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 interferene by one of the following measures:
-- Reorient or relocate the receiving antenna,
-- Increase the separation between the equipment and receiver,
-- Connect the equipment into and 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 undersired 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 CO 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 addional devices, plesae visit us at www.visionsecurity.com.tw

WARNING: **The carbon monoxide sensing unit** has only 5-year limited life. For the security issue, we strongly recommend the user to change whole the CO detector after 4-year usage.

VISION

The Ultimate in Security & Automation

Installation & Operation Manual

ZS6301IN-5
ZS6301MY-5
ZS6301EU-5
ZS6301RU-5
ZS6301US-5
ZS6301IL-5
ZS6301KR-5
ZS6301HK-5
ZS6301JP-5
ZS6301BR-5

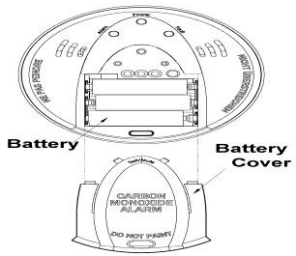
Wireless CO Detector

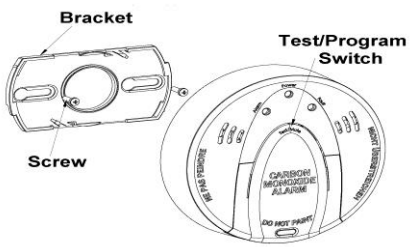
Introduction

Thanks for choosing the Vision's wireless CO 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 and it's security framework. 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-sports".
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 CO that comes into the detector chamber and send Z-Wave™ signal when the detector detects a certain density of CO, the horn of CO detector will sound. When the device is secure included into Z-Wave network, above communication will be encrypted.

Product Description and Specification

*** For indoor use only ***





Specification:	Package Content:	
Protocol: Z-Wave™ (ZM5202) Frequency Range: 865.22MHz (ZS6301IN-5) 868.10MHz (ZS6301MY-5) 868.42MHz (ZS6301EU-5) 869.00MHz (ZS6301RU-5) 908.42MHz (ZS6301US-5) 916.00MHz (ZS6301IL-5) 919~923MHz (ZS6301KR-5) 919.80MHz (ZS6301HK-5) 922~926MHz (ZS6301JP-5) 921.42MHz (ZS6301BR-5) Operating Range: Up to 100 feet line of sight Operating Temp.: 0°C~ 50°C (32°F~122°F) Relative Humidity: 10% to 95%RH Battery: DC 4.5V (3 x AA1.5V for Alkaline) Sensitivity: Meet with both UL2034 and EN50291 Size: (Diameter)125 mm x (Depth)35mm	1pc 1pc	ZS 6301-5 CO Detector Bracket Holder

Z-Wave™ Command Classes:

COMMAND_CLASS_NOTIFICATION_V4
COMMAND_CLASS_ZWAVEPLUS_INFO_V2
COMMAND_CLASS_SECURITY
COMMAND_CLASS_VERSION_V2
COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2
COMMAND_CLASS_DEVICE_RESET_LOCALLY
COMMAND_CLASS_ASSOCIATION_V2
COMMAND_CLASS_ASSOCIATION_GRP_INFO
COMMAND_CLASS_POWERLEVEL
COMMAND_CLASS_BATTERY
COMMAND_CLASS_WAKE_UP_V2
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2

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 ZS6301.

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 keyhole 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 batteries, 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 ZS6301-5 to your controller. To get in the "inclusion" mode, the distance between detector and controller is suggested to be in one meter. By power on to get included for first time or press the test switch of ZS6301-5 once to be included. After be included, the red LED will go on.

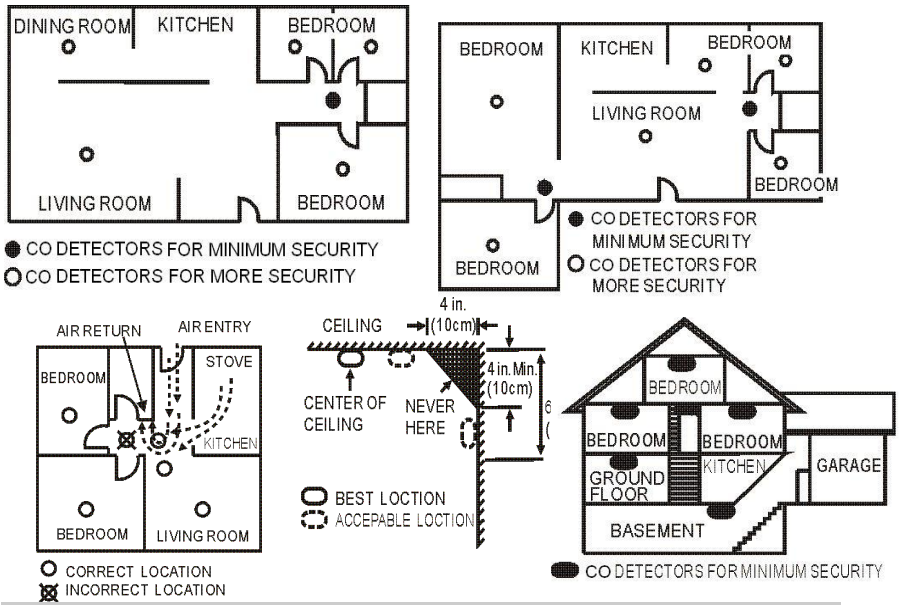
   For **"Exclusion"** from (removing from) a network: Put the Z-Wave™ Interface Controller into "exclusion" mode, and following its instruction to delete the ZS6301-5 from your controller. Press the test switch of ZS6301-5 once to be excluded.

