

Panasonic®

Operating Instructions

Home Network System
Digital Cordless Handset

Model No. **KX-HNH100E**



***Before initial use, see “Getting Started”
on page 11.***

Thank you for purchasing a Panasonic product.

Please read these operating instructions before using the unit and save them for future reference.

For dedicated help, support, or advice, available to help you Monday - Friday, 09:00 - 23:00. For U.K., please contact us on 0330 3331112 and for Ireland 01 4475228.

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Accessory information

Supplied accessories

No.	Accessory item/Part number	Quantity
①	Rechargeable batteries*1	2
②	Handset cover*2	1
③	Charger/PNLC1042ZW	1
④	AC adaptor/PNLV233EKZ	1

*1 See page 3 for replacement battery information.

*2 The handset cover comes attached to the handset.



Additional/replacement accessories

Please contact your nearest Panasonic dealer for sales information.

Accessory item	Model no./Specifications
Rechargeable batteries*1	Battery type: <ul style="list-style-type: none"> – Nickel metal hydride (Ni-MH) – 2 x AAA (R03) size for each handset – 1.2 V – Minimum amperage of 550 mAh

*1 Replacement batteries may have a different capacity from that of the supplied batteries. We recommend using Panasonic rechargeable batteries.

Other information

- Design and specifications are subject to change without notice.
- The illustrations in these instructions may vary slightly from the actual product.

Trademarks



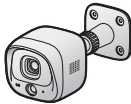


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Introduction

Expanding the Panasonic Home Network System

The Panasonic Home Network System is a wireless system that lets you create a powerful network of devices, such as cameras, sensors, and smart plugs, and control them all with an easy-to-use app. Compatible devices are explained below. For information about the Home Network app, refer to the User's Guide (page 43).

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

Digital Cordless Handset (KX-HNH100E: 6 max.*1) <ul style="list-style-type: none">● Makes and receives calls using your home landline● Can be used to change the system's arm mode● Displays system status● Receives notification when the sensors are triggered	
Indoor Camera (KX-HNC200E: 4 max.*2) <ul style="list-style-type: none">● Full-colour camera with built-in microphone for live monitoring and recording● Built-in visual sensor, audio 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-HNC600E: 4 max.*2) <ul style="list-style-type: none">● Full-colour camera with built-in microphone for live monitoring and recording● Built-in visual 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● Splashproof design for permanent, outdoor installation	
Window/Door Sensor (KX-HNS101E: 50 max.*2) <ul style="list-style-type: none">● Detects when the corresponding window or door is opened● Can be used to trigger other events (camera recording, turning on a light, etc.)	
Motion Sensor (KX-HNS102E: 50 max.*2) <ul style="list-style-type: none">● Detects motion in the surrounding area● Can be used to trigger other events (camera recording, turning on a light, etc.)	

Introduction

Smart Plug (KX-HNA101E: 50 max.*2)

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



- *1 Optional handsets may be a different colour from that of the handset supplied as part of a pre-configured bundle.
- *2 A total of 6 cordless handsets, 4 cameras, and 50 other devices (motion sensors, window/door sensors, smart plugs, etc.) can be registered to the hub.

The Home Network System product lineup is growing!

You can look forward to new devices that will make your Home Network System even more useful and convenient.

For information about the latest devices and bundles, visit the website below.

www.panasonic.co.uk/SmartHome

Mobile devices

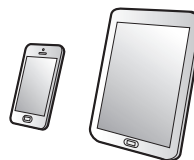
Your mobile devices: 8 max.*1

You can expand the system by installing the Home Network app on your mobile devices (smartphones, tablets, etc.) and registering your mobile devices to the hub.

See page 42 for more information about the Home Network app.

Note:

- You must configure the hub's Wi-Fi settings before you can use the app.



- *1 8 mobile devices can be registered to the hub, however, only the first 4 can use phone features.

Introduction

Sales and support information

Customer Communications Centre

- For customers within the U.K.: 0330 3331112
- For customers within Ireland: 01 4475228
- For further support on your product, please visit our website: www.panasonic.co.uk

Direct Sales at Panasonic U.K.

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Communications Centre Monday - Friday 9:00am - 5:00pm (Excluding public holidays).
- Go on line through our Internet Accessory ordering application at www.pas-europe.com
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic U.K.

General information

- The objective hub for the following model is shown below:
 - KX-HNH100E (Hub: KX-HNB600E)
- Please read "General information" of the hub's system setup guide for information regarding R&TTE Directive.
- Please read "Ecodesign information" of the hub's system setup guide for information regarding ErP directive.

For your future reference

We recommend keeping a record of the following information to assist with any repair under warranty.

Serial No.	Date of purchase
(found in the handset battery compartment)	
Name and address of dealer	

Attach your purchase receipt here.

Important Information

About this system

- 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.
- The system's wireless features are subject to interference, therefore functionality in all situations cannot be guaranteed. Panasonic will not be held responsible for injury or damage to property that occurs in the event of wireless communication error or failure.

For your safety

To prevent severe injury and loss of life/property, read this section carefully before using the product to ensure proper and safe operation of your product.

WARNING

Power connection

- Use only the power source marked on the product.
- Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
- Completely insert the AC adaptor/power plug into the power outlet. Failure to do so may cause electric shock and/or excessive heat resulting in a fire.
- Regularly remove any dust, etc. from the AC adaptor/power plug by pulling it from the power outlet, then wiping with a dry cloth. Accumulated dust may cause an insulation defect from moisture, etc. resulting in a fire.
- Unplug the product from power outlets if it emits smoke, an abnormal smell, or makes an unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped emitting and contact an authorised service centre.
- Unplug from power outlets and never touch the inside of the product if its casing has

been broken open. Danger of electric shock exists.

- Never touch the plug with wet hands. Danger of electric shock exists.
- Do not connect non-specified devices.

Installation

- To prevent the risk of fire or electrical shock, do not expose the product to rain or any type of moisture.
- Do not place or use this product near automatically controlled devices such as automatic doors and fire alarms. Radio waves emitted from this product may cause such devices to malfunction resulting in an accident.
- Do not allow the AC adaptor or telephone line cord to be excessively pulled, bent or placed under heavy objects.

Operating safeguards

- Unplug the product from power outlets before cleaning. Do not use liquid or aerosol cleaners.
- Do not disassemble the product.
- Do not spill liquids (detergents, cleansers, etc.) onto the telephone line cord plug, or allow it to become wet at all. This may cause a fire. If the telephone line cord plug becomes wet, immediately pull it from the telephone wall jack, and do not use.
- Never put metal objects inside the product. If metal objects enter the product, turn off the circuit breaker and contact an authorised service centre.

Medical

- Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. The product operates between 1.88 GHz and 1.90 GHz with a peak transmission power of 250 mW.
- Do not use the product in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Helpline Tel. No.: U.K. 0330 3331112 Ireland 01 4475228

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Important Information

CAUTION

Installation and location

- Never install wiring during a lightning storm.
- Never install telephone line jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.
- This product is unable to make calls when:
 - the handset batteries need recharging or have failed.
 - there is a power failure.
 - the key lock feature is turned on.
- Do not place metallic objects such as paperclips near the product. Metallic objects could cause a short circuit if they touch the charge contacts.

Battery

- We recommend using the batteries noted on page 3. **USE ONLY rechargeable Ni-MH batteries AAA (R03) size.**
- Do not mix old and new batteries.
- Do not open or mutilate the batteries. Released electrolyte from the batteries is corrosive and may cause burns or injury to the eyes or skin. The electrolyte is toxic and may be harmful if swallowed.
- Exercise care when handling the batteries. Do not allow conductive materials such as rings, bracelets, or keys to touch the batteries, otherwise a short circuit may cause the batteries and/or the conductive material to overheat and cause burns.
- Charge the batteries provided with or identified for use with this product only, in accordance with the instructions and limitations specified in this manual.
- Only use a compatible charger to charge the batteries. Do not tamper with the charger. Failure to follow these instructions may cause the batteries to swell or explode.

Important safety instructions

When using your product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Do not use this product near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

For best performance

Hub location/avoiding noise

The hub and other compatible Panasonic units use radio waves to communicate with each other.

- For maximum coverage and noise-free communications, place your hub:
 - at a convenient, high, and central location with no obstructions between the product and hub in an indoor environment.
 - away from electronic appliances such as TVs, radios, personal computers, wireless devices, or other phones.
 - facing away from radio frequency transmitters, such as external antennas of mobile phone cell stations. (Avoid putting the hub on a bay window or near a window.)
- Coverage and voice quality depends on the local environmental conditions.

Important Information

- If the reception for a hub location is not satisfactory, move the hub to another location for better reception.

Environment

- Keep the product away from electrical noise generating devices, such as fluorescent lamps and motors.
- The product should be kept free from excessive smoke, dust, high temperature, and vibration.
- The product should not be exposed to direct sunlight.
- Do not place heavy objects on top of the product.
- When you leave the product unused for a long period of time, unplug the product from the power outlet.
- The product should be kept away from heat sources such as radiators, cookers, etc. It should not be placed in rooms where the temperature is less than 0 °C or greater than 40 °C. Damp basements should also be avoided.
- The maximum communication range may be shortened when the product is used in the following places: Near obstacles such as hills, tunnels, underground, near metal objects such as wire fences, etc.
- Operating the product near electrical appliances may cause interference. Move away from the electrical appliances.
- The wireless communication range of each device in the system is approximately 50 m indoors and approximately 300 m outdoors from the hub when unobstructed by other objects.

