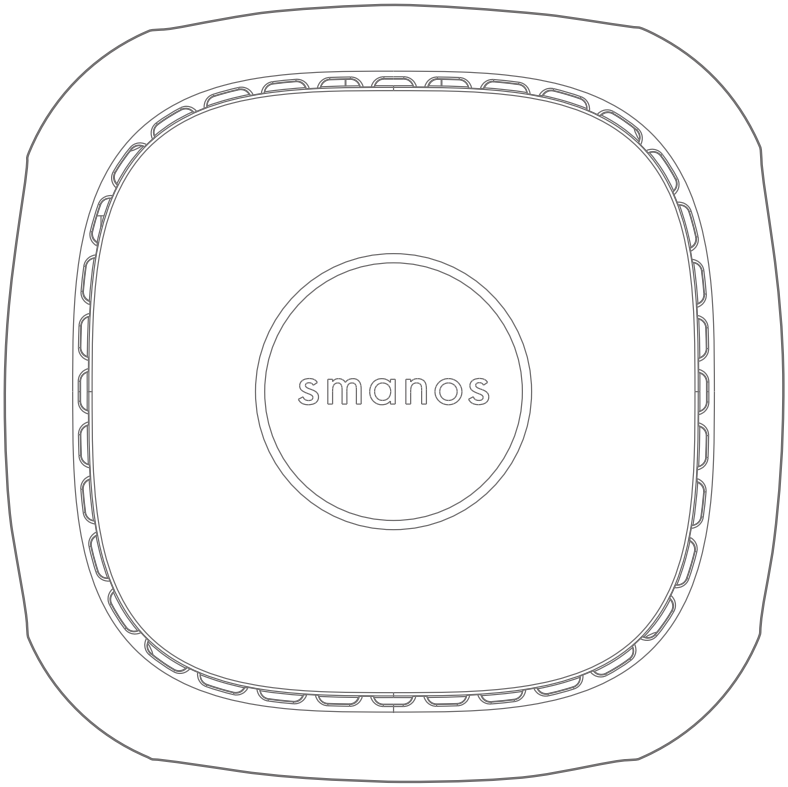
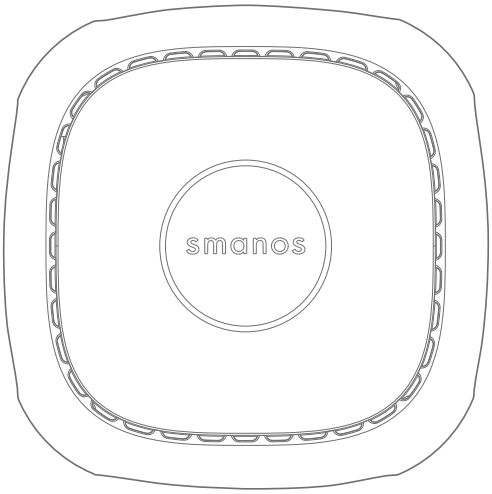
smanos®



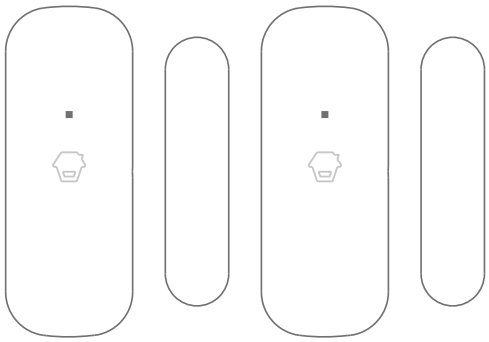
W120 WiFi Alarm System

Instruction Manual

In the Box

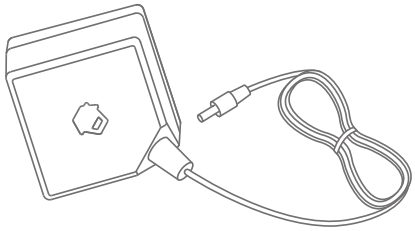


W120 Smart Hub x 1

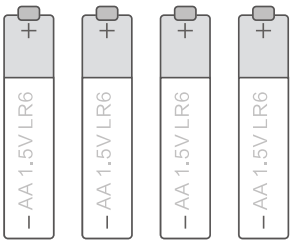


DS2300 Door/window Control x 2

RE2300
Remote Control x 1

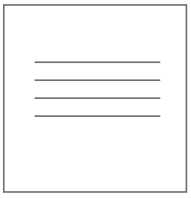


AC adapter x 1



AA Battery x 4

Reset Pin x 1



User Manual x 1

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Things to Know before Getting Started

Thank you for choosing smanos to help you take control of your home. The smanos family of Home Alarm Systems is designed to be self-monitored and help you become more active in securing your home without a high investment. We aim to provide a safe, easy & cost effective solution for you to protect your home & loved ones 24/7/365.

This system is an auxiliary system; it is not designed to provide complete protection from property loss. smanos will not be held responsible in the event that property loss occurs while this system is in operation.

Your WiFi Internet Connection

One critical factor that can affect the performance of your device is the position/ distance between your home WiFi router and the W120 smart Hub. Set up your Hub in an open space (DO NOT place it directly on the floor); the closer the Hub is to the router, the stronger the WiFi signal will be.

Please be sure to connect you Hub to WiFi using the 2.4GHz spectrum as this is a larger spectrum and the Hub does not support the 5GHz option which has been found to be the most common mistake when setting up the smart Hub for the first time.

Network Name and Password

- Check for your WiFi network name and the password and write down for easy reference. The WiFi network name is normally referred to as the SSID. The password or security ID is normally the next line or two down from the WiFi/SSID network name. These can be easily found on your WiFi router if you did not change them when you first installed the WiFi router, for example:

- WiFi/SSID Network Name: XXXX

- WiFi/SSID Network Password/Security Key: XXXXXXXXXXXXXX

Operating System Requirements

- iOS 8.0 or above with iPhone 5 or above;

- Android 5.0 or above

How the W120 System Works

Through the Remote Control, put the system in Armed Mode

The Hub is set to Armed Mode (The red indicator is on) by the user.

The Hub receives the command and enters "Armed" mode.

When a Door/Window Sensor detects a door/window opening, the sensor sends a signal to the Hub letting the hub know there has been an intrusion.

