

Federal Communications Commission Statement

FCC Statement

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

"the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."

FCC Statement in User's Manual (for class B) FCC Section 15.105 "Federal Communications Commission (FCC) Statement"

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.

Limited Warranty

Vision Guarantees that every wireless ZA1502-7 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 additional devices, please visit us at www.visionsecurity.com.tw



Installation & Operation Manual

ZA1502IN-7
ZA1502EU-7
ZA1502RU-7
ZA1502US-7
ZA1502IL-7
ZA1502KR-7
ZA1502HK-7
ZA1502JP-7
ZA1502BR-7

2 in 1 Universal Remote

Introduction

Thanks for choosing the Vision's wireless 2 in 1 Universal Remote (ZA1502-7) of the home security device. This sensor is a Z-Wave™ Plus. enabled device (interoperable, two-way RF mesh networking technology) and is fully compatible with any Z-Wave™ enabled network and its security framework. Every mains powered Z-Wave PLUS enabled device acts as a signal repeater and multiple devices result in more possible transmission routes which helps eliminate "RF dead-spots"

Z-Wave™ Plus. enabled devices displaying the Z-Wave™ Plus. logo can also be used with it regardless of the manufacturer, and ours can also be used in other manufacturer's Z-Wave™ Plus. enabled networks. ZA1502-7 is an Arrival sensor combines a unique button whose function can be defined as one of below:

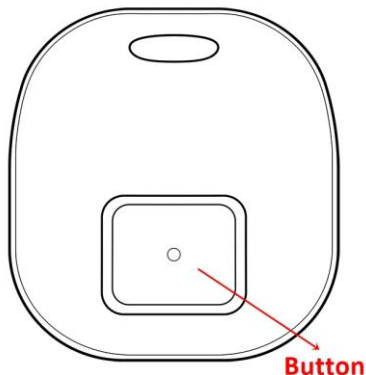
- Scene Control
- On/Off Control
- Arm/Disarm
- Emergency Help

When the device is secure included into Z-Wave network, above communication will be encrypted. ZA1502-7 supports SECURITY S0 / SECURITY S2 UNAUTHENTICATED / SECURITY S2 AUTHENTICATED.

Product Description and Specification

Specification:	Package Content:
Protocol: Z-Wave™ (ZGM130S)	1pc ZA1502-7
Frequency Range:	1pc Operation manual
865.22MHz (ZA1502IN-7)	
868.42MHz (ZA1502EU-7)	
869.00MHz (ZA1502RU-7)	
908.42MHz (ZA1502US-7)	
916.00MHz (ZA1502IL-7)	
919-923MHz (ZA1502KR-7)	
919.80MHz (ZA1502HK-7)	
922-926MHz (ZA1502JP-7)	
921.42MHz (ZA1502BR-7)	
Operating Range: Up to 100 feet line of sight	
Operating Temp.: -10°C~ 60°C (14°F ~140°F)	

ZA1502-7



Z-Wave Command Classes:

COMMAND_CLASS_ASSOCIATION_GRP_INFO_V3
COMMAND_CLASS_ASSOCIATION_V2
COMMAND_CLASS_BATTERY
COMMAND_CLASS_CONFIGURATION_V4
COMMAND_CLASS_DEVICE_RESET_LOCALLY
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V5
COMMAND_CLASS_INDICATOR_V3
COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3
COMMAND_CLASS_NOTIFICATION_V8
COMMAND_CLASS_POWERLEVEL
COMMAND_CLASS_SECURITY
COMMAND_CLASS_SECURITY_2
COMMAND_CLASS_SUPERVISION
COMMAND_CLASS_TRANSPORT_SERVICE_V2
COMMAND_CLASS_VERSION_V3
COMMAND_CLASS_WAKE_UP_V2
COMMAND_CLASS_ZWAVEPLUS_INFO_V2

Z-Wave S2 Support Command Class:

COMMAND_CLASS_ASSOCIATION_GRP_INFO_V3
COMMAND_CLASS_ASSOCIATION_V2
COMMAND_CLASS_BATTERY
COMMAND_CLASS_CONFIGURATION_V4
COMMAND_CLASS_DEVICE_RESET_LOCALLY
COMMAND_CLASS_FIRMWARE_UPDATE_MD_V5
COMMAND_CLASS_INDICATOR_V3
COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3
COMMAND_CLASS_NOTIFICATION_V8
COMMAND_CLASS_POWERLEVEL
COMMAND_CLASS_VERSION_V3
COMMAND_CLASS_WAKE_UP_V2

Notification V8 Type

	TYPE	EVENT
Movement	System (0x09)	Heartbeat (0x05)
Synchronic Time	Clock (0x0B)	Timer Ended (0x02)
Button Press	Emergency (0x0A)	Contact Medical Service (0x03)

(Table 1)

V1 Alarm

	TYPE	VALUE
Movement	0x09	0xFF
Synchronic Time	0x09	0x00
Button Press	0x0A	0xFF

(Table 2)

Configuration - Synchronic Time Interval

	Byte	Value	Default
Parameter 1	1	1 ~ 127 (Set up from 16 to 2032 seconds)	4 (= 16 seconds x 4)

(Table 3)

(P.S.: This is the definition how long ZA1502-7 will contact

Gateway for having a synchronic information. The basic interval time is 16 seconds, the synchronic time will be the basic interval time by Parameter 1's value.)

