

User's Guide

Text entity: en_us Model No.

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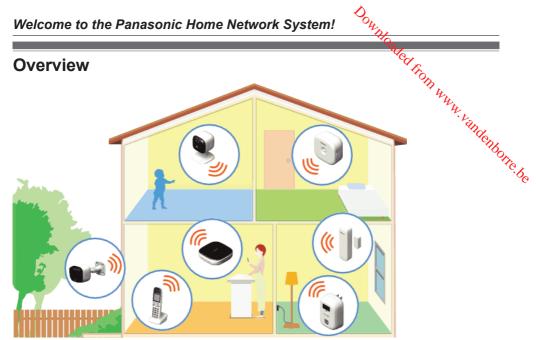
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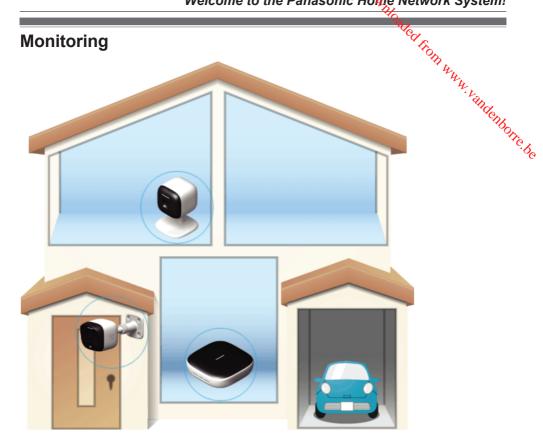
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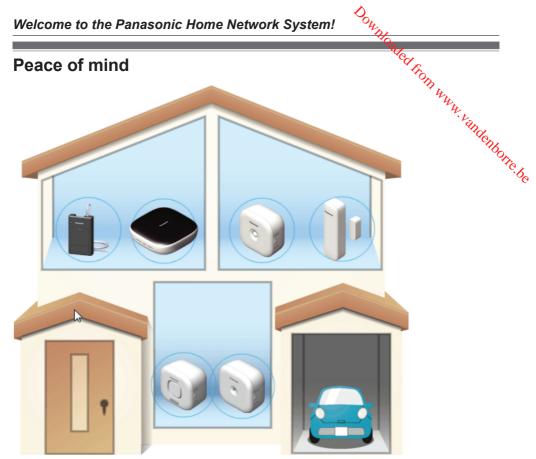


The Panasonic Home Network System is a wireless network of powerful devices that help you monitor, control, and manage your home. Its easy-to-use app allows you to stay in charge even when away from home.



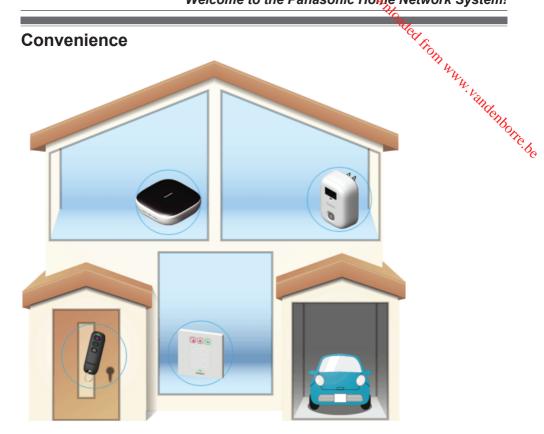
You can use your smartphone or tablet to watch live images from your cameras, even when away from home. You can even talk to and listen to your cameras. Select an item to learn more.





You can use a variety of sensors, including motion sensors, window sensors, door sensors, and the sensor features built in to cameras, to trigger camera recording features, call a pre-programmed phone number when the alarm system is triggered, sound a siren, or send a notification to your smartphone or tablet.

Additionally, backup batteries can supply power to your devices in the event of a power failure. Select an item to learn more



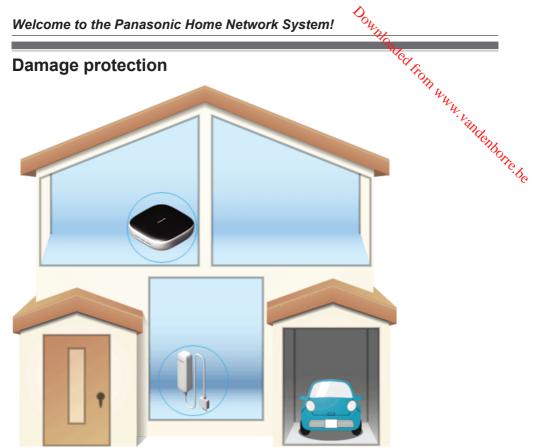
You can use your smartphone or tablet to turn on lights or other appliances that are connected to your smart plugs*1.

By installing keypads near frequently used entrances, you can arm and disarm the system easily on your way out or as soon as you walk in the door.

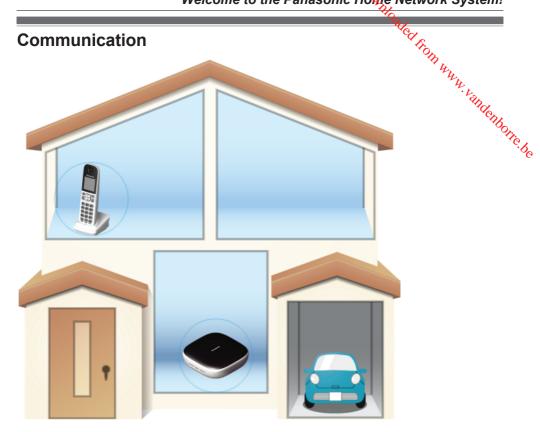
Additionally, keychain remotes allow you to quickly arm and disarm the system with a simple press of a button, with no screen locks or passwords to slow you down. Select an item to learn more.

*1 Smart plug appearance varies by region.





You can use water leak sensors to notify your smartphone or tablet when water is detected. Select an item to learn more.



You can use your smartphone, tablet, or a cordless handset to make and receive phone calls using your landline while at home.

Select an item to learn more.

Overview

The Home Network System can be expanded to suit your needs. You can choose a pre-configured bundle, add individual devices to an existing bundle, or build your own system by selecting the desired devices.

Maximum number of devices

The maximum number of devices for each device type is listed below.

Noto:

- Availability and release dates of devices and bundles may vary by region.
- Device appearance may vary by region.

Welcome to the Panasonic Home Network System!

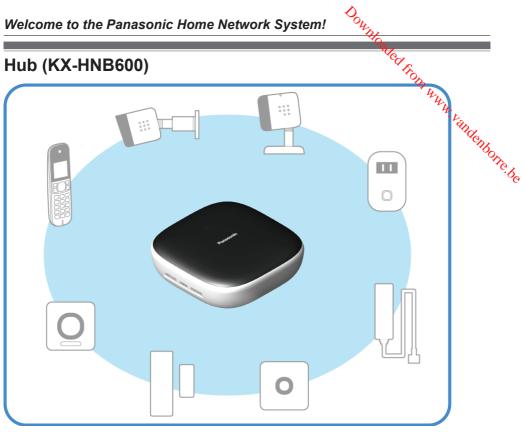
		_
Hub KX-HNB600	1	
Indoor Camera KX-HNC200 KX-HNC210	4	
Outdoor Camera KX-HNC600	•	

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	Welcome to the Pana	sonic	Home Network System!
	Window/Door Sensor KX-HNS101		Home Network System! Home Network System! Note of Front Walder State of Front Walder S
10 44	Motion Sensor KX-HNS102		W. Vandenbo.
	Water Leak Sensor KX-HNS103		Tre.be
100	Glass Break Sensor KX-HNS104		
O	Indoor Siren KX-HNS105	50	
•	Smart Plug KX-HNA101		
(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Access Keypad KX-HNK101		
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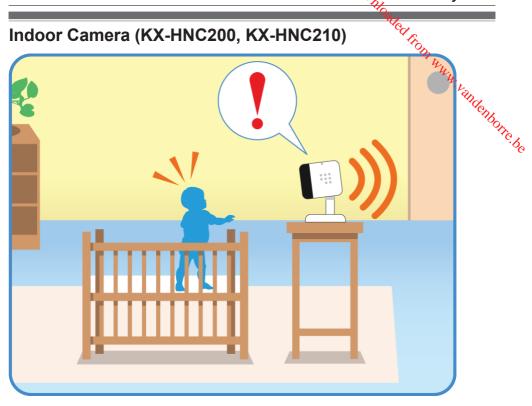


Hub (KX-HNB600)



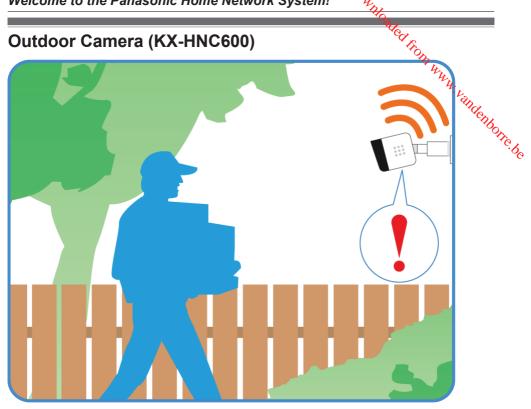
- Joins all system devices together
- Connects to your landline for making and receiving calls
- Supports SD card connection for recording camera video and audio

Indoor Camera (KX-HNC200, KX-HNC210)



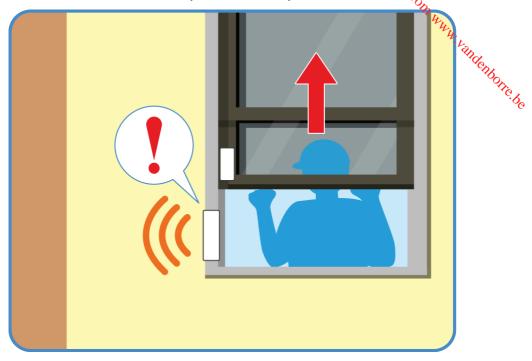
- Full-color camera with night vision and built-in microphone for live monitoring and recording
- Built-in motion sensor (visual detection), sound sensor, and temperature sensor can be used to trigger other actions (camera recording, turning on a light, etc.)
- Built-in microphone and speaker for two-way communication

Outdoor Camera (KX-HNC600)



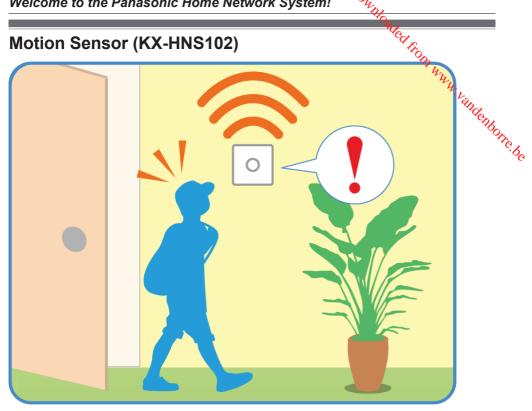
- Full-color camera with night vision and built-in microphone for live monitoring and recording
- Built-in motion detection features (image sensor and infrared sensor) can be used to trigger other actions (camera recording, turning on a light, etc.)
- Built-in microphone and speaker for two-way communication
- Splash-proof design for outdoor installation

Window/Door Sensor (KX-HNS101)



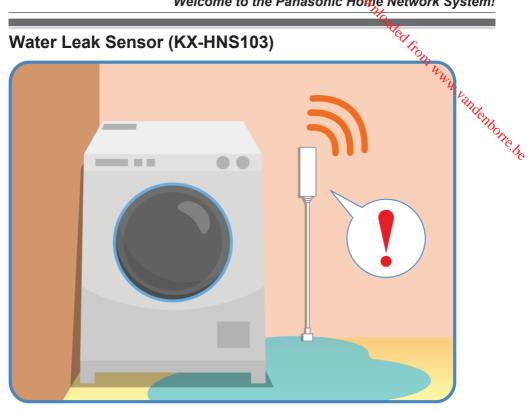
- Detects when the corresponding window or door is opened
- Can be used to trigger other actions (camera recording, turning on a light, etc.)

Motion Sensor (KX-HNS102)



- Uses an infrared sensor (i.e., heat sensor) to detect motion in the surrounding area
- Can be used to trigger other actions (camera recording, turning on a light, etc.)

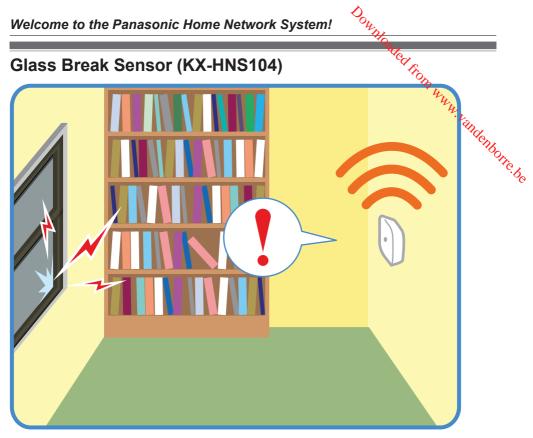
Water Leak Sensor (KX-HNS103)



- Uses a small probe that can detect water
- Can be used to trigger other actions (camera recording, turning on a light, etc.)

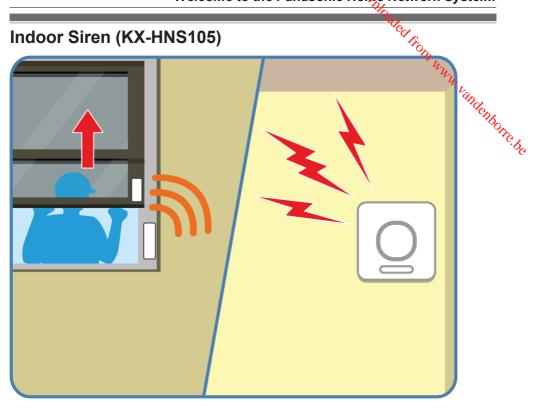


Glass Break Sensor (KX-HNS104)



- Uses a microphone that can detect the unique sound frequencies that are produced when glass breaks
- Can be used to trigger other actions (camera recording, turning on a light, etc.)

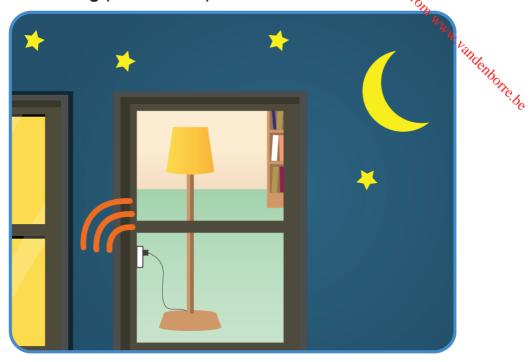
Indoor Siren (KX-HNS105)



- Uses a loudspeaker and strobe light to alert you when the alarm system is triggered
- You can enable and disable the loudspeaker and strobe light for each siren

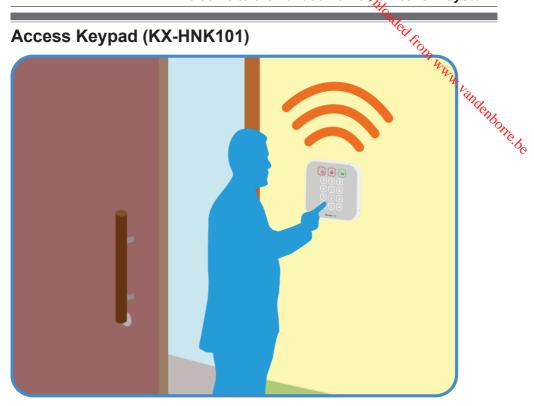
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Smart Plug (KX-HNA101)



- Can be turned on and off using the app, when a sensor is triggered, or according to a schedule
- Built-in overcurrent and overwattage detection for added peace of mind
- Power consumption is logged for your reference

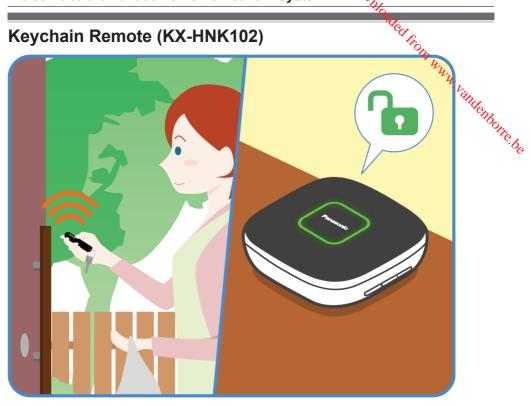
Access Keypad (KX-HNK101)



- Allows you to quickly confirm and change the system's arm mode
- Can be wall mounted inside your home near the entrances and exits for easy access



Keychain Remote (KX-HNK102)



- Allows you to quickly change the system's arm mode when you come home or are going out
- Can be used to trigger a pre-programmed operation, such as turning on a smart plug or sounding an alert
- Can be attached to a set of keys for added convenience

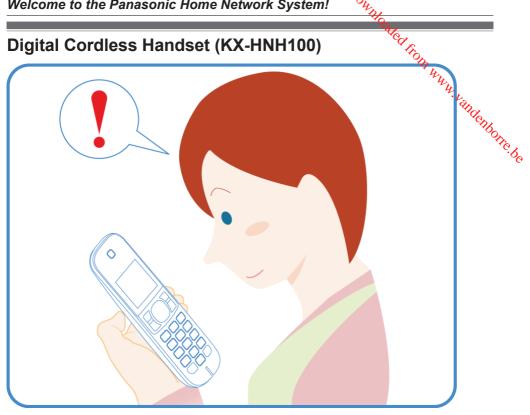
Backup Battery (KX-HNP100)



- Supplies power to your hub or other devices in the event of a power outage
- Can be used to trigger the hub to call a pre-programmed phone number in the event of a power outage



Digital Cordless Handset (KX-HNH100)



- Makes and receives calls using your landline
- Can be used to change the system's arm mode
- Displays system status

There are 4 basic steps you need to perform in order to access the system from your mobile device.

Connections	Connect your hub to a power outlet and to your telephone line.*1	
\	TO MAN.	
Download	Download the [Home Network] app to your mobile device.	
↓	andent	
Initial setup	Use the [Home Network] app to configure the hub to connect to your wireless router, and then register your mobile device to the hub.	
\downarrow	e de la companya de	
Register devices	Add more mobile devices (smartphones and tablets), cameras, sensors, and other devices to the system.	

^{*1} Refer to the System Setup Guide included with your hub for more information.

Download information is available at the web page listed below.

{{"www.panasonic.net/pcc/support/tel/homenetwork/"|tolink("http://www.panasonic.net/pcc/ support/tel/homenetwork/")}}

Requirements

- Hub (KX-HNB600)
- A wireless router
- A compatible mobile device

Compatible mobile devices

- iPhone 4 and later, iPad (iOS 6.0 and later)
- Android smartphones and tablets (Android 4.0 and later)
- Minimum recommended screen size: 1280×720 (screen content may not be displayed properly on devices with smaller screens)

Note:

- The [Home Network] app may not function properly depending on the system environment, such as the model of your mobile device, the peripherals connected to your mobile device, and the apps installed on your mobile device.
- The following Android devices are not compatible with the [Home Network] app.
 - Android devices that are not supported by Google Play
 - Android devices with limited hardware features (Bluetooth, Wi-Fi, and microphone support are required.)

In order to use your mobile device to access the system, you must first configure the hub to access your wireless router.

Note:

- If your hub is already configured to access your wireless router, you do not need to perform this procedure again.
- If you have completed this procedure and want to register another mobile device to the hub, see "Registering other mobile devices to the hub". Page 28.
- If you experience trouble while performing this procedure, refer to the information in "Sometimes I cannot access the system while at home", Page 110.

System setup

Before you begin
In this procedure, the hub will enter "temporary access point mode". In this mode, you can connect your

- Make sure you know the network name (SSID) and password assigned to your wireless router

Note:

• The hub only supports the 2.4 GHz wireless band. Before performing the initial setup, make sure your mobile device is connected to the wireless router using the SSID that is assigned to the 2.4 GHz band of your wireless router. When prompted to enter your wireless router's password, enter the password that is assigned to the 2.4 GHz band.

Initial setup for iPhone, iPad

Start the [Home Network] app by tapping its icon (shown below).



- The end-user license agreement is displayed the first time you start the app.
- If your device is not compatible with the app, a message about incompatibility will be displayed when you start the app.
- 2 Tap [Set up the Hub].
 - A description of the initial setup procedure is displayed.
- **3** When prompted, press the **Wi-Fi SETUP** button on the hub.
 - The hub's LED indicator blinks in yellow.
- Change your mobile device's Wi-Fi setting temporarily so that it connects to the hub directly.
 - Open your mobile device's [Settings] app, tap [Wi-Fi], select "KX-HNB600 Panasonic", enter "00000000" as the password, and then tap [Join].
 - If more than one item named "KX-HNB600 Panasonic" is displayed, wait approximately 10 minutes and perform this procedure from the beginning.
- Start the [Home Network] app again.
- 6 If necessary, enter the password required to connect to your wireless router and then tap [Next].
 - The hub and your mobile device connect to your wireless router.
 - If prompted, follow the on-screen instructions and connect your mobile device to your wireless router, start the app again, and then tap [Add This Mobile Device].
 - If you enter the wrong password, [Setup failed.] is displayed and the hub's LED indicator lights. Proceed as follows according to the color of the hub's LED indicator.
 - If the LED indicator is lit in yellow, repeat the initial setup procedure from the beginning.
 - If the LED indicator is blinking quickly in green, you must reset the hub's Wi-Fi settings. See "If the hub's LED indicator blinks quickly in green", Page 27.
 - The hub's MAC address is displayed on this screen. If your wireless router uses MAC address filtering for extra security, make a note of the hub's MAC address and add it to your wireless router's list of MAC address that are allowed to access the router.
- 7 When prompted, press the **Wi-Fi SETUP** button on the hub.
 - Your mobile device will be registered to the hub.

- 8 When prompted, set the password used to log in to the hub while away from hope and then tap [OK].
- **9** When prompted, enter a name for your mobile device and then tap **[OK]**.
- This setting allows you to change the name assigned to your device. It can help you jdentify your mobile device when performing certain operations using a cordless handset.

 10 When prompted, select whether you want to customize device profiles, i.e., the device name, ocation, and other settings for your devices.

 If you choose not to customize the device profiles now, you can change them later if desired (see of the device profiles (device names, locations, and other settings)", Page 92).
- - repeatedly until the "completed" message is displayed. finished, tap
 - The app's home screen is displayed when initial setup is complete.