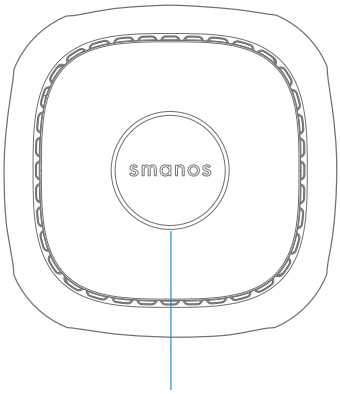
The Hub sounds at 95dB on-site.

The Hub sends push a notification to your phone.
And you wound receive an email when sensor is triggered if you enable notification function on in your App settings.

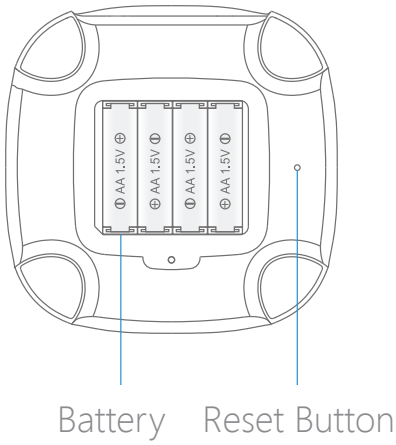
Getting to Know Your WiFi Alarm System

Hub

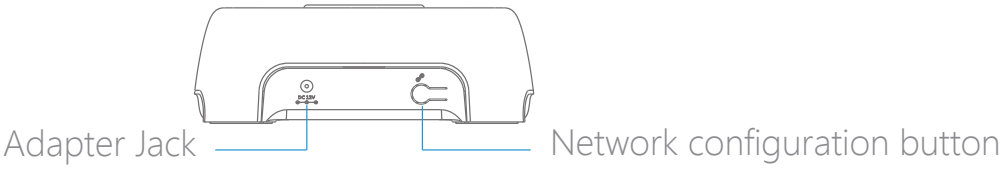
Front



Rear



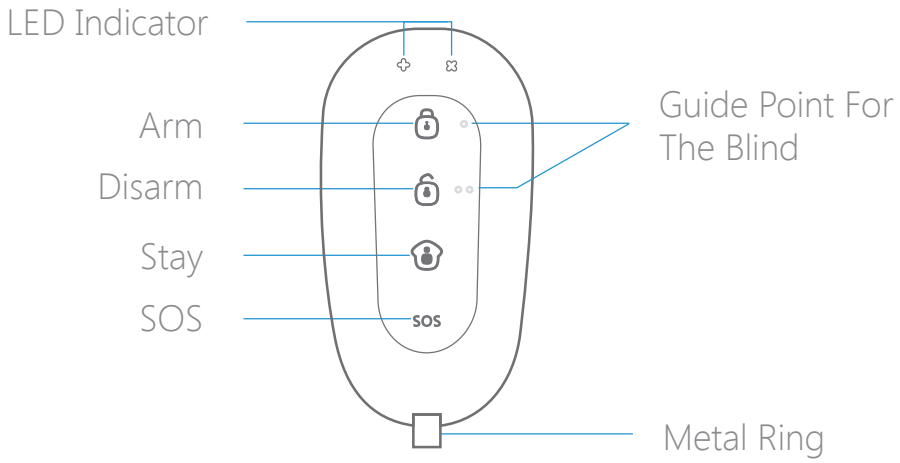
Side



Alternating red and blue lights flash	WiFi Configuration Mode
Alternating red, green and blue lights flash	Ready to pair with new accessory
Solid light	Stable WiFi connection
Flashes once every second	No Connection / Disconnected from the router
Flashes every 3 seconds	Low battery
Red light flashes quickly	A sensor has triggered the Alarm
Red light	Armed
Blue light	Armed in Home Mode
Green light	Disarmed

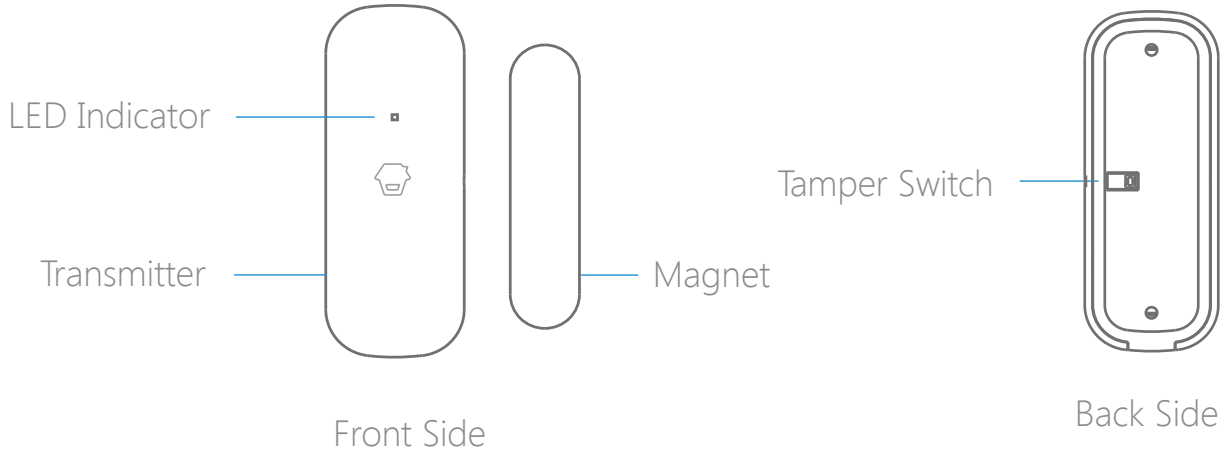
Note: The Hub must be always connected to AC power in order to maintain a WiFi connection. When AC power is lost, the speaker will beep for 30 seconds, and the Hub will stay online for 2 minutes; long enough to send out push notifications to users alerting them to the power disconnect. The system will remain active in a local manner only and, if armed, will monitor and sound siren if any sensor is triggered.

