



## **Installation & Operation Manual**

**ZS 6101 IN**

**ZS 6101 EU**

**ZS 6101 RU**

**ZS 6101 US**

**ZS 6101 JP**

**ZS 6101 BR**

### **Wireless Smoke Detector**

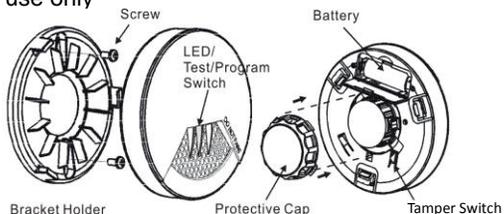
## Introduction

Thanks for choosing the Vision's wireless smoke detector of the home security device. This detector is a Z-Wave™ enabled device (interoperable, two-way RF mesh networking technology) and is fully compatible with any Z-Wave™ enabled network. Every mains powered Z-Wave™ enabled device acts as a signal repeater and multiple devices result in more possible transmission routes which helps eliminate "RF dead-spots".

Z-Wave™ enabled devices displaying the Z-Wave™ logo can also be used with it regardless of the manufacturer, and ours can also be used in other manufacturer's Z-Wave™ enabled networks. This detector is designed to sense smoke that comes into the detector chamber and send Z-Wave™ signal when the detector detects a certain density of smoke then the horn of smoke detector will sound.

## Product Description and Specification

\*\*\* For indoor use only \*\*\*



Specification:	Package Content:
Protocol: Z-Wave™ (ZM3102N)	1pc ZS 6101 Smoke Detector
Frequency Range:	1pc Bracket Holder
865.22MHz (ZS6101IN)	1pc Plastic Anchor
868.42MHz (ZS6101EU)	2pcs Screw
869.00MHz (ZS6101RU)	1pc CR123A Lithium Battery
908.42MHz (ZS6101US)	1pc Installation & Operation Manual
920.00MHz (ZS6101JP)	
921.42MHz (ZS6101BR)	
Operating Range: Up to 100 feet line of sight	
Operation Temperature: 0°C~49°C	
Alarm Audibility: 85dB/3m	
Relative Humidity: 10~95%	
Size: 120mm diameter x 5.3mm depth	
Battery: 3V Lithium Battery; Panasonic CR123A * 1 pc	
Sensitivity: Meet with both UL217 and EN14604 standard	

### Z-Wave™ Command Classes:

COMMAND\_CLASS\_ALARM\_V2  
 COMMAND\_CLASS\_ASSOCIATION\_V1  
 COMMAND\_CLASS\_BATTERY  
 COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC  
 COMMAND\_CLASS\_SENSOR\_BINARY mapping COMMAND\_CLASS\_BASIC  
 COMMAND\_CLASS\_VERSION

## Installation

Notice: If you are installing the entire Z-Wave™ system for the first time, please refer to the installation guide of Z-Wave™ Interface Controller before installing ZS6101.

1. Remove the bracket from the detector by rotating it counter-clockwise.
2. Place the bracket where you are going to install the detector. In each of key hole slots, draw a mark to locate plastic anchor and screw. Using a 3/16-inch (5mm) drill bit, drills two holes at the marks and insert plastic anchor, and attached the bracket by using the screws.
3. Open the battery cover to insert the battery, and then replace the cover. Fix the detector with bracket by rotating it clockwise.
4. For "Inclusion" in (adding to) a network: Put the Z-Wave™ Interface Controller into "inclusion" mode, and following its instruction to add the ZS 6101 to your controller. To get in the "inclusion" mode, the distance between detector and controller is suggested to be in one meter. Press the program switch of ZS 6101 for 1 second at least to be included.

For "Exclusion" from (removing from) a net work: Put the Z-Wave™ Interface Controller into "exclusion" mode, and following its instruction to delete the ZS 6101 from your controller. Press the program switch of ZS6101 for 1 second at least to be excluded.

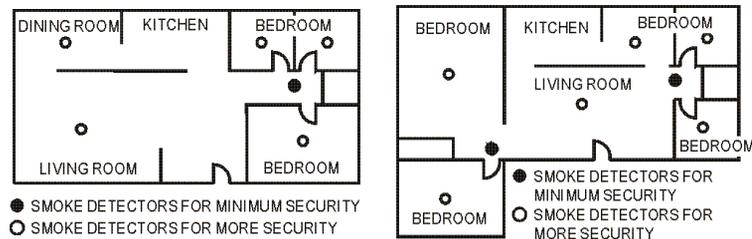
Please note: LED setting light will flash (red) continuously in Exclusion condition.