If the hub's LED indicator blinks quickly in green

If you enter the wrong Wi-Fi password during the initial setup procedure for iPhone or iPad, [Setup failed.] is displayed and the hub's LED indicator blinks quickly in green. In this case, perform the following.

- 1 Press and hold the 3 registration buttons on the side of the hub and the Wi-Fi SETUP button on the back of the hub at the same time (4 buttons total) until the hub's LED indicator blinks slowly in green and yellow.
- 2 Wait for the hub's LED indicator to light in yellow.
- 3 Repeat the initial setup procedure ("Initial setup for iPhone, iPad", Page 26).

Initial setup for Android devices

Start the [Home Network] app by tapping its icon (shown below).



- The end-user license agreement is displayed the first time you start the app.
- 2 Tap [Set up the Hub].
- 3 When prompted, press the Wi-Fi SETUP button on the hub.
 - The hub's LED indicator blinks in yellow.
 - The app temporarily changes your mobile device's Wi-Fi setting so that it connects to the hub directly.
- 4 If necessary, enter the password required to connect to your wireless router and then tap [Next].
 - The hub and your mobile device connect to your wireless router.
 - The hub's MAC address is displayed on this screen. If your wireless router uses MAC address filtering for extra security, make a note of the hub's MAC address and add it to your wireless router's list of MAC address that are allowed to access the router.
- **5** When prompted, press the **Wi-Fi SETUP** button on the hub.
 - Your mobile device will be registered to the hub.
- When prompted, set the password used to log in to the hub while away from home and then tap [OK].
- 7 When prompted, enter a name for your mobile device and then tap [OK].
 - This setting allows you to change the name assigned to your device. It can help you identify your mobile device when performing certain operations, such as deregistering or making intercom calls using a cordless handset.

System setup

- When prompted, select whether you want to customize device profiles, i.e., the device name. location, and other settings for your devices.
 - If you choose not to customize the device profiles now, you can change them late of desired (see "Setting device profiles (device names, locations, and other settings)", Page 92).
 - If you choose to customize the device profiles now, change each setting as desired. When finished, press your device's "back" button repeatedly until the "completed" message is displayed.
 - The app's home screen is displayed when initial setup is complete.

indenborre, be In order to access the system from a mobile device, you must first register the mobile device to the hub. You can register 8 mobile devices to a hub.

Confirm the following before you begin.

- Make sure you have completed the initial setup procedure ("Initial setup", Page 25)
- Make sure your mobile device can connect to the Internet
- Make sure your wireless router and the hub are turned on
- Make sure your mobile device and the hub are connected to the same wireless router
- 1 Using the mobile device that you want to register, download the [Home Network] app and then start the app.
- 2 Tap [Add This Mobile Device].
 - If the [Home Network] app home screen is displayed ("Using the home screen". Page 33), your mobile device has already been registered to the hub. You do not need to perform this procedure.
- **3** When prompted, press the **Wi-Fi SETUP** button on the hub.
 - Your mobile device will be registered to the hub.
- 4 When prompted, enter the password used to log in to the hub while away from home ("Login password". Page 99) and then tap [OK].
- **5** When prompted, enter a name for your mobile device and then tap **[OK]**.
 - This setting allows you to change the name assigned to your device. It can help you identify your mobile device when performing certain operations, such as deregistering or making intercom calls using a cordless handset.
- 6 When prompted, select whether you want to customize device profiles, i.e., the device name, location, and other settings for your devices.
 - If you choose not to customize the device profiles now, you can change them later if desired (see "Setting device profiles (device names, locations, and other settings)", Page 92).
 - If you choose to customize the device profiles now, change each setting as desired. When finished, tap (iPhone, iPad) or your device's "back" button (Android devices) repeatedly until the "completed" message is displayed.
 - The app's home screen is displayed when registration is complete.

Note:

- To register other devices (cameras, sensors, etc.), see "Registering devices", Page 92.
- 8 mobile devices can be registered to the hub, however, only the first 4 can use phone features. If you want to use phone features with an additional mobile device, use the procedure described in There are more than 4 mobile devices registered to the hub. Page 116.
- For privacy, we recommend that you deregister your mobile device from the system (see "Deregistering devices", Page 92) before handing it over to a third party (such as when submitting your mobile device for service, lending it to someone else, selling it, etc.), before registering your mobile device to another hub, or if you no longer intend to use the mobile device with the system.

This section describes commonly used system features, the devices required for each example, and briefly explains the required settings.

While away from home, you can receive a notification on your mobile device if the alarm system is

triggered.

Required devices

- Mobile device (smartphone or tablet) with an Internet connection
- Wireless router
- Hub (KX-HNB600)
- Any device equipped with a sensor that can trigger the alarm system
 - Indoor Camera (KX-HNC200, KX-HNC210)
 - Outdoor Camera (KX-HNC600)
 - Window/Door Sensor (KX-HNS101)
 - Motion Sensor (KX-HNS102)
 - Glass Break Sensor (KX-HNS104)

Required procedures

- Hub initial setup and mobile device registration Refer to the System Setup Guide included with your hub.
- Device registration (if you didn't purchase the device as part of a pre-configured bundle) Refer to the Installation Guide included with your device.
- Use the [Home Network] app to make sure the desired sensor is enabled for the [Arm: Away] arm mode

See "Alarm system settings", Page 46.

• Use the [Home Network] app to set the arm mode to [Arm: Away].

See "Arming and disarming the alarm system", Page 45.

While away from home, you can access the system and view live camera images.

Required devices

- Mobile device (smartphone or tablet) with an Internet connection
- Wireless router
- Hub (KX-HNB600)
- A camera
 - Indoor Camera (KX-HNC200, KX-HNC210)
 - Outdoor Camera (KX-HNC600)

Required procedures

- Hub initial setup and mobile device registration Refer to the System Setup Guide included with your hub.
- Camera registration (if you didn't purchase the camera as part of a pre-configured bundle) Refer to the Installation Guide included with your camera.
- Use the [Home Network] app to access the desired camera.

See "Viewing live camera images", Page 57.

You can configure the system to record video from a camera if motion is detected.

Required devices

- Mobile device (smartphone or tablet) with an Internet connection
- Wireless router
- Hub (KX-HNB600)
- An SD card (inserted in the hub)
- A camera

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Usage examples

- Indoor Camera (KX-HNC200, KX-HNC210)
- Outdoor Camera (KX-HNC600)

Required procedures

• Hub initial setup and mobile device registration
Refer to the System Setup Guide included with your hub.

• Camera registration (if you didn't purchase the camera as part of a pre-configured bundle)
Refer to the Installation Guide included with your camera.

• Use the [Home Network] app to configure a smart control scenario. Select a sensor as the trigger and your camera as the target device.

• If using the camera's motion detection features as the trigger, use the [Home Network] app to adjust the camera's motion detection features, such as detection sensitivity and detection area, if necessary. See "Camera settings", Page 63.

You can configure the system to turn on a light or other electric device when your mobile device connects to your wireless router, such as when you return home from outside.

Required devices

- Mobile device (smartphone or tablet) with an Internet connection
- Wireless router
- Hub (KX-HNB600)
- Smart Plug (KX-HNA101)

Required procedures

- Hub initial setup and mobile device registration Refer to the System Setup Guide included with your hub.
- Smart plug registration (if you didn't purchase the smart plug as part of a pre-configured bundle) Refer to the Installation Guide included with your smart plug.
- Use the [Home Network] app to configure a smart control scenario. Select [Trigger when Home Wi-Fi Connects] as the trigger and your smart plug as the target device. See "Creating a scenario that uses a sensor as the trigger", Page 51.

You can configure the system to turn on a light or other electric device according to a schedule.

Required devices

- Mobile device (smartphone or tablet) with an Internet connection
- Wireless router
- Hub (KX-HNB600)
- Smart Plug (KX-HNA101)

Required procedures

- Hub initial setup and mobile device registration Refer to the System Setup Guide included with your hub.
- Smart plug registration (if you didn't purchase the smart plug as part of a pre-configured bundle) Refer to the Installation Guide included with your smart plug.
- Use the [Home Network] app to configure a smart control scenario that functions on a schedule. See "Creating a scenario that uses a schedule as the trigger", Page 50.

You can configure an indoor camera to notify your mobile device when sound (such as a crying baby) is detected

Required devices

Mobile device (smartphone or tablet) with an Internet connection

- Wireless router
- Hub (KX-HNB600)
- Indoor Camera (KX-HNC200, KX-HNC210)

Required procedures

- Hub initial setup and mobile device registration Refer to the System Setup Guide included with your hub.
- Camera registration (if you didn't purchase the camera as part of a pre-configured bundle) Refer to the Installation Guide included with your camera.
- Use the [Home Network] app to configure the camera's sound alert feature. See "Sound alert (indoor cameras only)". Page 62.

You can keep the system running even if there is a power outage.

Required devices

- Mobile device (smartphone or tablet) with an Internet connection
- Wireless router
- Hub (KX-HNB600)
- Backup Battery (KX-HNP100; one for each device you want to use during a power outage)

Required procedures

- Hub initial setup and mobile device registration Refer to the System Setup Guide included with your hub.
- Backup battery registration (required if you want to receive power outage notifications) Refer to the Installation Guide included with your backup battery.
- Make sure the hub is connected to your landline. Refer to the System Setup Guide included with your hub.
- Make sure the hub can use your landline in the event of a power outage. Consult your landline phone service provider for details if necessary.
- Use the [Home Network] app to configure the power outage alert feature. See "Configuring power outage notifications", Page 67.

While at home, you can use your mobile device to make and answer calls that use your landline.

Required devices

- Mobile device (smartphone or tablet) with an Internet connection
- Wireless router
- Hub (KX-HNB600)

Required procedures

- Hub initial setup and mobile device registration Refer to the System Setup Guide included with your hub.
- Make sure the hub is connected to your landline. Refer to the System Setup Guide included with your hub.
- Use the [Home Network] app to make or answer calls. See "Making calls", Page 71 and "Answering landline calls", Page 73.

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App basics (overview)

To begin, simply start the [Home Network] app on your mobile device by tapping its icon (shown below).



W. Vandenborre.be To prevent unauthorized access to the system, you may need to enter a system password. Whether or not you need to enter the system password depends on how your mobile device is accessing the system, as explained below.

Accessing while at home

If your mobile device is connected to the same wireless network as the hub, you do not need to enter the system password when accessing the system. This is because it is assumed that in this situation, anyone in your home who is using your mobile device is authorized to access the system.

Note that even when you are at home, you will need to enter the system password if your mobile device is not connected to the same wireless network as the hub. This could occur if your mobile device is accessing the Internet using its mobile network connection instead of Wi-Fi, or if your mobile device is connected to a different wireless network.

Accessing while away from home

If your mobile device is not connected to the same wireless network as the hub, including situations when you are away from home, you will need to enter the system password when accessing the system. This is to prevent someone from using your mobile device to access the system in the event that you lose your mobile device while away from home, for example.

Note:

- The password is set during initial setup ("Initial setup", Page 25).
- You can change the password if necessary ("Login password", Page 99).
- Running the app while away from home when your mobile device is connected to a mobile network (3G, 4G, etc.) may cause your mobile device's battery to deplete faster than normal.
- If the app's connection to the hub is terminated when accessing while away from home (such as when you turn your mobile device's screen off and then on, or you switch to another app and then return to the [Home Network] app), the app's home screen will be displayed instead of the last screen you were viewing. Also note that in this case, it may take some time for the app's screen to be displayed.

Automatic login

When entering the system password, you can enable the automatic login feature by turning on the [Automatic Login (for remote access)] checkbox. In this case the password that you enter will be saved, allowing the [Home Network] app to log in to the system automatically.

Note:

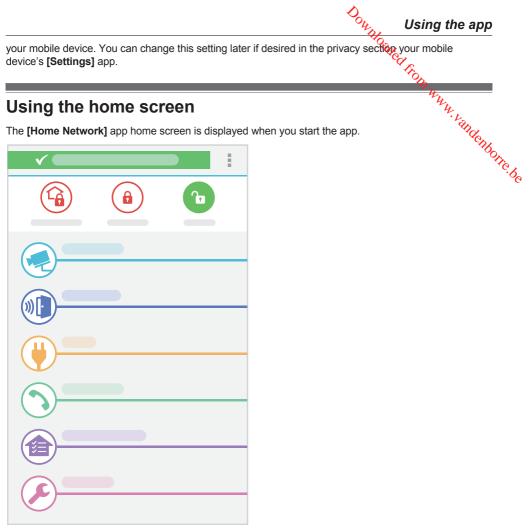
• You can turn this feature on and off later if desired ("[Automatic Login] setting", Page 98).

Important:

 Turning on this feature could allow unauthorized parties to access the system if they are using your mobile device.

Privacy information for iPhone and iPad users

Certain features of the app function by accessing your mobile device's hardware, such as the microphone, or the information stored in your mobile device, such as its contacts. While using the app, a dialog may be displayed that asks whether you want to allow the app to access your these features of



Connection mode

The message displayed at the top of the app's home screen indicates the current connection mode.

- [Home Wi-Fi Connected] is displayed when your mobile device is connected to the hub while at home (i.e., your mobile device is connected to the same wireless router as the hub).
- [Remotely Connected] is displayed when your mobile device is logged in to the system while away from home (i.e., your mobile device is not connected to the same wireless router as the hub). In this case, certain features and settings are unavailable.

Arm mode icons

The icons displayed near the top of the home screen indicate the current arm mode. For details about each mode, see "Arming and disarming the alarm system", Page 45.

Using the app







[Arm: At Home] mode selected







[Arm: Away] mode selected







[Disarm] mode selected







Mobile device is not connected to hub; arm mode is unknown

Note:

If another user changes the arm mode, the arm mode icons displayed at the top of the home screen of
your mobile device will not change immediately. The icons will be updated and display the current arm
mode the next time the app refreshes the home screen, such as when you start the app or return to
the home screen from another screen.

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Feature icons

The icons displayed on the left side of the home screen provide easy access to system features.



Displays the camera list.

At least one camera must be registered to the hub in order to select this icon.



Displays the sensor status screen or sensor history screen.



Displays the smart plug status screen. At least one smart plug must be registered to the



At least one smart plug must be registered to the hub in order to select this icon.

Displays the app's phone features.

The hub must be connected to a home telephone line in order to make and receive calls using the [Home Network] app.



Displays the configuration screen for the system's smart control features.



Displays the system configuration screen.

Returning to the previous screen

iPhone, iPad

Тар 为.

Android devices

Press your device's "back" button.

Returning to the [Home Network] app home screen

Press your mobile device's home button and then start the [Home Network] app again.

You can also use the shortcuts menu to return to the app's home screen ("Using the shortcuts menu", Page 35).

Displaying the options menu

The method used to display the options menu varies depending on your mobile device. Note that the options menu is not available on all screens.

iPhone, iPad

Tap _____.

Android devices with a dedicated "menu" button

Press your device's menu button.

Android devices without a dedicated "menu" button

Tap .

Using the shortcuts menu

The shortcuts menu is available in most app screens. It allows you to quickly return to the app's home screen, and to access this document.

When the shortcuts menu is available, a tab (or >) is displayed on the side of the app's screen. To display the shortcuts menu, simply swipe the tab toward the center of the screen. To hide the shortcuts menu, tap the tab.

Changing the tab's position

To change the vertical position of the shortcut menu's tab, tap and hold the tab while the shortcuts menu is hidden, and drag the tab up or down.

To set the shortcut menu's tab to the left or right side of the screen, or to turn it off, see "[Shortcut Menu] setting", Page 98.

Accessing from multiple mobile devices

There are certain limitations when multiple mobile devices are accessing the system at the same time, as explained below.

Using the app

Accessing while away from home
If a mobile device is accessing the system while away from home (i.e., accessing from a different network)

- The next mobile device that tries to access the system while away from home will be allowed to access the system; the mobile device that was previously accessing the system will be disconnected.
- ole Poenborre.be • For mobile devices accessing at home, certain settings and features may be temporarily unavailable.

Camera features (while accessing at home)

If a mobile device is viewing a camera

There are no limitations on other mobile devices.

If a mobile device is recording camera images

- Other mobile devices cannot record images from that camera.
- Other mobile devices cannot play or erase that recording.

If a mobile device is talking to a camera

- Other mobile devices cannot talk to that camera.
- Other mobile devices cannot change settings for that camera.

If a mobile device is changing a camera's settings

- Other mobile devices cannot talk to that camera.
- Other mobile devices cannot change settings for that camera.
- Other mobile devices cannot change smart control settings.
- Other mobile devices cannot use phone features.
- Landline calls can be received but not made.
- Other settings and features may be temporarily unavailable.

Sensor features (while accessing at home)

If a mobile device is accessing the system's sensor features

There are no limitations on other mobile devices.

Smart plug features (while accessing at home)

If a mobile device is accessing smart plug features

- Other mobile devices cannot use smart plug features.
- Other mobile devices cannot change camera settings.
- Other mobile devices cannot change smart control settings.
- Other mobile devices cannot use phone features.
- Landline calls can be received but not made.
- Other settings and features may be temporarily unavailable.

Phone features (while accessing at home)

If a mobile device is accessing certain phone features (talking on the landline, accessing the call log. etc.)

- Other mobile devices cannot use those features.
- Other mobile devices cannot use smart plug features.
- Other mobile devices cannot change camera settings.
- Other mobile devices cannot change smart control settings.
- Landline calls can be received but not made.
- Other settings and features may be temporarily unavailable.

System setup features (while accessing at home)

If a mobile device is accessing certain system setup features (settings, smart control, etc.)

• Other mobile devices cannot use certain system setup features.

- Landline calls can be received but not made.
- Other settings and features may be temporarily unavailable.

Exiting and logging out

Exiting the app

Use this procedure to exit the app.

iPhone, iPad

Use the standard iOS method for exiting an app.

Android devices

Use the standard Android method for exiting an app.

From the app's home screen, you can also open the options menu ("Displaying the options menu". Page 35) and then tap [Exit].

Logging out while away from home

To log out of the system while away from home (i.e., when your mobile device is accessing the hub while connected to a different network), press your mobile device's home button or power button.

From the app's home screen, you can also open the option menu ("Displaying the options menu", Page 35) and then tap [Logout] (iPhone, iPad) or [Exit] (Android devices).

Confirming system status (overview)

The system can provide information about system status in a variety of ways.

- Displaying status notifications on your mobile device using your mobile device's notifications features ("Status notifications", Page 37)
- Displaying animations and messages in the [Home Network] app home screen ("Confirming status in the [Home Network] app home screen", Page 39)
- Lighting the LED indicators on each device ("Device LED indicators", Page 39)
- Notifying you by telephone when the alarm system is triggered ("Alert by phone call", Page 47)
- Sounding an alert using the hub's speaker when the alarm system is triggered
- Sounding a siren or flashing a siren's strobe light when the alarm system is triggered

Status notifications

The system uses status notifications to give you feedback about how the system is functioning. Details vary depending on system settings and the type of mobile device you are using.

Enabling and disabling status notifications

See "Notification settings", Page 96.

Alert tone

The app sounds an alert tone when your mobile device receives a notification from the system. The volume is determined by your mobile device's alert volume setting.

Status notifications for iPhone, iPad

The system provides information about system status by displaying status notifications and error messages in the iOS Notifications Center.

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Status notifications for Android devices

The system provides information about system status by displaying status notifications terror messages, and the following icons in your mobile device's status bar and notifications panel.

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Glass break sensor was triggered

Water leak sensor was triggered

Keychain remote battery is low, or panic button feature was activated

Camera motion sensor was triggered (dp)

Camera audio and video are being recorded

(F) Indoor camera sound sensor was triggered

Indoor camera temperature sensor was triggered

Backup battery detected a power outage, or power was restored to the backup battery

Smart plug overcurrent or overwattage sensor was triggered

Smart plug on/off error

App is connected to hub*1

App is not connected to hub*1

Landline call is being received KK

This mobile device is talking on a landline call or has a landline call on hold

Another handset or mobile device is talking on a landline call or has a landline call on hold

Landline call was missed

New answering system message was recorded م٥

New landline voicemail service message was recorded

Device is out of range of the hub

Device is malfunctioning



Another user is using the device



Hub is busy



Hub's date and time setting was corrected after a power outage



Device was registered to the hub



Arm mode was changed



Entry delay countdown in effect



Outdoor camera is too cold

*1 You can disable these icons from being displayed in your mobile device's status bar, if desired ("[Connection Status Icon] (Android devices only)", Page 98).

Confirming status in the [Home Network] app home screen

The system can provide information about system status by displaying animations and messages in the **[Home Network]** app home screen. The icons shown below are animated in the following situations.



Camera audio and video are being recorded, indoor camera sound sensor was triggered, or indoor camera temperature sensor was triggered



Standalone sensor (window/door sensor, motion sensor, etc.) or camera motion sensor was triggered



Smart plug overcurrent or overwattage sensor was triggered, or the smart plug could not turn on or off properly

Device LED indicators

The system can provide information about the status of each device by turning on the device's LED indicator.

Meaning of symbols used in this section

Indicator off



Indicator lit



Indicator blinking slowly



Indicator blinking

Using the app

Indicator blinking quickly

Indicator blinking very quickly

Indicator blinking slowly in two colors

Indicator blinking in two colors

Hub LED indicator

Downtoaded from www.vandenborre.be Off No power, or LED indicator is turned off *1 Green Normal operation, connected to wireless router Registration mode Hub is searching for wireless router Green and yellow Hub is starting up Red Alarm system is armed Alarm system was triggered Yellow Initial setup required Initial setup in progress, mobile device connected

initial setup is starting

Camera LED indicator

Off No power, or LED indicator is turned off*1 Green Normal operation Registration mode Motion detected*2 Red Live images are being viewed or recorded Camera is out of range of the hub, or device malfunction **Orange**

Camera is not registered to a hub

^{*1} You can configure the hub so that its LED indicator does not light in most states. See "General settings", Page 98.

^{*1} You can configure the camera so that its LED indicator does not light in most states. See "Setting device profiles (device names, locations, and other settings)", Page 92.

^{*2} The LED indicator does not light when the indoor camera's temperature sensor is triggered.

Motion sensor LED indicator

ore. Andenborre be The LED indicator on the motion sensor does not light during normal operation. You can press •1) C and check the LED indicator to confirm the sensor's status.

Off No battery power No motion detected Green Registration mode (you pressed and held •))(C) Motion detected Red Sensor is out of range of the hub, or is not registered to a hub

Note:

• After pressing •)))C and confirming the sensor's status, press •)))C again to turn off the LED indicator and conserve battery power.

Window/door sensor LED indicator

The LED indicator on the window/door sensor does not light during normal operation. You can press •)) C and check the LED indicator to confirm the sensor's status.