Remote Control



Button	System Status
	All Sensors will be Armed. This mode is for use when the property is unoccupied.
	The System will be Disarmed, no Sensors will be triggered. Note: When set to 'Disarm', sensors in 24-Hour Zone will remain active as they are factory set to Instant Alarm Zone.
	Sensors which are set to the Home Zone will not be Armed. All other Sensors will be Armed. This mode allows the occupier freedom of movement within the property without triggering the Home Zone Sensor(s).
SOS	The SOS Button will trigger an 'emergency' alert notification to registered users regardless of the Hub mode.
+	Press the [stay] button. After the indicator on the remote control blinks once, press [Arm] button within 3 seconds to mutely arm the system.
+	Press the [stay] button. After the indicator on the Remote Control blinks once, press [Disarm] button within 3 seconds to mutely disarm the system.

Door / Window Sensor



Door/ Window Sensors are set to 'Normal Zone' by default and are ideal for protecting entry/exit points such as front and back doors and windows. When the system is armed, and a Sensor is triggered (Magnet separated from the Transmitter), a push notification including the sensor name will automatically be sent to the registered users and the Hub Internal Siren will sound immediately.

Tamper Switch

The Tamper Switch (small black button underneath the back cover) will activate an alarm condition if any attempt is made to remove the Sensor from its installed location.

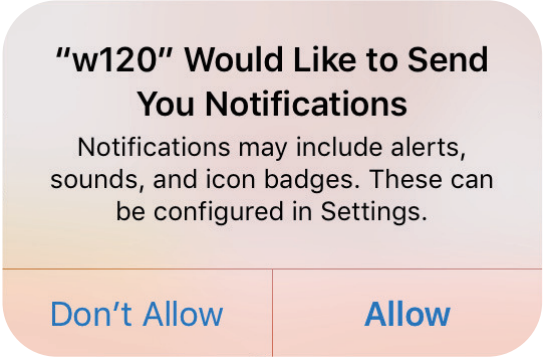
Low Battery Indication

If the LED indicator flashes once per 3 seconds, the battery needs to be replaced as soon as possible.

Getting Started

Download the "W120 WiFi Alarm System" App

Search for "W120 Alarm" in App Store/Google Play, then download and install the App.



Special Tips (For iPhone only)

Tap "OK" to allow receiving notifications from "W120 Alarm". Forbidden to receive notifications may result in an application running failure, please allow it to send notifications to your phone in case of alarm.

Sign Up/In

If you have not registered an account with smanos, please press "Sign Up" just below the "Sign In" icon on the App, and follow the instructions to create your account first.

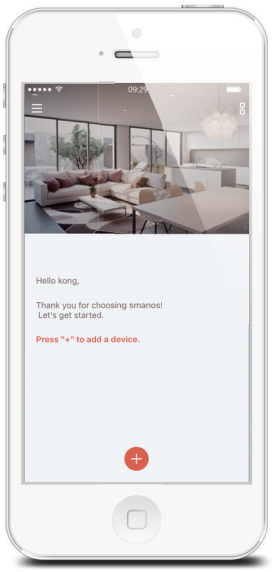
* If you do not receive an account verification code in your email box during the registration process, please remember to check your spam/junk folder and make sure the notice has not been blocked by your service provider.

Once you have an account with us, please select the "Sign In" icon and enter your email address and password to log in.

Adding a Device

You can operate multiple devices from a single account. If you have multiple W120 Hubs or P70 cameras; it is easy for you to manage these devices within this App.

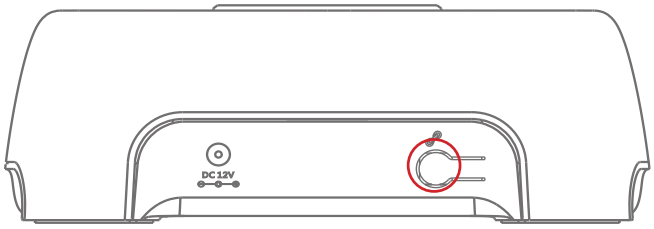
Press the [+] button on the main page. Tap on [W120 WiFi Alarm System], then follow the configuration steps to set up your W120 Hub with your home WiFi.



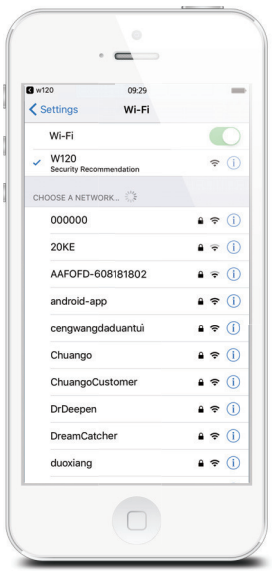
Important: W120 does not support WiFi of 5GHz band, if dual-band (5GHz and 2.4GHz) router under the same name is used, please go into your routers settings to separate these two bands into different names and make sure to select with the 2.4GHz WiFi instead of the 5GHz's.

① Plug the Power Adapter into the wall to power on the Hub.

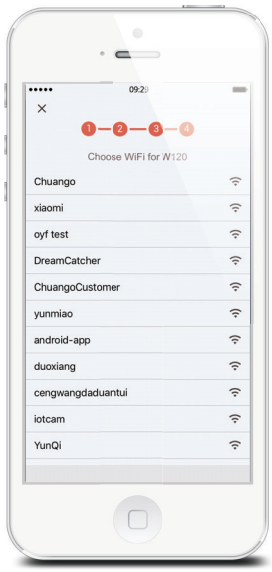
② Press the WiFi Configuration Button on the Hub for 3 seconds; You will hear a beep and the indicator light will alternate between red and blue, letting you know the Hub is now in the WiFi Configuration Mode.



③ Go to your phone's WiFi settings, look for and select "W120" hotspot to connect your mobile to the Hub. When connected, return to your app.



④ Select your 2.4GHz WiFi network from the list, and enter the WiFi network password. The Hub will connect to the selected WiFi network. This binding process should take about one minute.



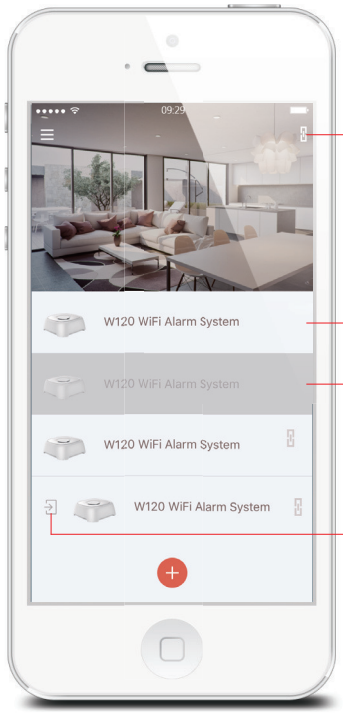
When a successful connection is established, the indicator will stop flashing.

