



EVERSPRING®



**VIAS**

Video IOT Alarm System

[www.vias-system.com](http://www.vias-system.com)

# INTRODUCTION

VIAS is the newest security and automation made by Everspring. VIAS means Video - IOT - Alarm System, that is everything you need to ensure comfort and security to your place. What is special with this system? The best quality of VIAS is scalability, thanks to its multi-partitions and multi-zone structure it can adapt to any system from a small house to a commercial building.

VIAS sensors are using our latest U-Net 5 two-way wireless technology to communicate with the central gateway. You can check your place from anywhere thanks to the VIAS app for smartphone, get notifications and control your automation devices. The system is fully working even when internet connection is not available, you can connect to your system by using the local WiFi network.

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# VIAS



Outdoor siren



Indoor siren



PIR sensor



Keypad



Remote controller



Smoke sensor



Water detector



Granvia Gateway



Magnetic contact

# VIAS



**Smart plug**



**Power metering plug**



**US Smart plug**



**In-wall switch**



**Outdoor IP camera**



**Pan tilt IP camera**



**Temperature & humidity  
sensor**



**Wall switch**



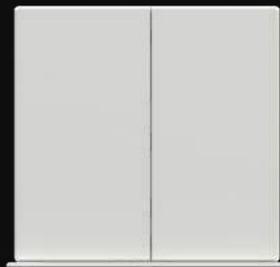
# VIAS PROFESSIONAL SYSTEM

VIAS is the newest security and automation made by Everspring. VIAS means Video - IOT - Alarm System, that is everything you need to ensure comfort and security to your place. The Granvia gateway binds all the devices together, provides internet connection, records videos from IP cameras, send notifications and can communicate with the monitoring center using Contact ID / SIA protocols. Wireless security sensors protects from intruders, detect fires or flood and let you arm/disarm your system. Wireless automation devices let you control lights & electronics even when you are not home. IP cameras let you check the videos live or recorded on the gateway.

## Alarm system



## IOT



## Video

Granvia

## Monitoring center



## EN 50131 STANDARD (GRADE 2)

The VIAS system complies with the European standards EN50131 for intruder alarm systems.

This standard is intended to assist insurers, alarm companies, customers and police in achieving an accurate level of supervision to secure premises with a specific level of intrusion.

A Grade 2 system provides protection against intruders with experience with alarm systems and carrying special equipments.

All components of the system are certified, including the IP gateway, motion detectors and sirens.

# AUTOMATION SYSTEM

The VIAS system is using 2 types of connection: Internet/cloud and Ethernet/local. The internet connection let you access your system from everywhere by using the VIAS app for smartphone and tablets or the Web interface for PC. The optional cloud service let you store recorded videos on the cloud when you think the local NVR may be damaged by intruders. The Ethernet connection let you access all the functions of your system locally when you are home, even if the internet connection is not available.

The VIAS system is using the latest technology to provide fast internet access to the system and regular check to ensure all the components of the system are currently working.

VIAS sensors and IPBOX are connected locally by our new developed wireless protocol U-NET 5.0. The wireless range covers long distance so that all the sensors can be installed in a wide area.



# VIDEO SYSTEM

The Granvia gateway is also a 4ch NVR with SSD or HDD space. You will be able to connect any Onvif IP camera, watch the live video, get alert notifications, and record 24h/7d videos. Live video and recordings are (as the rest of the system) accessible both locally and remotely.

Video recording can also be triggered by wireless sensors connected to the gateway, your alarm system will be less affected by false alerts then more reliable.

What if something happened and you are not home? You can use automation devices for some specific action like: turn off lights, open automatic doors, close curtain, etc...

## System procedure

- 1 Intruder enters the place
- 2 A PIR sensor detects the intruder
- 3 Cameras are triggered
- 4 The NVR starts to record
- 5 Images are displayed
- 6 Notifications are sent



# PARTITIONS & ZONES

You can create multiple partitions and areas to share the access between different users. Each partition can be an independent system with all the available features.

Create multiple partitions and share to other people only the parts of the system that you want to share in different levels of access rights.