> Off No battery power Window/door is closed Green Registration mode (you pressed and held •))(C) Red Window/door is open Sensor is out of range of the hub, or is not registered to a hub

Note:

• After pressing •)) C and confirming the sensor's status, press •)) C again to turn off the LED indicator and conserve battery power.

Water leak sensor LED indicator

The LED indicator on the water leak sensor does not light during normal operation. You can press •)))C and check the LED indicator to confirm the sensor's status.

> Off No battery power Green No water detected Registration mode (you pressed and held •))(C) Water detected Red Sensor is out of range of the hub, or is not registered to a hub

Using the app

Note:

● After pressing •>>> C and confirming the sensor's status, press •>>>> C again to turn of the LED again to turn of the LED

No glass break detected Green Registration mode (you pressed and held •))(C) Glass break detected Red Sensor is out of range of the hub, or is not registered to a hub

Note:

• After pressing •)) C and confirming the sensor's status, press •)) C again to turn off the LED indicator and conserve battery power.

Siren LED indicator

Off No power, or LED indicator is turned off*1 Green Normal operation Registration mode (you pressed and held •))(C) Sensor is out of range of the hub, or is not registered to a hub Alarm system was triggered

Keypad LED indicator

No power or normal operation Registration mode (you pressed and held •1)(C) Keypad is not registered to a hub Red Keypad is out of range of the hub, or is not registered to a hub Alarm system was triggered

^{*1} You can configure the siren so that its LED indicator does not light in most states. See "Setting device profiles (device names, locations, and other settings)", Page 92.

Keychain remote LED indicator

Off

Green

Green and red

Orange Signal is being sent to the hub (you are pressing a button)

Red [Arm: Away] mode selected (you pressed the arm button)*2

Keychain remote is out of range of the hub, or is not registered to a hub

- *1 The LED lights for about 2 seconds after a button is pressed, then turns off. If the LED indicator does not light when you press a button, the battery must be replaced.
- *2 The LED indicator does not indicate the remote's status if the sensor has not been registered.

Backup battery LED indicator

Red

Off Battery is fully charged

Battery power is being consumed Green

Registration mode (you pressed and held •1))C)

Orange Battery is charging*1

Backup battery is out of range of the hub, or is not registered to a hub

No battery power, or device error

*1 You can configure the backup battery so that its LED indicator does not light in this state. See "Setting device profiles (device names, locations, and other settings)", Page 92.

Smart plug LED indicator

Off No power, smart plug is off, or LED indicator is turned off*1

Green Smart plug is on

Registration mode

Smart plug is out of range of the hub, or is not registered to a hub

Connected electric device is drawing too much current or wattage*2

- *1 You can configure the smart plug so that its LED indicator does not light in most states. See "Setting device profiles (device names, locations, and other settings)", Page 92.
- *2 In this case, the smart plug will turn off automatically. To turn the smart plug on again, disconnect it from the power outlet, disconnect the connected electric device, and then connect it again.

Alarm system features (overview)

You can use the system as an alarm system. When the alarm system is triggered, such as when motion Nandenborre be is detected or when a window or door is opened, the system can:

- send a notification to your mobile devices ("Status notifications", Page 37)
- call a pre-programmed phone number (such as your mobile phone or work phone) and play a message to alert you to the situation ("Alert by phone call", Page 47)
- execute a smart control scenario, such as recording camera images or turning on a smart plug ("Smart control features (overview)", Page 49)

Important:

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

Arm modes

You can arm and disarm the alarm system by changing the arm mode. When the alarm system is disarmed, all alarm system features are disabled.

Sensors that can be used to trigger alarm system features

The following sensors can be used to trigger alarm system features.

- Window sensors and door sensors (KX-HNS101)
- Motion sensors (KX-HNS102)
- Water leak sensors (KX-HNS103)
- Glass break sensors (KX-HNS104)
- Built-in motion sensors in outdoor cameras (KX-HNC600)
- Built-in motion sensors in indoor cameras (KX-HNC200, KX-HNC210)

Note:

- The following sensors cannot be used to trigger alarm system features.
 - Built-in sound and temperature sensors in indoor cameras (KX-HNC200, KX-HNC210)
 - Built-in overcurrent and overwattage detection sensor in smart plugs (KX-HNA101)

Triggering the alarm system

The following explains what is needed to trigger the alarm system, and what happens when a sensor is triggered while the alarm system is armed.

- The sensor must be enabled for the current arm mode in order for it to be triggered. You can also select whether or not the sensor uses entry time (explained below).
 - See "Alarm system settings", Page 46.
 - Water leak sensors are always enabled regardless of the current arm mode. They cannot be disabled and they are not subject to entry time or exit time.
- The alarm system must be armed in order for it to be triggered.
 - See "Arming and disarming the alarm system", Page 45.
 - If the current arm mode is [Arm: Away], exit time is in effect beginning when the arm mode was set. During this time, sensors cannot be triggered; this gives you time to leave the house after arming the alarm system. The exit delay alert sounds during this time. Once exit time runs out, the alarm system is armed.

- 3 The sensor makes a detection (a door sensor detects that its door was opened a motion sensor detects motion, etc.).
 - If the sensor is configured to use entry time, entry time is in effect beginning wherehe sensor was triggered. During this time, the system responds as follows.
 - The hub sounds an alert (i.e., entry delay alert).
 - The system sends a notification to your mobile devices (i.e., entry delay start notification). This feature can be disabled ("Notification settings", Page 96).
 - The event (i.e., entry delay start) is logged in the sensor's history.
 - If the alarm system is not disarmed before entry time runs out, the alarm system will be triggered.
- 4 The alarm system is triggered. The system responds as follows.
 - The hub sounds an alert.
 - The siren sounds and flashes according to its settings (see "Setting device profiles (device names, locations, and other settings)", Page 92).
 - The system sends a notification to your mobile devices. This feature can be disabled ("Notification settings", Page 96).
 - The event is logged in the sensor's history.
- 5 If the alert by phone call feature is enabled, the hub calls the pre-programmed phone number.
 - See "Alert by phone call", Page 47.
 - If you cancel the alert ("Canceling an alert", Page 45), the alert by phone call feature will be canceled for the current event.
- **6** If the sensor is configured to execute a smart control scenario, the scenario starts.
 - See "Smart control features (overview)", Page 49.

Canceling an alert

When the alarm system is triggered, you can confirm the triggered event in the **[Home Network]** app home screen or by using your mobile device's notification features.

If the sensor alert screen is displayed, tap [Stop] to cancel the alert. If the [Dismiss] icon is displayed while viewing live images from a camera, tap [Dismiss] to cancel the alert.

Arming and disarming the alarm system

The alarm system features three modes. You can use the icons displayed at the top of the **[Home Network]** app home screen to confirm or change the current arm mode.

Arm: At Home

Use this mode when someone is at home.

When this mode is selected, the following sensors are enabled and disabled by default. You can change these settings if desired ("Alarm system settings", Page 46).

- Window sensors and door sensors: Enabled
- Motion sensors: Disabled
- Water leak sensors: Enabled and cannot be disabled
- Glass break sensors: Disabled
- Indoor camera motion detection features: Disabled
- Outdoor camera motion detection features: Disabled

Arm: Away

Use this mode when no one is at home.

When this mode is selected, the following sensors are enabled and disabled by default. You can change these settings if desired ("Alarm system settings", Page 46).

- Window sensors and door sensors: Enabled
- Motion sensors: Enabled
- Water leak sensors: Enabled and cannot be disabled.

See "Arm mode icons", Page 33 for details.

Changing the current arm mode

Tap the icon of the desired arm mode at the top of the [Home Network] app home screen.

Alarm system settings

You can customize settings for [Arm: At Home] mode and [Arm: Away] mode to suit your needs.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Arm Settings].
- 3 Select which type of settings you want to change.
 - [Arm Settings (At Home)]: The settings you change will be applied when the arm mode is set to [Arm: At Home].
 - [Arm Settings (Away)]: The settings you change will be applied when the arm mode is set to [Arm: Away].
 - [Alert by Phone Call]: See "Alert by phone call". Page 47.
 - [Change Arm PIN]: See "Alarm system PIN", Page 49.
- 4 Select the desired setting.
- 5 Change the settings as desired.
 - Each setting is explained in this section.
- **6** Follow the on-screen instructions

Enabling and disabling individual sensors

While configuring the settings for an arm mode, tap the name of the desired sensor and then select the desired operating mode.

- [Enable]: This setting enables the selected sensor during the corresponding arm mode.
- [Enable (Entry Delay)]: This setting is the same as when [Enable] is selected, but an entry delay is also applied. For more information, see "Entry delay time and alert volume (available for [Arm: Away] mode and [Arm: At Home] mode)", Page 47.
- [Disable]: This setting disables the selected sensor during the corresponding arm mode.

Exit delay time and alert volume (available for [Arm: Away] mode only)

The exit delay can give you time to leave the house before the alarm system is armed. This setting determines the amount of time.

When you change the arm mode to [Arm: Away], the exit delay begins counting down. During this time, the alarm system cannot be triggered.

Setting the exit delay time

Tap the current time setting, select the desired time, and then tap [OK].

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Using the app

Glass break sensors: Enabled
Indoor camera motion detection features: Disabled
Outdoor camera motion detection features: Enabled

Disarm
Use this mode when alarm system features are not needed.
Water leak sensors are always enabled, even when this mode is selected. All other sensors are disabled when this mode is selected.

Using the app

Setting the exit delay alert volume

The hub sounds an alert while the exit delay is counting down. To adjust the volume, (ap •(*))), select the desired volume, and then tap [OK]. While adjusting this setting, the alert will sound from the hub so that VWW. Vandenborre.be you can confirm what the alert sounds like and its volume.

Note:

• This setting is only available when [Arm Settings (Away)] is selected in step 3, page 46.

Entry delay time and alert volume (available for [Arm: Away] mode and [Arm: At Home] mode)

The entry delay can give you time to disarm the alarm system when you return home. This setting determines the amount of time.

If a sensor is configured to use the entry delay, the entry delay begins counting down when the sensor makes a detection. If the alarm system is disarmed before this time runs out, the detection is ignored. If the alarm system is not disarmed before the entry delay time runs out, the alarm system is triggered.

Setting the entry delay time

Tap the current time setting, select the desired time, and then tap [OK].

Setting the entry delay alert volume

The hub sounds an alert intermittently while the entry delay is counting down. To adjust the volume, tap •(1)), select the desired volume, and then tap [OK]. While adjusting this setting, the alert will sound from the hub so that you can confirm what the alert sounds like and its volume.

Alert duration time and alert volume

The hub sounds an alert when the alarm system is triggered. This setting determines how long the alert will sound

Setting the alert time

Tap the current time setting, select the desired time, and then tap [OK].

Setting the alert volume

Tap (iv)), select the desired volume, and then tap (OK). While adjusting this setting, the alert will sound from the hub so that you can confirm what the alert sounds like and its volume.

Alert by phone call

You can configure the system to call a pre-programmed phone number when the alarm system is triggered. When the called party answers the call, the system will play back a message to alert the called party to the situation.

Usage example

- 1 You arm the alarm system.
- 2 A sensor is triggered.
- 3 The hub uses its connection to your landline to call a pre-programmed phone number.
- When the called party answers the call, the system announces the name of the triggered sensor and prompts the called party to press $\left| \frac{\mathbf{x}}{\mathbf{x}} \right|$.
 - If the called party does not answer the call or does not press $\boxed{*}$, the system calls the next pre-programmed phone number.

Voing the app

Note:

In order to use this feature, the hub must be connected to your landline. For information about phone line connection, refer to the System Setup Guide included with your hub.

Configuring the alert by phone call feature

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Arm Settings].
- 3 Tap [Alert by Phone Call].
- 4 Turn on the [Alert by Phone Call] switch.
- 5 Tap [Arm Condition].
- **6** Select the desired setting and then tap **[OK]**.
 - [Away/At Home]: Alert by phone call is enabled for [Arm: Away] and [Arm: At Home] arm modes
 - [Away]: Alert by phone call is enabled for [Arm: Away] arm mode only.
- 7 Tap the desired memory location (1–5).
 - When the system calls a phone number, it calls the phone number assigned to the lowest memory location. If the called party does not answer or does not press X, the system calls the phone number assigned to the next memory location.
 - [None] is displayed for numbers with no phone number assigned to them.
- 8 Specify the party to be called by entering the desired name and then tap **[OK]**. Repeat this step and enter the desired phone number.
 - You can also select a contact that is stored in your mobile device by tapping [Add from Contacts
 - These settings are shared with the power outage notification feature for backup batteries ("Configuring power outage notifications", Page 67).
- **9** When finished, tap **[OK]**.

Note:

 Water leak sensors are always enabled. If a water leak sensor detects water while the alert by phone call feature is enabled, the hub will call the pre-programmed phone number regardless of the current arm mode.

Erasing phone numbers assigned to the alert by phone call feature

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Arm Settings].
- 3 Tap [Alert by Phone Call].
- **4** Open the options menu (see "Displaying the options menu", Page 35).
 - If setting this feature for use with the power outage notification feature for backup batteries ("Configuring power outage notifications", Page 67), continue to the next step.
- 5 Tap [Delete Selected Items].
- **6** Select the phone numbers that you want to erase, and then tap **[OK]**.
 - These phone numbers will also be erased from the power outage notification feature for backup batteries ("Configuring power outage notifications", Page 67).

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Alarm system PIN

The alarm system PIN is required when using certain devices to change the arm mode or cancel an alert. You can use the app to change the PIN.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Arm Settings].
- 3 Tap [Change Arm PIN].
- Enter the current PIN and then tap [OK].
 - The default PIN is "0000".
- Enter the desired PIN and then tap [OK].
- Enter the desired PIN again and then tap [OK].

Note:

- The alarm system PIN is required when using the following devices to change the arm mode or cancel an alert.
 - Cordless handsets
 - Keypads

Smart control features (overview)

Smart control allows the system to operate by itself. You can configure smart control settings by creating "scenarios". Each scenario answers three questions:

- Which devices do you want to control?
 - Example: entrance camera
 - Example: foyer smart plug
- **2** When do you want the devices to operate?
 - At a set time
 - When a sensor is triggered
 - When you come home
- **3** What do you want the devices to do?
 - Cameras: record audio and video
 - Smart plugs: turn on
 - Motion lights: turn on or flash

Examples

Here are some examples of how you can use smart control scenarios.

I want to know who comes to the door while I'm at work.

- 1 Which device: Entrance camera
- When: The entrance camera's motion sensor is triggered
- What: Record audio and video for 1 minute

I want to turn on the lights while I'm away on vacation.

- Which device: Living room smart plug
- When: Every night from 8:00 PM to 10:30 PM
- What: Turn the smart plug on

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Jsing the app

Want the lights to turn on automatically when I come home.

Which device: Foyer smart plug

When: When the alarm system is armed and the app detects that your mobile device has reconnected to your wireless router (because you came home)

The smart plug on

The want baby starts crying.

Sensors that can be used to trigger smart control scenarios

The following sensors can be used to trigger smart control scenarios.

- Window sensors and door sensors (KX-HNS101)
- Motion sensors (KX-HNS102)
- Built-in motion sensors in indoor cameras (KX-HNC200, KX-HNC210)
- Built-in sound and temperature sensors in indoor cameras (KX-HNC200, KX-HNC210)
- Built-in motion sensors in outdoor cameras (KX-HNC600)
- Mobile device Wi-Fi connection (see "Using [Trigger when Home Wi-Fi Connects] to trigger smart control scenarios", Page 52)

Note:

- The following sensors cannot be used to trigger smart control scenarios.
 - Built-in overcurrent and overwattage detection sensor in smart plugs (KX-HNA101)

Creating smart control scenarios

Smart control scenarios can be executed on a schedule and when a sensor is triggered. You can create up to 50 smart control scenarios.

Important:

 If you are unable to perform the procedures for creating smart control scenarios that are found in this document, you may need to update the hub (see "Hub firmware", Page 99) and your [Home Network1 app.

Creating a scenario that uses a schedule as the trigger

- From the [Home Network] app home screen, tap [Smart Control].
 - A list of all devices that have smart control scenarios assigned to them is displayed.
- Select the device that you want to control.
 - A list of all smart control scenarios that control the selected device is displayed.
 - If the desired device is not displayed, tap and then select the device.
- 3 Tap (to add a new scenario.
 - This item is not available if the maximum number of scenarios have already been created.
- Tap [Schedule].
- 5 Tap the field next to [Start Time], select the desired setting, and then tap [OK].

- 6 Tap the field next to [Recording Duration] (for cameras) or [End Time] (for Stort plugs), select the desired setting, and then tap [OK].
 - The maximum recording time (for cameras) is 15 minutes. The maximum power-time (for smart plugs) is 24 hours.
- Tap [Repeat], select the days on which the scenario can control the device, and then tap [OK].
- In the [Arm Mode] field, select the arm modes in which the scenario can control the device.
- **9** When finished, tap **[OK]**.

Note:

andenborre be • If the conditions of this scenario (day, time, and arm mode) overlap with another scenario that is configured to control the same device, an error is displayed. The nature of the error is also displayed on the scenario's configuration screen.

Creating a scenario that uses a sensor as the trigger

- From the [Home Network] app home screen, tap [Smart Control].
 - A list of all devices that have smart control scenarios assigned to them is displayed.
- **2** Select the device that you want to control.
 - A list of all smart control scenarios that control the selected device is displayed.
 - If the desired device is not displayed, tap and then select the device.
- **3** Tap to add a new scenario.
 - This item is not available if the maximum number of scenarios have already been created.
- 4 Tap [Triggered by Sensor].
- **5** Select the sensor that you want to use to trigger the smart control scenario.
 - If the device to control is a smart plug, you can use your mobile device's Wi-Fi connection to your wireless router as a trigger by selecting [Trigger when Home Wi-Fi Connects]. For more information, see "Using [Trigger when Home Wi-Fi Connects] to trigger smart control scenarios", Page 52.
- 6 If you selected a camera as the device to control

Tap the field next to [Recording Duration], select the desired setting, and then tap [OK].

The maximum recording time is 15 minutes.

If you selected a smart plug as the device to control

Tap the field next to [Power ON Duration], select the desired setting, and then tap [OK].

- The maximum power-time is 24 hours.
- 7 Tap the field next to [Start Time], select the start time of the period when the scenario can control the device, and then tap [OK].
- 8 Tap the field next to [End Time], select the end time of the period when the scenario can control the device, and then tap [OK].
- **9** Tap [Repeat], select the days on which the scenario can control the device, and then tap [OK].
- 10 In the [Arm Mode] field, select the arm modes in which the scenario can control the device.
- 11 When finished, tap [OK].

Note:

- If the conditions of this scenario (day, time, and arm mode) overlap with another scenario that is configured to control the same device, an error is displayed. The nature of the error is also displayed on the scenario's configuration screen.
- When a sensor is triggered, the scenario is executed immediately, even if the sensor's operation mode is set to [Enable (Entry Delay)] ("Enabling and disabling individual sensors", Page 46).

Using the app

• When using a smart control scenario to record camera images, there may be a short delay after the sensor is triggered before recording starts.

You can use your mobile device's Wi-Fi connection to your wireless route.

You can use your mobile device's Wi-Fi connection to your wireless route.

Plug. An example use of this feature would be having a light turn on automatically when you returned.

When the app detects that your mobile device has reconnected to your wireless router (because your home), it executes the scenario (turning on the light).

**Trigger when Home Wi-Fi Connects]* as the trigger when

• When [Trigger when Home Wi-Fi Connects] is selected, the app checks your mobile device's Wi-Fi connection periodically so that it can detect when it has connected to your home wireless network again.

Recording camera images

You can use smart control scenarios to record camera images and save them on the hub's SD card. For information about SD cards and how recordings are saved, see "Information about SD cards", Page 66.

Turning smart control scenarios on and off

- From the [Home Network] app home screen, tap [Smart Control].
- Select the device that you want to control.
 - If the desired device is not displayed, there are no scenarios assigned to that device.
- Turn the checkbox for the desired scenario on or off

Editing smart control scenarios

- From the [Home Network] app home screen, tap [Smart Control].
- 2 Select the device that you want to control.
- If the desired device is not displayed, there are no scenarios assigned to that device.
- Select the desired scenario.
- Edit the scenario as desired.
- When finished, tap [OK].

Erasing smart control scenarios

Erasing a single scenario

- From the [Home Network] app home screen, tap [Smart Control].
- 2 Select the device that you want to control.
- iPhone, iPad

Swipe the desired scenario to the left and then tap [Delete].

Android devices

Tap and hold the desired scenario and then tap [OK].

Erasing all scenarios that control a device

- From the [Home Network] app home screen, tap [Smart Control].
- 2 iPhone, iPad

Swipe the desired device to the left and then tap [Delete].

Android devices

Tap and hold the desired device and then tap [OK].

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Sensor features (overview)

The system supports a wide range of sensors. Some sensors are standalone devices and others are integrated into other devices.

The following tables describe each sensor, how they function, what features they can be used with, and which arm modes they are active during.

Standalone sensors

Description	Function	Uses
Window sensor or door sensor*1 (KX-HNS101)	Uses a magnet to detect when the window or door is opened	 Alarm system*2 Smart control
Motion sensor (KX-HNS102)	Uses infrared light to detect temperature variations	Alarm system*2Smart control
Water leak sensor (KX-HNS103)	Uses two probes that can detect when electrical current passes between them, caused by contact with water	– Alarm system*3
Glass break sensor (KX-HNS104)	Uses a microphone that can detect the unique sound frequencies that are produced when glass breaks	Alarm system*2 Smart control

^{*1} Whether the sensor operates as a window sensor or door sensor depends on the sensor's [Installation Type] setting. See "Setting device profiles (device names, locations, and other settings)", Page 92.

Integrated sensors

Description	Function	Uses
Motion sensor in outdoor camera (KX-HNC600)	Uses infrared light to detect temperature variations, also can detect visual differences in the camera image over time	Alarm system*1Smart control
Motion sensor in indoor camera (KX-HNC200, KX-HNC210)	Can detect visual differences in the camera image over time	Alarm system*1Smart control
Sound sensor in indoor camera (KX-HNC200, KX-HNC210)	Detects sound	 Smart control Sound alert feature*2

^{*2} You can choose whether each sensor of this type is enabled or disabled for [Arm: At Home] and [Arm: Away] modes ("Alarm system settings", Page 46).

^{*3} This sensor is always enabled, regardless of the arm mode.