Now, your W120 Hub is ready to help keep you safe & secure!

App Operation

Device List

Check device status after set up



Integrate your W120 Hub with cameras so you can directly view cameras in Hub's main page. And if this icon appears in the right of your device, it means integration has been completed.

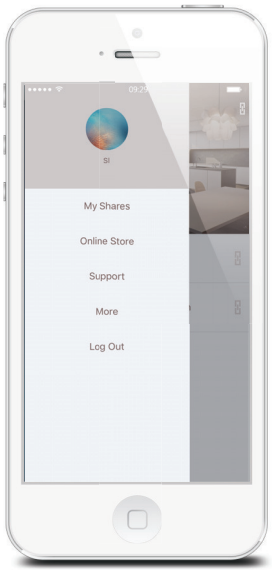
When the status bar is white, it means the device is ONLINE and available.
If the device is grayed out, it means the device is OFFLINE and cannot be accessed.

If this icon appears in the left of your device, it means the device is shared from your family or friends to you.

Account Management

Editing Your Account

Tap on [ ] on the main page to manage your account.



Account Image

Tap on the picture, and you can add or replace your account image by taking a picture or choosing a picture from your phone's album.

Account Name

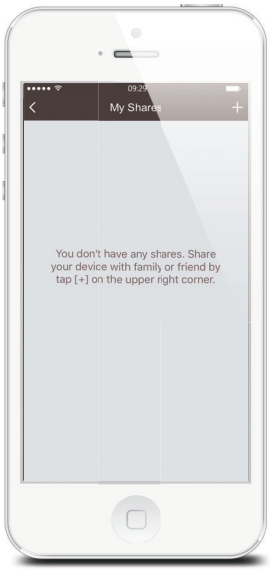
If you want to change your account name, just tap on the [ ] button and enter a new name.

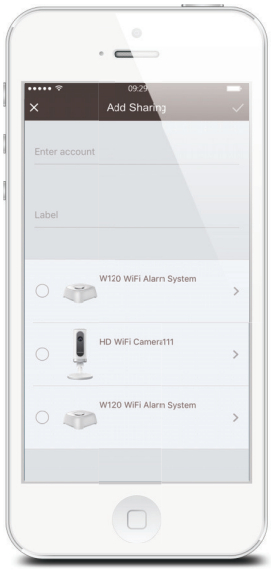
Account Password

You can change your password on this page.

My Shares

Sharing your device with family or friends.





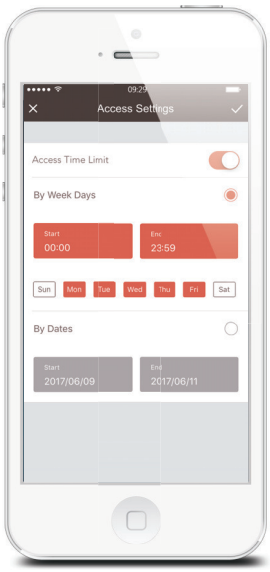
By choosing "My Shares" on the menu and pressing the [+] Add Button, you can share access to your device(s) with other registered smanos accounts.

Enter the email address and nickname of the account you want to share with, and then select the device(s).

The user who receives the shared device(s) can only edit the name of the device(s) and receive alerts; they will NOT be able to re-share the device with anyone else, or change settings.

It is highly recommended that you set access limits to those who you may share your device (s) with. By not doing so, you grant your family members or friends continual accesses to the device(s) you have shared.

Access Settings



① By Week Days

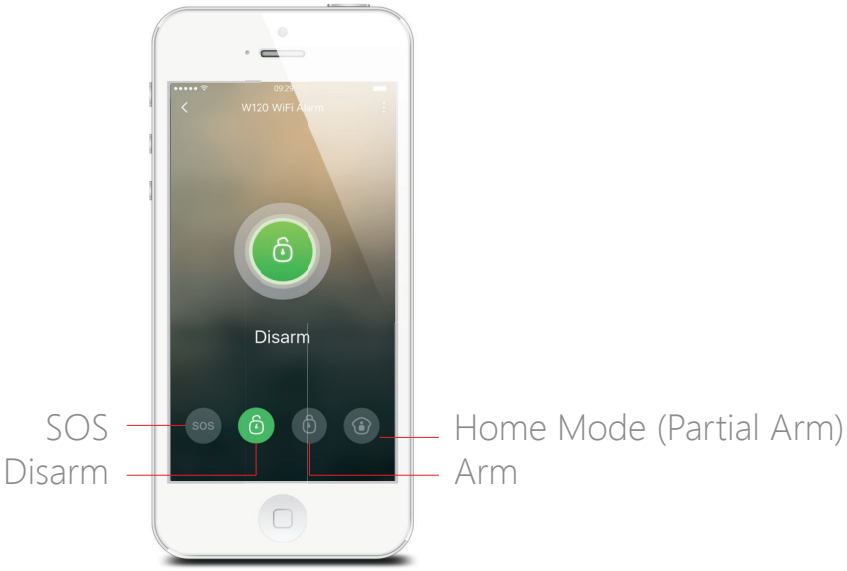
Select the day(s) and routine you wish to share your device with others.

② By Dates

Users you share your device with will have access during the period you choose.

App Control - Main Page

Arm, Disarm, Home Arm (Partial Arm) this system and trigger an emergency alarm can be done at this page.



Important Notice: In order to control the system remotely (WiFi/App), the Hub must be receiving power from the wall. If the power adapter is unplugged the WiFi will be disabled to

conserve battery power that enables the system to still communicate with the sensors for a longer period of time.

System Armed

In this mode, all of the sensors are on alert; the Hubs built-in siren will sound when a sensor is triggered. You and ALL other pre-authorized users will receive push notifications to yours and their devices. This mode is recommended for when no one is at home; it can be easily set from the remote control or app.

System in Home Mode

Only ""Home Zone" sensor will stop detecting under this Mode, which enables you and your family to move freely inside your home without accidentally triggering an unwanted alarm.

This mode is recommended for when someone is at home, such as during the night, and can be easily set from the remote control or app.