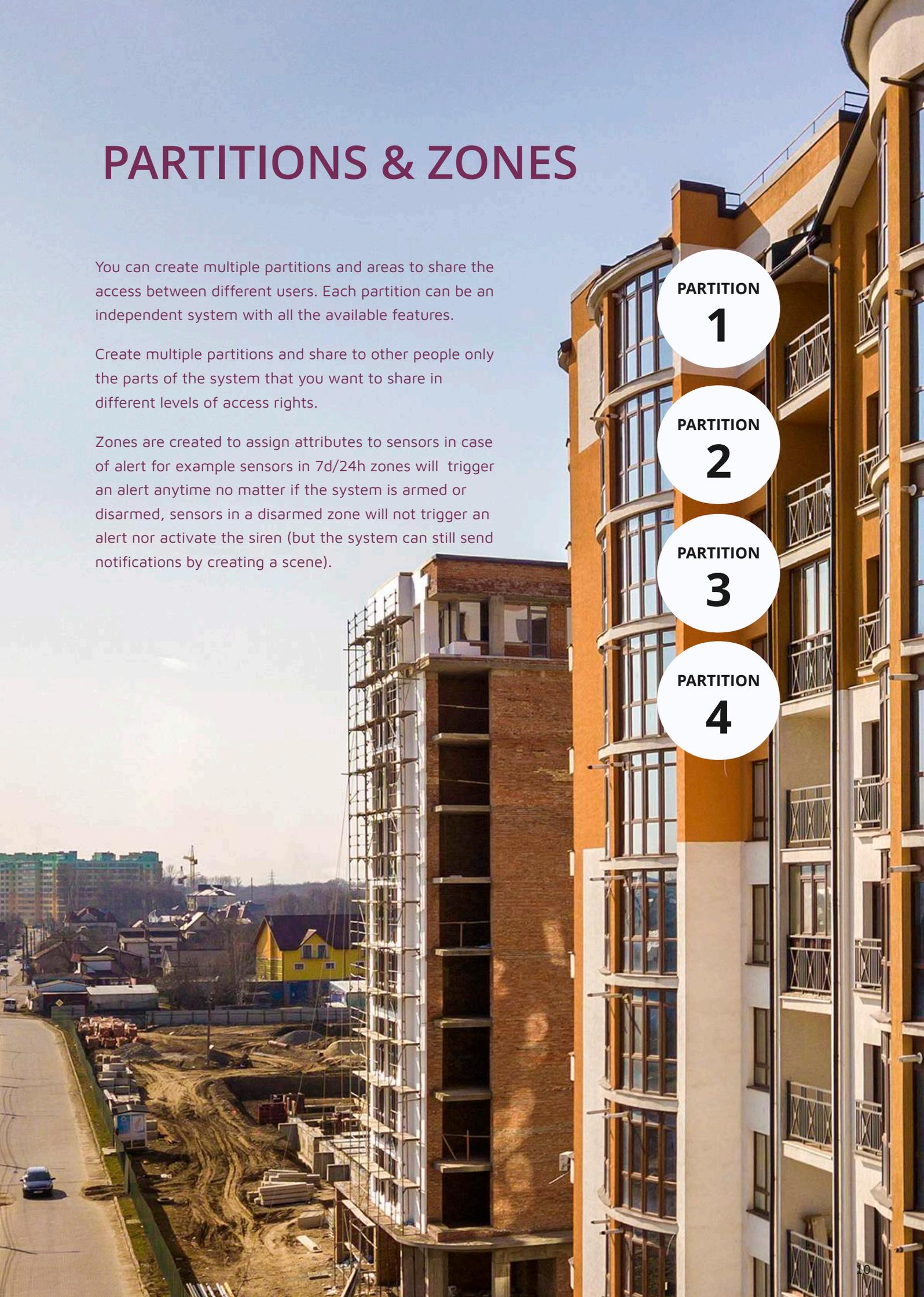
Zones are created to assign attributes to sensors in case of alert for example sensors in 7d/24h zones will trigger an alert anytime no matter if the system is armed or disarmed, sensors in a disarmed zone will not trigger an alert nor activate the siren (but the system can still send notifications by creating a scene).