Other information

CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

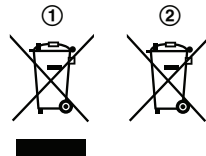
Routine care

- **Wipe the outer surface of the product with a soft moist cloth.**
- Do not use benzene, thinner, or any abrasive powder.

Notice for product disposal, transfer, or return

- This product can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase information such as phonebook or caller list entries from the memory before you dispose of, transfer, or return the product.

Disposal of Old Equipment and Batteries (Only for European Union and countries with recycling systems)



These symbols (①, ②) on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste. For proper treatment, recovery and recycling of old products and batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local municipality. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

Note for the battery symbol

This symbol (②) might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Important Information

Note for the battery removal procedure

Refer to "Battery installation" on page 11.

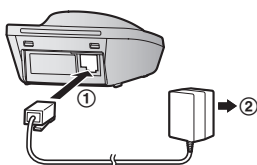
Setting up

Connections

- ① Connect the AC adaptor plug to the unit by pressing the plug firmly.
- ② Connect the AC adaptor to the power outlet.

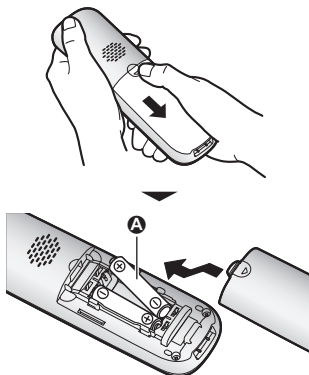
Note:

- Use only the supplied Panasonic AC adaptor PNLV233E.



Battery installation

- USE ONLY rechargeable Ni-MH batteries AAA (R03) size (A).
- Do NOT use Alkaline/Manganese/Ni-Cd batteries.
- Confirm correct polarities (+, -).



Battery charging

Charge for about 7 hours.

- Confirm "Charging" is displayed (A).
- When the batteries are fully charged, "Fully Charged" is displayed.



Note when setting up

Note for connections

- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.

Note for battery installation

- Use the supplied rechargeable batteries. For replacement, we recommend using the Panasonic rechargeable batteries noted on page 3, 8.

Note for battery charging

- It is normal for the handset to feel warm during charging.
- Clean the charge contacts of the handset and charger with a soft and dry cloth once a month. Before cleaning the unit, disconnect from power outlets. Clean more often if the unit is exposed to grease, dust, or high humidity.

Getting Started

Battery level

Icon	Battery level
	High
	Medium
	Low
	Needs charging.

Panasonic Ni-MH battery performance (supplied batteries)

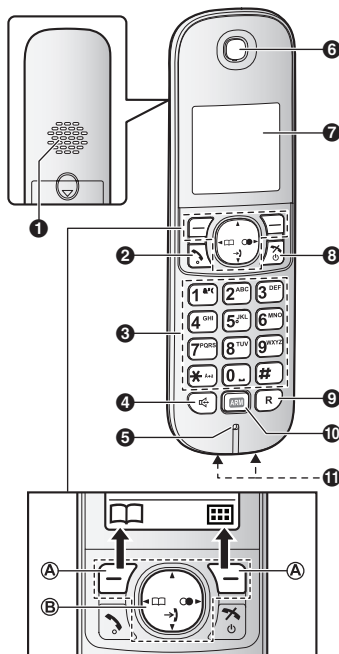
Operation	Operating time
In continuous use	15 hours max.
Not in use (standby)	170 hours max.

Note:

- Actual battery performance depends on usage and ambient environment.

Controls

Handset



- ❶ Speaker
- ❷ (Talk)
- ❸ Dial keypad
- ❹ (Speakerphone)
- ❺ Microphone
- ❻ Receiver
- ❼ Display
- ❽ (Off/Power)
- ❾ (R): Recall/Flash
- ❿ (ARM) (Arm/Disarm key)
- ⓫ Charge contacts
- Control type
- Ⓐ Soft keys

Getting Started

By pressing a soft key, you can select the feature shown directly above it on the display.

Ⓑ Navigator key

- [▲], [▼], [←], or [→]: Scroll through various lists and items.
- [▲] or [▼]: Adjust the receiver or speaker volume while talking.
- [←] (☎: Phonebook): View the phonebook entry.
- [→] (📞: Redial): View the redial list.
- [▼] (→): Caller list): View the caller list.

Display icons

Handset display items

Item	Meaning
	Range status: The more bars visible, the closer the handset is to the hub.
	Out of hub range
	The line is in use. <ul style="list-style-type: none"> • When blinking: The call is put on hold. • When blinking rapidly: An incoming call is now being received.
	The LCD and key backlight is off. (page 26)
	Paging, intercom mode
	Handset alarm is on. (page 28)
NR	Noise reduction is set. (page 17)
	Speakerphone is on. (page 15)
	Ringer volume is off. (page 26)
	Night mode is on. (page 29)
	New voice mail message received.*1 (page 44)
	At Home mode is set. (page 40)

Item	Meaning
	Away mode is set. (page 40)
	Privacy mode is on. (page 27)
	"Greeting Only" is selected. Caller messages are not recorded. (page 39)
	<ul style="list-style-type: none"> • When displayed next to the battery icon: Answering system is on. (page 34) • When displayed with a number: New messages have been recorded. (page 35)
	Battery level
	Missed call*2 (page 16)
	Nuisance call blocked*2 (page 29)
	Outdoor/Indoor camera
	Door sensor
	Window sensor
	Motion sensor
	Other sensor
	Signal strength of the wireless network
	Secured wireless network
IN USE	Answering system is being used.
Line in use	Someone is using the line.

*1 Voice mail subscribers only

*2 Caller ID subscribers only

Handset soft key icons

Icon	Action
	Returns to the previous screen or outside call.
	Displays the menu.
OK	Accepts the current selection.
	Makes a call.

Getting Started

Icon	Action
	Temporarily turns off the ringer for incoming calls. (page 15)
	Places a call on hold.
	Opens the phonebook.
	Allows you to edit phone numbers. (page 30)
	Adds new entry. (page 21)
	Displays phonebook search menu. (page 21)
	Turns the key lock feature off. (page 19)
	Stops alarm. (page 29)
	Snooze button on the alarm. (page 29)
	Selects entries or handsets. (page 29)
	Stops recording, playback, or alert.
	Stores phone numbers. (page 20) Saves the settings. (page 32)
	Erases the selected item.
	Allows you to make an intercom call. (page 18)
	Erases a number/character.
	Puts the call on mute.
	Refreshes the sensor status. (page 41)
	Turns the smart plug on. (page 42)
	Turns the smart plug off. (page 42)

Turning the power on/off

Press [] for about 2 seconds.

Registering the handset

Registering a handset to the hub

This procedure is not required for devices that were included as part of a bundle.

Before you can use the handset, it must be registered to the hub.
If you purchased handsets separately (i.e., not as part of a bundle), use the following procedure to register each handset to the hub.

- Hub:**
Press and hold [] **A HANDSET/LOCATOR** until the LED indicator blinks in green.
 - If all registered handsets start ringing, press [] **A HANDSET/LOCATOR** again to stop, then repeat this step.
- Handset:**
Place the handset on the charger, then wait until a long beep sounds.

Language settings

Display language

- [] [#] 1 1 0
- []: Select the desired setting. → [OK]
- []

Recording your greeting message

You can record your own greeting message instead of using a pre-recorded greeting message. See page 34 for details.

- [] [#] 3 0 2
- []: "Yes" → [OK]
- Record a greeting message. → [] → []

Making calls

- 1 Lift the handset and dial the phone number.
 - To correct a digit, press [C].
- 2 [📞]
- 3 When you finish talking, press [📞] or place the handset on the charger.

Using the speakerphone

- 1 Dial the phone number and press [📞].
- 2 When you finish talking, press [📞].

Note:

- To switch back to the receiver, press [📞]/[📞].

Adjusting the receiver or speaker volume

Press [▲] or [▼] repeatedly while talking.

Making a call using the redial list

The last 10 phone numbers dialled (each 24 digits max.) are stored in the redial list.

- 1 [▶] (●)
- 2 [↕]: Select the desired phone number.
- 3 [📞]

Erasing a number in the redial list

- 1 [▶] (●)
- 2 [↕]: Select the desired phone number.
→ [X]
- 3 [↕]: "Yes" → [OK] → [📞]

Pause (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service. When storing a calling card access number and/or PIN in the phonebook, a pause is also needed (page 21).

Example: If you need to dial the line access number "0" when making outside calls with a PBX:

- 1 [0] → [▲] (Pause)
- 2 Dial the phone number. → [📞]

Note:

- A 3 second pause is inserted each time [▲] (Pause) is pressed.

Answering calls

- 1 Lift the handset and press [📞] or [📞] when the unit rings.
- 2 When you finish talking, press [📞] or place the handset on the charger.

Any key answer: You can answer the call by pressing any dial key.

