Federal Communications Commission Statement

This equipment has been followed to comply with Part 15 of the FCC Rules. 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 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 undesirable 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 siren & strobe alarm 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, 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

ZM1601-8	V0	1140820

VISION

The Ultimate in Security & Automation

Installation & Operation Manual

ZM1601US-8
ZM1601USLR-8
ZM1601EU-8
ZM1601ANZ-8
ZM1601IN-8
ZM1601IL-8
ZM1601RU-8
ZM1601JP-8
ZM1601KR-8

Wireless Siren & Strobe Alarm

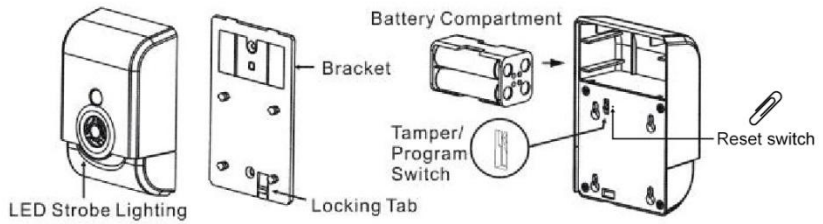
Battery Power

Introduction

Thank you for choosing the Vision's wireless siren & strobe alarm. This sensor is a Z-Wave® enabled device designed to emit a loud audible alarm and blink a strobe light when it receives an alert or alarm signal from the Z-Wave® network. It can work seamlessly with any Z-Wave® enabled controller or system, regardless of the manufacturer, as long as it bears the Z-Wave® logo. When included securely into a Z-Wave® network, all communications to and from the siren are encrypted, ensuring a higher level of security and protection for your smart home. Ideal for enhancing home safety, this siren provides both audio and visual warnings to deter intrusions or signal emergency events.

Product Description and Specification

*** For indoor use only ***

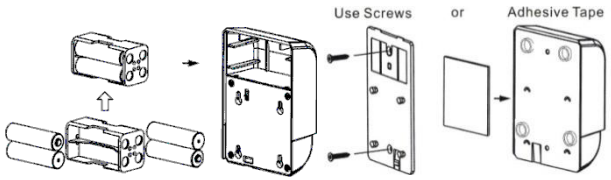


Specification:	Package Content:
Protocol: Z-Wave® Frequency Range: 908.42MHz (ZM1601US-8) 912.00MHz (ZM1601USLR-8) 868.42MHz (ZM1601EU-8) 921.42MHz (ZM1601ANZ-8) 865.22MHz (ZM1601IN-8) 916.00MHz (ZM1601IL-8) 869.00MHz (ZM1601RU-8) 922~926MHz (ZM1601JP-8) 920~923MHz (ZM1601KR-8) Operating Range: > 200 feet line of sight Loud Audible Alarm: > 105db@1meter LED Strobe Lighting Operating Temp.: -15°C~ 60°C (5°F~140°F)	1pc ZM1601 Siren 1pc Adhesive tape 2pcs Screw 4pcs AA Energizer Batteries

Z-Wave® Command Classes:

COMMAND CLASS NAME	VERSION	REQUIRED SECURITY CLASS
ASSOCIATION	2	S2
ASSOCIATION GROUP INFO	3	S2
BATTERY	1	S2
CONFIGURATION	4	S2
DEVICE RESET LOCALLY	1	S2
FIRMWARE UPDATE MD	5	S2
INDICATOR	3	S2
MANUFACTURER SPECIFIC	2	S2
MULTI_CHANNEL_ASSOCIATION	3	S2
NOTIFICATION	8	S2
POWERLEVEL	1	S2
VERSION	3	S2
SWITCH_BINARY (Mapping COMMAND_CLASS_BASIC)	2	S2
APPLICATION STATUS	1	None
SECURITY_2	1	None
SUPERVISION	1	None
TRANSPORT_SERVICE	2	None
ZWAVEPLUS_INFO	2	None

Installation



Before You Begin:
If this is your first time installing a Z-Wave® system, please refer to your Z-Wave® Interface Controller's installation guide before proceeding with the siren setup.

Installation Steps:

1. Remove the siren from its bracket by pressing the locking tab and sliding the siren upward.
2. Insert the batteries with correct polarity.
3. Mount the bracket at the desired location using screws or adhesive tape.

LED Status –

- **Not Included:** LED blinks 5 times at power-on.
- **Included:** LED blinks once at power-on.

To Include (Add) ZM1601 into a Z-Wave® Network:

1. Put your Z-Wave® Controller into **inclusion** mode.
2. Open the bracket and press the program switch for less than 5 seconds**.**
3. The LED will blink once after successful inclusion, and it also sends the indicator report.