**PARTITION  
1**

**PARTITION  
2**

**PARTITION  
3**

**PARTITION  
4**

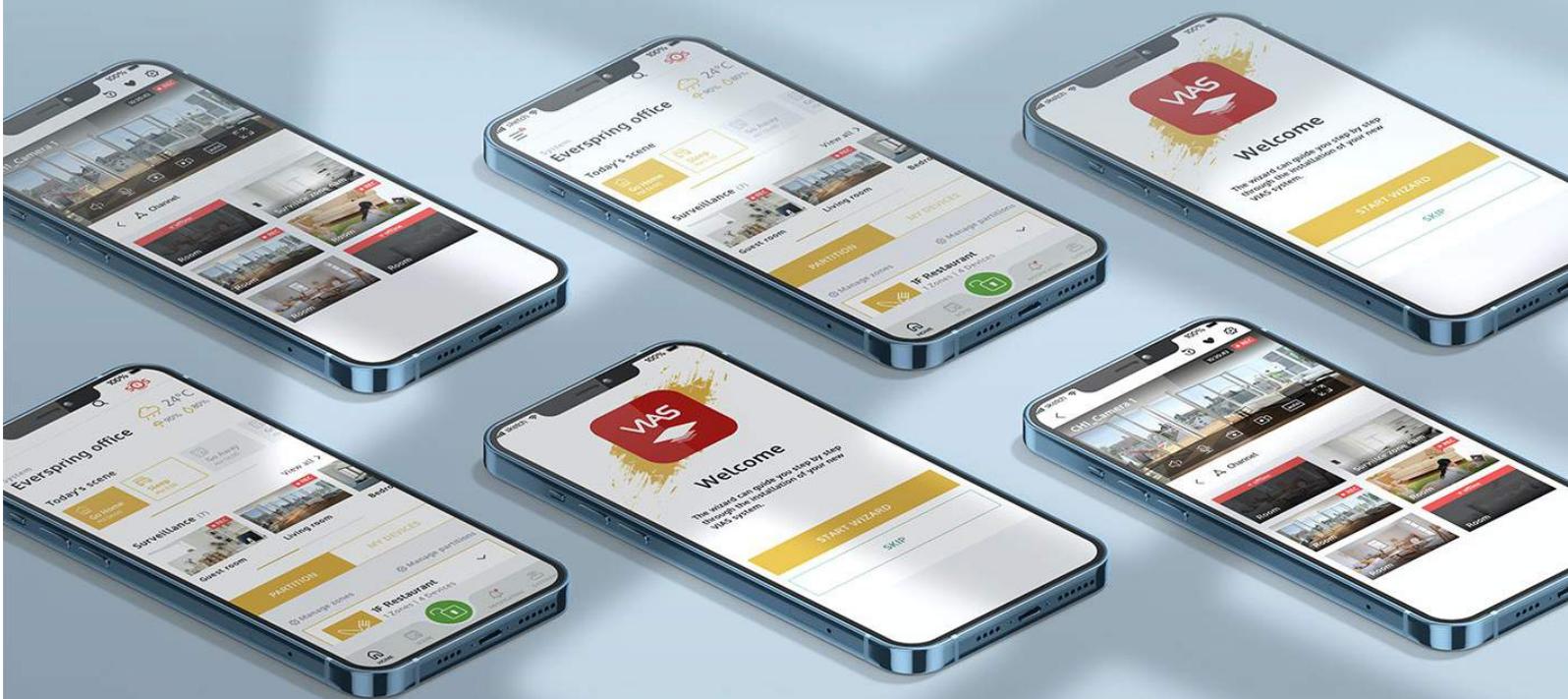


# SMARTPHONE APP



VIAS smartphone app let you control your system from everywhere. You can turn ON/OFF automation devices, receive alert notifications, create schedule events, watch your IP cameras live and play videos recorded in the NVR.

Sharing is also easy, just create a separate partition with all the sensors you need to share and create a new user with password access. It is also possible to create users without App access but with a time limit keypad code access.



# LOCAL & REMOTE CONNECTION

The VIAS system is using 2 types of connection: Internet/cloud and Ethernet/local. The internet connection let you access your system from everywhere by using the VIAS app for smartphone and tablets or the Web interface for PC. The optional cloud service let you store recorded videos on the cloud when you think the local NVR may be damaged by intruders. The Ethernet connection let you access all the functions of your system locally when you are home, even if the internet connection is not available.

The VIAS system is using the latest technology to provide fast internet access to the system and regular check to ensure all the components of the system are currently working.