   For **"Awake"** mode: To leave "Sleep" mode, please press the test switch once, the device will send "Wake Up Notification" after 10 seconds.

   For **"Association"**: After "Awake" mode, then put the Z-Wave™ Interface Controller into "Association", and following its instruction to associate the ZS6301-5 with other device. Afterward the ZS6301-5 will get into "Sleep" mode for power saving. Grouping identifier =1, One association group supports 5 nodes. "Association" is used for other grouping devices chain reaction.

   For "**Auto Wake-up**" mode: The users could use Wake-Up command to change the auto wake up from 10 minutes to 1 week.

5. Suggestion of the CO Detector Location:



Operation

1. **Power-on Mode:** 1) Install the battery into the module 2) The detector will emit a beep in 0.5 second and the three LEDs will flash once quickly. 3) Close the bracket. The CO detector will alarm once remove the bracket.
2. **Stand-by Mode:** The Green LED flashes once every 60 seconds.
3. **Alarm Mode (In the status when the sensor is triggered.):** If a certain density of CO is detected, an audible alarm with 4 beeps, pause 5 seconds and 4 beeps will occure. The red LED will flash continuously and rapidly.
4. **Trigger Alarm Report:**
   * While certain desity CO is detected-
     Sending Basic Set On and Alarm Report (Type: 0x02,Level:0xFF,Event=0x02)
   * While certain density CO isn't detected-
     Sending Basic Set Off and Alarm Report (Type: 0x02,Level:0x00,Event=0x00)
   * Long pressing test switch for 3 seconds-
     Sending Basic Set On and Alarm Report (Type: 0x02,Level:0xFF,Event=0x02)
   * After release test switch for 2 seconds-
     Sending Basic Set Off and Alarm Report (Type: 0x02,Level:0x00,Event=0x00)
   * Remove the detector from the bracket-
     Sending Alarm Report (Type: 0x07,Level:0xFF,Event=0x03)
   * Fix the detector back to the bracket-
     Sending Alarm Report (Type: 0x07,Level:0x00,Event=0x00)

5. **Error Mode:** If the CO detector beep once and yellow LED flash three times per minute, it indicates the CO detector is not working properly. Please require to repaire or service.
6. **Low battery warning Mode:** The yellow LED will flash once per minute with a "beep" sound.
7. **Low sensitivity Mode:** The yellow LED will flash twice per minute with a "beep" sound. It indicates the CO detector has internal problem, please replace the unit.
8. **Tamper Mode:** The yellow LED will go solid and the detector will emit a short beep per minute untill the CO detector is mounted back to the bracket properly.
9. **End of life signal Mode:** The yellow LED will flash four times every minute with a short "beep" sound. It indicates the CO detector is reaching to the end of useful life, please replace with a new unit.
10. **Testing Mode:** Test the alarm by pushing test switch until the user hear 4 short beeps and three LEDs flash synchronously in five senconds. Then, the CO detector will send an alarm report (Alarm type: 0x02, Level: 0xFF) to the user's controller and also the CO dectecor will send an alarm report (Alarm type: 0x02, Level:0x00) while the alarm off. Please note if the CO detector only beep once and yellow LED falsh three times every minute, it indicates the CO detector is not working properly. Please require to repair or service.
11. **Battery Power indicator:** The detector will send Battery low signal if under 3.6± 0.1V automatically. Could using "Battery Get" command to have the battery capacity in percentage.
12. **Silence Mode:** The user could press the test switch to get into silence mode to turn off the alarm temporarily when the CO detector alarm. Meanwhile, the red LED will flash continually. The silence function will automatically turn into normal operation if the CO concentration around the CO detector is still at alarming level after 4 minutes of silence mode.
13. **OTA Function:** The detector support OTA function, please use COMMAND_CLASS_FIRMWARE_UPDATE_MD_V2 command to update the firmware.
14. **Security enabled**_Z-Wave controller must be used to fully utilize the product.