Auto talk: You can answer calls simply by lifting the handset (page 26).

Temporary handset ringer off: You can turn the ringer off temporarily by pressing [X].

Adjusting the ringer volume

Press [▲] or [▼] repeatedly to select the desired volume while ringing.

Caller ID features

When an outside call is being received, the caller information is displayed.

Important:

- This unit is Caller ID compatible. To use Caller ID features, you must subscribe to a Caller ID service. Contact your phone service provider for details.
- If the unit cannot receive caller information, the following is displayed:
 - "Out of Area": The caller dials from an area which does not provide a Caller ID service.
 - "Private Caller": The caller requests not to send caller information.
- If the unit is connected to a PBX system, caller information may not be properly received. Contact your PBX supplier.

Making/Answering Calls

Missed calls

If a call is not answered, the unit treats it as a missed call and **↗** is displayed. This lets you know if you should view the caller list to see who called while you were away. Even if only one missed call in the caller list is viewed (page 37), **↗** disappears from the display. When you receive another new call, **↗** is displayed again.

Note:

- Even when there are unviewed missed calls, **↗** disappears from the standby display if the following operation is performed by one of the registered handsets:
 - Being replaced on the charger.
 - Pressing [**✕**].

Phonebook name display

When caller information is received and it matches a phone number stored in the phonebook, the stored name in the phonebook is displayed and logged in the caller list.

Talking Caller ID

This feature lets you know who is calling without looking at the display.

To use this feature, you must:

- subscribe to a Caller ID service of your phone service provider.
- turn this feature on (page 26).

When caller information is received, the handsets announce the caller's name or phone number received from your phone service provider following every ring.

- Name pronunciation may vary. This feature may not pronounce all names correctly.
- Caller ID service has a limit of how many characters can be displayed. If the caller's name is too long, the unit may not be able to display or announce the entire name.

Phonebook name announcement

When caller information is received and it matches a phone number stored in the phonebook, the stored name in the phonebook is announced.

Caller list

The last 50 callers information is logged in the caller list from the most recent call to the oldest.

Making a call from the caller list

- 1 [**▼**] (**↗**)
- 2 Press [**▼**] to search from the most recent call, or [**▲**] to search from the oldest call.
- 3 To call back, press [**↶**].
To exit, press [**✕**].

Note:

- If the entry has already been viewed or answered, "✓" is displayed.

Editing a caller's phone number in the caller list

- 1 [**▼**] (**↗**)
- 2 [**↕**]: Select the desired entry.
- 3 [**☐**] → [**↕**]: "Edit" → [**OK**]
- 4 Edit the number.
- 5 [**↶**]

Erasing information from caller list

- 1 [**▼**] (**↗**)
- 2 [**↕**]: Select the desired entry.
- 3 [**✕**] → [**↕**]: "Yes" → [**OK**]
- 4 [**✕**]

Erasing all information from caller list

- 1 [**▼**] (**↗**)
- 2 [**✕**] → [**↕**]: "Yes" → [**OK**]
- 3 [**✕**]

Making/Answering Calls

Useful features during a call

Hold

- 1 Press **[H]** during an outside call.
- 2 **[H]**: "Hold" → **[OK]**
- 3 To release hold, press **[R]**.

Note:

- After holding for 10 minutes, the call is disconnected.

Mute

- 1 Press **[M]** during a call.
- 2 To return to the call, press **[M]**.

Note:

- **[M]** is a soft key visible on the display during a call.

Recall/flash

[R] allows you to use the special features of your host PBX such as transferring an extension call, or accessing optional telephone services.

Note:

- To change the recall/flash time, see page 27.

Answering a second call (call waiting)

If you receive a second call while you are talking on the phone, the handset will let you know by sounding a call waiting tone. If caller information is also received, you can confirm the information on the screen and answer the second call.

Important:

- You may need to subscribe to your phone service provider's call waiting service in order to answer a second call. Consult your

phone service provider for information about this feature.

- 1 Press **[R]** to answer the 2nd call.
- 2 To switch between calls, press **[R]**.

Note:

- Please contact your phone service provider for details and availability of this service in your area.

Handset noise reduction

This feature allows you to hear the voice of the person you are talking to clearly, by reducing the surrounding noise coming from the other party's telephone.

- 1 Press **[N]** while talking.
- 2 **[N]**: Select "Noise Reduction On" or "Noise Reduction Off". → **[OK]**

Note:

- Depending on the environment where this handset is being used, this feature may not be effective.
- This feature is not available using the speakerphone.

Handset equalizer

This feature clarifies the voice of the person you are talking to, producing a more natural-sounding voice that is easier to hear and understand.

- 1 Press **[E]** while talking.
- 2 **[E]**: "Equalizer" → **[OK]**
- 3 **[E]**: Select the desired setting. → **[OK]**

Note:

- Depending on the condition and quality of your telephone line, this feature may emphasise existing line noise. If it becomes difficult to hear, turn this feature off.
- This feature is not available while using the speakerphone.

Call share

You can join an existing outside call.

Making/Answering Calls

To join the conversation, press [] when the other unit is on an outside call.

Note:

- A maximum of 3 parties (including 1 outside party) can join a conversation using 2 extensions. (**3-way conference**)
- To prevent other users from joining your conversations with outside callers, turn privacy mode on (page 27).

Transferring calls, conference calls

Outside calls can be transferred or a conference call with an outside party can be made between 2 handsets.

- 1 During an outside call, press [].
- 2 []: "Intercom" → [OK]
- 3 []: Select the desired unit. → [OK]
- 4 Wait for the paged party to answer.
 - If the paged party does not answer, press [] to return to the outside call.
- 5 **To complete the transfer:**
Press [].
To establish a conference call:
[] → []: "Conference" → [OK]
 - To leave the conference, press []. The other 2 parties can continue the conversation.
 - To put the outside call on hold: [] → []: "Hold" → [OK]
To resume the conference: [] → []: "Conference" → [OK]
 - To cancel the conference: [] → []: "Stop Conference" → [OK]
You can continue the conversation with the outside caller.

Note:

- You can also select your mobile device in this feature using a handset, if your mobile device is registered to the hub. For more information, refer to the User's Guide (page 43).

Handset locator

You can locate a misplaced handset by paging it.

- 1 **Hub:** Press [] **A HANDSET/LOCATOR**.
 - All registered handsets beep for 1 minute.
- 2 To stop paging:
Hub:
Press [] **A HANDSET/LOCATOR**.
Handset:
Press [].

Intercom

Intercom calls can be made between handsets.

Note:

- When paging unit(s), the paged unit(s) beeps for 1 minute.
- If you receive an outside call while talking on the intercom, the interrupt tone sounds. To answer the call, press [], then press [].
- You can also select your mobile device in this feature using a handset, if your mobile device is registered to the hub. For more information, refer to the User's Guide (page 43).

Making an intercom call

- 1 [] → [] → [OK]
- 2 []: Select the desired unit. → [OK]
- 3 When you finish talking, press [].

Note:


- You can also use the [] soft key, if displayed, to make intercom calls.


Answering an intercom call

- 1 Press [] to answer the page.
- 2 When you finish talking, press [].

Key lock

The handset can be locked so that no calls or settings can be made. Incoming calls can be answered, but all other functions are disabled while key lock is on.

To turn key lock on, press **[]** for about 3 seconds.

- To turn key lock off, press **[]** for about 3 seconds.

Note:

- Calls to emergency numbers cannot be made until key lock is turned off.

Phonebook

Phonebook

You can add 500 names (16 characters max.) and phone numbers (24 digits max.) to the phonebook, and assign each phonebook entry to the desired category.

Important:

- All entries can be shared by any registered handset.
- You can copy contacts from your mobile device to the unit's phonebook if your mobile device is registered to the hub. If you store phone numbers in your mobile device's contacts using the international dialling symbol "+" and the country code, we recommend that you store phone number conversion codes in the hub. For more information, refer to the User's Guide (page 43).

Adding phonebook entries

- 1 [] or [←] () → []
- 2 [↕]: "New Entry" → [OK]
- 3 Enter the party's name. → [OK]
 - You can change the character entry mode by pressing [R] (page 44).
- 4 Enter the party's phone number. → [OK]
- 5 [↕]: Select the desired category. → [OK] 2 times → [✕]

Storing a redial list number to the phonebook

- 1 [▶] ()
- 2 [↕]: Select the desired phone number. → []
- 3 To store the name, continue from step 3, "Editing entries", page 21.

Storing caller information to the phonebook

- 1 [▼] (→)
- 2 [↕]: Select the desired entry. → []

- 3 [↕]: "Save CID" → [OK]
- 4 [↕]: "Phonebook" → [OK]
- 5 Continue from step 3, "Editing entries", page 21.

Categories

Categories can help you find entries in the phonebook quickly and easily. You can change the names of categories ("Friends", "Family", etc.). By assigning different ring tones for different categories of callers, you can identify who is calling (category ring tone), if you have subscribed to Caller ID service.

Changing category names/setting category ring tone

The default category name is "Category 1" to "Category 9".

