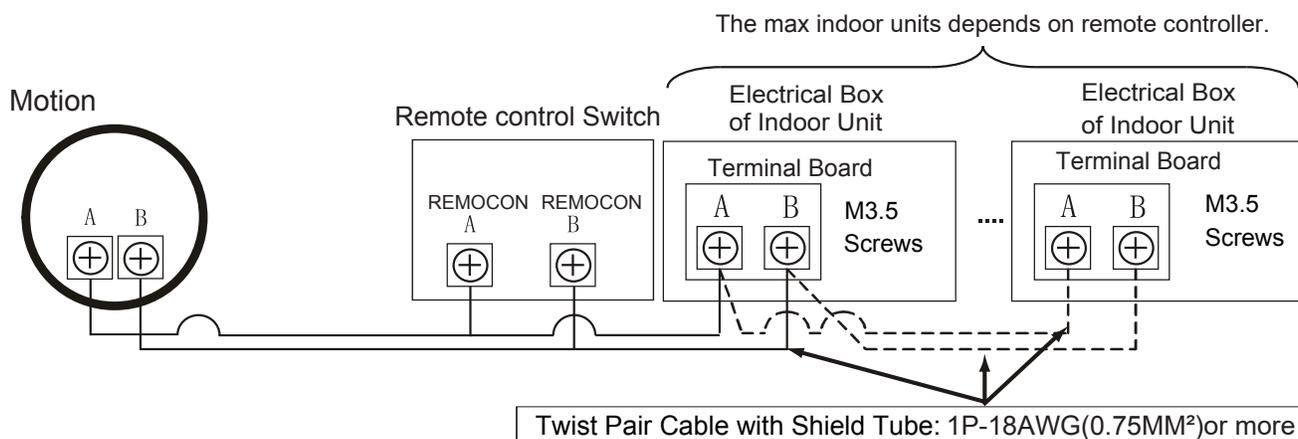
(C) Fix the decorative ring to the holding bracket and make sure the special positioning feature in right position like figure above.



(D) Fix the front panel to the holding bracket and make sure the positioning feature in a straight line.

3. Electrical Wiring

ATTENTION: Always make sure to turn off the power supply of the indoor unit when performing electrical wiring. Performing electrical wiring work with the power on can damage the circuit boards of the indoor unit and the remote control switch.



CAUTION

- Use a 22 to 18AWG(0.3 to 0.75mm²) cable for connecting. The maximum total cable length is 98.4ft.(30m). If the total cable length exceeds 98.4ft.(30m), use a twist pair cable with shield tube(1P-18AWG(0.75mm²) or more). In that case, the maximum total cable length is up to 1640.4ft.(500m). If using in combination with the control timer, the allowable total cable length is up to 328.1ft.(100m). The use of a cable other than specified above can cause of malfunction due to the effects of noise.
- Keep a distance more than 12in.(0.3m) between the transmission line (remote control switch cable and transmission wires) and power source of the indoor units. If not, the air-conditioner may not operate properly or malfunction may occur due to effect of power source noise.
- In case of simultaneously controlling multiple indoor units, set the refrigerant cycle numbers and addresses of the indoor units without overlapping.
- Refer to the Technical Catalog provided with each indoor unit when performing electrical wiring work between the remote control switch and indoor units for setting the refrigerant cycle number and the indoor unit address.
- No gap shall exist between the remote control switch cable and hole of the remote control switch case. If there is a gap, cover the gap with vinyl tape. If not, malfunction may occur due to entrance of water droplets or insects.

4. DSW Setting

<p>DSW1 Default Setting</p>	<p>DSW2 Default Setting</p> <p>Note: The default setting of DSW2 is corresponding to ceiling mounted. If wall mounted is needed, DSW2-2 should be ON.</p>
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5. Fault Information

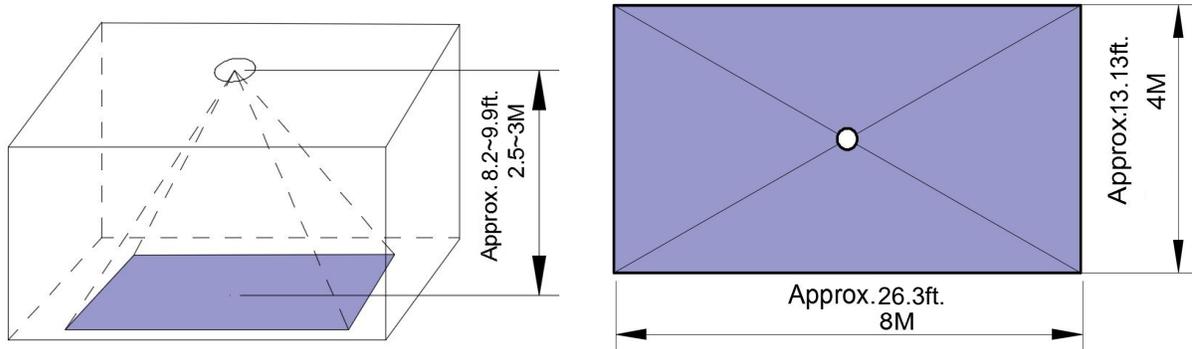
If LED flash at stable frequency, it means that Motion has failed.

6. Specification

Dimensions	Diameter 3-30/32in.(100mm) × Hight 1-7/64in.(28mm)
Operating Temperature range	32°F(0°C) to 95°F(35°C); Indoor use only
Connection	1 Motion per wired remote group

7. Guideline for Detection Area

Ceiling mounted



Wall mounted