Note: The door/window sensors in this kit have been set to Normal Zone by default, you can refer to page 18 and change their zone mode on the "Accessory Settings" of the App.

System Disarmed

All the sensors stop detecting except any sensors that you may have set to 24-Hour Zone. 24-Hour Zone Sensors will continuously monitor a particular area. For example. an extra smanos Water Sensor which has been set to 24-Hour Zone by default and installed near a washing machine would trigger alarm if water is detected, regardless of system status.

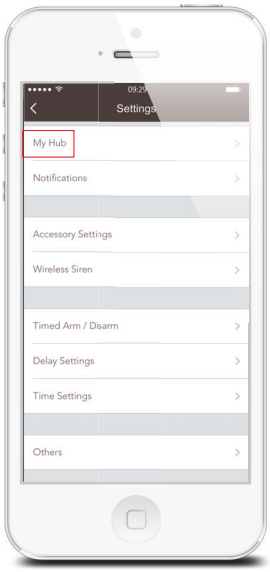
History Page

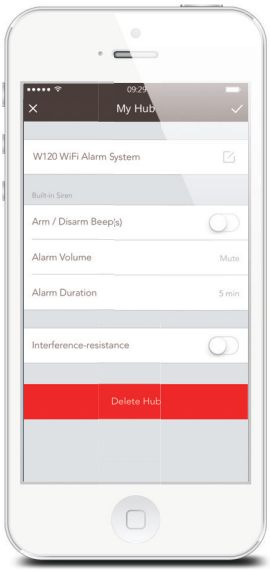
Operations and triggered alerts can be reviewed from this History page, you can tap on [ ] to pick a specific day to facilitate your search of operations and alerts of interest.

The Event Log holds a record of up to 300 events.

App Settings

My Hub





① Device Name

This setting enables you to rename your W120 WiFi Alarm System, and the new name will be shown on the Device List.

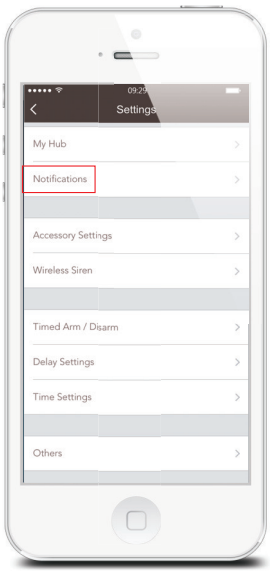
② Built-in Siren

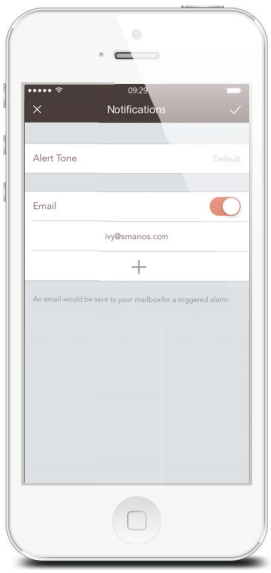
This setting enables you to adjust the volume level, alarm duration, and arm / disarm beep of the built-in siren in your W120 WiFi Alarm Hub.

③ Interference-detection

The W120 Hub has a feature of interference-detection. If this feature is enabled, an alarm will be triggered if the radio channel is jammed continuously and the built-in siren will sound rapid beeps as a pre-alarm warning 10 seconds before a full alarm occurs. The function is switched off in default.

Notifications





① Alert Tone

This setting enables you to select a ringtone for alarm notifications.

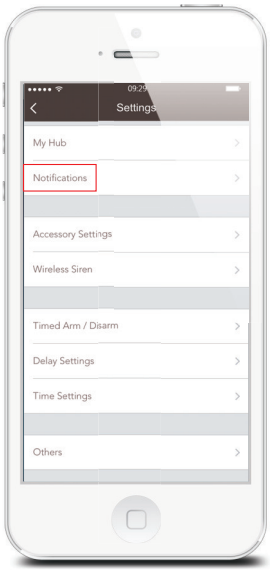
② Email

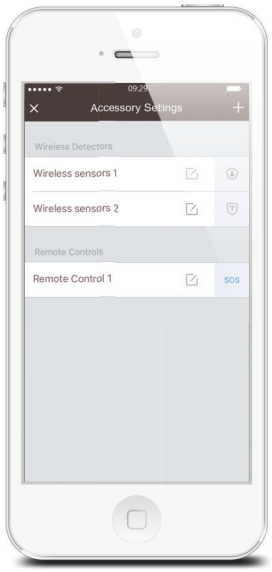
This setting enables you to add email addresses to receive alarm notifications.

Accessory Settings

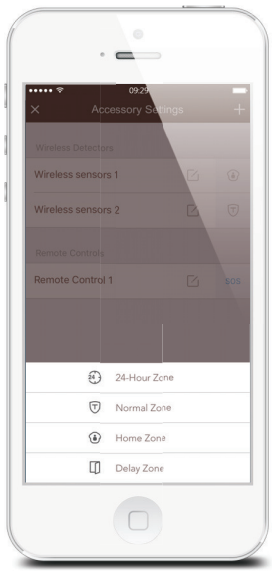
Add, rename and change the Zone Mode of each sensor in this setting page.

And if you want to delete the accessory, just press and slide the accessory to the left and then delete it.





Zone Mode



Normal Zone: Sensors set to Normal Zone are armed when the system is in Arm (Full Arm) or Home Arm (Part Arm) Mode. We recommend setting Window/Door Sensors to this zone because they would always be installed to the perimeter of a house in practice, like doors or windows.

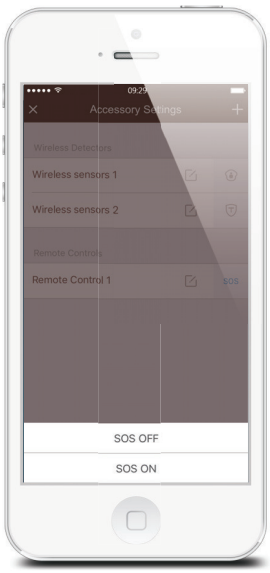
Home Zone: Sensors set to Home Zone are only armed when the system is in Arm (Full Arm) Mode. If Home Mode (Partial Arm) is used, these Sensors are not armed and will not activate the alarm on trigger. We recommend setting PIR Motion Sensors (if purchase separately) to Home Zone because they should be installed inside the house.