VIAS sensors and IPBOX are connected locally by our new developed wireless protocol U-NET 5.0. The wireless range of this new technology is over 1 Km so that all the sensors can be installed in a wide area.



# SECURITY



# Granvia Gateway



Granvia means the big road, it is the central accessory of the system. It binds all the accessories together, record videos from the cameras and provide local WiFi and internet connection. One account can support an unlimited number of IPBOX, each one can be in different places.

The device is composed by two parts: one reserved for wireless and internet connection, the other for video recording. Each gateway supports 200 wireless devices and 4 IP cameras.

There is a back-up battery in case of blackout, that provides full access to all the functions, the system will also notify the owner in case of power cut or if any of the sensors became unavailable.

## Technical specs

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Frequency range	868.30-923.00 MHz
RF range (open space)	>1Km
RF protocol	U-Net 5.0
User interface	3 x USB, 1 x LAN , 4 x LED
Backup battery	Li-polymer battery 7.4V 2500 mAh minimum
Dimension (mm)	165.4(W) x 49.5(D) x 170(H)
Weight	596g
Operation temperature	-10 ~ 40°C
Operating humidity	85% RH max
Connection	Ethernet port 10/100 LAN Wi-Fi IEEE 802.11 b/g/n 2.4GHz GSM/GPRS 850/900/1800/ 1900 MHz(optional),4G LTE (Optional)
Monitoring center interface	Protocol by SIA-DC09





# SR202

## Remote controller

The SR202 Keyfob is a portable remote control used to set the alarm controller into Arm, Partial Arm and Disarm modes. The Keyfob also incorporates a Panic function that will immediately initiate an emergency panic condition at any time.

### Scenes button

It can be also used for Scenes control, when pressed once, will activate a scene operation defined by the Controller.

### Technical specs

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Frequency range	868.30-923.00 MHz
RF range (open space)	>300m
RF protocol	U-Net 5.0
User interface	3 x Button, 1 x Panic switch, 1 x LED
Battery type	3V CR2032 lithium coin x 1
Dimension (mm)	31(W) x 17(D) x 31(H)
Weight	12g, including battery
Operation temperature	-10 - 50°C
Operating humidity	95% RH max





# SE201

## Indoor siren

The SE201 is an indoor voice siren with temperature & humidity detection. In case of intrusion, it alerts the neighborhood by its powerful 110 decibels piercing sound and a flashing red light. It reproduces vocal message to explain the cause of the alert.

- Alert voice message
- Tamper alert protection and weatherproof design
- Temperature change notification (gap: 2°C)

### Technical specs

---

Frequency range	868.0-868.6 MHz (EU) 902.0-925.0 MHz (US)
RF range (open space)	>1Km
RF protocol	U-Net 5.0
Sound	Sound 110db Voice 85dB
Battery type	LR14 x 4
Dimension (mm)	44(W) x 58(D) x 200(H)
Weight	506g
Operation temperature	-10 - 40°C
Operating humidity	85% RH max



# SE801

## Solar siren

The SE801 is an outdoor siren powered by solar energy and rechargeable battery. By its visible presence, the external siren indicates that an alarm system is installed and deters intruders. In case of intrusion, it alerts the neighborhood by its powerful 100 decibels piercing sound and a flashing red light.

- LED strobe to act as a visible deterrent
- Operates more than 30 days without sunlight charge
- Tamper alert protection and weatherproof design

### Technical specs

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Frequency range	868.30-923.00 MHz
RF range (open space)	>300m
RF protocol	U-Net 3.0
User interface	1 x Tamper switch, Link button, 1 x Jumper set, 1 x strobe light, 1 x siren piezo
Battery type	6V 1.2Ah lead acid x 1
Dimension (mm)	225(W) x 95.5(D) x 316.4(H)mm
Weight	1285g, including battery
Operation temperature	-10 - 40°C
Operating humidity	85% RH max





# SP201

## PIR + Temperature sensor

The wireless PIR sensor SP201 can activate alarm or scenarios when motion is triggered, in this way it is possible to control the flow of people and avoid intrusions. By detecting the heat of objects, the PIR sensor can also detect human presence on the darkness.