- 1 [] or [←] () → []
- 2 [↕]: "Category" → [OK]
- 3 [↕]: Select the desired category. → [OK]
- 4 To change category names
[↕]: "Category Name" → [OK] → Edit the name (10 characters max.). → [OK]
To set category ring tone
[↕]: Select the current setting of the category ring tone. → [OK] → [↕]: Select the desired ring tone. → [OK]
- 5 [✕]

Finding and calling from a phonebook entry

- 1 [] or [←] ()
- 2 To scroll through all entries
[↕]: Select the desired entry.
To search by first character
 - ① Press the dial key (0 to 9, or #) which contains the character you are searching for (page 44).
 - ② [↕]: Scroll through the phonebook if necessary.To search by query

You can narrow down the search to enter the first characters of a name.

- ① **[X]** → To search for the name, enter the first characters (up to 4) in uppercase (page 44). → **[OK]**
- ② **[↕]**: Scroll through the phonebook if necessary.

To search by category

- ① **[P]** → **[↕]**: "Category" → **[OK]**
- ② **[↕]**: Select the desired category. → **[OK]**
- ③ **[↕]**: Scroll through the phonebook if necessary.

3 **[↶]**

Editing entries

- 1 Find the desired entry (page 20).
- 2 **[≡]** → **[↕]**: "Edit" → **[OK]**
- 3 Edit the name if necessary. → **[OK]**
- 4 Edit the phone number if necessary. → **[OK]**
- 5 **[↕]**: Select the desired category (page 20). → **[OK]** 2 times
- 6 **[✕]**

Erasing entries

Erasing an entry

- 1 Find the desired entry (page 20).
- 2 **[≡]** → **[↕]**: "Erase" → **[OK]**
- 3 **[↕]**: "Yes" → **[OK]**
- 4 **[✕]**

Erasing all entries

- 1 **[≡]** or **[↶]** (**[≡]**) → **[≡]**
- 2 **[↕]**: "Erase All" → **[OK]**
- 3 **[↕]**: "Yes" → **[OK]**
- 4 **[↕]**: "Yes" → **[OK]**
- 5 **[✕]**

Chain dial

This feature allows you to dial phone numbers in the phonebook while you are on a call. This feature can be used, for example, to dial a calling card access number or bank account PIN that you have stored in the phonebook, without having to dial manually.

- 1 During an outside call, press **[≡]**.
- 2 **[↕]**: "Phonebook" → **[OK]**
- 3 **[↕]**: Select the desired entry.
- 4 Press **[↶]** (right soft key) to dial the number.

Note:

- When storing a calling card access number and your PIN in the phonebook as one phonebook entry, press **[⏸]** (Pause) to add pauses after the number and PIN as necessary (page 15).

Speed dial

You can assign 1 phone number to each of the dial keys (**[1]** to **[6]**) on the handset.

Adding phone numbers to speed dial keys

■ By entering phone numbers:

- 1 Press and hold the desired speed dial key (**[1]** to **[6]**). → **[≡]**
- 2 **[↕]**: "Manual" → **[OK]**
- 3 Enter the party's name (16 characters max.). → **[OK]**
- 4 Enter the party's phone number (24 digits max.). → **[OK]**
- 5 **[OK]** → **[✕]**

■ From the phonebook:

- 1 Press and hold the desired speed dial key (**[1]** to **[6]**). → **[≡]**
- 2 **[↕]**: "Phonebook" → **[OK]**
- 3 **[↕]**: Select the desired entry.
- 4 **[OK]** → **[✕]**

Phonebook

Note:

- If you edit a phonebook entry which is assigned to a speed dial key, the edited entry does not transfer to the speed dial key.

Editing an entry

- 1 Press and hold the desired speed dial key ([1] to [6]). → [☐☐☐]
- 2 [↕]: “Edit” → [OK]
- 3 Edit the name if necessary. → [OK]
- 4 Edit the phone number if necessary. → [OK]
- 5 [OK] → [📞]

Erasing an entry

- 1 Press and hold the desired speed dial key ([1] to [6]). → [☐☐☐]
- 2 [↕]: “Erase” → [OK]
- 3 [↕]: “Yes” → [OK]
- 4 [📞]










Viewing an entry/Making a call

- 1 Press and hold the desired speed dial key ([1] to [6]).
- 2 To make a call, press [📞].








Menu list

To access the features, there are 2 methods.



■ Scrolling through the display menus

- 1 
- 2 Press , , , or  to select the desired main menu. → **[OK]**
- 3 Press  or  to select the desired item from the next sub-menus. → **[OK]**
- 4 Press  or  to select the desired setting. → **[OK]**

■ Using the direct command code


- 1  → Enter the desired code.
Example: Press      .
- 2 Select the desired setting. → **[OK]**

Note:


- To exit the operation, press .
- In the following table, < > indicates the default settings.
- In the following table,  indicates the reference page number.
- Display menu order and sub-menu may vary depending on your model.

Display menu tree and direct command code table


Main menu:  "Home Network"

Sub-menu 1	Sub-menu 2	Settings	Code	
Arm/Disarm ^{*1}	—	At Home Away <Disarm>	#800	40
Sensor Status	—	—	#801	41
Smart Plug	—	—	#802	42


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Sub-menu 1	Sub-menu 2	Settings	Code	
Settings	Disarm PIN* ¹	—	#810	41
	At Home — Alert Volume	Handset Off-6 <3>	#803	41
		Hub* ¹ Off-6 <3>	#*803	
	At Home — Entry Alert Volume	Handset Off-6 <3>	#808	
		Hub* ¹ Off-6 <3>	#*808	
	Away — Alert Volume	Handset Off-6 <6>	#804	
		Hub* ¹ Off-6 <6>	#*804	
	Away — Entry Alert Volume	Handset Off-6 <3>	#807	
		Hub* ¹ Off-6 <3>	#*807	
	Away — Exit Alert Volume* ¹	Off-6 <3>	#805	41
	Talking Notification	<On> Off	#809	

Main menu:  "Answering System"

Sub-menu 1	Sub-menu 2	Settings	Code	
Play New Msg. (Msg.: message)	—	—	#323	35
Play All Msg.	—	—	#324	35
Erase All Msg.* ¹	—	—	#325	36
Greeting	Start REC* ¹	—	#302	34
	Play Greeting	—	#303	35
	Default* ¹ (Reset to pre-recorded greeting)	—	#304	35


Programming

Sub-menu 1	Sub-menu 2	Settings	Code	
New Message Alert* ¹	Outgoing Call – On/Off	On <Off>	#338	36
	Outgoing Call – Notification to	–		
	Outgoing Call – Remote Code	Activate <Inactivate>		
	Hub Beep	On <Off>	#339	36
Settings	Number of Rings* ¹	2-9 Rings <8 Rings> Auto	#211	39
	Recording Time* ¹	1 Minute <3 Minutes> Greeting Only* ²	#305	39
	Remote Code* ¹	–	#306	37
	Call Screening	<On> Off	#310	38
	Answering System On/ Off* ¹	On <Off>	#343	34
Answer On* ¹	–	–	#327	34
Answer Off* ¹	–	–	#328	34


Main menu: →] “Caller List”


Operation	Code	
Viewing the caller list.	#213	16

Main menu:  “Intercom”


Operation	Code	
Paging the desired unit.	#274	18

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Main menu:  "Initial Setup"

Sub-menu 1	Sub-menu 2	Settings	Code	
Ringer Setup	Ringer Volume	Off-6 <6>	#160	–
	Ringtone ^{*3}	<Ringtone 1>	#161	–
	Night Mode – On/Off	On <Off>	#238	29
	Night Mode – Start/End	<23:00/06:00>	#237	29
	Night Mode – Ring Delay	30 sec. <60 sec.> 90 sec. 120 sec. No Ringing	#239	29
	Night Mode – Select Category	Category 1-9	#241	29
	First Ring ^{*1, *4}	<On> Off	#173	–
Time Format ^{*1}	–	12-hour <24-hour>	#146	–
Memo Alarm	Alarm1-3	Once Daily Weekly <Off>	#720	28
Talking Caller ID	–	<On> Off	#162	16
Handset Name	–	–	#104	31
Nuisance Call Block ^{*1}	Single Number	–	#217	29
	Range of Numbers	–		
	Withheld	On <Off>	#240	30
Speed Dial	–	–	#261	21
Display Setup	LCD & Key Backlight	<On> Off	#276	–
	Contrast (Display contrast)	Level 1-4 <2>	#145	–
Keytones	–	<On> Off	#165	–
Call Restrict ^{*1}	–	–	#256	31
Auto Talk ^{*5}	–	On <Off>	#200	15

Programming

Sub-menu 1	Sub-menu 2	Settings	Code	
Line Setup	Recall/Flash ^{*1, *6}	900 msec. 700 msec. 600 msec. 400 msec. 300 msec. 250 msec. 200 msec. 160 msec. 110 msec. <100 msec.> 90 msec. 80 msec.	#121	17
Privacy Mode ^{*1, *7}	—	On <Off>	#194	17
Network Setup ^{*1}	Current Status	—	#526	32
	Wi-Fi Setup	—	#523	32
	IP Setup	<Auto (DHCP)> Manual (Static)	#500	32
	Reset Network	—	#730	33
Hub PIN ^{*1}	—	<0000>	#132	31
Register	Register H.set (H.set: handset)	—	#130	31
	Cancel Register ^{*2}	—	#131	31
Language	Display	<English>	#110	14