Description	Function	Uses 🤲
Temperature sensor in indoor camera (KX-HNC200, KX-HNC210)	Detects temperature	- Smart control: - Temperature alert feature*3
Overcurrent and overwattage sensor in smart plug (KX-HNA101)	Detects when the connected electric device draws too much current or wattage	Overcurrent or overwattage alert feature*4
Power outage detection sensor in backup battery (KX-HNP100)	Detects when the backup battery is not receiving power from the power outlet	Power outage notification feature*5
Mobile device Wi-Fi connection feature built in to [Home Network] app	Detects when the mobile device reconnects to the wireless network	- Smart control

- *1 You can choose whether each sensor of this type is enabled or disabled for [Arm: At Home] and [Arm: Away] modes ("Alarm system settings", Page 46).
- *2 For more information, see "Sound alert (indoor cameras only)", Page 66.
- *3 For more information, see "Temperature alert (indoor cameras only)", Page 66.
- *4 For more information, see "What is overcurrent and overwattage?", Page 69.
- *5 For more information, see "Configuring power outage notifications", Page 67.

Viewing sensor status

You can view the current status of each sensor.

- 1 From the [Home Network] app home screen, tap [Sensor].
- 2 Select the [Status] tab.
 - Each sensor is displayed under the appropriate category name as explained below.
 - [Error]: Sensors that are reporting an error. The nature of the error is also displayed.
 - [Detected]: Sensors that are currently being triggered.
 - [Ready]: All other sensors.
 - You can select a sensor and view the detailed trigger history for that sensor.
 - To update the information displayed and view the latest information, tap [Refresh].
 - The following icons are displayed for each type of device.



Window sensor (window is currently closed)



Window sensor (window is currently open)



Door sensor (door is currently closed)



Door sensor (door is currently open)



Motion sensor



Water leak sensor



Glass break sensor



Camera motion sensor



Siren



Keychain remote



Keypad



Backup battery

Viewing sensor history

You can view a log of previous alarm events, including the date and time when sensors were triggered and when the arm mode was changed.

- 1 From the [Home Network] app home screen, tap [Sensor].
- 2 Select the [Alert Log] tab.
 - To update the information displayed and view the latest information, tap [Refresh].

Viewing the history for a specific sensor

- 1 From the [Home Network] app home screen, tap [Sensor].
- 2 Select the [Status] tab.
- 3 Select the desired sensor.
 - Sirens are displayed on this screen but there is no information logged for sirens.
 - To update the information displayed and view the latest information, tap [Refresh].

Viewing the history for the alert by phone call feature

For information about this feature, see "Alert by phone call", Page 47.

- 1 From the [Home Network] app home screen, tap [Sensor].
- **2** Open the options menu (see "Displaying the options menu", Page 35).

3 Tap [Alert Call Log].

ing the app

Tap [Alert Call Log].

• To update the information displayed and view the latest information, tap [Refresh]

Differences between window sensors and door sensors

You can select whether a KX-HNS101 Window/Door Sensor functions as a window sensor or as a sensor. This setting affects the icon displayed for the sensor and the voice alert that can be announced to the sensor and the voice alert that can be announced to the sensor triggers the alarm system.

Page 92.

Sensor settings

The following sensor settings are available.

Motion sensor sensitivity

Set the sensitivity switch on the side of the sensor to the desired position.

Glass break sensor sensitivity

Set the sensitivity switch on the side of the sensor to the desired position.

Enabling and disabling individual sensors

You can enable and disable each sensor for [Arm: At Home] and [Arm: Away] arm modes. See "Alarm system settings", Page 46.

Note:

Water leak sensors are always enabled. They cannot be disabled.

Changing the name and location assignment of a sensor

See "Setting device profiles (device names, locations, and other settings)", Page 92.

Changing the sensor type (window/door sensors only)

You can select whether a KX-HNS101 Window/Door Sensor functions as a window sensor or as a door sensor. To change this setting, see "Setting device profiles (device names, locations, and other settings)", Page 92.

Changing the volume and length of the water leak alert

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Device Profiles].
- Tap [Water Leak Sensor].
- Tap [Common Settings].
- **5** Select the desired setting.
 - [Alert Duration]: Determines how long the alert will sound when a water leak sensor has detected a water leak.
 - [Alert Volume]: Determines the volume of the alert that sounds when a water leak sensor has detected a water leak
- Change the setting as desired and then tap [OK].

Camera features (overview)

You can use indoor and outdoor cameras to monitor and record the sights and sounds of the area where the cameras are located. Cameras have built-in motion detection features that, when triggered allow cameras to record images automatically or send a notification to your mobile device. Additionally, built-in speakers and microphones allow you to talk to anyone who is near the camera.

Indoor cameras feature a built-in temperature sensor, which allows the camera to alert you when the ambient temperature is too high or too low, and a sound sensor, which allows the camera to alert you when sound is detected. You can also select one of the preset "lullaby" melodies and play it through the camera's built-in speaker.

You can register 4 cameras to the system.

Viewing the camera list

By opening the camera list, you can view a small preview image of each camera registered to the system. To view the camera list, tap [Camera] in the home screen.

Note:

- If a camera's images are being recorded,
 is displayed in the camera list.
- If a camera's sensor features have been triggered, (()) is displayed in the camera list.

Camera list options

While viewing the camera list, you can open the options menu (see "Displaying the options menu", Page 35) and configure various settings that are applied to all cameras registered to the system. These settings are explained in "General camera settings", Page 63.

Viewing live camera images

- 1 From the [Home Network] app home screen, tap [Camera].
- 2 Tap the camera image of the desired camera.
- A live image from the selected camera is displayed in single-camera display mode.

Note:

Multiple mobile devices can view live images from the same camera at the same time, however, only
one mobile device can use certain features at a time (image recording, talking to the camera, etc.).

Turning the camera audio on and off

Slide the switch to the desired position while viewing live images from a single camera.

(i))): Camera audio will be heard

: Camera audio will not be heard

Zooming in and out

Pinch in and out on the camera image while viewing live images from a single camera. While zoomed in, you can swipe your finger on the camera image to display a different area of the image.

Using the app

Using night vision

If there is not adequate light to illuminate the subject, such as at night, the camera automatically switches

Using night vicinal

If there is not adequate light to illuminate the subject, to night vision mode. When night vision mode is active, colors may appear unit to night vision mode. When night vision mode is active, colors may appear unit to night vision mode. When night vision mode is active, colors may appear unit to night vision mode. When night vision mode is active, colors may appear unit to night vision mode. When night vision mode is active, colors may appear unit to night vision mode. When night vision mode is active, colors may appear unit to night vision mode. When night vision mode is active, colors may appear unit to night vision mode. When night vision mode is active, colors may appear unit to night vision mode. When night vision mode is active, colors may appear unit to night vision mode. When night vision mode is active, colors may appear unit to night vision mode. When night vision mode is active, colors may appear unit to night vision mode. When night vision mode is active, colors may appear unit to night vision mode.

Camera viewing options

The following items are available in the options menu (see "Displaying the options menu", Page 36 pa

[Outdoor Camera Settings] (outdoor cameras only)

Allows you to adjust settings for the selected camera. See "Camera settings", Page 63.

[Indoor Camera Settings] (indoor cameras only)

Allows you to adjust settings for the selected camera. See "Camera settings", Page 63.

[Alert Log] (indoor cameras only)

Displays a log of previous sound alert and temperature alert detections.

[Device Profiles]

Allows you to change the settings described in "Setting device profiles (device names, locations, and other settings)", Page 92, such as the camera's name and location.

Recording camera images

To record camera images manually, see "Recording camera images (manual recording)", Page 58. To record images automatically according to a schedule, see "Creating a scenario that uses a schedule as the trigger", Page 50.

To record images automatically when a sensor is triggered, see "Creating a scenario that uses a sensor as the trigger", Page 51.

Taking snapshots

To save snapshots (i.e., still images) while viewing live camera images, see "Taking snapshots", Page 59.

Talking to the camera

To use your mobile device's microphone and the camera's built-in speaker to talk to someone where the camera is installed, see "Talking to the camera", Page 59.

Playing a lullaby (indoor cameras only)

To play a lullaby using the camera's built-in speaker, see "Playing a lullaby (indoor cameras only)", Page 59.

Recording camera images (manual recording)

You can record camera images while viewing live camera images. Recordings are saved on the hub's SD card.

- 1 From the [Home Network] app home screen, tap [Camera].
- 2 Tap the camera image of the desired camera.
- Tap [Video] to start recording.
 - Recordings include both audio and video.

- Using the Using the Volume 19 Tap [Stop] to stop recording.

 Note:

 You can use smart control scenarios to record images. See "Smart control features (overview)", Page 40.
- Note:

 You can use smart control scenarios to record.

 Page 49.

 The maximum recording time is 15 minutes.

 If [The hub's SD card is full.] is displayed, the hub's SD card is full and new recordings cannot be caused. Frase unneeded recordings (see "Erasing recordings", Page 61).

Taking snapshots

You can save snapshots (i.e., still images) while viewing live camera images. Snapshots are saved in your mobile device's default photo album app.

- From the [Home Network] app home screen, tap [Camera].
- Tap the camera image of the desired camera.
- Tap [Photo].

Note:

- Snapshot sizes are scaled to fit the width of your mobile device's display.
- iPhone, iPad Snapshots are saved as JPEG files in your mobile device's "Photos" app.
- Android devices Snapshots are saved as JPEG files in your mobile device's "Pictures" directory. The file naming convention is: device name + the date and time.

Talking to the camera

You can use your mobile device's microphone and the camera's built-in speaker to talk to someone where the camera is installed.

- From the [Home Network] app home screen, tap [Camera].
- 2 Tap the camera image of the desired camera.
- Tap and hold [Talk].
 - The audio from your mobile device's microphone is played through the camera's speaker until you release your finger.
 - Talk in turns with the other party. (While you are talking to the camera, you will not be able to hear audio from the camera's microphone.)

Note:

 To adjust the camera's speaker volume, open the options menu (see "Displaying the options menu", Page 35) and tap [Camera Speaker Volume].

Playing a lullaby (indoor cameras only)

You can play a lullaby using the camera's built-in speaker.

- From the [Home Network] app home screen, tap [Camera].
- Tap the camera image of the desired camera.

Using the app

Tap [Lullaby].

Select the desired lullaby and then tap [OK].

The lullaby starts playing. To stop the lullaby, tap [Lullaby] again.

Lullaby playback stops automatically after 30 minutes.

Note:

If you talk to the camera (see "Talking to the camera", Page 59) while a lullaby is playing, the lullaby stops.

While viewing a live image from the camera that is playing a lullaby, open the options menu (see "Displaying the options menu", Page 35) and tap [Camera Speaker Volume].

Viewing the recording list

You can use the recording list to play back recordings saved on the hub's SD card and to confirm details about each recording.

- From the [Home Network] app home screen, tap [Camera].
- Tap [Recording List].
 - A list of recording dates is displayed.
- Select a recording date.
 - A list of all recordings recorded on the selected date is displayed.
 - The icons displayed indicate details about each recording.



The recording was recorded when a sensor was triggered.



The recording was recorded according to a timer.



The recording was recorded manually.

Recording list options

The following items are available in the options menu (see "Displaying the options menu", Page 35) while viewing the recording list.

[Sort]

Allows you to sort the recordings in the recording list.

[Delete All]

Allows you to erase all recordings. See "Erasing recordings", Page 61.

[Delete Selected Contents]

Allows you to erase individual recordings. See "Erasing recordings", Page 61.

Playing back recordings

- 1 From the [Home Network] app home screen, tap [Camera].
- 2 Tap [Recording List].
- 3 Select a recording date.
- 4 Tap the desired recording.
 - The recording is played back.

Playback controls

The following controls are available during playback.



Starts or resumes playback



Pauses playback



Stops playback



(iPhone, iPad)

Allows you to quickly move to the desired area of the recording by sliding the progress bar





Erases the current recording

Copying recordings to your mobile device

From the playback screen, open the options menu (see "Displaying the options menu", Page 35) and then tap [Save to Mobile Device] \rightarrow [OK].

Recordings are saved in your mobile device's "Photos" app (iPhone, iPad) or "Movies" directory (Android devices).

Erasing recordings

- 1 From the [Home Network] app home screen, tap [Camera].
- 2 Tap [Recording List].
- To erase recordings recorded on one specific date Select the desired recording date.

To erase recordings recorded on multiple dates

Continue to the next step.

Open the options menu (see "Displaying the options menu", Page 35).

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To erase all recordings
Tap [Delete All].

To erase selected recordings
Tap [Delete Selected Contents], and then select the dates or recordings that you want to erase. era W. Vandenborre.be

6 Tap [OK].

Note:

You can also erase a recording during playback by tapping



Temperature alert (indoor cameras only)

You can configure the camera to send notifications if the camera's ambient temperature is too cold or too hot.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Device Profiles].
- 3 Tap [Camera].
- 4 Select the device that you want to change settings for.
- 5 Tap [Temperature Sensor].
- Slide the [Temperature Sensor] switch to select whether or not the system notifies you if the camera's ambient temperature is above or below the specified temperature.
- 7 Slide the [Units] switch to select whether the temperature is displayed and specified in Fahrenheit or Celsius.
- 8 Tap the upper threshold of the acceptable temperature range, select the desired temperature, and then tap [OK].
- **9** Repeat the previous step for the lower threshold of the acceptable temperature range.

Note:

 You can also change these settings while viewing live camera images by opening the options menu and selecting [Indoor Camera Settings].

Confirming temperature alert history

You can view a log of previous temperature alert detections.

- From the [Home Network] app home screen, tap [Camera].
- 2 Tap the camera image of the desired camera.
- 3 Open the options menu (see "Displaying the options menu", Page 35).
- Tap [Alert Log].

Sound alert (indoor cameras only)

You can configure the camera to send notifications if the camera's microphone detects sound.

- From the [Home Network] app home screen, tap [Settings].
- Tap [Device Profiles].
- 3 Tap [Camera].

- Using the a

 Select the device that you want to change settings for.

 Tap [Sound Sensor].

 Slide the [Sound Sensor] switch to select whether or not the system notifies you if the camera's microphone detects sound.
- **7** Select the desired setting.
 - [High]: The microphone is very sensitive to sound, i.e., even a small sound will trigger the notification.
 - [Normal]: The microphone is moderately sensitive to sound.
 - [Low]: The microphone is only slightly sensitive to sound, i.e., a large sound is required to trigger the notification

Note:

- You can also change these settings while viewing live camera images by opening the options menu and selecting [Indoor Camera Settings].
- The camera's microphone will not detect sound while a mobile device user is talking to the camera ("Talking to the camera", Page 59) or while a lullaby is playing ("Playing a lullaby (indoor cameras only)". Page 59).

Confirming sound alert history

You can view a log of previous sound alert detections.

- From the [Home Network] app home screen, tap [Camera].
- 2 Tap the camera image of the desired camera.
- **3** Open the options menu (see "Displaying the options menu", Page 35).
- 4 Tap [Alert Log].

Camera settings

General camera settings

The settings explained below are applied to all cameras registered to the system. Each mobile device can adjust these settings as desired.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Device Profiles].
- 3 Tap [Camera].
- 4 Tap [Common Settings].
- 5 Select the desired setting.
 - [Mobile Device Volume] (Android devices only)

Allows you to adjust the volume of your mobile device's microphone, which determines the volume of your voice that is sent to the camera when talking to the camera, and your mobile device's speaker, which determines the volume of the camera audio that is heard on your mobile device.

- [Camera Resolution]: Determines the camera image quality. Select [High (640×480)] to display higher resolution images that refresh less often, or [Low (320×240)] to display lower resolution images that refresh more often.

Note:

- When viewing images from a single camera, the app will reduce or enlarge camera images if necessary so that they fill your mobile device's screen, regardless of this setting.
- [Frame Rate]: Determines the speed at which images from the camera are refreshed. This setting only applies when viewing images while away from home.

- ng the app

 Note:

 Higher frame rates mean images are refreshed faster and moving subjects are displayed more smoothly, however, images displayed on your mobile device may be delayed and sound may cut out or be delayed when talking to the camera, especially over a slow or congested network
- Lower frame rates mean images are refreshed less often and moving subjects may appear "choppy". however, images displayed on your mobile device will be less delayed and sound may be more consistent when talking to the camera over a slow or congested network connection.
- When viewing images from the camera while away from home, the camera will apply the frame rate setting at first. If your mobile device's network connection is slow or congested, the camera will then lower the frame rate automatically. The result is that images will not be displayed at first while away from home, and will be displayed only after some time passes. You can avoid this by setting a lower frame rate setting.
- [Overwrite Recordings]: Determines whether recorded camera images are erased automatically by new images when the hub's SD card is full.

Note:

• You can also change these settings while viewing the camera list by opening the options menu.

Changing the name and location assignment of a camera

See "Setting device profiles (device names, locations, and other settings)", Page 92.

Image and infrared sensor sensitivity (outdoor cameras only)

You can adjust the sensitivity of the camera's motion detection features.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Device Profiles].
- 3 Tap [Camera].
- 4 Select the device that you want to change settings for.
- Tap [Motion Sensitivity].
- 6 Select the desired setting.
 - [High]: The image sensor and infrared sensor are very sensitive to changes in the image and to temperature variations, i.e., even a small change in the image or temperature will trigger the sensor.
 - [Normal]: The image sensor and infrared sensor are moderately sensitive to changes in the image and to temperature variations.
 - [Low]: The image sensor and infrared sensor are somewhat sensitive to changes in the image and to temperature variations.
 - [Very Low]: The image sensor and infrared sensor are only slightly sensitive to changes in the image and to temperature variations, i.e., a large change in the image or temperature is required to trigger the sensor.
 - [Advanced]: Allows you to set the sensitivity of the image sensor and the infrared sensor individually. See "Setting the image sensor and infrared sensor individually", Page 64.

7 Tap [OK].

Note:

 You can also change these settings while viewing live camera images by opening the options menu and selecting [Outdoor Camera Settings].

Setting the image sensor and infrared sensor individually

- Set the camera's [Motion Sensitivity] setting to [Advanced].
- Tap [IR Sensor] or [Video Motion].

- 3 Select the desired setting.
- Select the desired setting.

 [High]: The selected sensor is very sensitive to changes, i.e., even a small change will trigger the
- Select the desired setting.

 [High]: The selected sensor is very sensitive to changes, i.e., even a small change will urgo... sensor.

 [Normal]: The selected sensor is moderately sensitive to changes.

 [Low]: The selected sensor is somewhat sensitive to changes.

 [Very Low]: The selected sensor is only slightly sensitive to changes, i.e., a large change is anticentable.
- 4 Tap [OK].

Image sensor sensitivity (indoor cameras only)

You can adjust the sensitivity of the camera's motion detection features.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Device Profiles].
- 3 Tap [Camera].
- 4 Select the device that you want to change settings for.
- 5 Tap [Motion Sensitivity].
- 6 Select the desired setting.
 - [High]: The image sensor is very sensitive to changes, i.e., even a small change will trigger the sensor.
 - [Normal]: The image sensor is moderately sensitive to changes.
 - [Low]: The image sensor is somewhat sensitive to changes.
 - [Very Low]: The image sensor is only slightly sensitive to changes, i.e., a large change is required to trigger the sensor.
 - [OFF]: The image sensor is disabled.
- **7** Tap **(OK1**.

Note:

 You can also change these settings while viewing live camera images by opening the options menu and selecting [Indoor Camera Settings].

Detection area

You can select which areas of the camera image are monitored for motion detection. This allows you to ignore motion in certain areas of the camera's image.

- 1 From the [Home Network] app home screen, tap [Camera].
- 2 Tap the camera image of the desired camera.
- **3** Open the options menu (see "Displaying the options menu", Page 35).
- 4 Tap [Outdoor Camera Settings] or [Indoor Camera Settings].
- 5 Tap [Set Detection Area].
- **6** Tap the desired areas of the camera image.
 - Gray areas of the camera image indicate areas for which image detection is disabled.
 - Tap [Select All] to disable image detection for all areas of the camera image.
 - Tap [Reset] to enable image detection for all areas of the camera image.
- **7** Tap **[OK]**.

Image brightness

You can adjust the overall brightness of the camera image.

From the [Home Network] app home screen, tap [Camera].

Using the app

2 Tap the camera image of the desired camera.

3 Open the options menu (see "Displaying the options menu", Page 35).

4 Tap [Outdoor Camera Settings] or [Indoor Camera Settings].

5 Tap [Brightness].

6 Тар

or



to decrease or increase the image brightness.

Temperature alert (indoor cameras only)

To configure the camera to send notifications if the camera's ambient temperature is too cold or too hot, see "Temperature alert (indoor cameras only)", Page 62.

Sound alert (indoor cameras only)

To configure the camera to send notifications if the camera's microphone detects sound, see "Sound alert (indoor cameras only)", Page 62.

Information about SD cards

SD card capacity and total recording time

The following recording times apply when images from one camera are recorded. All times are approximate.

2 GB card: 15 hours
4 GB card: 30 hours
8 GB card: 60 hours
16 GB card: 120 hours
32 GB card: 240 hours

Note:

- SD cards larger than 32 GB cannot be used.
- The times listed here are calculated theoretically. Actual recording time may vary.
- The file system and other information is stored on the SD card, therefore the card's actual available capacity will be less than the card's noted capacity.

SD card formatting

Before inserting an SD card in the hub, format the SD card using your computer and the SD formatting tool available from the web page listed below.

{{"www.sdcard.org/downloads/formatter_4/"|tolink("http://www.sdcard.org/downloads/formatter_4/")}}

Note:

• All data stored on the SD card will be erased when it is formatted.

How recordings are saved on the SD card

 Recordings are saved on the hub's SD card in folders based on the recording date, in the following path.

\private\PANA_GRP\PSN\HOMENW\CAMERA

- The file naming convention is: camera number + recording type + recording start time.
 - First character: Camera number. Cameras 1-4 are indicated using 1-4.
 - Second character: Recording type. R=scheduled recordings, S=sensor recordings, M=manual recordings.
 - Remaining characters: Recording start time (hhmmss).

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Example: 2M123455.mp4
This file is a manual recording ("M") from camera 2 ("2") that started at 12:34 PM and 55 seconds

Example: 2M123455.mp4
This file is a manual recording ("M") from camera 2 ("2") that started at 12:34 PM and po second ("123455").

Backup battery features (overview)

In the event of a power outage, a backup battery can supply power to your hub or to another connected by the system to call a pre-programmed phone number in the event of a power of a power of a power outage.

Note:

• Backup batteries can supply power to their connected devices without being registered to the hub, however, in order to receive power outage notifications, you must register the backup battery to the hub.