- Smart: auto-report status
- Easy: auto-binding
- Safety: tamper switch
- OTA: over-the-air programming
- Convenient: Mount on a flat surface or in the corner

### Technical specs

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Frequency range	868.0-868.6 MHz (EU) 902.0-925.0 MHz (US)
RF range (open space)	>1Km
RF protocol	U-Net 5.0
Detection range	6m/120°(8m/90°) mounting height 1.8m, at 25°C.
Battery type	AAA 1.5V x 4
Dimension (mm)	32(W) x 31.5(D) x 120(H)
Weight	83g
Operation temperature	-10 - 40°C
Operating humidity	85% RH max



# SF804

## Smoke detector

SF804 photoelectric wireless smoke detector is designed to sense smoke that comes into the detector chamber.

- Photoelectric sensor particularly effective in detecting smoldering fire
- Wireless two-way communication
- Loud internal siren and LED notification
- Meet requirements for EN14604 standard

### Technical specs

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Frequency range	868.30-923.00 MHz
RF range (open space)	>300m
RF protocol	U-Net 3.0
User interface	1 x Test button, 1 x Link button, 1 x LED
Battery type	9V PP3 alkaline x 1
Dimension (mm)	131.5(W) x 131.5(D) x 54(H)
Weight	173g, including battery
Operation temperature	-10 - 50°C
Operating humidity	85% RH max
Siren	85dBA @ 3m



# ST802

## Flood detector

Protect your property from water damage! The flood detector is designed to sense the presence of water, providing early warning of developing floods.

- IP44 protection
- Special water sensor
- Beep sound and LED indication
- Flood sensor cable length up to 3m

### Technical specs

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Frequency range	868.30-923.00 MHz
RF range (open space)	>300m
RF protocol	U-Net 3.0
User interface	1 x LED, 1 x Link, 1 x Buzzer
Battery type	1.5V alkaline AA x 3
Dimension (mm)	84.96(W) x 39(D) x 84.96(H)
Weight	134g, including batteries
Operation temperature	-10 - 40°C
Operating humidity	85% RH max





# SK201

## Keypad

The SK201 is a wireless keypad for the SC109 alarm system. It serves as a user interface device, in the absence of smartphone app, to display system status and to relay key input

- Touch button keys
- Shows arm/disarm status of alarm controller
- Shows Zone number, Fault number indicator
- Panic key combination
- Buzzer for beeps, siren and key tone press

### Technical specs

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Frequency range	868.30-923.00 MHz
RF range (open space)	>1Km
RF protocol	U-Net 5.0
User interface	14 x Button, 1 x Tamper switch, 3 x Status LED
Battery type	1.5V alkaline AA x 3
Dimension (mm)	95(W) x 93(D) x 29(H)
Operation temperature	-10 - 45°C
Operating humidity	85% RH max





# SM201

## Magnetic contact

The SM201 is used in security and home automation applications to detect opening or closing of doors/windows. It consists of two parts; a detector and a magnet.

Opening the protected doors/windows will remove the magnetic field, sending an alarm signal to the gateway. The magnetic could be placed in right or left of the detector by your requirement.

### Technical specs

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Frequency range	868.0-868.6 MHz (EU) 902.0-925.0 MHz (US)
RF range (open space)	>1Km
RF protocol	U-Net 5.0
User interface	1 x Tamper button, 1 x LED, 1 x Binding button
Battery type	AA 1.5V x 1
Dimension (mm)	24(W) x 25(D) x 90(H)
Weight	59g, including battery
Operation temperature	-10 - 40°C
Operating humidity	85% RH max



# VIDEO



# VC708

## WiFi IP camera

The IP camera is designed to monitor the premise where it is installed at in real time and send images to the server. The camera has a mechanism to move pan (0~350°) and tilt (0~45°). The recording function will be activated if an event is triggered under warning conditions

### Technical specs

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Image sensor	1/2.9" SONY CMOS
Min illumination	0.1 Lux / F1.8, 0 Lux (IR)
Lens	f3.6mm / F1.8
Video resolution	1920 x 1080 / 1280 x 720 / 720 x 480 / 352 x 240
Video compression	H.265
IR LED	2 units
Dimensions (mm)	100 Diameter ø 83
Weight	300g



# VC913

## Bullet IP camera

The IP camera is designed to monitor the premise where it is installed at in real time and send images to the server. The recording function will be activated if an event is triggered under warning conditions.