Main menu: “Ringer Setup”

Sub-menu 1	Sub-menu 2	Settings	Code	
Ringer Volume	—	Off-6 <6>	#160	—
Ringtone ^{*3}	—	<Ringtone 1>	#161	—
Night Mode	On/Off	On <Off>	#238	29
	Start/End	<23:00/06:00>	#237	29
	Ring Delay	30 sec. <60 sec.> 90 sec. 120 sec. No Ringing	#239	29
	Select Category	Category 1-9	#241	29
First Ring ^{*1, *4}	—	<On> Off	#173	—

Programming

- *1 If you program these settings using one of the units, you do not need to program the same item using another unit.
- *2 This menu is not displayed when scrolling through the display menus. It is only available in direct command code.
- *3 The preset melodies in this product are used with the following permission:
 - “Ringtone 3”: © 2014 Copyrights Vision Inc.
 - “Ringtone 4” - “Ringtone 40”: © 2012 Copyrights Vision Inc.
- *4 If you do not want the unit to ring before the caller information is received, set to “Off”. (Caller ID subscribers only)
You can only remove the first ring if the unit rings 2 times or more by default, which depends on your phone service provider.
- *5 If you subscribe to a Caller ID service and want to view the caller's information after lifting up the handset to answer a call, turn off this feature.
- *6 The recall/flash time depends on your telephone exchange or host PBX. Contact your PBX supplier if necessary.
- *7 To prevent other users from joining your conversations with outside callers, turn this feature on.

Handset alarm

An alarm sounds at the set time for 1 minute and is repeated 5 times at 5 minute intervals (snooze function). A text memo can also be displayed for the alarm. A total of 3 separate alarm times can be programmed for each handset. You can set one of 3 different alarm options (once, daily, or weekly) for each alarm time.

Important:

- Make sure the unit's date and time setting is correct. The time setting of the system is configured with the date and time of the mobile device registered to the hub. If a mobile device is not registered to the hub, register it to the hub by following the instructions in the System Setup Guide of the hub.

- 1 **[Menu] [7] [2] [0]**
- 2 Select an alarm by pressing **[1]** to **[3]**. → **[OK]**
- 3 **[Up Arrow]**: Select the desired alarm option. → **[OK]**

<p>“Off” Turns the alarm off. Go to step 9.</p> <p>“Once” The alarm sounds once at the set time.</p>

<p>“Daily” The alarm sounds daily at the set time. Go to step 5.</p>

<p>“Weekly” Alarm sounds weekly at the set time(s).</p>

- 4 Proceed with the operation according to your selection in step 3.
 - **Once:**
Enter the desired date and month. → **[OK]**
 - **Weekly:**
[Up Arrow]: Select the desired day of the week and press **[✓]**. → **[OK]**
- 5 Set the desired time. → **[OK]**
 - You can select 24-hour or 12-hour clock format (“AM” or “PM”) by pressing **[AM/PM]**.
- 6 Enter a text memo (10 characters max.). → **[OK]**
- 7 **[Up Arrow]**: Select the desired alarm tone. → **[OK]**
 - We recommend selecting a different ringer tone from the one used for outside calls.
- 8 **[Up Arrow]**: Select the desired snooze setting. → **[OK]**
- 9 **[OK]** → **[Power Off]**

Note:

- Press **[🔇]** to stop the alarm completely.
- When the handset is in use, the alarm will not sound until the handset is in standby mode.
- Press any dial key or **[🔇]** to stop the sound but keep the snooze function activated.
- If you want to make an outside call when the snooze function is activated, please stop the snooze function before making the call.

Night mode

Night mode allows you to select a period of time during which the handset will not ring for outside calls. This feature is useful for time periods when you do not want to be disturbed, for example, while sleeping. Night mode can be set for each unit.

Using the phonebook's category feature (page 20), you can also select categories of callers whose calls override night mode and ring the handset (Caller ID subscribers only).

Important:

- Make sure the unit's date and time setting is correct. The time setting of the system is configured with the date and time of the mobile device registered to the hub. If a mobile device is not registered to the hub, register it to the hub by following the instructions in the System Setup Guide of the hub.
- If you have set the handset alarm, the alarm sounds even if the night mode is turned on.

Turning night mode on/off

- 1 **[📞]#238**
- 2 **[👆]**: Select the desired setting. → **[OK]**
 - If you select "OFF", press **[🔇]** to exit.

- 3 Enter the desired hour and minute you wish to start this feature. → **[OK]**
 - You can select 24-hour or 12-hour clock format ("AM" or "PM") by pressing **[🕒]**.
- 4 Enter the desired hour and minute you wish to end this feature. → **[OK]**
- 5 **[🔇]**

Changing the start and end time

- 1 **[📞]#237**
- 2 Continue from step 3, "Turning night mode on/off", page 29.

Setting the ring delay

This setting allows the handset to ring during night mode if the caller waits long enough. After the selected amount of time passes, the handset rings. If you select "No Ringing", the handset never rings during night mode.

- 1 **[📞]#239**
- 2 **[👆]**: Select the desired setting. → **[OK]** → **[🔇]**

Note:

- When the answering system answers the call, this feature does not work.

Selecting categories to bypass night mode

- 1 **[📞]#241**
- 2 Select your desired categories by pressing **[1]** to **[9]**.
 - "✓" is displayed next to the selected category numbers.
 - To cancel a selected category, press the same dial key again. "✓" disappears.
- 3 **[OK]** → **[🔇]**

Nuisance call block

This feature rejects calls from unwanted callers (Caller ID subscribers only). The

Programming

following items are available when storing phone numbers in the call block list (250 max.).

- “**Single Number**”: The unit can reject calls from specific phone numbers.
- “**Range of Numbers**”: The unit can reject calls that begin with a number stored in the call block list, such as a toll-free phone number prefix or certain area codes.

You can also set the unit to reject calls that do not have a phone number.

When a call is received, the unit does not ring while the caller is being identified. If the caller's phone number matches an entry in the call block list, the unit emits no sound to the caller, and disconnects the call.

Important:

- Rejected calls are logged in the caller list.

Storing unwanted callers

Storing a single phone number

Important:

- You must include the area code when storing phone numbers in the call block list.

■ From the caller list:

- 1 [▼] (→)
- 2 [↕]: Select the entry to be blocked. → [■]
- 3 [↕]: “Save CID” → [OK]
- 4 [↕]: “Nuisance Call Block” → [OK]
- 5 [↕]: “Yes” → [OK] → [✕]

■ By entering phone numbers:

- 1 [■] # 2 1 7
- 2 [↕]: “Single Number” → [OK]
- 3 [■] → [↕]: “Add” → [OK]
- 4 Enter the phone number (24 digits max.).
 - To erase a digit, press [C].
- 5 [OK] → [✕]

Storing a range of numbers

- 1 [■] # 2 1 7
- 2 [↕]: “Range of Numbers” → [OK]
- 3 [■] → [↕]: “Add” → [OK]

- 4 Enter the desired number (2-8 digits).
 - To erase a digit, press [C].
- 5 [OK] → [✕]

Blocking incoming calls that have no phone number

You can reject calls when no phone number is provided, such as private callers.

- 1 [■] # 2 4 0
- 2 [↕]: Select the desired setting. → [OK] → [✕]

Viewing/editing/erasing call block numbers

- 1 [■] # 2 1 7
- 2 [↕]: “Single Number” Or “Range of Numbers” → [OK]
- 3 [↕]: Select the desired entry.
 - To exit, press [✕].
- 4 **To edit a number:**
[□] → Edit the number. → [OK] → [✕]
To erase a number:
[X] → [↕]: “Yes” → [OK] → [✕]

Note:

- When editing, press the desired dial key to add, [C] to erase.

Erasing all call block numbers

- 1 [■] # 2 1 7
- 2 [↕]: “Single Number” Or “Range of Numbers” → [OK]
- 3 [■] → [↕]: “Erase All” → [OK]
- 4 [↕]: “Yes” → [OK]
- 5 [↕]: “Yes” → [OK] → [✕]

Other programming

Changing the handset name

You can customise the name of your handset. This can help you easily identify handsets when making intercom calls, transferring calls to other handsets, etc. You can select whether or not the handset name is displayed in standby mode. The default setting is “No”. If you select “Yes” without entering any handset name, “Handset 1” to “Handset 6” is displayed.

- 1 **[]#104**
- 2 Enter the desired name (10 characters max.). → **[OK]**
- 3 **[]**: Select the desired setting. → **[OK]**
2 times → **[]**

Call restriction

You can restrict selected handsets from dialling certain numbers. You can assign up to 6 phone numbers to be restricted, and select which handsets are to be restricted. Storing area codes here prevents the restricted handsets from dialling any phone number in that area code.

- 1 **[]#256**
- 2 Enter the hub PIN (default: “0000”).
• If you forget your PIN, see page 49.
- 3 **[]**: Select the desired unit. → **[✓]**
• All handsets registered to the hub are displayed.
• “✓” is displayed next to the selected handset numbers.
• To cancel a selected handset, press **[✓]** again. “✓” disappears.
- 4 **[OK]**
- 5 Select a memory location by pressing **[1]** to **[6]**. → **[OK]**
- 6 Enter the phone number or area code to be restricted (8 digits max.). → **[OK]** → **[]**

Note:

- You can also select your mobile device in this feature using a handset, if your mobile device is registered to the hub. For more information, refer to the User’s Guide (page 43).