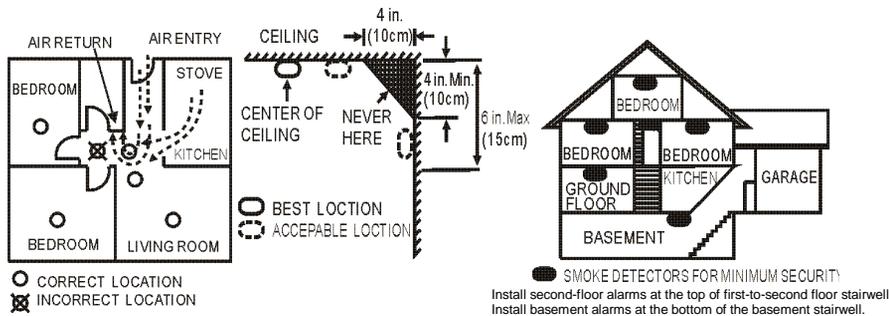
For "Awake" mode: it is to leave the "Sleep" mode by pressing the program switch for 1 sec. at least to allow the Z-Wave™ Interface Controller to do "Inclusion", "Exclusion", "Association" and to reply and receive the commands from controller. It will take about 3 sec. and the red LED light on for awaking the system. LED light will be off after setting.

For "Association": After "Awake" mode, then put the Z-Wave™ Interface Controller into "Association", and following its instruction to associate the ZS6101 with other device. Afterward the ZS6101 will get into "Sleep" mode for power saving. One association group supports 5 nodes.

For "Auto Wake-up" mode: The user's could set Auto Wake-Up mode in min. 10 minutes to max. a week. Default setting is based on 1 hour, each increment in 200 sec.

5. Suggestion of the Smoke Detector Location:





## Operation

- Power-on Mode:** 1) Install the battery into the module 2) Close the bracket 3) the detector will take 8 to 12 sec. and emit a beep to confirm and start the burglar system. The detector will alarm once remove the bracket.
- STANDBY MODE:** The red LED, as the ALARM indicator, are featured with the smoke alarm. It can be seen through the clear test button on the cover of the unit. When red LED flashes once 334 seconds, it indicates the smoke alarm is under normal operation. When smoke alarm senses smoke and simultaneously sounds an audible alarm with 3 beeps, pause and 3 beeps. The red LED will flash continuously and rapidly.
- SILENCE FEATURE:** The silence feature can temporarily quite an alarm for up to 10 minutes. To use this feature, press test button on the cover when it alarms. However, if the smoke concentration around the smoke alarm unit is still at alarming level after 10 minutes of silence, the unit will re-alarm immediately.
- LOW BATTERY WARNING SIGNAL:** If the alarm horn begins to chirp once in 43 seconds with red and yellow LED flashing, this signal means that the smoke alarm's battery is weak. This low battery warning signal should last for up to 30 days, but you should replace the battery immediately to secure your protection.
- TAMPER SWITCH FEATURE:** If the smoke alarm is not mounted into the bracket properly within 5 minutes after battery is installed, the tamper function is triggered and the Yellow LED is steadily on. If the smoke alarm is still not mounted into the bracket properly 5 minutes after battery is installed, you will hear temporal three sound with yellow LED steadily on until smoke alarm is mounted back into bracket properly.
- MALFUNCTION (ERROR) SIGNAL:** If you hear 3 "beep" with yellow LED flashing 3 times in 43 seconds, it indicates that the smoke alarm does not work properly, please have it repaired or serviced.
- TESTING YOUR SMOKE ALARM** Test the alarm weekly by pushing firmly on the test button with your finger for around 4 seconds until the horn sounds, the sound pattern is 3 beeps , pause, and then 3 beeps with red LED flashing continuously and rapidly.If the smoke alarm beeps three with yellow LED flashing three times in 43 seconds, it indicates the smoke alarm is not working properly, it requires to be repaired or serviced. Then, the smoke detector will send an alarm report (Alarm type: 0x01, Level: 0xFF) to the user's controller and also the detector will send an alarm report (Alarm type: 0x01, Level: 0x00) while the alarm off.

- Battery Power indicator:** The detector will report the current status of battery capacity to the user's controller.
- Self-Protection Mode:** If the detector removed from bracket, the detector will send an alarm sensor (Alarm type:0x01, level:0xFF) to the Z-Wave Interface Controller , and the Yellow LED will on continuously and the detector will sound.

## Federal Communications Commission Statement

This equipment has been followed 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 instruction, 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 and 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.

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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

## Limited Warranty

Vision Guarantees that every wireless smoke detector is free from physical defects in material and workmanship under normal use for one year from the date of purchase. If the product proves defective during this one-year warranty period, Vision will replace it free of charge. Vision does not issue any refunds. This warranty is extended to the original end user purchase only and is not transferable. This warranty does not apply to: (1) damage to units caused by accident, dropping or abuse in handling, or any negligent use; (2) units which have been subject to unauthorized repair, opened, taken apart, or otherwise modified; (3) units not used in accordance with instruction; (4) damages exceeding the cost of the product; (5) transit damage, initial installation costs, removal cost, or reinstallation cost.

For information on additional devices, please visit us at [www.visionsecurity.com.tw](http://www.visionsecurity.com.tw)