SmartStart Setup:
The DSK label is located on the back of the sensor. Scan the QR code on the DSK label during device setup. Once powered on, the device will automatically join the network.

Note: The QR code contains the DSK (Device Specific Key) and may also be referred to as the **PIN**, **DSK code**, or **Device Key** depending on the controller interface.

To Exclude (Remove) ZM1601 from a Z-Wave® Network:

1. Put your **Z-Wave®** Controller into **exclusion** mode.
2. Press the program switch **for less than 5 seconds**.
3. The LED will blink 5 times after exclusion.

Note: Excluding the device will erase all user and network settings, restore it to factory default.

Configuration

Configuration – Alarm Mode

	Size	VALUE	Default
Parameter 1	1	0 (All Enable)、1 (Siren Only) 、2 (Strobe Only)	0 (All Enable)

(Parameter 1) To set up the Alarm Mode when triggered.

Configuration – Siren Single Count

	Size	VALUE	Default
Parameter 2	1	0 (off)、1 ~ 10	0 (off)

(Parameter 2) To set up the alarm time when triggered. Parameter 3 will activate when Parameter 2 is 0 (off)

Configuration – Alarm Auto Stop Time

	Size	VALUE	Default
Parameter 3	1	0 (30s)、1 (60s)、 2 (120s)、3 (Non-Stop)	0 (30s)

(Parameter 3) User can change the duration of siren time.

Configuration – Report Re-sending Times

	Size	VALUE	Default
Parameter 4	1	0 ~ 5 (unsigned decimal)	0 (time)

(Parameter 4) To prevent missing feedback signal to the controller, user can change the value from 0 to 5 times to set the notification resend times in case there is no acknowledgment from the controller after sending the Cover Switch Trigger Notification.

Configuration – Supervision Report Delayed Reception Time

	Size	VALUE	Default
Parameter 5	2	500 ~ 10000 (unsigned decimal) Unit: ms	500 ms.

(Parameter 5) To set up the Supervision Report Delayed Reception Time, this setting can enhance the receiving signal stability of the Controller when it is busy.

Operation

1. Normal operation- In normal standby mode, the LED remains off.

2. **Alarm Mode:**
   Activation: The siren and strobe LED will activate after receiving a Basic Set (ON) or Binary Switch (ON) command, based on the configured settings.
   Stop: The alarm will stop upon receiving a Basic Set (OFF) **or** Binary Switch (OFF) command.
   Auto Stop: After alarm stops, the device will send a Binary Switch Report (0x00)**.**

	Rear Cover Alarm
Event Parameter	0x03
Notification Type	0x07
Notification Event	0x03 (Trigger) / 0x00 (Non Trigger)

3. **Self-Protection Mode:**
   After reattaching the bracket for more than 5 seconds, the device enters Self-Protection Mode**.** If the rear cover is opened during this mode, the siren and LED strobe will activate immediately**.**

4. **Battery Capacity Detection:**
   When the battery is low, a Low Battery Report will be sent during wake-up mode or every 2 hours via auto-detection.
   Use the Battery Get command to retrieve the current battery level (in % hexadecimal format).

5. **Association**:
   * Support one group with 5 nodes, Battery, Reset Locally, Indicator, notification.
   * All alarms and low battery notifications will be sent to associated nodes.
   * Association enables device-to-device interactions without a controller.
   * Long Range (LR) mode supports 1 node per group.

6. **Factory Default Reset:**
   After removing the back cover and the battery, use a paperclip to insert the reset switch on the back of the device. Replace the battery and power on the device. After waiting 10 seconds, the device will send a "Device Local Reset Notification" command and reset to factory defaults.
   Note: Only use this reset method when the primary controller is unavailable.

7. About Indicator Command Class support (Node Identify (0x50):

Property ID	Value
On/Off Periods(0x03)	0x00~0xFF
On/Off Cycles(0x04)	0x00~0xFF
On time within an On/Off period(0x05)	0x00~0xFF

8. Support OTA Firmware update from controller. Please refer to your controller manual. Once OTA function succeeded, we recommend you to proceed the factory default reset (please refer to 6. & include again before use the device again.
   Note: Please replace a new battery for OTA process since it will consume the battery power a lot under few minutes!

9. Support SECURITY S2 UNAUTHENTICATED & SECURITY S2 AUTHENTICATED.

10. The DSK label will be on the backside of ZM1601, Scan the DSK label to access the SmartStart if gateway 's UI supports SmartStart. (Remark: The QR code is for use with Z-Wave SmartStart by using “DSK,” “Device Specific Key,” “PIN,” or “PIN code,” etc.)

11. All the rest commands depend on Z-Wave Plus® standard.