Changing the hub PIN

Important:

- If you change the hub PIN (Personal Identification Number), please make note of your new PIN. The unit will not reveal the PIN to you. If you forget your PIN, see page 49.

- 1 **[]#132**
- 2 Enter the current 4-digit hub PIN (default: “0000”).
- 3 Enter the new 4-digit hub PIN. → **[OK]**
- 4 **[]**: “Yes” → **[OK]** → **[]**

Registering a handset to the hub

If for some reason the handset is not registered to the hub (for example, is displayed even when the handset is near the hub), re-register the handset.

- 1 **Handset:**
[]#130
- 2 **Hub:**
Press and hold **[]A HANDSET/LOCATOR** until the LED indicator blinks in green.
• If all registered handsets start ringing, press **[]A HANDSET/LOCATOR** again to stop, then repeat this step.
- 3 **Handset:**
[OK] → Wait until “Hub PIN” is displayed. → Enter the hub PIN (default: “0000”). → **[OK]**
• If you forget hub PIN, see (page 49).

Deregistering a handset

A handset can cancel its own registration to the hub, or other handsets registered to the

Programming

same hub. This allows the handset to end its wireless connection with the system.

- 1
 - All handsets registered to the hub are displayed. If mobile devices (smartphones, tablets, etc.) are registered to the hub, you can also select and deregister them using this procedure.
- 2 : Select the handset you want to cancel. → **[OK]**
- 3 : “Yes” → **[OK]** →

Wi-Fi® settings

You can use the Home Network app to access the system from your mobile device (smartphone, tablet, etc.). The app offers a variety of features that you can enjoy even when away from home. For more information about the app, see page 42.

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

Note:

- Make sure your wireless router is turned on and functioning.
- Make sure that you know your wireless router's Wi-Fi settings, including its SSID (wireless network name), security password, etc. In some situations, you may also need to know the IP-related settings required in order for the hub to connect to your wireless router, including your wireless router's IP address, subnet mask, etc.
- Make sure you have the operating instructions included with your wireless router handy.
- The hub cannot find your wireless router if the wireless router does not broadcast its SSID. If there is a “stealth mode” setting, turn it off; if there is a “SSID broadcast” setting, turn it on. Change the appropriate setting before performing this procedure, and then change it back when finished.

Wi-Fi network access settings

- 1
 - The hub searches for available wireless networks and “Searching...” is displayed on the handset.
 - When searching is complete, a list of available wireless networks is displayed, including the SSID, security setting, and signal strength.
- 2 : Select your wireless router's SSID. → **[OK]**
- 3 Confirm the SSID and then press **[OK]**.
- 4 Enter the password required to access the wireless network. → **[OK]**
 - For information about entering characters, see “Character entry”, page 44.
 - After the hub connects to the wireless router, “Connected to” and your wireless router's SSID is displayed.
- 5

Advanced configuration (static IP settings)

After using the procedure explained in “Wi-Fi network access settings”, page 32, use the procedure below to set the hub's IP settings manually if necessary.

This procedure is not necessary for most users.

- 1
- 2 : “Manual (Static)” → **[OK]**
- 3 : Select the desired item. → **[OK]**
- 4 Enter the desired setting. → **[OK]**
 - Press to move the cursor if necessary.
- 5 Set the other items as necessary.
- 6 →

Confirming network status

- 1

- 2 **[↕]** and **[↔]**: Display the desired information. → **[↻]**

Resetting the hub's network settings

All network-related settings will be reset to the default settings. No other information will be deleted.

- 1 **[🔍]#730**
- 2 Enter the hub PIN (default: "0000").
- 3 **[OK]**
 - The hub restarts. Wait until the hub LED indicator lights in yellow and then set the Wi-Fi network access settings using Home Network app. For more information, refer to the User's Guide (page 43).

Answering System

Answering system

The answering system can answer and record calls for you when you are unavailable to answer the phone.

You can also set the unit to play a greeting message but not to record caller messages by selecting “**Greeting Only**” as the recording time setting (page 39).


Important:

- When callers leave messages, the unit records the day and time of each message. Make sure the unit's date and time setting is correct. The time setting of the system is configured with the date and time of the mobile device registered to the hub. If a mobile device is not registered to the hub, register it to the hub by following the instructions in the System Setup Guide of the hub.

Memory capacity (including your greeting message)








The total recording capacity is about 38 minutes. A maximum of 64 messages can be recorded.

Note:

- When message memory becomes full:
 - “**Messages Full**” is shown on the handset display.
 -  and the total number of new messages are not displayed on the handset even if the answering system is turned on.
 - If you use the pre-recorded greeting message, the unit automatically switches to another pre-recorded greeting message asking callers to call again later.
 - If you recorded your own greeting message, the same message is still announced to callers even though their messages are not recorded.












Activating the answering system

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


- 1     
- 2 : Select the desired setting. → **[OK]**
- 3 

Turning the answering system on/off

The answering system will not answer calls while it is turned off.

- 1 **To turn on:**
    
 - If the answering system is not activated, the unit prompt you to activate the answering system (page 34).**To turn off:**
    
- 2 

Note:

- When the answering system is turned on,  is displayed next to the battery icon.







Greeting message

When the unit answers a call, a greeting message is played to callers.

You can use either:

- your own greeting message
- a pre-recorded greeting message

Recording your greeting message

- 1     
- 2 : “**Yes**” → **[OK]**
- 3 After a beep sounds, hold the handset about 20 cm away and speak clearly into the microphone.
2 minutes and 30 seconds max.

- 4 Press **[■]** to stop recording. → **[📞]**

Using a pre-recorded greeting message

The unit provides 2 pre-recorded greeting messages:

- If you reset to pre-recorded greeting or do not record your own greeting message, the unit plays a pre-recorded greeting asking callers to leave a message.
- If the message recording time (page 39) is set to “**Greeting Only**”, callers’ messages are not recorded and the unit plays a different pre-recorded greeting message asking callers to call again.

Resetting to a pre-recorded greeting message

If you want to use a pre-recorded greeting message once you record your own greeting message, your own recorded greeting message is erased.

- 1 **[📞]#304**
- 2 **[OK] → [📞]**

Playing back the greeting message

- 1 **[📞]#303**
- 2 To exit, press **[📞]**.

Listening to messages

When new messages have been recorded, **[📞]** is displayed on the handset with the total number of new messages.

- 1 **To listen to new messages:**
[📞]#323
To listen to all messages:
[📞]#324
- 2 When finished, press **[📞]**.

Note:

- To switch to the receiver, press **[📞]**.

Operating the answering system

[📞] → [📞] → [OK]

Key	Operation
[▲] or [▼]	Adjust the receiver/speaker volume (during playback)
[1] or [◀]	Repeat message (during playback)*1
[2] or [▶]	Skip message (during playback)
[3]	Enter the “ Settings ” menu
[4]	Play new messages
[5]	Play all messages
[6]	Play greeting message
[7][6]	Record greeting message
[8]	Turn answering system on
[📞]	Pause message*2
[9] or [■]	Stop recording Stop playback
[0]	Turn answering system off
[✕][4]*3	Erase currently playing message
[✕][5]	Erase all messages
[✕][6]	Reset to a pre-recorded greeting message

*1 If pressed within the first 5 seconds of a message, the previous message is played.

*2 To resume playback:
[↻]: “Play” → [OK]

*3 You can also erase as follows:
[📞] → [↻]: “Erase” → [OK] → [↻]: “Yes” → [OK]

Rewinding the message

Press and hold **[◀]** until the unit plays the desired part of the message.

- During rewinding, the handset makes a continuous beeping sound. Rewinding speed may vary depending on the recorded message.
- At the beginning of the message, the unit plays the message at normal speed.

Answering System

Fast-forwarding the message

Press and hold [▶] until the unit plays the desired part of the message.

- During fast-forwarding, the handset makes a continuous beeping sound.
Fast-forwarding speed may vary depending on the recorded message.
- Even if you press and hold [▶] when the end of this message is played, the next message is played at normal speed.

Calling back (Caller ID subscribers only)

- 1 Press [⏏] during playback.
- 2 [↕]: "Call Back" → [OK]
- **Editing the number before calling back**
 - 1 Press [⏏] during playback.
 - 2 [↕]: "Edit & Call" → [OK]
 - 3 Edit the number. → [↩]

Erasing all messages

- 1 [⏏]#325
- 2 [↕]: "Yes" → [OK] → [✖]

Advanced new message alerting features

Audible message alert

This feature allows the hub to beep to inform you of a new message arrival when new messages are recorded. The hub beeps 2 times every minute until you listen to the messages, if the "Hub Beep" setting is turned on. The default setting is "off".

- 1 [⏏]#339
- 2 [↕]: Select the desired setting. → [OK] → [✖]

New message alert by a call

This feature allows you to receive a notification by phone when new messages are recorded. The hub calls a phone number you specify. You can then operate the answering system remotely to listen to the new message.

To use this feature, you must:

- store a phone number to which the unit makes the call to.
- turn on the new message alert setting.