Configuring power outage notifications

If you have more than one backup battery, these settings are applied to all backup batteries.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Device Profiles].
- 3 Tap [Backup Battery].
- 4 Tap [Power Outage Notification].
- 5 Turn on the [Notification Call] switch.
- 6 Tap [Outage Wait Time], select the desired setting, and then tap [OK].
 - This setting determines the amount of time that passes after a power outage occurs before the backup battery triggers a power outage notification.
- 7 Tap the desired memory location (1–5).
 - When the system calls a phone number, it calls the phone number assigned to the lowest memory location. If the called party does not answer or does not press X, the system calls the phone number assigned to the next memory location.
 - [None] is displayed for numbers with no phone number assigned to them.
- 8 Specify the party to be called by entering the desired name and then tap [OK]. Repeat this step and enter the desired phone number.
 - You can also select a contact that is stored in your mobile device by tapping [Add from Contacts
 - These settings are shared with the alert by phone call feature ("Alert by phone call", Page 47).
- 9 When finished, tap [OK].

Erasing phone numbers assigned to the power outage notification feature

- From the [Home Network] app home screen, tap [Settings].
- Tap [Device Profiles].
- 3 Tap [Backup Battery].
- 4 Tap [Power Outage Notification].
- **5** Open the options menu (see "Displaying the options menu", Page 35).
- 6 Tap [Delete Selected Items].

Select the phone numbers that you want to erase, and then tap [OK].

These phone numbers will also be erased from the alert by phone call feature (Alert by phone call", Page 47).

Assigning a device to a backup battery

Set this setting to match the device that is connected to the backup battery.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Device Profiles].
- 3 Tap [Backup Battery].
- Tap the name of the backup battery that you want to configure.
- 5 Tap the [Connected Device] field.
- 6 Select the device that is connected to the backup battery, then tap **[OK]**.

Keychain remote features (overview)

Keychain remotes allow you to quickly and easily arm and disarm the system. You can use keychain remotes to trigger a pre-programmed operation, such as turning on a smart plug or sounding an alert.

Configuring the smart button

You can assign a feature to the smart button.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Device Profiles].
- 3 From the [Keychain Remote].
- 4 Select the device that you want to change settings for.
- 5 Tap the field under [Smart Button].
- **6** Assign the desired feature to the smart button.
 - [Smart Plug]: Allows you to select a smart plug that will turn on and off when you press the smart button
 - [Panic Button]: Configures the hub to trigger the alarm system when you press the smart button.
 - [Not Assigned]: Disables the smart button.
- Tap [OK].

Smart plug features (overview)

Smart plugs allow you to turn electric devices on and off using your mobile device, when a sensor is triggered, or according to a schedule. They can also notify you in the event that the connected electric device draws too much current or wattage. Additionally, you can use your mobile device to view a log of smart plug power consumption.

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What is overcurrent and overwattage?

Overcurrent and overwattage are potentially dangerous situations in which an electric vivice draws too

much electrical current or wattage. They could be which could cause fire and other hazards.

If a smart plug's overcurrent or overwattage sensor is triggered, the smart plug turns off and served notification. In this case, you should disconnect the electric device that is connected to the smart plug turns off and served notification.

electric outlet. The overcurrent and overwattage sensor features of a smart plug are not designed to take the place of safe usage and handling of electric devices.

Turning smart plugs on and off

Turning individual smart plugs on and off

- From the [Home Network] app home screen, tap [Smart Plug].
- 2 Select the [Individual] tab.
 - The smart plug's icon indicates whether it is currently turned on or off.



Turned off



Turned on

Tap the desired smart plug's icon.

Turning groups of smart plugs on and off

If you have grouped smart plugs together by location ("Setting device profiles (device names, locations, and other settings)", Page 92), you can turn them on and off as a group.

- From the [Home Network] app home screen, tap [Smart Plug].
- Select the [Group] tab.
 - A list of all smart plug groups is displayed.
- 3 Tap [ON] or [OFF] next to the desired group's name.
 - In some situations it may take several minutes for the smart plugs to turn on or off.

Turning smart plugs on and off according to a schedule

See "Creating a scenario that uses a schedule as the trigger", Page 50.

Turning smart plugs on when a sensor is triggered

See "Creating a scenario that uses a sensor as the trigger", Page 51.

Confirming smart plug status

From the [Home Network] app home screen, tap [Smart Plug].

- 2
- ing the app

 Select the [Individual] tab.

 The status of each smart plug is displayed under the appropriate category name as explained below.
 - [Excessive Power]: Smart plugs that are reporting overcurrent or overwattage. The time each smart plug detected the error is also displayed.
 - [Out of Range]: Smart plugs that are not within range of the hub (perhaps because the year are andenborre, be disconnected from the wall outlet).
 - [Ready]: All other smart plugs.
 - The status of each smart plug is displayed using the following icons.



Turned off



Turned on



Overcurrent or overwattage was detected



No link to hub

To update the information displayed and view the latest information, tap [Refresh].

Viewing smart plug history

You can view a log of previous smart plug overcurrent and overwattage detections.

- 1 From the [Home Network] app home screen, tap [Smart Plug].
- 2 Open the options menu (see "Displaying the options menu", Page 35).
- 3 Select [Alert Log].
 - A list of previous overcurrent and overwattage detections is displayed.
 - To update the information displayed and view the latest information, tap [Refresh].

Viewing smart plug energy consumption

You can view a daily log of how much energy is consumed by your smart plugs.

- From the [Home Network] app home screen, tap [Smart Plug].
- 2 Open the options menu (see "Displaying the options menu", Page 35).
- 3 Select [Power Usage Log].
 - Daily power consumption information for all smart plugs is displayed.
 - To update the information displayed and view the latest information, tap [Refresh].

Note:

• The power consumption information that is displayed is for reference only and may differ from the actual amount of power consumed.

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A smart plug's power consumption will be displayed as 0.00 kWh for about an figure after it is connected, even if it has consumed power during that time.

Phone features (overview)

By connecting the hub to your landline, you can use your mobile device as an extension of your home. The following phone features are available.

The condess handsets)

- Playing answering system messages
- Checking your call log
- Transferring landline calls between your mobile device and your cordless handsets

Important:

- In order to make and receive landline calls, the hub must be connected to your landline. For information about phone line connection, refer to the System Setup Guide included with your hub.
- In order to use most phone features, your mobile device must be connected to the same wireless network as the hub. These features are not available when away from home.
- The app will not receive landline calls if the app is not running.
- 8 mobile devices can be registered to the hub, however, only the first 4 can use phone features. If you want to use phone features with an additional mobile device, use the procedure described in There are more than 4 mobile devices registered to the hub. Page 116.
- Mobile call features are not available when using iPad or an Android device that does not support mobile calls. Other features may not be available depending on your device's specifications and limitations.

Screen layout

The following screens are available when accessing phone features. You can switch to a different screen by tapping the corresponding tab.

[Kevpad]

Used to dial phone numbers and make calls using your landline.

Used to display a list of outgoing and incoming landline calls.

[Contacts]

Used to make calls to contacts stored in your mobile device.

[More]

Used to access other phone features, such as answering system features and copying contacts from vour mobile device to the hub.

Making calls

You can use the app to make landline calls, mobile calls, and intercom calls.

Dialing manually

- From the [Home Network] app home screen, tap [Phone].
- **2** Enter the phone number.
 - To erase a number, tap
 - To enter a dialing pause, tap and hold + until a "," (comma) is displayed.

Using the app

- 3 Tap [Landline] or [Smartphone] according to the line you want to use to make the call.
- If you made a landline call, tap [Disconnect] to end the call.

Note:

- If you are talking on a landline call and then receive and answer a mobile call, the landline 🖏 is either disconnected or put on hold, according to the [Landline Call Handling] setting (see "App behavior idenborre be settings", Page 79).
- Make sure to tap [Disconnect] when ending a landline call, even if the other party hangs up first. Otherwise the connection to the landline will not be disconnected.
- If the hub is busy when you try to make a landline call, you may hear a busy tone.
- Mobile call features are not available when using iPad or an Android device that does not support mobile calls.

Calling contacts

- From the [Home Network] app home screen, tap [Phone].
- 2 Open the [Contacts] screen.
- 3 Tap the desired contact and then select the desired phone number if necessary.
- 4 Tap [Landline] or [Smartphone] according to the line you want to use to make the call.
- 5 If you made a landline call, tap [Disconnect] to end the call.

Other features available during landline calls

The following features are available while talking on a landline call.

Keypad

Tap [Keypad] during a call if you need to enter numbers, such as when navigating a call center's voice guided menu system. To hide the keypad, tap [Cancel].

For "pulse" or "rotary" line users (certain models only)

If hub is configured to use pulse dialing (see "Landline settings", Page 81), you can use tone dialing during a call as needed (e.g., when navigating a voice guidance system or entering an account number) by first dialing \(\frac{\dagger}{\dagger}\).

Audio output

Tap [Audio Source] (iPhone, iPad) or [Speaker] (Android devices) to select a different audio output device.

Mute

Tap [Mute] during a call to mute your mobile device's microphone so that the other party cannot hear you. Tap [Mute] again to turn the mute off.

Hold

Tap [Hold] during a call to place the call on hold. Tap [Hold] to return to the call.

Flash/recall

Tap the flash/recall icon during a call to use your landline phone service's recall feature, such as to answer a second call or to switch between two different calls.

- Note:

 Using the app

 Vote:

 If the flash/recall feature does not function properly, you may need to change the [Flash Time] setting ("Landline settings", Page 81).
- This icon varies depending on the hub's model number.

Icon
FLASH
Callwait
[R]

Answering landline calls

When you receive a landline call, the call receiving screen is displayed. Tap [Answer] to answer the call.

Important:

• The app will not receive landline calls if the app is not running.

Note:

- Make sure to tap [Disconnect] when ending a call, even if the other party hangs up first. Otherwise the connection to the landline will not be disconnected.
- You can turn the ringer off temporarily by tapping [Ringer off]. Other mobile devices and cordless handsets registered to the system will continue to ring.
- To change the ringtone heard for landline calls and intercom calls, see "Sound settings", Page 79.
- iPhone, iPad

If you want the app to receive calls even when it is in the background, turn the [App Battery Save] feature off (see "Reducing battery consumption (iPhone, iPad only)", Page 102).

When a call is received, your mobile device behaves according to the app's sound settings ("Sound settings", Page 79) and the app's volume. Note that your device's ring/silent switch does not affect the app.

Android devices

When a call is received, your mobile device behaves according to its vibration and silent mode settings.

Using cordless handsets

If there are cordless handsets registered to the system, the following features are available.

Making intercom calls

You can call a cordless handset registered to the system and talk to the cordless handset user.

- From the [Home Network] app home screen, tap [Phone].
- Tap [Intercom].

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Using the app

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Note:

• You cannot use the app to make intercom calls to other mobile devices.

• iPhone, iPad

Select the cordless handset that you want to call.

When finished, tap [Disconnect] to end the call.

ote:

You cannot use the app to make intercom calls to other mobile devices.

iPhone, iPad

When you are talking on an intercom call, the intercom call is disconnected automatically if you receive a mobile call.

Android devices

a mobile call.

Transferring calls

You can transfer a landline call to a cordless handset registered to the system.

- 1 While on a landline call, open the options menu (see "Displaying the options menu". Page 35).
- 2 Tap [Intercom].
- Select the desired cordless handset, and then wait for the user to answer.
 - You can cancel and return to the call by tapping [Hold].
- 4 After the other user answers, tap [Disconnect] to end your call and transfer it to the other user.

Note:

• You cannot transfer landline calls to other mobile devices.

Creating conference calls

You can talk together on a landline call with a cordless handset user.

- While on a landline call, open the options menu (see "Displaying the options menu", Page 35).
- 2 Tap [Intercom].
- Select the desired cordless handset, and then wait for the user to answer.
 - You can cancel and return to the call by tapping [Hold].
- 4 After the other user answers, open the options menu and tap [Conference] to start the conference call.
 - You can talk to the outside party together with the cordless handset user.
- **5** When finished, tap **[Disconnect]** to leave the conference call.
 - The cordless handset user can continue to talk to the outside party.

Note:

- Only one mobile device can participate in a conference call.
- If the cordless handset user has disabled call sharing, or enabled privacy mode (the feature name varies depending on the model number of the cordless handset), you will not be able to talk together on a landline call with the cordless handset user

Joining calls

If a cordless handset user is talking on a landline call, you can join the call by tapping [In use].

Note:

• Only one mobile device can join a landline call.

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Call logs

You can use call logs to confirm previous landline call history, call back previous callers, and add new phone numbers to your contacts.

Viewing the call log

- From the [Home Network] app home screen, tap [Phone].
- 2 Open the [Call log] screen.
- 3 Tap the desired tab to view outgoing or incoming landline calls.

Note:

 The outgoing call log displays landline calls made by your mobile device only. Landline calls made by other devices are not displayed.



is displayed for calls that were blocked using the call block feature (see "Blocking incoming

calls". Page 77).

Android devices

You can tap an item in the incoming call log to view details about previous calls from that caller.

Making calls from the call log

- From the [Home Network] app home screen, tap [Phone].
- 2 Open the [Call log] screen.
- **3** Tap the desired tab to view outgoing or incoming landline calls.
- 4 iPhone, iPad

Tap the desired phone number or person.

Android devices

next to the desired phone number or person.

Make the call from the [Keypad] screen.

Adding information from the call log to your contacts

- 1 From the [Home Network] app home screen, tap [Phone].
- Open the [Call log] screen.
- 3 Tap the desired tab to view outgoing or incoming landline calls.
- iPhone, iPad

Tap (i) next to the person or phone number you want to add.

Android devices

Tap the person or phone number you want to add.

- 5 Tap [Create new contact] or [Add to existing contact], and then follow the on-screen instructions.
 - [Create new contact] and [Add to existing contact] are not displayed if the phone number has already been added to your contacts.

Erasing the call logs

iPhone, iPad

- From the [Home Network] app home screen, tap [Phone].
- Open the [Call log] screen.

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Using the app

3 Tap the desired tab to view outgoing or incoming landline calls.

4 Open the options menu (see "Displaying the options menu", Page 35).

5 To erase all calls Tap [Delete All Calls].

To erase selected calls

Tap [Delete Selected Calls], tap ___ next to the desired item, and then tap [Delete].

Android devices

- 1 From the [Home Network] app home screen, tap [Phone].
- 2 Open the [Call log] screen.
- 3 Tap the desired tab to view outgoing or incoming landline calls.
- ▲ To erase all calls

Open the options menu (see "Displaying the options menu", Page 35) and then select the erase option.

To erase one call

Tap the call you want to erase and then tap

5 Tap [OK].

Phonebook features

You can use the app's phonebook features similarly to the way you use the contacts app of your mobile device.

Note:

• iPhone, iPad

Many features of the app function by accessing the information stored in your mobile device's contacts. Depending on the software version of your mobile device, a dialog may be displayed that asks whether you want to allow the app to access your contacts. If desired, you can change this setting later in the privacy section your mobile device's "Settings" app.

If you change the privacy setting while on a landline call, the call will be disconnected, therefore we recommend changing the setting only when you are not on a call.

Copying contacts to the hub

You can copy contacts from your mobile device to the hub's phonebook. These contacts can then be accessed by any cordless handsets that you have registered to the system.

Notes about copying contacts

- These features are only available if a cordless handset is registered to the system.
- Only names (the first 16 characters) and phone numbers (the first 24 digits) are copied. If a contact
 has multiple phone numbers assigned to it, only the first 6 phone numbers are copied.
- Up to 500 contacts (500 phone numbers total) can be stored in the hub's phonebook.
- Contacts with no phone number assigned to them will not be copied.
- If contact information includes characters not supported by the hub or cordless handsets, those characters will be replaced by "X" when they are copied.

).

nen tap [Delete].

Phone numbers stored with country codes

If you have added the country code to phone numbers stored in your mobile device (i.e. if you begin certain phone numbers with "+" and a country code), those phone numbers will be converted according to the hub's phone number conversion settings (see "Phone numbers with country codes", Page 82). and valdenborre be Therefore, after you copy contacts from your mobile device to the hub, we recommend that your confirm the phone numbers were converted properly.

Copying specific contacts

- From the [Home Network] app home screen, tap [Phone].
- 2 Open the [More] screen.
- 3 Tap [Send contacts] → [Add to list].
 - A list of the contacts stored in your mobile device is displayed.
- 4 Select the desired contact.
 - The contact is added to the list of items that will be copied to the hub. Tap [Add to list] to select another contact.
- **5** After you have added all the contacts that you want to copy, tap [Next].
- 6 Tap [Send].
 - The selected contacts are copied and the results are displayed. Tap [Close] when finished.

Copying all contacts

- From the [Home Network] app home screen, tap [Phone].
- 2 Open the [More] screen.
- 3 Tap [Send contacts] \rightarrow [Send all] \rightarrow [OK] \rightarrow [Next] \rightarrow [Send] \rightarrow [Close].

Blocking incoming calls

You can use the caller barring feature to block junk calls or calls from certain people. When a landline call is received from a phone number that you have added to the blocked caller list, the hub disconnects the call.

Important:

• Caller ID is required to use this feature ("Caller ID support", Page 83).

Note:

 Names of features and settings may vary depending on your mobile device's language settings. The [Call Block] setting may be called [Nuisance Call Block].

Blocking specific phone numbers

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Telephone Settings].
- 3 Tap [Call Block].
- 4 Tap [Block a Single Number].
- **5** Open the options menu (see "Displaying the options menu", Page 35).
- 6 Tap [ADD].
- 7 Enter the phone number and then tap **[OK]**.

Using the app

Blocking ranges of numbers

By storing only the first few digits of a phone number, such as the area code, you can block all phone numbers that begin with the number you stored.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Telephone Settings].
- 3 Tap [Call Block].
- 4 Tap [Block a Range of Numbers].
- **5** Open the options menu (see "Displaying the options menu", Page 35).
- 6 Tap [ADD].
- 7 Enter the number and then tap [OK].

Blocking calls that do not contain caller information

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Telephone Settings].
- 3 Tap [Call Block].
- 4 Slide the **[Block Calls With No Caller ID]** switch to the desired position.
 - When this switch is turned on, calls that do not contain caller information will be blocked.

[First Ring] setting

See "First ring setting (certain models only)", Page 80.

Editing or erasing blocked phone numbers or ranges of numbers

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Telephone Settings].
- 3 Tap [Call Block].
- 4 To edit or erase a blocked phone number Tap [Block a Single Number].

To edit or erase a range of phone numbers

Tap [Block a Range of Numbers].

5 To edit an item

Tap the item, edit it as desired, and then tap [OK].

To erase an item

iPhone, iPad

Swipe the desired item to the left and then tap [Delete].

Android devices

Tap and hold the item and then tap **[OK]**.

Erasing all blocked phone numbers or all ranges of numbers

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Telephone Settings].
- 3 Tap [Call Block].
- 4 To erase all blocked phone numbers

Tap [Block a Single Number].

To erase all ranges of phone numbers Tap [Block a Range of Numbers].

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Down Using the app

5 Open the options menu (see "Displaying the options menu", Page 35).
6 Tap [Delete All] → [OK].

Sound settings

You can change various settings related to how your mobile device behaves when landline calls and continercom calls are received.

- Tap [Telephone Settings].
- 3 Change the settings as desired.
 - [Ringtone] setting

This setting determines the ring tone heard when your mobile device rings for a landline call.

- [Intercom Ringtone] setting
 - This setting determines the ring tone heard when your mobile device rings for an intercom call.
- [Vibrate] setting (iPhone, iPad only)

This setting determines whether your mobile device vibrates when landline calls and intercom calls are received.

Note:

- This setting has no effect if your mobile device's vibration feature is disabled.
- This setting has no effect if your mobile device does not support a vibration feature.
- [Keypad Tones] setting (iPhone, iPad only)

This setting determines whether key tones are heard when you dial phone numbers.

[Mobile Device Volume] setting (Android devices only)

Allows you to adjust the volume of your mobile device's microphone, which determines the volume of your voice that is heard by the other party when talking on a landline call, and your mobile device's speaker, which determines the volume of the other party that is heard on your mobile device.

App behavior settings

These settings determine how the app functions for landline calls.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Telephone Settings].
- 3 Change the settings as desired.
 - [Out of Range Alert] setting

This setting determines whether an alert tone is heard when the wireless signal between your mobile device and wireless router becomes weak while talking on a landline call. When this tone is heard, voice quality may become poor; move closer to your wireless router.

[Landline Call Handling] setting

If you are talking on a landline call and then receive and answer a call on your mobile device, this setting determines how the landline call will be handled.

Voicemail settings

Clearing the "new voicemail" notification

If the "new voicemail" notification remains displayed even if you have no new landline voicemail messages, use this feature to clear the notification.

Natwork] app home screen, tap [Settings].

Voicemail tone detection (certain models only)*1

This feature is used to display "new voicemail" notifications. Turn this feature on if you use your landline phone service provider's voicemail service ("Voicemail support", Page 83).

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Telephone Settings].
- 3 Tap [VM Tone Detect].
- 4 Select the desired setting and then tap [OK].
- *1 This feature is available for the following hub model numbers.
 - KX-HNB600
 - KX-HNB600C
 - KX-HNB600MF

First ring setting (certain models only)*1

This setting determines whether the first ring is heard when a landline call is received. If your landline has Caller ID service and you do not want your mobile devices and cordless handsets to ring before caller information is received, turn this setting off. Note that you can only remove the first ring if the system rings 2 times or more by default, which depends on your landline phone service.

- From the [Home Network] app home screen, tap [Settings].
- Tap [Telephone Settings].
 - The next step varies depending on the hub's model number.
- 3 KX-HNB600, KX-HNB600C, KX-HNB600LC, KX-HNB600ME

Tap [Call Block], and then slide the [First Ring] switch to the desired position.

• This setting only applies when there are phone numbers saved in the blocked caller list.

All other hub model numbers

Tap [First Ring], select the desired setting, and then tap [OK].

Model information

- *1 This feature is NOT available for the following hub model numbers.
 - KX-HNB600FR

Hub PIN setting (certain models only)*1

The hub PIN is required when using a cordless handset to perform certain operations. You can change this PIN if desired.

From the [Home Network] app home screen, tap [Settings].

- 2 Tap [Telephone Settings].
- 3 Tap [Hub PIN].
- 4 Enter the current PIN and then tap [OK].
 - The default PIN is "0000".
- 5 Enter the desired PIN and then tap [OK].
- Enter the desired PIN again and then tap [OK].