24-Hour Zone: Sensors set to 24-Hour zone will activate the alarm when triggered, regardless of the alarm status at the time (Armed or Disarmed or Home).

Delay Zone: The working mode of sensor in this zone will be same as Normal Zone sensor's, but the Hub will alarm after an Entry Delay Time * if this sensor is triggered when system was armed or in home mode.

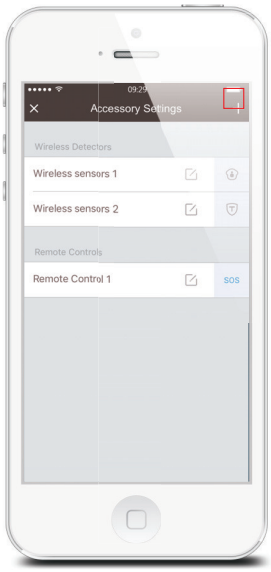
* Entry Delay Time: you can set this delay time on App [Settings]-[Delay Settings]-[Entry Delay Time].

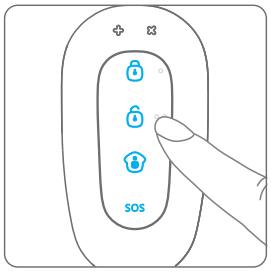
SOS Function of Remote Control



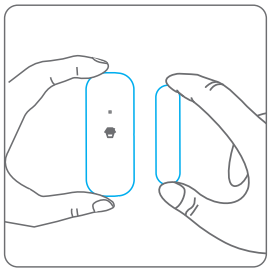
This setting enables you to turn ON/OFF the SOS function of every remote control to avoid false triggering.

Add Accessories





Press any button on the remote control

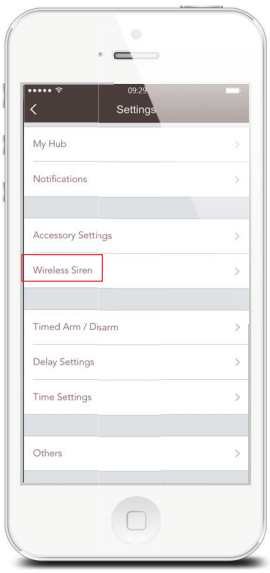


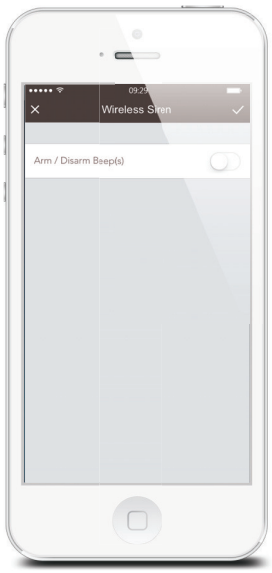
Separate the transmitter from the magnet

Very Important: Please note that pressing the Tamper Switch of the Sensor instead of triggering the Sensor will register it as a 24 Hour Zone.

Note: Please refer to the user manual of the new purchased accessory and then follow its steps to pair it with W120 Hub.

Wireless Siren (If Purchase Separately)



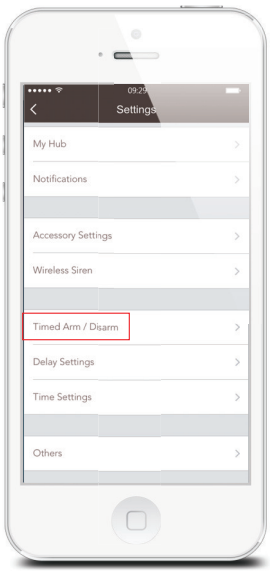


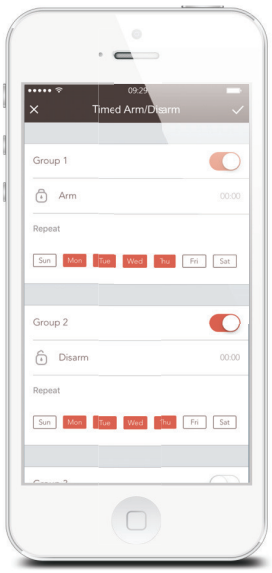
smanos wireless siren will beep once or twice when system is armed or partial armed.

This setting enables you to turn on/off this prompt tone.

This function is switched off by default.

Timed Arm / Disarm

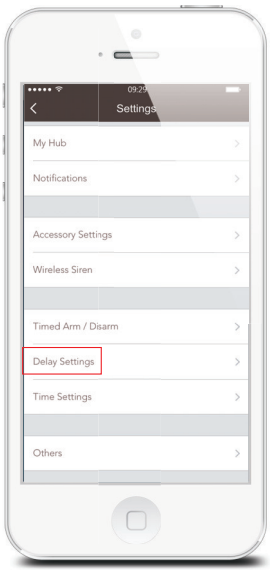


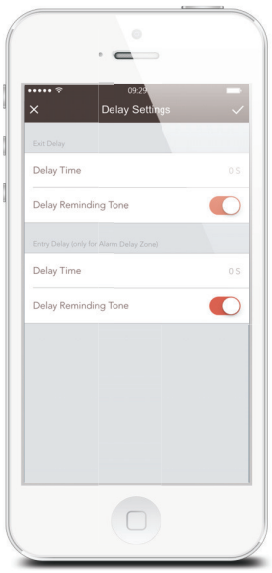


The system can be programmed to automatically Arm and Disarm the Hub at predefined times by following the steps below:

1. Slide the switch to the "ON" position to activate the setting.
2. Choose any status you want the system to become (Arm / Disarm / Home Arm).
3. Choose the activate time of the status.
4. Tap the date that you want this Timed Group repeat.