After you answer the new message alert call, you can listen to messages from that call (page 37).

Important:

- A new message alert is stopped 1 minute after the unit starts to call. The unit will not retry the call even if the call is not answered.

Storing a phone number to which the unit makes an alert call

■ From the phonebook:

- 1 [⏏]#338
- 2 [↕]: "Notification to" → [OK] → [↩]
- 3 [↕]: "Phonebook" → [OK]
- 4 [↕]: Select the desired phonebook entry. → [OK] → [✖]

■ By entering a phone number:

- 1 [⏏]#338
- 2 [↕]: "Notification to" → [OK] → [↩]
- 3 [↕]: "Manual" → [OK]
- 4 Enter the desired name (16 characters max.). → [OK]
- 5 Enter the desired number (24 digits max.). → [OK] 2 times → [✖]

Turning on/off the new message alert setting

- 1 [⏏]#338
- 2 [↕]: "On/Off" → [OK]
- 3 [↕]: Select the desired setting. → [OK] → [✖]

Editing the set phone number

- 1 **[☐]#338**
- 2 **[↕]: "Notification to" → [OK]**
- 3 **[☐] → [↕]: "Edit" → [OK]**
- 4 Edit the name if necessary (16 characters max.). → **[OK]**
- 5 Edit the phone number if necessary (24 digits max.). → **[OK]** 2 times → **[✕]**

Erasing the set phone number

- 1 **[☐]#338**
- 2 **[↕]: "Notification to" → [OK]**
- 3 **[☐] → [↕]: "Erase" → [OK]**
- 4 **[↕]: "Yes" → [OK] → [✕]**
 - The new message alert setting is turned off.

Activating/inactivating the remote access code to play messages

If you activate this feature, you must enter the remote access code (page 37) to play the new message from the new message alert call. This is so that unauthorised parties cannot listen to your messages. The default setting is "Inactivate".

- "Inactivate": You can listen to the message by pressing **[4]** to play new messages (without entering the remote access code).
- "Activate": You must enter your remote access code and then press **[4]** to play new message.

- 1 **[☐]#338**
- 2 **[↕]: "Remote Code" → [OK]**
- 3 **[↕]: Select the desired setting. → [OK] → [✕]**

Listening to messages

After you answer the new message alert, you can listen to the messages as follows.

■ When the remote access code is set to "Inactivate":

Press **[4]** to play the new message during the announcement.

■ When the remote access code is set to "Activate":

- 1 Enter the remote access code (page 37) during the announcement.
- 2 Press **[4]** to play the new message.

Note:

- Within 10 seconds after listening to new messages, you can press **[#]9** during the call to turn off the new message alert by a call feature.
- Even if the unit makes a new message alert call, the handset redial list does not show the record.

Remote operation

Using a touch-tone phone, you can call your phone number from outside and access the unit to listen to messages or change answering system settings. The unit's voice guidance prompts you to press certain dial keys to perform different operations.

Remote access code

A 3-digit remote access code must be entered when operating the answering system remotely. This code prevents unauthorised parties from listening to your messages remotely.

Important:

- In order to operate the answering system remotely, you must first set a remote access code.

- 1 **[☐]#306**
- 2 Enter the desired 3-digit remote access code.
- 3 **[OK] → [✕]**

Answering System

Deactivating remote operation

Press **[*]** in step 2 on "Remote access code", page 37.

- The entered remote access code is deleted.

Using the answering system remotely

- 1 Dial your phone number from a touch-tone phone.
- 2 After the greeting message starts, enter your remote access code.
- 3 Follow the voice guidance prompts as necessary or control the unit using remote commands (page 38).
- 4 When finished, hang up.

Voice guidance

During remote operation, the unit's voice guidance starts and prompts you to press **[1]** to perform a specific operation, or press **[2]** to listen to more available operations.

Note:

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

Remote commands

You can press dial keys to access certain answering system functions without waiting for the voice guidance to prompt you.

Key	Operation
[1]	Repeat message (during playback)*1
[2]	Skip message (during playback)
[4]	Play new messages
[5]	Play all messages
[6]	Play greeting message
[7]	Record greeting message
[9]	Stop recording or playback
[0]	Turn answering system off

Key	Operation
[*][4]	Erase currently playing message
[*][5]	Erase all messages
[*][6]	Reset to a pre-recorded greeting message (during greeting message playback)
[*][#]	End remote operation (or hang up)

*1 If pressed within the first 5 seconds of a message, the previous message is played.

Turning on the answering system remotely

Important:

- The answering system must be activated (page 34) in order to turn it on remotely.

- 1 Dial your phone number from a touch-tone phone.
- 2 Let the phone ring 20 times.
 - A long beep is heard.
- 3 Enter your remote access code within 10 seconds after the long beep.
 - The greeting message is played back.
 - You can either hang up, or enter your remote access code again and begin remote operation (page 37).

Answering system settings

Call screening

While a caller is leaving a message, you can listen to the call through the handset's speaker. To adjust the speaker volume, press **[▲]** or **[▼]** repeatedly.

You can answer the call by pressing **[📞]** on the handset.

Call screening can be set for each handset. The default setting is "On".

- 1 **[📞][*][#][3][1][0]**
- 2 **[📞]**: Select the desired setting. → **[OK]**
→ **[📞]**

Number of rings before the unit answers a call

You can change the number of times the phone rings "**Number of Rings**" before the unit answers a call. You can select 2 to 9 rings, or "**Auto**".

The default setting is "**8 Rings**".

"**Auto**": The unit's answering system answers at the end of the 5th ring when new messages have been recorded, or at the end of the 8th ring when there are no new messages. If you call your phone from outside to listen to new messages (page 38), you know that there are no new messages when the phone rings for the 6th time. You can then hang up without being charged for the call.

1 [⏏] [#] [2] [1] [1]

2 [↕]: Select the desired setting. → [OK]
→ [🔒]

For voice mail service subscribers

To receive voice mail and use the answering system properly, please note the following:

- To use the voice mail service provided by your phone service provider rather than the unit's answering system, turn off the answering system (page 34).
- To use this unit's answering system rather than the voice mail service provided by your phone service provider, please contact your phone service provider to deactivate your voice mail service.

If your phone service provider cannot do this:

- Set this unit's "**Number of Rings**" setting so that this unit's answering system answers calls before the voice mail service of your phone service provider does. It is necessary to check the number of rings required to activate the voice mail service provided by your phone service provider before changing this setting.
- Change the number of rings of the voice mail service so that the answering system can answer the call first. To do so, contact your phone service provider.

Caller's recording time

You can change the maximum message recording time allowed for each caller. The default setting is "**3 Minutes**".

1 [⏏] [#] [3] [0] [5]

2 [↕]: Select the desired setting. → [OK]
→ [🔒]

Selecting "Greeting Only"

You can select "**Greeting Only**" which sets the unit to announce a greeting message to callers but not record messages.

Select "**Greeting Only**" in step 2 on "Caller's recording time", page 39.

Note:

- When you select "**Greeting Only**":
 - If you do not record your own message, the unit will play the pre-recorded greeting-only message asking callers to call again later.
 - If you use your own message, record the greeting-only message asking callers to call again later (page 34).

Home Network System integration

If you have other devices registered to the hub, such as cameras, sensors, and smart plugs, you can use the handset as an integrated part of the Home Network System. Specifically, you can use the handset to:

- arm and disarm the alarm system (page 40).
- receive notifications when the sensors are triggered.
- display the status of each sensor (page 41).
- turn smart plugs on and off (page 42).

Alarm system features

You can use the handset to arm and disarm the alarm system. If the system's sensors are triggered when the system is armed, such as when motion is detected or when a door or window is opened:

- the handset and hub sound an alert.
- the handset displays information about the detection.
- the handset announces the detection. (Talking notification feature; page 41)
- the hub LED indicator blinks rapidly in red.
- the **[ARM]** button on the handset blinks rapidly.

Additional features and settings are available when using the Home Network app (page 42).

Arming and disarming the system

The alarm system has 3 modes.

- “**At Home**”: Door and window sensors are armed.*1
- “**Away**”: All sensor devices are armed.*1
- “**Disarm**”: All sensor devices are disarmed.
- The hub LED indicator lights in red when the arm mode is set to “**At Home**” or “**Away**”.

- *1 Default settings. These settings can be changed when using the Home Network app. For more information, refer to the User's Guide (page 43).

Important:

- You will be requested to enter a disarm PIN while operating this system. We recommend changing the PIN from the default before operating the system (default: “0000”, page 41).

■ To arm the system:

- 1 **[ARM]**
- 2 **[↕]**: Select “**At Home**” or “**Away**”. → **[OK]**
 - If the system is indicating that it has been triggered (such as when the alert is sounding), the mode cannot be changed to “**At Home**” and “**Away**”.
- 3 Enter the disarm PIN (default: “0000”, page 41) if prompted. → **[OK]**
 - When you select “**Away**”, you need to press **[OK]** to activate the mode. The hub sounds an alert for 3 minutes; this gives you time to leave home before the sensors can be triggered (Exit delay time). The sensors will be armed when the alert stops.

Note:

- If the system detects that a window or door is still open when you arm the alarm system, the handset will notify you. Close the window or door and then press **[OK]**.