Model information

- *1 This feature is available for the following hub model numbers.
 - KX-HNB600AZ
 - KX-HNB600F
 - KX-HNB600FR
 - KX-HNB600G
 - KX-HNB600HM
 - KX-HNB600SA KX-HNB600TW

Landline settings

Important:

- Typically these settings do not need to be changed. If they are set improperly, the hub may not be able to make and receive calls properly.
- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Telephone Settings].
- 3 Tap [Landline Setup].
- 4 Change the settings as desired.
 - [Dial Mode] setting (certain models only)*1 Select [Tone] if your landline phone service supports "tone" dialing; select [Pulse] if your landline phone service supports "pulse" or "rotary" dialing.
 - [Flash Time] setting*2

Determines how the hub's flash/recall feature functions.

The appropriate flash time setting varies depending on your landline phone service. If the hub's flash/recall feature does not function properly, contact your landline phone service provider.

- [Line Mode] setting (certain models only)*3

This setting automatically maintains receiver volume at the proper level depending on the current telephone line condition. Set the line mode to "[A]" if telephone line condition is not good.

Model information

- *1 [Dial Mode] is available for the following hub model numbers.
 - KX-HNB600
 - KX-HNB600C
 - KX-HNB600FR
 - KX-HNB600HM
 - KX-HNB600LC
 - KX-HNB600ME
 - KX-HNB600SA
 - KX-HNB600TW
- *2 The default [Flash Time] setting varies by the hub's model number.

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ing the app	Down,
Model number	Default setting 700 ms
KX-HNB600	700 ms
KX-HNB600AZ	100 ms (when [Country / Region] is set to [Australia]) 600 ms (when [Country / Region] is set to [New Zealand])
KX-HNB600C	700 ms
KX-HNB600E	100 ms
KX-HNB600FR	250 ms
KX-HNB600G	200 ms
KX-HNB600HM	600 ms (when [Country / Region] is set to [Singapore]) 400 ms (when [Country / Region] is set to [Hong Kong]) 700 ms (when [Country / Region] is set to [Malaysia])
KX-HNB600LC	700 ms
KX-HNB600ME	100 ms
KX-HNB600SA	100 ms
KX-HNB600TW	600 ms

- *3 [Line Mode] is available for the following hub model numbers.
 - KX-HNB600
 - KX-HNB600C
 - KX-HNB600LC
 - KX-HNB600MF

Phone numbers with country codes

If you store phone numbers in your mobile device's contacts using "+" and the country code, we recommend that you use this procedure to store the following codes.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Telephone Settings].
- 3 Tap [Phone Number Settings].
- 4 Change the settings as desired.
 - [International Code] setting
 - Store the international dialing prefix that you need to dial when dialing international phone numbers manually.
 - [Country Code] setting
 - Store the country code that is required when someone calls you internationally.
 - [Trunk Prefix] setting
 - If you store domestic phone numbers in your mobile device using "+" and the country code, store the number that should replace the country code when calling domestically.

Region setting (certain models only)¹¹

This setting determines how certain phone features behave. Set this setting according to the region where the system is being used.

Important:

• This setting should be set during Initial Setup; typically it does not need to be changed. If it is set improperly, the hub may not be able to make and receive calls properly.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Telephone Settings].
- 3 Tap [Country / Region].
- 4 Select the appropriate setting and then tap [OK].
 - The hub restarts.

Model information

- *1 This feature is available for the following hub model numbers.
 - KX-HNB600AZ
 - KX-HNB600HM

Caller ID support

The hub is Caller ID compatible. Caller ID is a service provided by your landline phone service provider which may require a subscription. Contact your landline phone service provider for details and availability.

Caller ID features

When you receive a landline call. Caller ID allows the hub to receive caller information provided from your landline phone service provider. The hub automatically logs caller information for the last 50 callers and stores this information in the hub call log. The app also logs information for calls that are received on the landline while your mobile device is connected to the hub.

Caller information display

If a caller's phone number matches the phone number stored in your mobile device's contacts, the stored name is displayed and logged in the call log displayed on that mobile device.

Voicemail support

Voicemail is an automatic answering service that may be offered by your landline phone service provider. After you subscribe to this service, your landline phone service provider's voicemail system answers calls for you when you are unavailable to answer the landline or when the landline is busy. Messages are recorded by your service provider, not by the answering system ("Answering system features (overview)", Page 84).

The app will notify you when you have new voicemail messages if your service provider supports message indication service. Please contact your service provider for details. For certain models, you may also need to turn on the [VM Tone Detect] setting in order for the app to notify you when you have new voicemail messages ("Voicemail tone detection (certain models only)", Page 80).

Important:

- Make sure you read the information for landline voicemail service subscribers ("For landline voicemail service subscribers", Page 91).
- To use your landline phone service provider's voicemail service rather than the answering system, turn off the answering system ("Turning the answering system on and off", Page 84).

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Answering system features (overview)

Downto Med from The hub features a built-in answering system that can answer calls received on your landline after a certain number of rings. When it answers a call, it plays a greeting message and can then record messages. Messages are stored in the hub, and you can play them back even when you are away from fic. 3.11denborre.be home. The answering system cannot answer calls when you are already talking on the landline.

Note:

- In order for the answering system to answer calls, the hub must be connected to your landline. For information about phone line connection, refer to the System Setup Guide included with your hub.
- In order to access the answering system using the app, your mobile device must be connected to the same wireless network as the hub. These features are not available when using the app away from home.

Recording capacity

A maximum of 64 messages can be recorded. The total recording capacity varies by model, from 30– 40 minutes.

Note:

- The following occur if the recording memory becomes full.
 - A beep will sound.
 - A memory full announcement will be heard.
 - If you use a pre-recorded greeting message, the hub will answer calls with a different pre-recorded message that asks callers to call again later. (If you have recorded your own greeting message, it will continue to be played for callers.) No new messages will be recorded.

Turning the answering system on and off

Activating the answering system

You must activate the answering system before you can use it. The answering system is disabled by default

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Answering Device].
 - Names of features and settings may vary depending on your mobile device's language settings. The [Answering Device] setting may be called [Answering System].
- 3 Tap [Settings].
- Turn on the [Answering Device] switch.
 - Names of features and settings may vary depending on your mobile device's language settings. The [Answering Device] setting may be called [Answering System].

Turning the answering system on and off

This setting determines whether the answering system answers landline calls when you do not answer them

- 1 From the [Home Network] app home screen, tap [Phone].
- 2 Open the [More] screen.
- Tap [Connect to Answering Device].
 - Names of features and settings may vary depending on your mobile device's language settings. The [Connect to Answering Device] setting may be called [Connect to Answering System].

Using the app

4 Tap [Answer on] or [Answer off].

Playing your messages

When the answering system has recorded new messages, is displayed in the status bar (Android devices only) and your mobile device's notification feature displays a notification. To play back your mobile device's notification feature displays a notification. To play back your mobile device's notification and then use the playback controls described below.

- 2 Open the [More] screen.
- 3 Tap [Connect to Answering Device].
 - Names of features and settings may vary depending on your mobile device's language settings. The [Connect to Answering Device] setting may be called [Connect to Answering System].
- 4 Tap [Play].
 - Your new messages are played back. If there are no new messages, old messages will be played
 - The following operations are available when playing back messages.
 - [Skip]: Plays the next message.
 - [Repeat]: Repeats the current message from the beginning, or plays the previous message.
 - [Stop]: Stops message playback and returns to the previous screen.
 - [Erase]: Erases the current message.
 - [Disconnect]: Stops message playback and exits the answering system.
 - [Audio Source] (iPhone, iPad only): Allows you to select a different audio output device for playback.
 - [Speaker] (Android devices only): Switches between your mobile device's speaker and earpiece. If a Bluetooth-compatible device is connected to your mobile device, tap the audio icon (speaker, Bluetooth, etc.) to switch between the available devices.
- When finished, tap [Disconnect] to exit the answering system.

Erasing all messages

- 1 From the [Home Network] app home screen, tap [Phone].
- 2 Open the [More] screen.
- 3 Tap [Connect to Answering Device].
 - Names of features and settings may vary depending on your mobile device's language settings. The [Connect to Answering Device] setting may be called [Connect to Answering System].
- Tap [Erase all] \rightarrow [OK].

Greeting message

The greeting message is played to callers when the answering system answers a call.

Recording your greeting message

- From the [Home Network] app home screen, tap [Settings].
- Tap [Answering Device].
 - Names of features and settings may vary depending on your mobile device's language settings.

Using the app

The [Answering Device] setting may be called [Answering System].

- 3 Tap [Greeting].
- 4 Tap [Record Greeting].
- 5 Tap [OK] to start recording.
 - Recording starts after the beep.
- 6 Tap [Stop] to stop recording and save your greeting message.
 - Your greeting message is played back for confirmation.

Playing your greeting message

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Answering Device].
 - Names of features and settings may vary depending on your mobile device's language settings.
 The [Answering Device] setting may be called [Answering System].
- 3 Tap [Greeting].
- 4 Tap [Check Greeting].

Using a pre-recorded greeting message

If you have recorded your own personal greeting message, it will be erased when you select the pre-recorded greeting message.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Answering Device].
 - Names of features and settings may vary depending on your mobile device's language settings.
 The [Answering Device] setting may be called [Answering System].
- 3 Tap [Greeting].
- 4 Tap [Pre-recorded] → [OK].

Remote operation features (overview)

While away from home, you can use a standard touch-tone phone to access the hub and listen to answering system messages or change answering system settings. This is called "remote operation". When using remote operation, the answering system's voice guidance prompts you to press certain dial keys to perform different operations.

There are two methods of remote operation.

- New message alert: The hub calls you at an outside phone number.
 - For information, see "New message alert", Page 86.
- Standard remote access: You call the hub while away from home.

For information, see "Standard remote access", Page 88.

During remote operation, you can press dial keys to operate the answering system, without waiting for the voice guidance to prompt you. For more information, see "Remote commands", Page 88.

New message alert

After the answering system records a caller message, the hub can call a phone number of your choosing and then play the new message back when you answer the phone.

Important:

 When this feature is enabled, the hub will call the specified phone number when it records a caller message. Make sure you carefully check the phone number assigned to this feature.

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First time setup

- 1
- 2 Tap [Answering Device].
- Ist time setup

 From the [Home Network] app home screen, tap [Settings].

 Tap [Answering Device].

 Names of features and settings may vary depending on your mobile device's language settings.

 The [Answering Device] posting may be called [Answering System]. The [Answering Device] setting may be called [Answering System].
- 3 Tap [New Message Alert].
- 4 Tap [Outgoing Call].
- 5 Turn on the [Outgoing Call] switch.
- **6** Enter the desired name and phone number, and then tap **[OK]**.
 - You can also select a contact that is stored in your mobile device by tapping [Add from Contacts List].
- Tap **[OK]**.

Making remote access code entry required or not required

If this setting is turned on, you must enter the remote access code in order to play back new messages when you receive a new message alert.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Answering Device].
 - Names of features and settings may vary depending on your mobile device's language settings. The [Answering Device] setting may be called [Answering System].
- 3 Tap [New Message Alert].
- 4 Tap [Outgoing Call].
- 5 Turn the [Remote Code Activated] switch on or off to determine whether remote code entry is required or not required, respectively.
- 6 Tap (OK1).

Note:

• To set the remote access code, see "[Remote Code] setting", Page 91.

Turning the "new message" beep on and off

This setting determines whether the hub beeps when a new message has been recorded by the answering system.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Answering Device].
 - Names of features and settings may vary depending on your mobile device's language settings. The [Answering Device] setting may be called [Answering System].
- 3 Tap [New Message Alert].
- 4 Turn the [Hub Beep] switch on or off.

Turning new message alert on and off

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Answering Device].
 - Names of features and settings may vary depending on your mobile device's language settings. The [Answering Device] setting may be called [Answering System].
- 3 Tap [New Message Alert].
- 4 Tap [Outgoing Call].
- 5 Turn the [Outgoing Call] switch on or off.

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Using the app

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ing the app

Tap [OK].

• The phone number used for new message alert must be entered in order to turn this feature on.

Changing the phone number used for new message alert

- 2
- Tap [OK].

 The phone number used for new message alert must be entered in order to turn this reason.

 The phone number used for new message alert

 From the [Home Network] app home screen, tap [Settings].

 Tap [Answering Device].

 Names of features and settings may vary depending on your mobile device's language settings.

 The [Answering Device] setting may be called [Answering System].
- 3
- Tap [Outgoing Call].
- **5** Edit the name and phone number, and then tap **IOK1**.
 - You can also select a contact that is stored in your mobile device by tapping [Add from Contacts List1.
- Tap [OK].

Answering a new message alert call

- When the answering system calls the outside phone number you specified, answer the call.
- 2 If you set a remote access code, enter the code.
- Follow the voice guidance prompts as necessary or operate the answering system using remote commands ("Remote commands". Page 88).
- When finished, hang up.

Standard remote access

You must set the remote access code in order to use standard remote access ("[Remote Code] setting", Page 91).

- Dial your home phone number from a touch-tone phone.
- After the greeting message starts, enter the remote access code.
- Follow the voice guidance prompts as necessary or operate the answering system using remote commands ("Remote commands". Page 88).
- When finished, hang up.

Note:

• If you do not press any dial keys within 10 seconds after a voice guidance prompt, the answering system disconnects your call.

Remote commands

You can press dial keys to operate the answering system as explained below, without waiting for the voice guidance to prompt you.

KX-HNB600, KX-HNB600C, KX-HNB600LC, KX-HNB600ME

- Repeat message (during playback)*1
- Skip message (during playback)

- Play new messages 4
- 5 Play all messages
- Stop playback 9 Start voice guidance*2
- \Box Turn answering system off
- # 9 Turn new message alert off*3
- Erase message (during playback)
- Erase all messages
- End remote operation and end call |X||#
- *1 If pressed within the first 5 seconds of playback, the previous message is played.
- *2 Available for the following models only.
 - KX-HNB600 (when Spanish is selected as the voice prompt language)
 - KX-HNB600LC
 - KX-HNB600ME
- *3 Available for 10 seconds after listening to new messages.

All other models

- Repeat message (during playback)*1 П
- Skip message (during playback) 2
- Play new messages
- 5 Play all messages
- Play greeting message 6
- 7 Record greeting message
- 9 Stop playback or recording Start voice guidance*2
- Turn answering system off ា
- # 9 Turn new message alert off*3
- Erase message (during playback) X 4
- Erase all messages X 5
- Reset to the pre-recorded greeting message (during greeting message playback)
- End remote operation and end call |X||#|
- *1 If pressed within the first 5 seconds of playback, the previous message is played.
- *2 Available for the following models only.
 - KX-HNB600FR
- *3 Available for 10 seconds after listening to new messages.

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- Turning on the answering system remotely
 Important:

 The answering system must be activated in order to turn it on remotely ("Activating the answering system", Page 84).

 The answering system must be activated in order to turn it on remotely ("Activating the answering system", Page 84).

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 The answering system must be activated in order to turn it on remotely ("Activating the answering system", Page 84).

- - You can either hang up, or enter your remote access code again and begin remote operation.

Answering system settings

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Answering Device].
 - Names of features and settings may vary depending on your mobile device's language settings. The [Answering Device] setting may be called [Answering System].
- 3 Tap [Settings].
- 4 Change the settings as desired.
 - Each setting is explained in this section.
- 5 Follow the on-screen instructions.

[Ring Count] setting

This setting allows you to change the number of times the system rings before the answering system. answers a call

When [Toll Saver] is selected

If you set the [Ring Count] setting to [Toll Saver], the number of rings varies depending on whether there are new messages or not.

If you call your home phone from outside to listen to new messages ("Standard remote access", Page 88), you will know if you have new messages or not by the number of rings. If you have no new messages, you can choose to hang up and avoid being charged for the call.

Most models (exceptions listed below)			
When there are new messages	System answers after 2 rings		
When there are no new messages	System answers after 5 rings		
If you only want to check new messages	Hang up after 3 rings		

KX-HNB600E	
When there are new messages	System answers after 5 rings
When there are no new messages	System answers after 8 rings
If you only want to check new messages	Hang up after 6 rings

KX-HNB600G		
When there are new messages	System answers after 4 rings	
When there are no new messages	System answers after 7 rings	
If you only want to check new messages	Hang up after 5 rings	

Note:

Names of features and settings may vary depending on your mobile device's language settings. The [Ring Count] setting may be called [Number of Rings]. The [Toll Saver] setting may be called [Auto].

For landline voicemail service subscribers

To receive voicemail and use the answering system properly, please note the following.

- To use your landline phone service provider's voicemail service ("Voicemail support, rage oc, make than the answering system, turn off the answering system ("Turning the answering system on and off office answering system). • To use your landline phone service provider's voicemail service ("Voicemail support", Page 83) ration
- To use the answering system rather than your landline phone service provider's voicemail service, please ask the service provider to deactivate your voicemail service. If your landline phone service provider cannot do this:
 - Set the answering system's [Ring Count] setting so that it answers calls before your landline's voicemail service does. It is necessary to check the number of rings required to activate your landline's voicemail service before changing this setting.
 - Increase the number of rings required for your landline phone service provider's voicemail service. so that the answering system can answer calls before your landline's voicemail service does. Contact your landline phone service provider as necessary.

[Recording Time] setting

This setting determines the maximum recording time allowed for each caller.

Note:

- If you select [Greeting Only], the answering system does not record caller messages.
- If you do not record your own greeting message and [Greeting Only] is selected, the answering system will play the pre-recorded greeting-only message asking callers to call again later. If you record your own greeting message ("Recording your greeting message", Page 85), ask callers to call again later.

[Remote Code] setting

The remote access code is a 3-digit code that must be entered in order to access the answering system. remotely using standard remote access. This code prevents unauthorized parties from listening to your messages remotely, and is also used for the new message alert feature (see "New message alert", Page 86).

[Voice Prompt] setting (certain models only)*1

This setting determines the language used for answering system voice guidance prompts.

- *1 This feature is available for the following hub model numbers.
 - KX-HNB600
 - KX-HNB600C

System expansion (overview)

You can expand the system by registering additional devices to the hub.

Maximum number of mobile devices	8*1
Maximum number of cordless handsets	6
Maximum number of cameras	4
Maximum number of sensors and other devices	50

*1 8 mobile devices can be registered to

Registering devices

If you purchased any devices separately from the hub, you must register them to the hub before you can use them.

- hub", Page 28.
- From the [Home Network] app home screen, tap [Settings].
- Tap [Device Registration].
- 3 Tap [Registration].
- 4 Select the type of device that you want to register.
- 5 When registering a handset

When prompted, place the handset on its charger.

When registering a camera, sensor, or other device

When prompted, press and hold the registration button on the device that you want to register until the device's LED indicator blinks in green.

- When registration is complete, the hub sounds one long beep.
- If registration fails, the hub sounds several short beeps.

Note:

- If you register a large number of devices to the hub, you may forget which name is assigned to each device. In this case, see "I cannot remember the names I assigned to my devices", Page 114.
- You can customize the name of each device and assign them to locations for easier management. For details, see "Setting device profiles (device names, locations, and other settings)", Page 92.

Deregistering devices

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Device Registration].
- 3 Tap [Deregistration].
- 4 Select the type of device that you want to deregister.
- Tap the name of the device that you want to deregister, and then tap [OK].

Setting device profiles (device names, locations, and other settings)

Device profiles allow you to assign a name and location to each device. These settings are especially convenient when you have several devices of the same type. Additional settings are available depending on the type of device.

Note:

When changing a device name, any characters not supported by the hub will be replaced by "*".

Device profiles for cameras

- Using the app 1 From the [Home Network] app home screen, tap [Settings] → [Device Profiles]
- 2 Select the device that you want to change settings for.
 - Settings that affect all cameras are available by tapping [Common Settings]. See camera settings", Page 63 for more information.
- 3 Change the settings as desired, and then tap **[OK]**.
 - [Location]: This setting determines the location name assigned to the device.
 - **[Name]**: This setting determines the name assigned to the device.
- ara. Vandenborre.be - [Camera LED]: This setting determines whether the device's LED indicator lights or is disabled.
 - [Motion Sensitivity]: See "Image and infrared sensor sensitivity (outdoor cameras only)". Page 64 or "Image sensor sensitivity (indoor cameras only)". Page 65.
 - [Temperature Sensor] (indoor cameras only): See "Temperature alert (indoor cameras only)", Page 62.
 - [Sound Sensor] (indoor cameras only): See "Sound alert (indoor cameras only)", Page 62.

Device profiles for window sensors and door sensors

- 1 From the [Home Network] app home screen, tap [Settings] → [Device Profiles] → [Window/Door Sensor].
- 2 Select the device that you want to change settings for.
- 3 Change the settings as desired, and then tap [OK].
 - [Location]: This setting determines the location name assigned to the device.
 - [Name]: This setting determines the name assigned to the device.
 - [Installation Type]: This setting determines whether the device functions as a window sensor or as a door sensor. For details, see "Differences between window sensors and door sensors", Page 56.

Device profiles for motion sensors

- 1 From the [Home Network] app home screen, tap [Settings] → [Device Profiles] → [Motion Sensorl.
- 2 Select the device that you want to change settings for.
- 3 Change the settings as desired, and then tap [OK].
 - [Location]: This setting determines the location name assigned to the device.
 - **[Name]**: This setting determines the name assigned to the device.

Device profiles for smart plugs

- 1 From the [Home Network] app home screen, tap [Settings] → [Device Profiles] → [Smart Plug].
- 2 Select the device that you want to change settings for.
- 3 Change the settings as desired, and then tap [OK].
 - [Location]: This setting determines the location name assigned to the device.
 - [Name]: This setting determines the name assigned to the device.
 - [Smart Plug LED]: This setting determines whether the device's LED indicator lights or is disabled.

Device profiles for sirens

- 1 From the [Home Network] app home screen, tap [Settings] → [Device Profiles] → [Siren].
- 2 Select the device that you want to change settings for.
- 3 Change the settings as desired, and then tap [OK].
 - [Location]: This setting determines the location name assigned to the device.
 - [Name]: This setting determines the name assigned to the device.

Using the app

- [Strobe Light & Sound]: Allows you to select whether the siren's strobe light flashes and its siren sounds when the alarm system is triggered.
- [Installation Test]: Allows you to sound the siren as a test.
- [Installation Test]: Allows you to sound the siren as a test.
 [Status LED]: This setting determines whether the device's LED indicator lights or is gisabled.