### Technical specs

---

Image sensor	1/2.9" CMOS
Min illumination	0.1 Lux / F1.8, 0 Lux (IR)
Lens	f3.6mm / F1.8
Video resolution	1920 x 1080 / 1280 x 720 / 720 x 480 / 352 x 240
Video compression	H.265, H.264, MJPEG
IR LED	2 units (range 25m)
Dimensions (mm)	173 (With brackets) Diameter ø 68
Weight	360g



# AUTOMATION



# AN132

## Smart plug

The unit is designed to control lighting and appliances. It is possible to turn on/off home devices and check the status directly from a smartphone.

### Technical specs

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Frequency range	868.30-916.00-923.00 MHz
RF range (open space)	>300m
RF protocol	U-Net 3.0
Max Load	2000W resistive type
User interface	1 x Button LED
Dimension (mm)	60(W) x 62(D) x 103.9(H)
Weight	149g
Operation temperature	-10 - 40°C
Operating humidity	85% RH max
Plug type	German, French, UK, Chile.
Special features	Overload protection



# AN149

## US type Smart plug

The unit is designed to control lighting and appliances. It is possible to turn on/off home devices and check the status directly from a smartphone.

### Technical specs

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Frequency range	923.00 MHz
RF range (open space)	>300m
RF protocol	U-Net 3.0
Max Load	1400W resistive type <small>(combined)</small>
User interface	1 x Button, 1 x LED, 2 switches
Dimension (mm)	69(W) x 35(D) x 110(H)
Weight	149g, including battery
Operation temperature	0 - 40°C
Operating humidity	85% RH max



# AN183

## EU type power metering plug

The unit is designed to control lighting and appliances. It is possible to turn on/off home devices and check the status directly from a smartphone.

### Technical specs

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Frequency range	868.30 MHz
RF range (open space)	>300m
RF protocol	U-Net 4.0
Max Load	3000W resistive type
User interface	1 x Button, 1 x LED
Dimension (mm)	50(W) x 59.4(D) x 79.2(H)
Weight	105g
Operation temperature	-10 - 40°C
Operating humidity	85% RH max



# AN189

## In-wall switch

The AN189 is an inwall module to turn on/off any home appliance by wireless control. Compact in design, yet certified for safety by makes it suitable for installation in cramped electrical box located behind wall switches.

Supporting U-Net technology and fully compatible with other U-Net controllers to create a smart home environment. This product incorporates the Everspring patented zero-crossing technology to prolong lifetime of the relay.

### Technical specs

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Frequency range	868.30-923.00 MHz
RF range (open space)	>300m
RF protocol	U-Net 3.0
Max load	1200W resistive type (Loading @ 110V) 2500W resistive type (Loading @ 230V)
Dimension (mm)	43(W) x 42(D) x 16.5(H)
Weight	34g
Operation temperature	-10 - 40°C
Operating humidity	85% RH max



# ST820

## Temperature & humidity sensor

The temperature & humidity detector is an accessory that measure the temperature and humidity in one area. The informations are delivered to the gateway which upload to the server for monitoring and home automation purposes.

Reports temperature and humidity condition every 30 mins

Alerts if temperature increases over 2°C in 3 minutes

### Technical specs

---

Frequency range	868.30-923.00 MHz
RF range (open space)	>300m
RF protocol	U-Net 3.0
Measurement	Temperature: -20 - 60°C, 0.1°C resolution
Battery type	1.5V alkaline AAA x 3
Dimension (mm)	86(W) x 40(D) x 17(H)
Weight	66g, including battery
Operation temperature	-20 - 60°C
Operating humidity	5 - 85% RH



# AC133

## Wall switch

The AC133 wall switch is a portable wireless switch designed to control the on/off status of other associated devices through the gateway.

After receiving the signals emitted by the wall switch, the gateway can then give commands or operate according to its own settings

### Technical specs

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Frequency range	868.30-923.00 MHz
RF range (open space)	>150m
RF protocol	U-Net 3.0
User interface	2 x Push button, 1 x link button
Battery type	1.5V alkaline AAA x 2
Dimension (mm)	80(W) x 80(D) x 18(H)
Weight	57g
Operation temperature	0 - 40°C
Operating humidity	85% RH Max