Operation

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 and full charging the ZA1502-7 before using..

- Green LED turns on while pressing the button of ZA1502-7.
- Quick press the button of ZA1502-7 5 times for showing the sensor's inclusion status.
 - Not Included : Red/Green LED flashing 5 times quickly.
 - Included : Red/Green LED flashing 1 second.
- For **"Inclusion"** in (adding to) a network: Put the Z-Wave™ Interface Controller into "inclusion" mode, and following its instruction to add the ZA1502-7 to your controller. To get in the "inclusion" mode, quick press the button of ZA1502-7 5 times for sending the NIF, the Red/Green LED will flash 5 times quickly before the learning process for showing the sensor has not been included. After sending NIF, Z-Wave will send the auto inclusion, the Red/Green LED will flash 1 second after successful inclusion; otherwise, ZA1502-7 will go to sleep after 30 seconds. The red LED will be flashing while the inclusion is proceeding.
- For **"Exclusion"** from (removing from) a network: Put the Z-Wave™ Interface Controller into "exclusion" mode, and following its instruction to delete the ZA1502-7 from your controller. Quick press the button of ZA1502-7 5 times to be excluded, the Red/Green LED will flash 5 times quickly after successful exclusion.

Note: All user and network settings will be cleared and the device reset to factory defaults when the device is excluded.
- Trigger Response:**
 - Movement: The sensor will send Notification Report (refer to Table 1 & 2) if it has been moved.
 - Synchronic Time: The sensor will send Notification Report (refer to Table 1 & 2) and exceed the preset synchronic time (refer to Table 3).
 - Button Press: Press the button of ZA1502-7 once for sending Notification Report (refer to Table 1 & 2) if button has been pressed for any specific purpose.
- Wake Up Notification:**
Press the button of ZA1502-7 2 times will active the "Wake Up Mode" for receiving all the command class from controller. The ZA1502-7 will go to sleep mode without receiving any Z-Wave command till 10 seconds. It will proceed all the commands after sending the "Wake Up Notification"
- Auto Wake Up:**
Use "Wake Up" command to set up the awaking interval and send the wake up notification to controller. User can use "Wake_Up" command to change the auto wake up interval from 10 minutes to 1 week, Interval increment is 200 seconds. **(Default Value: 24 hours.)**

8. **Battery Capacity Detection:**
Use "Battery Get" command to have the battery capacity back in %. It will detect the battery capacity automatically. Low Battery Auto Report (low battery is set as 2.4+/-0.1 Voltage).
9. **Association:**
 - * Support one group with 1 node.
 - * Group 1 = Lifeline (Battery, Notification, Reset Locally)
10. Support Explorer Frame Function
11. All the rest commands depend on Z-Wave standard
12. **Factory Default Reset:**
Quick press the button of ZA1502-7 4 times and hold the button around 5 seconds until the Red LED is on to send the "Device Reset Locally Notification" command and reset to the factory default.
(Remark: This is to be used only in the case of primary controller being inoperable or otherwise unavailable.)
13. Support OTA Firmware update from controller. Please refer to your controller manual. Once OTA function success, we recommend you exclusive the device & inclusive again before use the device.
14. Support SECURITY S0, SECURITY S2 UNAUTHENTICATED & SECURITY S2 AUTHENTICATED.
15. Support SmartStart, please scan the QR Code from ZA1502-7 for SmartStart. QR code and PIN is located on the device, also there is a Full DSK string on the enclosed DSK card. Please keep DSK card carefully for future inclusion needed.
(P.S.: Z-Wave SmartStart aims to shift the tasks related to inclusion of an end device into a Z-Wave network away from the end device itself, and towards the more user-friendly interface of the gateway.)
16. The DSK label will on the backside of ZA1502-7, 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.)
17. **Enable/ Disable SmartStart:**
Press the button of ZA1502-7 3 times continuously and hold the button around 5 seconds until the Red LED and Green LED is flashing sequentially. Enable and Disable is under a circle switching. **The default status is "Enable" after every time's power on.**
P.S.: The LED indicator for Enable / Disable SmartStart:
 - Enable: One time's LED flashing. (Red → Green)
 - Disable: Two times' LED flashing. (Red → Green → Red → Green).
18. A Security Enabled Z-Wave Controller must be used to fully utilize the products.