Delay Settings



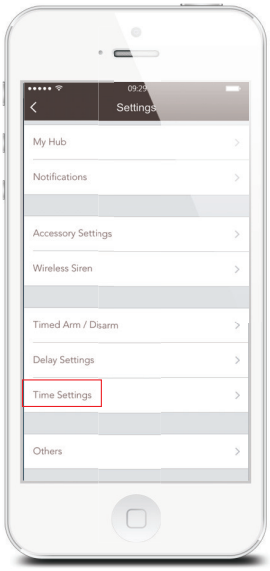


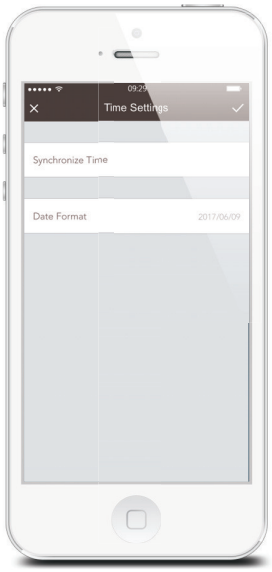
Exit Delay Time: Set a time delay and turn on/off reminding tone for you to leave your property without triggering an alarm.

Entry Delay Time: Set a time delay and turn on/off reminding tone for you to enter your property without triggering the Delay Zone* Sensor(s).

*Delay Zone: please refer to page 19.

Time Settings





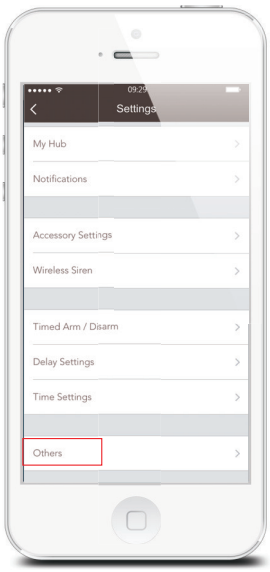
① Synchronize Time

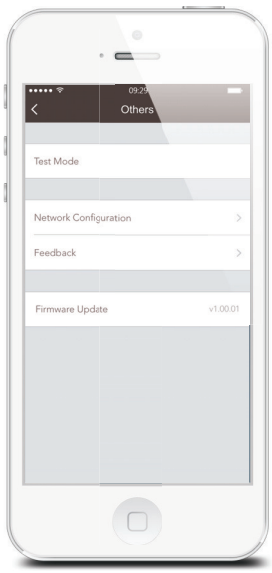
This setting enables you to synchronize device time to your mobile, to make sure the time shown on the history and the time on push notifications are correct.

② Date Format

This setting enables you to change the format of the date shown on your smanos home app.

Others

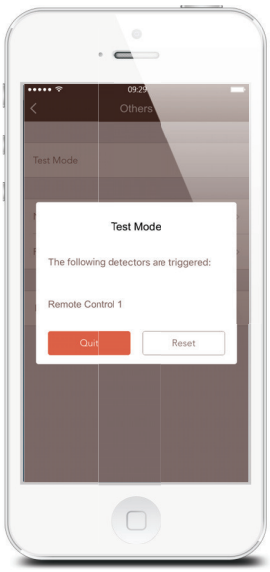




① Test Mode

With test mode, you can check the range between accessories and your Hub without triggering any alarm, and prevent tamper switch alarm triggered while installing the accessories or replacing batteries.

Once a trigger is detected during this process, the name of the triggered sensor will be displayed.



② Network Configuration

With network configuration, you can check current network your Hub connecting and modify your WiFi when there's stronger one without rebuilding a WiFi connection, so the Hub will work more smoothly.

Or you can choose reconfiguration directly to reconnect your Hub and WiFi network.

③ Firmware Update

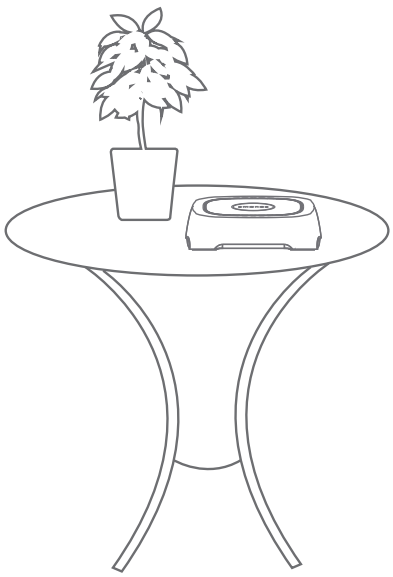
This setting enables you to update your Hub to the latest firmware if necessary. WHEN AN UPDATE IS TAKING PLACE, FORCED TERMINATION WILL CAUSE SERIOUS DAMAGE TO YOUR HUB. It is highly recommended that you keep your W120 Hub plugged in at all times, and DO NOT SWITCH THE DEVICE OFF BEFORE AN UPDATE IS COMPLETED.

Update steps: tap on [Firmware Update], and you will see the red light flash quickly which indicates the update has started.

Installation

Hub

Place on the table and start to use



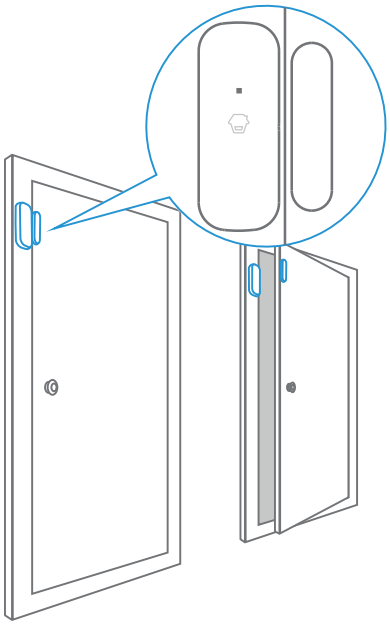
Notice: avoid using it next to a load-bearing wall or home appliances which may cause attenuation. It is highly recommended to place the Hub in the center of the system or open area for optimal performance.

Door/Window Contact

Make sure the contacts work properly before installation.

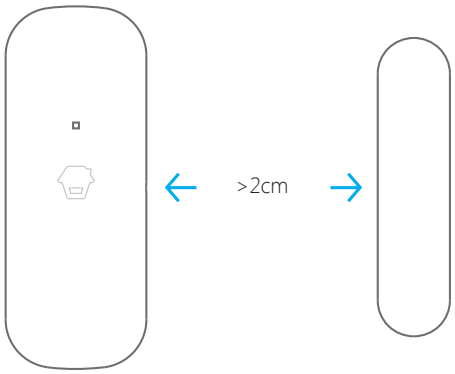
Step 1: Choose a suitable location

It can be installed on doors, windows or any other objects that can be opened and closed. If it is applied to a mental door, please place spacer under the transmitter and magnet.