Device profiles for glass break sensors

- [Status LED]: This setting determined vice profiles for glass break sensors

 From the [Home Network] app home screen, tap [Settings] → [Device Profiles] → [Glass Break Property of the Consert of the
- 2
- 3 Change the settings as desired, and then tap [OK].
 - [Location]: This setting determines the location name assigned to the device.
 - [Name]: This setting determines the name assigned to the device.
 - [Detection Test]: Use this feature to simulate a glass break and trigger the sensor without actually breaking glass.
 - 1 Press •)) C on the sensor.
 - The sensor's LED indicator lights according to its status. See "Glass break sensor LED indicator", Page 42.
 - 2 Point your mobile device's speaker toward the center of the sensor, and hold your mobile device approximately 5-10 cm (approximately 2-4 inches) from the sensor.
 - 3 Tap [Play].
 - 4 Confirm that the sensor's LED indicator lights in red to indicate that it has detected the sound of breaking glass.
 - If the LED indicator does not light in red, confirm the following and try again.
 - Make sure your mobile device's speaker volume is set to the highest setting.

iPhone, iPad

Use your mobile device's volume controls to increase the volume.

Android devices

Adjust the volume used for alerts. This setting can be found in your mobile device's [Settings] app.

- Remove your mobile device from its case (if applicable).
- Make sure the surrounding environment is quiet, with no loud background noise (such as the sound from a TV).
- 5 Tap [Cancel] when finished.
- 6 Press •)) C again.
 - The sensor's LED indicator turns off.

Note:

- This procedure does not quarantee that the sensor will always perform as expected.
- The sensor may not detect the test sound depending on the characteristics of your mobile device's speaker (tone, volume, etc.), the characteristics of the surrounding environment (presence of background noise, volume of background noise, etc.).

Device profiles for water leak sensors

- From the [Home Network] app home screen, tap [Settings] → [Device Profiles] → [Water Leak Sensor].
- Select the device that you want to change settings for.
 - Settings that affect all water leak sensors are available by tapping [Common Settings]. See "Changing the volume and length of the water leak alert", Page 56 for more information.

- **3** Change the settings as desired, and then tap **[OK]**.

Device profiles for keychain remotes

- Change the settings as desired, and then tap [OK].

 [Location]: This setting determines the location name assigned to the device.

 [Name]: This setting determines the name assigned to the device.

 [Vice profiles for keychain remotes

 From the [Home Network] app home screen, tap [Settings]

 [Device Profiles]

 [Keychain Remote].
- 2 Select the device that you want to change settings for.
- 3 Change the settings as desired, and then tap [OK].

 - [Smart Button]: This setting determines the operation assigned to the remote's "smart" button. You can use the smart button to turn on a smart plug, or use it as a panic button that triggers the alarm system.

Device profiles for keypads

- From the [Home Network] app home screen, tap [Settings] → [Device Profiles] → [Keypad].
- 2 Select the device that you want to change settings for.
- 3 Change the settings as desired.
 - [Location]: This setting determines the location name assigned to the device.
 - [Name]: This setting determines the name assigned to the device.
- 4 Tap [Keypad Settings].
- **5** Change the settings as desired, and then tap **[OK]**.
 - [Show Arm Status]: This setting determines whether the touchpanel buttons light to indicate the current arm mode.
 - [Talking Notification]*1: This setting determines whether alarm and other events are announced by the keypad.
 - [Key Tone]: This setting determines whether key tones are heard when you enter numbers using the touchpanel buttons.
- 6 Tap [OK].
- *1 [Talking Notification] is only available for the following hub model numbers.
 - KX-HNB600
 - KX-HNB600E
 - KX-HNB600G

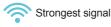
Device profiles for backup batteries

- 1 From the [Home Network] app home screen, tap [Settings] → [Device Profiles] → [Backup Battery].
- 2 Select the device that you want to change settings for.
 - For information about [Power Outage Notification], see "Configuring power outage notifications", Page 67.
- 3 Change the settings as desired, and then tap **[OK]**.
 - [Connected Device]: Set this setting to match the device that is connected to the backup battery.
 - [Name]: This setting determines the name assigned to the device.
 - [Power Outage Detection]: This setting determines whether the backup battery detects power
 - [Status LED]: This setting determines whether the device's LED indicator lights or is disabled.

Device signal strength

You can check the signal strength of each device's wireless connection to the hub.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Device Registration].
- 3 Tap [Signal Strength].
- 4 Select the type of device that you want to check.
- Tap the name of the device that you want to check.
 - For devices powered by a battery (such as sensors), press the registration button (•))) on the device when prompted.
- Confirm the number of blue bars.
 - More blue bars indicate a stronger signal.











Notification settings

You can select which types of status notifications are displayed, and which are not.

Important:

- In order to receive notifications, your mobile device must be able to access the Internet. If your mobile device is not connected to a Wi-Fi network, a mobile network connection is required.
- From the [Home Network] app home screen, tap [Settings].
- Tap [Notification Settings].
- Change the settings as desired.
 - Each setting is explained in this section.

System notifications

[Arm Alert]

This setting determines whether a notification is displayed when the alarm system is triggered.

[Arm Mode Change]

This setting determines whether a notification is displayed when the arm mode is changed by another device.

[Entry Delay Start]

This setting determines whether a notification is displayed when the entry delay timer is counting down.

[Device Error]

This setting determines whether a notification is displayed when a device error is detected, such as low battery, disconnection, etc.

Downton ded from www.vandenborre.be

[Hub Powered Up]
This setting determines whether a notification is displayed when the hub starts up. This notification can

[Hub Powered Up]
This setting determines whether a notification is displayed when the hub starts up. This nouncement be used to indicate that a power outage occurred.

Camera notifications
[Camera Recording]
This setting determines whether a notification is displayed when camera images are being recorded transformed to the control of the control of

[Sound Detection Alert (Indoor Camera)]

This setting determines whether a notification is displayed when an indoor camera's sound sensor is triggered.

[Cold Alert (Outdoor Camera)]

This setting determines whether a notification is displayed when an outdoor camera has detected ambient temperatures of -30 °C (-22 °F).

Smart Plug notifications

[Excessive Power Alert]

This setting determines whether a notification is displayed when a smart plug's overcurrent and overwattage sensor is triggered.

Water Leak Sensor notifications

[Water Leak Alert]

This setting determines whether a notification is displayed when a water leak sensor has detected a water leak

Backup Battery notifications

[Power Outage Notification]

This setting determines whether a notification is displayed when a backup battery has detected a power outage.

Phone notifications

[Missed Call]

This setting determines whether a notification is displayed when there is a missed landline call.

• This notification is only received when your mobile device is connected to the same wireless router as the hub

[Answering Device]

This setting determines whether a notification is displayed when there is a new message in the answering system.

- This notification is only received when your mobile device is connected to the same wireless router as
- Names of features and settings may vary depending on your mobile device's language settings. The [Answering Device] setting may be called [Answering System].

[Voice Mail]

This setting determines whether a notification is displayed when the landline's voicemail service has recorded a new message.

• This notification is only received when your mobile device is connected to the same wireless router as the hub

General settings

You can customize general system settings to suit your needs.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [General].
- 3 Change the settings as desired.
 - Each setting is explained in this section.

[Change Login Password] setting

See "Login password", Page 99.

[Automatic Login] setting

This setting determines whether or not you must enter a password to connect to the system when accessing it from away from home.

Note:

- You can also disable automatic login quickly from the app's home screen.
 - 1. From the home screen, open the options menu ("Displaying the options menu", Page 35).
 - 2. Tap [Cancel Automatic Login] → [OK].

[Auto Launch] setting (Android devices only)

This setting determines whether the [Home Network] starts automatically when you turn on your mobile device, allowing you to receive landline calls without first starting the app.

[Hub LED] setting

This setting determines whether the hub LED indicator lights or is disabled.

[Shortcut Menu] setting

This setting determines whether the shortcuts menu tab is displayed on the left or right side of the screen, or is turned off.

[Time Adjustment] setting

This setting allows you to synchronize the hub's date and time setting with the date and time setting of your mobile device.

To synchronize the date and time setting of the mobile device displayed on this screen, tap [Update Time].

To change the mobile device used for time synchronization, tap the name of the mobile device displayed on this screen, select the desired mobile device, and then tap [OK].

[Quick Monitoring Access] setting

See "Quick access", Page 99.

[Hub SD Card] information

Information about the SD card's recording capacity is displayed.

[Connection Status Icon] (Android devices only)

This setting determines whether the app's connection status icons are displayed in your mobile device's status bar.

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[Firmware Update] feature

See "Hub firmware", Page 99.

[Firmware Version] information

Information about the system's firmware is displayed.

[App Version] information

Information about the [Home Network] app installed on your mobile device is displayed.

Login password

The login password is used to access the system while away from home.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [General].
- 3 Tap [Change Login Password].
- 4 Enter the desired password and then tap **[OK]**.
 - To display the characters that you have entered, turn on the [Show Password] checkbox.

Note:

If you forget the login password, access the system while at home and change the password. (The
password is not required to access the system while at home.)

Quick access

You can use this feature to choose the screen that is displayed when you start the app or tap a notification.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [General].
- 3 Tap [Quick Monitoring Access].
- 4 Select the desired setting and then tap [OK].
 - [Auto]: The app's home screen is displayed. If a sensor was triggered or images from a camera are being recorded, the corresponding screen is displayed.
 - [Quad View]: The camera list is displayed.
 - Camera 1-4: Live images from the selected camera are displayed.

Hub firmware

You can use this feature to check for a newer version of the hub firmware (i.e., system software). If a newer version is found, you can update the firmware.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [General].
- 3 Tap [Firmware Update].
 - The hub will access the Internet and check for a newer version of its firmware.
- 4 Follow the on-screen instructions

If the "firmware update is available" message is displayed automatically

If the hub finds that a firmware update is available, it will display a message automatically that prompts you to update the firmware. Follow the on-screen instructions to update the firmware.

**Tangle and the firmware update is available, it will display a message automatically that prompts you to update the firmware.

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**Tangle and the firmware update is available, it will display a message automatically that prompts you to update the firmware update is available.

**Tangle and the firmware update is available, it will display a message automati performing certain operations, such as deregistering or making intercom calls using a cordless handset.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Wi-Fi Settings].
- 3 Tap [Set Mobile Device Name].
- 4 Edit the name as desired and then tap [OK].

Confirming network information

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Wi-Fi Settings].
- 3 Tap [Current Status].

Changing IP settings

Typically these settings should not be changed.

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Wi-Fi Settings].
- 3 Tap [IP Settings].
- 4 Select the desired IP address mode.
 - In most cases [Auto (DHCP)] is preferred. In this case, no other settings are available on this screen.
 - If you select [Manual (Static)], other settings on this screen become available. If these settings are not configured to match your wireless router's requirements, the hub will not be able to connect to your wireless router and all app features will become unavailable.
- Configure the settings as needed and then tap [OK].

Note:

• If you make a mistake while configuring the hub to use a static IP address and you can no longer access the hub, reset the hub's Wi-Fi settings and set up the hub again (see "Setting the hub's Wi-Fi settings again", Page 101).

Deleting wireless access points

The app remembers the SSIDs of wireless routers that you use at home to access the system; it can remember 10 SSIDs, and saves them in the wireless access point list. If the list is full and you try to access the system using a new SSID while at home, the app may connect to the hub over the Internet even though you are at home, i.e., [Remotely Connected] will be displayed at the top of the home screen. In this case, we recommend deleting unused SSIDs from the wireless access point list.

- From the [Home Network] app home screen, open the options menu (see "Displaying the options menu", Page 35).
- 2 Tap [Wireless Access Point].
- 3 Select the wireless access point that you want to delete and then tap [Delete].

Note:

• You cannot delete the wireless access point that your mobile device is currently connected to.

[Port Forwarding] settings

These settings are only required if you need to configure your wireless router's port forwarding teature in order to access the hub while away from home.

Important:

- all vandenborrebe • In order to use this feature, you must first configure the hub to use a static IP address ("Changing IF settings", Page 100).
- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Wi-Fi Settings].
- 3 Tap [Port Forwarding].
- 4 Turn on the [Enable] radio button.
- 5 Tap the field next to [Port A] and then enter the desired port number.
 - Repeat this step for [Port B] and [Port C]. A value must be assigned to each port.
 - Only port numbers 62000–63000 can be assigned.
 - Configure your wireless router's port forwarding feature to forward these ports to the static IP address that you have assigned to the hub.
- 6 When finished, tap IOKI.

[MTU Settings] (maximum data size setting)

This setting affects how data is sent over the network. Typically this setting does not need to be changed.

- From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Wi-Fi Settings].
- 3 Tap [MTU Settings].
- Select the desired value and then tap [OK].

Setting the hub's Wi-Fi settings again

If your wireless router's SSID (i.e., network name) or password changes, or if you replace your wireless router with a new one that uses a different SSID or password, you will need to set the hub's Wi-Fi settings again.

If a cordless handset is registered to the hub, you can use the cordless handset to set the hub's Wi-Fi settings. Refer to the Wi-Fi settings information in the operating instructions included with your cordless handset.

- Press and hold the 3 registration buttons on the side of the hub and the Wi-Fi SETUP button on the back of the hub at the same time (4 buttons total) until the hub's LED indicator blinks in green and vellow.
- 2 Wait for the hub's LED indicator to light in yellow.
- 3 From the [Home Network] app home screen, open the options menu (see "Displaying the options menu", Page 35).
- 4 Tap [Deregistration from Hub] → [OK].
- **5** Follow the initial setup procedure (see "Initial setup", Page 25).

Storing your security service account number models only)*1 You can store your account number in the hub and integrate the hub with your security service. **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen, tap [Settings].** **Throw the [Home Network] app home screen app home

- When you store your account number, settings for the alert by phone call feature ("Alert by phone call", Page 47) are changed automatically, as follows.
 - Alert by phone call is automatically enabled for the [Arm: Away] and [Arm: At Home] arm modes.
 - Your security service's call center phone number and service name is saved automatically in memory location 1. As a result, items previously saved in memory locations 1-4 will be moved to memory locations 2-5: the item saved in memory location 5 will be deleted.
- If you delete the account number, settings for the alert by phone call feature are changed automatically, as follows.
 - If your security service's call center phone number is saved in memory location 1, it will be deleted, and items previously saved in memory locations 2-5 will be moved to memory locations 1-4.

Model information

- *1 This feature is available for the following hub model numbers.
 - KX-HNB600G

Reducing battery consumption (iPhone, iPad only)

The [App Battery Save] feature can help you conserve your mobile device's battery power. When this feature is turned on, the app will not receive landline calls when it is in the background, thus reducing battery consumption.

- 1 From the [Home Network] app home screen, tap [Settings].
- Tap [App Battery Save].
- Select the desired setting and then tap [OK].

Note:

Turning this feature off can affect battery performance.

Resetting the app's settings

Important:

 After resetting the app's settings, your mobile device will not be able to access the system. Refer to the following after performing this procedure.

If the hub's LED indicator is lit in yellow

Perform the procedure described in "Initial setup", Page 25.

If the hub's LED indicator is lit in green or red

Perform the procedure described in "Registering other mobile devices to the hub", Page 28.

- (see "Displaying the options From the [Home Network] app home screen, open the options menu (see menu", Page 35).
- 2 Tap [Deregistration from Hub] → [OK].

Resetting the hub's settings

- 1 From the [Home Network] app home screen, tap [Settings].
- 2 Tap [Reset Hub].
- 3 Select the desired feature.
 - [Reset All Settings]: Resets all hub settings, including Wi-Fi settings.
 - [Reset Hub Settings]: Resets all hub settings except Wi-Fi settings.
 - [Reset Wi-Fi Settings]: Resets Wi-Fi settings only.
- 4 Follow the on-screen instructions.
- 5 If you selected [Reset Hub Settings]

The procedure is complete.

If you selected [Reset All Settings] or [Reset Wi-Fi Settings]

Wait for the hub's LED indicator to light in yellow, then follow the initial setup procedure (see "Initial setup", Page 25).

Forcing the hub to reset all settings

You can use this procedure to force the hub to reset all of its settings, including Wi-Fi settings.

- Disconnect the AC adaptor from the hub.
- 2 While pressing the Wi-Fi SETUP button on the rear of the hub and the CAMERA and OTHER **DEVICE** buttons on the side of the hub (3 buttons total), connect the AC adaptor to the hub. Do not release the buttons yet.
- 3 Continue to hold the buttons down until the hub's LED indicator lights in yellow, then release the buttons.
 - If the hub's LED indicator blinks in green and yellow, repeat this procedure and make sure to follow step 2 carefully.
- 4 Wait for the hub's LED indicator to light in green (about 2 minutes).
- 5 Press and hold the Wi-Fi SETUP button until the hub's LED indicator blinks in green.
- **6** Wait for the hub's LED indicator to light in red.
 - The hub has been successfully reset.
- 7 Disconnect the AC adaptor from the hub and then connect it again to restart the hub.
- 8 Reset the app's settings (see "Resetting the app's settings", Page 102), then follow the initial setup procedure (see "Initial setup", Page 25).

Copyright information

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Open source software information

• Parts of this product use open source software supplied based on the relevant conditions of the Free Software Foundation's GPL and/or LGPL and other conditions. Please read all license information and

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homenetwork/")}}

Software information

 The End User License Agreement (EULA) for the Home Network app is available at the following web page:

{{"www.panasonic.net/pcc/support/tel/homenetwork/"|tolink("http://www.panasonic.net/pcc/support/tel/ homenetwork/")}}

If you experience any trouble while using the system, If the trouble persists, refer to the appropriate section in this chapter accepaniencing.

For the latest troubleshooting information, visit {{"www.panasonic.net/pcc/support/tel/homenetwork/"|}}.

For the latest troubleshooting information, visit {{"www.panasonic.net/pcc/support/tel/homenetwork/"}}.

Vandenhooting information, visit {{"www.panasonic.net/pcc/support/tel/homenetwork/"}}.

- Make sure the hub, cameras, etc. are connected to their AC adaptors. Make sure the AC adaptors are connected to electric outlets.
 - →Refer to the System Setup Guide included with your hub and the Installation Guide included with your cameras for information about power connections.
- 2 Make sure the electric outlets used to power the hub, cameras, etc. are functioning. If an electric outlet can be turned on and off by a switch, make sure the switch is turned on.
- Make sure the batteries installed in all sensors have adequate charge remaining.
 - → Check the sensor's status screen for "low battery" or "out of range" errors ("Viewing sensor status", Page 54). Refer to the Installation Guide included with your device for information about battery replacement.

Network devices

Use these steps to make sure that each of your network devices and your Internet connection are working properly.

- Make sure your wireless router any other network devices (cable or DSL modem, network switches, etc.) are turned on.
 - →Refer to the operating instructions included with your wireless router and any other devices for troubleshooting information if necessary.
- 2 Make sure all cables connected between your wireless router and any other network devices are functioning and connected properly.
- Make sure that devices connected to your wireless router can connect to the Internet.
 - → Refer to the operating instructions included with your wireless router for troubleshooting information if necessary. For some Internet connection issues, you may need to contact your Internet service provider.

System connection

Use these steps to make sure that your mobile device can connect to the hub and that each of your system devices are registered to the hub.

- Make sure the hub can connect to your wireless router.
 - → Disconnect the hub's AC adaptor, connect it again, and wait for the hub to start up. If the hub's LED indicator remains blinking in green after a few minutes, the hub is not connected to your wireless router. In this case, reconnect the hub to your wireless router ("Setting the hub's Wi-Fi settings again", Page 101).
- Make sure your mobile device can connect to your hub while you are at home.
 - → Check your mobile device's Wi-Fi settings and confirm that it is connected to your wireless router. Next, use the [Home Network] app to connect to the hub, and confirm that [Home Wi-Fi Connected] is displayed at the top of the home screen.

Troubleshooting

Make sure your devices are registered to the hub. Register them if they are not "Registering" 3 devices", Page 92).

→ Cameras

→Sensors

→Sirens

→Smart plugs

Check the smart plug's LED indicator. If the smart plug's LED indicator blinks in red, it may be out of range of the hub or not registered. If the LED indicator is not blinking in red, try turning the smart plug on or off; if you can turn it on or off, it is registered.

- 4 Make sure your devices have adequate signal strength.
 - → Check the signal strength ("Device signal strength", Page 96) and move devices closer to the hub if necessary.

The following error codes and messages may be displayed in the Notifications Center (for iPhone, iPad) and the status bar (for Android devices).

[Unable to connect to the network.] is displayed

Error code: E1-02

- Your mobile device's Wi-Fi feature is turned off.
- →Turn it on.
- Your mobile device cannot connect to your wireless router.
 - → Make sure your wireless router is turned on and functioning.

[Not connected] is displayed

Error code: E1-04

- Your mobile device cannot connect to the hub.
 - → Make sure the hub and your wireless router are turned on and functioning.
- You replaced your wireless router, or changed your wireless router's network settings.
 - → Configure the hub's Wi-Fi settings ("Setting the hub's Wi-Fi settings again", Page 101).

[The application couldn't start.] is displayed

Error code: E1-05

• Another app running on your mobile device is preventing the [Home Network] app from starting.

→iPhone, iPad

Press your device's home button two times and force the [Home Network] app to exit. Quit other apps and then try to start the [Home Network] app again later.

→Android devices

Tap [OK] to exit the [Home Network] app. Quit other apps and then try to start the [Home Network] app again later.

[The maximum number of mobile devices are already registered to the hub.] is displayed

Error code: E2-01

- There are already 8 mobile devices registered to the hub.
 - →Deregister any unused mobile devices from the hub.

[The hub refused this connection.] is displayed

Error code: E2-02 Error code: E2-03

• There is a problem with registration information stored in the hub.

→Deregister your mobile device ("Deregistering devices", Page 92) and register again ("Registering other mobile devices to the hub", Page 28).

he hub is not responding. Use another handset to cance. Tor code: E2-04 There was a problem when deregistering your mobile device. → Use a cordless handset or another mobile device to deregister the mobile device from the hubing tenthorne. I is displayed [The hub is not responding. Use another handset to cancel the registration.] is displayed Error code: E2-04

- There was a problem when deregistering your mobile device.

[The hub is not responding.] is displayed

Error code: E3-01

- There is a communication problem.
 - → Make sure that the hub and your wireless router are turned on and functioning, turn your mobile device's Wi-Fi feature off and then on again, and then try again.

[Communication error] is displayed

Error code: E5-06

- The Wi-Fi connection between your mobile device, wireless router, and hub was lost.
 - →Make sure you are in a location where your mobile device can connect to your wireless router (if at home) or the Internet (if away from home), and then try using the app again.
- If you have never been able to access the system while away from home, this error message may be displayed because your router does not allow devices outside your network (such as your mobile device when used away from home) to access devices within your network (such as the hub). The likely cause is that your wireless router does not support UPnP, or your wireless router's UPnP feature is turned off.
 - →If your wireless router supports UPnP, make sure the feature is turned on. Refer to the operating instructions included with your wireless router for details.
 - →You may be able to resolve this issue by using your wireless router's port forwarding feature.
 - 1. Assign a static IP address to the hub ("Changing IP settings", Page 100).
 - 2. Configure your wireless router's port forwarding feature to forward ports 62000–63000 to the hub. Refer to the operating instructions included with your wireless router for details.
 - 3. Configure the hub's port forwarding feature ("[Port Forwarding] settings", Page 101).

[Waiting for configuration data] is displayed

Error code: S1-03

- Your mobile device and the hub are connected to different wireless routers.
 - →Make sure your mobile device and the hub are connected to the same wireless router.

I cannot perform initial setup

- Your wireless router is using the 5 GHz band for wireless communication.
 - →The hub only supports the 2.4 GHz band. Make sure your wireless router is configured to use the 2.4 GHz band. "Dual band" configurations are acceptable as long as devices that connect via the 2.4 GHz are able to communicate with devices that connect via the 5 GHz band.
 - → Before performing the initial setup, make sure your mobile device is connected to the wireless router using the SSID that is assigned to the 2.4 GHz band of your wireless router. When prompted to enter your wireless router's password, enter the password that is assigned to the 2.4 GHz band.
- Your wireless router uses MAC address filtering to limit the devices that can access the router.
 - →The hub's MAC address is displayed while performing initial setup. Make a note of the hub's MAC address and add it to your wireless router's list of MAC address that are allowed to access the router.
- Your wireless router is using "stealth mode", i.e., it is not broadcasting its SSID.
 - → If your wireless router is configured to use stealth mode, temporarily disable stealth mode while performing initial setup.
- Your mobile device is connecting to a different wireless router during the initial setup procedure.
 - → If your mobile device can connect to other nearby wireless routers, we recommend you turn them off or "forget" their settings while performing initial setup.

- If you continue to have trouble performing initial setup, you may be able to compared settings using the WPS feature of your wireless router.
 → See "Configuring the hub using your wireless router's WPS feature", Page 108.
 Configuring the hub using your wireless router's WPS feature

 If you continue to have trouble performing initial setup, you may be able to configure the hub's Warfingenthous settings using the WPS feature of your wireless router. WPS button is typically labelled "WPS" or has two curved arrows on it.
- If the hub's LED indicator is lit in yellow, start from step 1. If it is lit in green or red, start from step 5.
- Disconnect the AC adaptor from the hub.
- 2 While pressing the Wi-Fi SETUP button on the rear of the hub, connect the AC adaptor to the hub. Do not release the button yet.
- 3 Continue to hold the Wi-Fi SETUP button down until the hub sounds a short beep, then release the button.
 - The hub's LED indicator blinks in green and yellow.
- Wait for the hub's LED indicator to start blinking in green.
- 5 Press and hold the hub's Wi-Fi SETUP button until the LED indicator blinks slowly (about 3 seconds).
- 6 Within 2 minutes, activate your wireless router's WPS mode (e.g., press and hold its WPS button, etc.).
- 7 Wait for the hub's LED indicator to light in green.
 - Initial setup is now complete.
- Register your mobile device to the hub ("Registering other mobile devices to the hub", Page 28).

Refer to the following after checking the general troubleshooting information described in "General information", Page 105.

[Device is in use.] is displayed

 Another user (i.e., mobile device) is already accessing the hub, the same screen, or the same feature. → Wait for the other user to finish and then try again.

[Hub is busy.] is displayed

- Another event, such as a sensor detection or a landline call being received, interrupted the current operation.
 - →Wait and try again later.

[This setting is only available when this mobile device is connected to the same Wi-Fi Home Network as the hub.] is displayed

- While away from home (i.e., while your mobile device was not connected to the same wireless router as the hub), you tried to access settings that are only available while at home.
 - →Try again when at home.

[The hub is not receiving a signal.] is displayed

- The hub cannot receive a signal from the device you are trying to operate.
 - →Make sure the device is receiving power, or that its batteries have adequate charge remaining.
 - →Move the device closer to the hub or, if possible, remove any obstacles between the device and the hub.

[Time out] is displayed

While operating a system feature, you paused for a length of time without performing any actions.

→ If you pause for too long while operating certain features, the system will canted the operation that other users can access the system. Try again.

Properties of the operation of the op

[Deregistered by other user] is displayed

- Another user deregistered your mobile device.

[The hub is not responding.] is displayed

- The hub is not turned on.
- The hub's firmware is being updated.
 - →Wait for the firmware update to finish and then try again.

[Failed] is displayed

- An error occurred while configuring the hub.
 - →Check all connections and try again.

[Setup failed.] is displayed

- An error occurred while configuring the hub.
 - →Check all connections and try again.

[Remotely Connected] is displayed even when accessing from home

- Your mobile device is not connected to your wireless router.
 - →Make sure your mobile device's Wi-Fi feature is turned on and that your mobile device is connected to your wireless router.
- The app's wireless access point list is full.
 - →Delete any unnecessary wireless access points from the list ("Deleting wireless access points", Page 100).

The connection to the system is slow or disconnects while away from home

- There is too much traffic on your home network or on the mobile device's network.
 - →Wait for network traffic to decrease.

I cannot access the system

- You replaced your wireless router with a new router, or changed your wireless router's SSID (i.e., network name) or password.
 - →See "Setting the hub's Wi-Fi settings again", Page 101.
- Your wireless router is using the 5 GHz band for wireless communication.
 - →See "I cannot perform initial setup", Page 107.
- Your wireless router at home is connected to another router.
 - → If your wireless router is connected to another router, make sure your network is configured so that your mobile device and the hub can communicate over your home network. We recommend making sure the DHCP feature of only one router is enabled and setting the other routers to "access point mode" or "bridge mode".
- Your wireless router uses MAC address filtering to limit the devices that can access the router.
 - →Temporarily disable your wireless router's MAC address filtering feature, then access the system. Make a note of the hub's MAC address and add it to your wireless router's list of MAC address that are allowed to access the router. You can confirm the hub's MAC address on the [Current Status] screen ("Confirming network information", Page 100).

I cannot access the system while away from home

- You are using a public Wi-Fi network.
 - →Network traffic, network conditions, and the network provider's settings or policies may inhibit access to the system. Use a private Wi-Fi network or your mobile network service provider's wireless network (3G, 4G, etc.).
- The hub's date and time setting is incorrect.

Troubleshooting

Sometimes I cannot access the system while at home

- There is too much traffic on your home network.
- Troubleshooting

 → Adjust the date and time setting ("[Time Adjustment] setting", Page 98).

 There is too much traffic on your home network.

 → Wait for network traffic to decrease.

 → Representation included with your wireless router for other possible solutions.
- Your mobile device is discovering too many nearby wireless networks.
 - →Move your mobile device closer to your wireless router.
- Your mobile device has too many wireless networks stored in its Wi-Fi list.
 - →Use your mobile device's "forget this Wi-Fi network" feature and delete any unnecessary/unused wireless networks from the list. Refer to your mobile device's operating instructions or support site for details

I forgot the system's login password

- →Access the system while at home and change the password. (The password is not required to access the system while at home.)
- →If for some reason you cannot access the system while at home and change the password, force the hub to reset its settings ("Forcing the hub to reset all settings", Page 103) and then configure the hub again.

Refer to the following after checking the general troubleshooting information described in "General information", Page 105.

[Device is in use.] is displayed

- Another user (i.e., mobile device) is already accessing the hub, the same screen, or the same feature.
 - →Wait for the other user to finish and then try again.

The arm mode icon at the top of the home screen does not indicate the current mode

- Another user changed the arm mode.
 - →If another user changes the arm mode, the arm mode icons displayed at the top of the home screen of your mobile device will not change immediately. The icons will be updated and display the current arm mode the next time the app refreshes the home screen, such as when you start the app or return to the home screen from another screen

Status notifications are not received

- The system's status notification features are disabled.
 - →Make sure the desired type of notifications are enabled ("Notification settings", Page 96).
- Your mobile device's notifications feature is disabled for the [Home Network] app.
 - → Enable your mobile device's notifications feature.
- Too many notifications were sent from the hub during this calendar month.
 - → If an excessive number of notifications (i.e., thousands of notifications) were sent from the hub during this calendar month, an error message is displayed and no additional notifications can be received this calendar month. Notifications will be received again when the new month starts.

• iPhone, iPad

Too many notifications were sent from the hub in a short amount of time.

→ If many notifications were sent from the hub in a short time, in some cases only the last notification may be received. This is a characteristic your mobile device's notifications service.

The app was forcibly quit.

→Start the [Home Network] app. To exit the app, use the procedure described in "Exiting and logging out", Page 37.

Status notifications are received late

- Notifications are not received in real time; it may take some time for notifications to be received. This is not a malfunction
- Too many notifications were sent from the hub in a short amount of time.

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→If many notifications were sent from the hub in a short time, notifications may received late. This is a characteristic your mobile device's notifications service.

The siren stops sounding or flashing before I cancel an alert

• When the alarm system is triggered, the hub signals the siren to begin sounding or flashing, its strobe light. If the alert has not been canceled, the hub signals the siren to stop sounding or flashing minute later. If for some reason the hub cannot signal the siren, the siren stops by itself after an additional Adenborre.be 1 minute (i.e., about 2 minutes after it first began sounding or flashing).

Refer to the following after checking the general troubleshooting information described in "General information". Page 105.

[Device is in use.] is displayed

• Another user (i.e., mobile device) is already accessing the hub, the same screen, or the same feature. → Wait for the other user to finish and then try again.

A "conflict" error is displayed on the scenario screen or when configuring a scenario

- The scenario's conditions (day, time, and arm mode) overlap with another scenario that is configured to control the same device.
 - →Edit the scenario so that it does not conflict with another scenario.

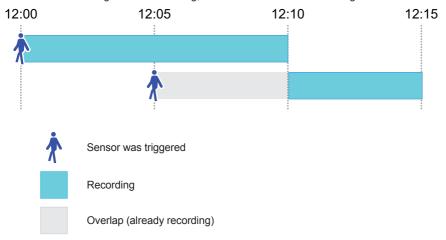
Camera recording does not start immediately after the sensor is triggered

• When using a smart control scenario to record camera images, there may be a short delay after the sensor is triggered before recording starts. This is not a malfunction.

Camera recordings are shorter than they should be

- If you configure a smart control scenario to record camera images when triggered by a sensor, and if the sensor is triggered multiple times, subsequent recordings may be shorter than anticipated.
 - →This is not a malfunction. Camera recordings for the same camera cannot overlap, therefore if the sensor is triggered multiple times, recordings may be shorter than anticipated. In the example below, the system is configured to record 10 minutes of camera video when the motion sensor is triggered. The sensor was triggered at 12:00 and the system recorded 10 minutes of video. When the sensor was triggered again at 12:05, recording was already underway, so the system waited until 12:10 (when the first recording stopped) and recorded 5 minutes from the second triager.

The first recording is 10 minutes long, and the second is 5 minutes long.

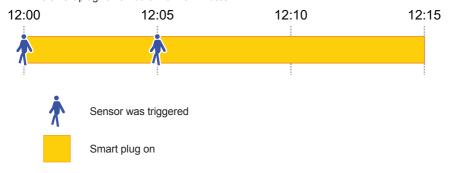


Smart plugs stay on longer than they should be

- If you configure a smart control scenario to turn on a smart plug when triggered by a sensor, and if the sensor is triggered multiple times, the smart plug may stay turned on longer than antiopated.
 - →This is not a malfunction. The smart plug stays turned on for the set amount of time each time the sensor is triggered. If the sensor is triggered again before the previous "power on" time each time the sensor is triggered. If the sensor is triggered again before the previous "power on" time each, the smart plug may stay turned on longer than you anticipated.

 In the example below, the system is configured to turn the smart plug on for 10 minutes when the motion sensor is triggered. The sensor was triggered at 12:00 and the system turned the smart plug on for 10 minutes. When the sensor was triggered again at 12:05, the smart plug was already on, so the system waited until 12:15 (10 minutes after the last trigger) to turn off the smart plug.

 The smart plug remained on for 15 minutes.



Refer to the following after checking the general troubleshooting information described in "General information", Page 105.

[Device is in use.] is displayed

- Another user (i.e., mobile device) is already accessing the hub, the same screen, or the same feature.
 →Wait for the other user to finish and then try again.
- [The hub's SD card is full.] is displayed
- The SD card is full.
 - →Erase unnecessary images from the SD card. If you saved other data on the SD card using another device, use the other device and erase any unnecessary data.
 - →Turn on the recording overwrite feature ("General camera settings", Page 63) so that new recordings automatically erase old ones.

[There is no SD card in the hub.] is displayed

- There is no SD card inserted in the hub.
 - →Insert a compatible SD card.

[Communication error] is displayed

- Your mobile device could not communicate with the hub.
 - → Check all connections and settings and try again.

[Out of Range] is displayed

- The hub could not communicate with the camera.
 - →Check all connections and settings and try again.
 - →Move the camera closer to the hub or, if possible, remove any obstacles between the camera and the hub

[Hub SD card error.] is displayed

• The SD card is not formatted for use with the hub.

- →Format the card ("SD card formatting", Page 66).
- You just inserted the SD card into the hub.
 - →Wait and try again.

[Failed] is displayed

- An error occurred while saving the picture.
 - →Check all connections and try again.

Colors in camera images appear different from normal

- The camera is aimed at a dark location, or it is nighttime.
 - → If there is not adequate light to illuminate the subject, such as at night, the camera automatically switches to night vision mode. In this case, colors may appear different from normal.
- When viewing images from an indoor camera, black areas of the image appear purplish.
 - →When the subject is lit by sunlight or halogen lights, black areas of the image may appear purplish. This is not a malfunction.

Colors in indoor camera images appear washed out

- Lighting conditions are poor or inconsistent.
 - → Adjust the camera's brightness ("Image brightness", Page 65).
 - → Place the camera in a different location or position.

There is a long delay when talking to the camera while away from home

- Your mobile device's network connection is slow or congested.
 - →Wait for network traffic to decrease.
 - →Lower the [Frame Rate] setting ("General camera settings", Page 63).

Camera images are not displayed at first while away from home, and are displayed after some time passes

- Your mobile device's network connection is slow or congested.
 - →Wait for network traffic to decrease.
 - →Lower the [Frame Rate] setting ("General camera settings", Page 63).

I have to wait a long time before camera images are displayed while away from home

- There is too much traffic on your home network or on the mobile device's network.
 - →Wait for network traffic to decrease.

Camera recording does not start immediately after the sensor is triggered

• See "Camera recording does not start immediately after the sensor is triggered", Page 111.

The camera's sensor is triggered too easily

- The camera's motion detection features are too sensitive.
 - → Reduce the sensitivity of the camera's sensor. For outdoor cameras, see "Image and infrared sensor sensitivity (outdoor cameras only)", Page 64. For indoor camera, see "Image sensor sensitivity (indoor cameras only)", Page 65.
- The camera's detection area is too large.
 - →Limit the detection area so that the camera ignores motion in unneeded areas of the camera's image, i.e., reduce the camera's detection area ("Detection area", Page 65).
- The camera's settings are not suited to the environment.
 - → Review the information in the Installation Guide included with your camera about sensor features and installation environment.
 - →Indoor cameras and outdoor cameras can detect motion visually (i.e., when an area of the camera's image changes brightness). Outdoor cameras can also detect motion by sensing temperature changes (i.e., when an area of the sensor's detectable area is becomes hotter than another). For this reason, false detections may occur in the following locations.

False detections caused by predicable movement in a specific area of the camera image

Areas where fixed objects move in the wind, such as tree branches or hanging laundry

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Troubleshooting

- Areas where animals move in a limited area, such as birds in a nest or small animals close to the

ground

Areas where brightness significantly, such at night, or vehicles pass by at night with their headlights or brakengers.

You can prevent these false detections by adjusting the position of the camera, by limiting the detection area so that the camera ignores motion in unneeded areas of the camera's image ("Detection area", Page 65), or by turning video motion detection off (outdoor cameras only; "Setting the image sensor and infrared sensor individually", Page 64).

The camera image

You can prevent these false detections by adjusting the position of the camera or by turning video motion detection off (outdoor cameras only; "Setting the image sensor and infrared sensor individually", Page 64).

Refer to the following after checking the general troubleshooting information described in "General information", Page 105.

[Out of Range] is displayed

- The hub could not communicate with the sensor.
 - →Make sure the sensor is located within range of the hub and that its battery has adequate charge remaining.
- The hub was recently turned on or restarted.
 - →Sensors may appear to be out of range of the hub for 30 minutes or longer after the hub is turned on or restarts. The sensors will make detections as normal during this time. The **[Out of Range]** message will be cleared when you operate the sensors.

I cannot remember the names I assigned to my devices

• If you register a large number of devices to the hub, you may forget which name is assigned to each device

→Window/door sensors

Close all the windows and doors that have sensors attached to them. Open one window or door. You can find the name of the corresponding window/door sensor by checking the sensor status screen (app's home screen → [Sensor] → [Status]): the corresponding window/door sensor's icon will be listed under [Detected] and the icon will appear as an open window or door.

→Motion sensors

Arm the alarm system and enable the desired motion sensor for the current arm mode. Trigger the motion sensor. If the app is configured to display notifications when the alarm system is triggered ("Notification settings", Page 96), the name of the motion sensor will be displayed in the notification that is displayed.

→Water leak sensors

Simulate a water leak by pouring a small amount of water onto the floor or installation surface so that both probes are wet. If the app is configured to display notifications when the water leak sensor has detected a water leak ("Notification settings", Page 96), the name of the water leak sensor will be displayed in the notification that is displayed.

→Sirens

Use the [Installation Test] option in each siren's device profile to sound each siren ("Setting device profiles (device names, locations, and other settings)", Page 92).

→Smart plugs

Turn off all smart plugs. Turn on one smart plug. You can find the name of the corresponding smart plug by checking which smart plug's LED indicator is lit in green.

Notifications are not received, sensor detections are not displayed in the [Sensor] screen

• The alarm system is not armed.

- \rightarrow Arm the alarm system ("Arming and disarming the alarm system", Page 45).
- The sensor is not enabled for the current arm mode.
 - →Change the settings for the current arm mode ("Alarm system settings", Page 46 ?
- The desired feature is not enabled.
 - →Temperature alert (indoor cameras only) and sound alert (indoor camera only) do not function as or andenborre, be part of the alarm system. Make sure the desired feature is enabled ("Temperature alert (indoor cameras only)", Page 62, "Sound alert (indoor cameras only)", Page 62)
- The hub's date and time setting is incorrect.
 - →Adjust the date and time setting ("[Time Adjustment] setting", Page 98).

The glass break sensor makes false detections: battery life seems too short

- False detections may occur and battery life may be drastically reduced if devices that produce continuous sound (TVs, music players or speakers, musical instruments, etc.) are located near the sensor
 - →Move any such devices further away from the sensor, or re-locate the sensor.

Refer to the following after checking the general troubleshooting information described in "General information", Page 105.

[Device is in use.] is displayed

- Another user (i.e., mobile device) is already accessing the hub, the same screen, or the same feature. →Wait for the other user to finish and then try again.
- [Failed] is displayed
- The smart plug is out of range of the hub.
 - →Move the smart plug closer to the hub and try again.
- An error occurred while accessing the smart plug.
 - →Check all connections and try again.

[System is busy. Please try again later.]

- Another event, such as a sensor detection or a landline call being received, interrupted the current operation.
 - →Wait and try again later.

I cannot remember the names I assigned to my smart plugs

See "I cannot remember the names I assigned to my devices". Page 114.

Energy consumption is displayed as "0.00 kWh" even though I am using the connected electric device

• If an electric device that consumes very little power is connected, such as a low-power LED lamp, energy consumption may be displayed as "0.00 kWh".

Refer to the following after checking the general troubleshooting information described in "General information", Page 105.

[Device is in use.] is displayed

- Another user (i.e., mobile device) is already accessing the hub, the same screen, or the same feature.
 - →Wait for the other user to finish and then try again.

[This function isn't available.] is displayed

- You tried to operate a feature that is not available while talking on a landline call.
 - →Try again after you disconnect the landline call.

[Restricted number] is displayed

A cordless handset was used to restrict your mobile device from making this call.

Troubleshooting

→Use a cordless handset to change the call restriction feature settings as appropriate. Refer to the Operating Instructions included with your cordless handset. (Note that this feature is supported by certain models only.)

- certain models only.)

 I cannot use phone features

 You are away from home or your mobile device is not connected to the same wireless router as the st. Vandenborre, be hub.
 - →Connect your mobile device to the same wireless router as the hub.
- The hub is not connected to your landline.
 - →Connect the hub to your landline. Refer to the System Setup Guide included with your hub.
- There are more than 4 mobile devices registered to the hub.
 - →8 mobile devices can be registered to the hub, however, only the first 4 can use phone features. If you want to use phone features with an additional mobile device, use the following procedure.
 - 1. Deregister the mobile device that you want to use phone feature with ("Deregistering devices", Page 92).
 - Deregister one or more of the previously registered mobile devices.
 - There should be 3 or fewer mobile devices registered to the hub when you proceed to the next step. You can confirm the number of mobile devices registered on the deregistration screen.
 - 3. Register your mobile device ("Registering other mobile devices to the hub", Page 28).
 - 4. Register the mobile devices you deregistered.

I cannot receive landline calls

- The hub is not connected to your landline.
 - →Connect the hub to your landline. Refer to the System Setup Guide included with your hub.
- The app is not running.
 - →The app will not receive landline calls if the app is not running. Start the app.
 - →iPhone, iPad

If you want the app to receive calls even when it is in the background, turn the [App Battery Save] feature off (see "Reducing battery consumption (iPhone, iPad only)", Page 102).

- Android 4.1 or later

Note:

- Internet Explorer 8 and earlier versions are not supported.
- Some content may not be displayed properly when using Android 4.0.

Terms used in this document

• The hub supports microSD and microSDHC memory cards. In this document, the term "SD card" is used as a generic term for any of the supported cards.

Trademarks

- iPhone and iPad are registered trademarks of Apple Inc.
- Android and Google Play are trademarks of Google Inc.
- microSDHC is a trademark of SD-3C, LLC.
- Wi-Fi® is a registered trademark of the Wi-Fi Alliance®.
- All other trademarks identified herein are the property of their respective owners.

Other information

- The suffix is omitted from most model numbers listed in this document. It is included only when relevant
- Screen shots and icons that appear in this document are for reference only. Actual appearance varies depending on your mobile device, its operating system and display language, the devices that are connected to the system, the system's current status, etc.
- Illustrations in this document may vary from the appearance of the actual product.
- Design and specifications are subject to change without notice.

Compatible environments

For best results when viewing this document, we recommend the following environments when viewing this document, we recommend the following environments when viewing a computer was 9 or later

**Table 1.5 **Table 2.5 **Table 3.5 **Ta

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