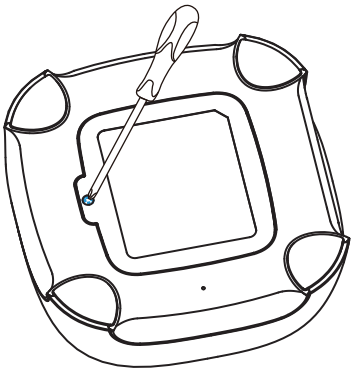
Step 2: Secure the contacts with double-sided taps

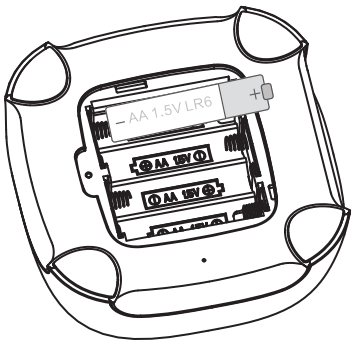
Make sure the triangle marks on the side of the transmitter and magnet are facing & close to each other and within the range of 1 cm. As you separate and the space between them is over 2cm, the LED on the transmitter will blink once.



Replacing Batteries of Accessories

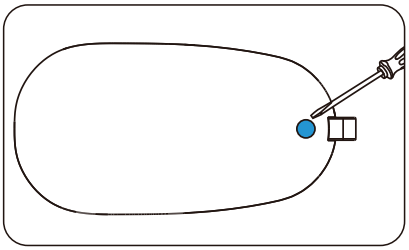
Smart Hub W120



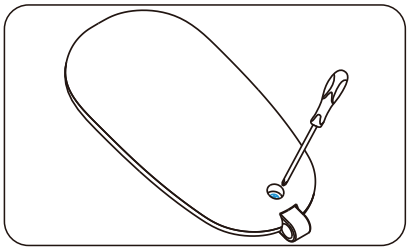


Open the case and change the battery

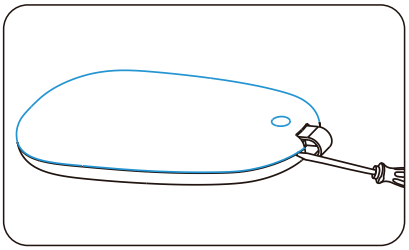
Remote Control RE2300



Remove the rubber item

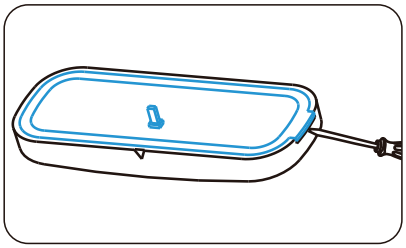


Loose the screw



Open the case and change the battery

Door/Window Contact DS2300

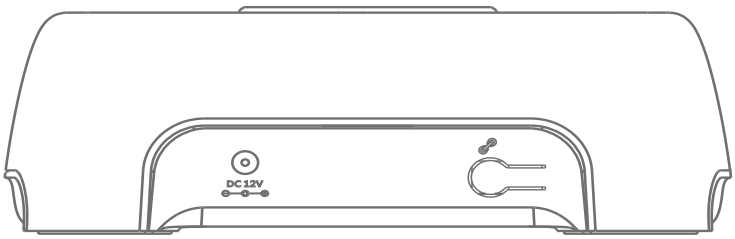


Open the case and change the batteries

Restoring to Factory Settings

Press the WiFi Configuration Button shortly 3 times, and you will hear 2 beeps when you finish the third short press. Then long press the Hub until you hear a long beep. After that, the Hub is restored to factory settings.

Note: the accessories will not be deleted after restoring to factory settings.



Troubleshooting

Problems	Reason/ Solution
The Hub dose not respond to app operation	Check whether the local network is working
	Make sure the Hub is powered by adapter
Remote control does not work	Check if the remote control has been paired to the Hub successfully
	The distance between the Hub and remote control is too far away
Door/ Window contact is triggered but the control does not alarm	Check whether the system is in arm state
	Check if the Door/ Window contact has been paired to the Hub successfully
	The distance between the Hub and Door/ Window contact is too far away
No sound when alarming	Check if the volume of the Hub is set to mute; Reset alarm ring volume on App

Specifications

Hub

Power Supply	DC 12V 500mA
Battery	AA 1.5V LR 6 x 4pcs
Standby Current	<60 mA
Alarm Current	<200 mA
Internal Siren	95dB
Expandable Accessories	10 remote controls, 50 sensors
WiFi	IEEE 802.11b/g/n20
Radio Frequency	915MHz(±75 KHz)
Housing Material	PC+ABS Plastic
Operating Condition	Temperature -10°C~+55°C Relative humidity <80% (non-condensing)
Dismensions	117 x 118.5 x 40.5 mm (L x W x H)

Remote Control

Power Supply	DC 3V (CR2032 lithium cell battery x 1)
Transmitting Current	<10 mA
Transmitting Distance	<80 m (open area/no interference)
Radio Frequency	915MHz (±75 KHz)
Housing Material	PC+ABS plastic
Operating Condition	Temperature -10°C~+55°C Relative humidity <80% (non-condensing)
Dimensions	71 x 38 x 12 mm (L x W x H)

Door/ Window Contact

Power Supply	DC 3V (CR2032 lithium cell battery x 2)
Static Current	<2 uA
Alarm Current	<22 mA
Transmitting Distance	<80 m (open area/no interference)
Radio Frequency	915MHz (±75 KHz)
Housing Material	PC+ABS Plastic
Operating Condition	Temperature 0°C~+55°C Relative humidity <80% (non-condensing)
Transmitter Dimensions	72.5 x 28 x 10 mm (L x W x H)
Magnet Dimensions	58 x 14 x 9.5 mm (L x W x H)

FCC Warning:
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
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 (2) this device must accept any interference received, including interference that may cause undesired operation.

ISED RSS Warning:
This device complies with Innovation,Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

ISED Radiation Exposure Statement:
This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Le rayonnement de la classe b repecte ISED fixaient un environnement non contrôlés.Installation et mise en œuvre de ce matériel devrait avec échangeur distance minimale entre 20 cm ton corps.Lanceurs ou ne peuvent pas coexister cette antenne ou capteurs avec d'autres.

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Printed in China
PA : W120-UM-EN-V1.0