■ To disarm the system:

- 1 **[ARM]**
- 2 **[↕]**: “**Disarm**” → **[OK]**
- 3 Enter the disarm PIN (default: “0000”, page 41). → **[OK]**

Note:

- By default, after “door sensors and motion sensors make a detection, the system gives you 1 minute to disarm the system (Entry delay time). During this time, the entry delay alert will sound. If you do not disarm the system in time, the sensors are triggered and the hub and handset sound an alert.

Stopping the alert

When a sensor is triggered, the hub and handset sound an alert. Use the following procedure to stop the alert.

- 1 Press **[■]** or **[🔇]**.
- 2 Enter the PIN (default: "0000", page 41). → **[OK]**

Note:

- By pressing **[ARM]**, you can disarm the alarm system and stop the alert. See "Arming and disarming the system", page 40.

Displaying sensor status

The status of each sensor device is shown on the handset.

- 1 **[📶]#801**
- 2 **[↕]**: Select "All Locations" or the area in which the desired sensor devices belong to. → **[OK]**
- 3 **[↕]**: Select the desired sensor.
 - Press **[↺]** to refresh the displayed information.
- 4 **[🔇]**

Talking notification feature

This feature allows you to get information about a triggered sensor without looking at the display. When a sensor is triggered, the handset can announce the location of the sensor detected, the sensor name, and the type of detection. The announcement is heard before the alert sounds. The default setting is "On".

- 1 **[📶]#809**
- 2 **[↕]**: Select the desired setting. → **[OK]**
- 3 **[🔇]**

Alert volume

You can adjust the alert volume heard during At Home mode and Away mode.

- "Alert Volume": The volume of the alert that sounds when the system is not

disarmed within the entry delay time (page 40).

- "Entry Alert Volume": The volume of the alert that sounds during the entry delay time (page 40).
- "Exit Alert Volume": The volume of alert that sounds during exit delay time (page 40).

■ Changing alert volume

- 1 **For handset:**
[📶]#803 (At Home) or
[📶]#804 (Away)
For hub:
[📶]#*803 (At Home) or
[📶]#*804 (Away)
- 2 **[↕]**: Select the desired setting. → **[OK]**
- 3 **[🔇]**

■ Changing entry alert volume

- 1 **For handset:**
[📶]#808 (At Home) or
[📶]#807 (Away)
For hub:
[📶]#*808 (At Home) or
[📶]#*807 (Away)
- 2 **[↕]**: Select the desired setting. → **[OK]**
- 3 **[🔇]**

■ Changing exit alert volume

- 1 **For hub:**
[📶]#805 (Away)
- 2 **[↕]**: Select the desired setting. → **[OK]**
- 3 **[🔇]**

Setting/changing the disarm PIN

You must enter the disarm PIN in order to disarm the alarm system or stop an alert. The default PIN is "0000". We recommend changing the disarm PIN.

Important:

- When you change the disarm PIN, please make note of the new PIN. The unit will not reveal the PIN to you. If you forget the PIN, contact an authorised service centre.

- 1 **[📶]#810**

Home Network System Integration

- 2 Enter the current disarm PIN (4-8 digits). → [OK]
 - Skip this step when setting the disarm PIN for the first time.
- 3 Enter the new disarm PIN (4-8 digits). → [OK]
- 4 Re-enter the new disarm PIN. → [OK]
- 5 [🔒]

Smart plug features

Smart plugs (KX-HNA101) allow you to use the handset to turn electric devices on and off. Smart plugs also feature an overcurrent sensor that automatically shuts off the electric device if an overcurrent is detected.

Turning smart plug on and off

There are 3 ways to turn smart plugs on and off.

- All smart plugs can be turned on or off at once.
- All smart plugs in a selected area can be turned on or off at once.
- Individual smart plugs can be turned on or off.

Turning multiple plugs on or off

- 1 [☰]#802
- 2 To turn all smart plugs on or off:
[↕]: “All Locations” → [OK]
To turn all smart plugs in a selected area on or off:
[↕]: Select the desired area. → [OK]
- 3 [↕]: Select “All Smart Plugs On” or “All Smart Plugs Off”. → [OK]
- 4 [🔒]

Note:

- The status of smart plugs may fail to change. In this case, an error message indicating the number of the smart plugs that have not changed is displayed. To confirm the status, see “Displaying smart plug status”, page 42.

Turning an individual smart plug on or off

- 1 [☰]#802
- 2 [↕]: Select the desired area. → [OK]
- 3 [↕]: “Smart Plug Status” → [OK]
- 4 [↕]: Select the desired smart plug.
- 5 Press [↵] to turn on, or press [↶] to turn off.
- 6 [🔒]

Displaying smart plug status

- 1 [☰]#802
- 2 [↕]: Select the desired area. → [OK]
- 3 [↕]: “Smart Plug Status” → [OK]
- 4 [↕]: Select the desired smart plug.
- 5 [🔒]

Home Network app features

Some of the features that are available when using the Home Network app are listed below. For more information, refer to the User's Guide (page 43).

- **Phone features**
Make and receive calls, listen to answering system messages, check call logs, etc.
- **Camera monitoring**
Watch live images from your cameras, even when away from home.
- **Alarm system features**
Receive notifications when the alarm system is triggered.
- **Home control**
Configure the system to record camera images, turn on smart plugs, or call a preprogrammed phone number when a sensor is triggered.

Downloading the Home Network app

Download information is available at the web page listed below.



www.panasonic.net/pcc/support/tel/homenetwork/


Accessing the User's Guide

The User's Guide is a collection of online documentation that helps you get the most out of the Home Network app.

1 iPhone/iPad

Tap  in the app's home screen.

Android™ devices

Tap  or press your mobile device's menu button in the app's home screen.

2 Tap [User's Guide].

Note:

- Microsoft® Windows® Internet Explorer® 8 and earlier versions are not supported.
- Android 4.1 or later versions are recommended.
- You can also access the User's Guide at the web page listed below.




www.panasonic.net/pcc/support/tel/homenetwork/manual/


Useful Information

Voice mail service

Voice mail is an automatic answering service offered by your phone service provider. After you subscribe to this service, your phone service provider's voice mail system answers calls for you when you are unavailable to answer the phone or when your line is busy. Messages are recorded by your phone service provider, not your telephone.

When you have new messages,  is displayed on the handset if message indication service is available. Please contact your phone service provider for details of this service.

Important:

- If  still remains on the display even after you have listened to new messages, turn it off by pressing and holding **[#]** for 2 seconds.
- To use the voice mail service provided by your phone service provider rather than the unit's answering system, turn off the answering system (page 34). For details, see page 39.

Character entry

The dial keys are used to enter characters and numbers. Each dial key has multiple characters assigned to it. The characters that can be entered depend on the character entry mode (page 44).

- Press **[◀]** or **[▶]** to move the cursor left or right.
- Press dial keys to enter characters and numbers.
- Press **[C]** to erase the character or number highlighted by the cursor. Press and hold **[C]** to erase all characters or numbers.
- Press **[A→a]** to switch between uppercase and lowercase.
- To enter another character located on the same dial key, press **[▶]** to move the cursor to the next space, then press the appropriate dial key.
- If you do not press any dial key within 2 seconds after entering a character, the character is fixed and the cursor moves to the next space.

Character entry modes

The available character entry modes are Alphabet (ABC), Numeric (0-9), Greek (ΑΒΓ), Extended 1 (ÄÅ), Extended 2 (ŠŠ), and Cyrillic (АБВ). When in these entry modes except Numeric, you can select which character is entered by pressing a dial key repeatedly.

When the unit displays the character entry screen:

[R] → [↕]: Select a character entry mode. → **[OK]**

Note:

-  in the following tables represents a single space.

Useful Information

Alphabet character table (ABC)

0	1	2	3	4	5	6	7	8	9	#
0	& ' () *, - . / 1	A B C 2	D E F 3	G H I 4	J K L 5	M N O 6	P Q R S 7	T U V 8	W X Y Z 9	#
		a b c 2	d e f 3	g h i 4	j k l 5	m n o 6	p q r s 7	t u v 8	w x y z 9	

- The following characters are assigned to the **1** key when entering a Wi-Fi password.

! " # \$ % & ' () * + , - . / 1 : ; < = > ? @ [\] ^ _ ` { | } ~

Numeric entry table (0-9)

0	1	2	3	4	5	6	7	8	9	#
0	1	2	3	4	5	6	7	8	9	#

Greek character table (ABΓ)

0	1	2	3	4	5	6	7	8	9	#
0	& ' () *, - . / 1	A B Γ 2	Δ E Z 3	H Θ I 4	K Λ M 5	N Ξ O 6	Π P Σ 7	T Υ Φ 8	X Ψ Ω 9	#

Extended 1 character table (AÄÅ)

0	1	2	3	4	5	6	7	8	9	#
0	& ' () *, - . / 1	A Ä Á Ä Å Ã Å Æ B C Ç 2	D E È É Ê Ë Ë Ì Í 4	G Ğ H I Î Ï 5	J K L 5	M N Ñ O Ö Ó Ö Ø Æ ø 6	P Q R S Ş ß 7	T U Û Ü Ü Ü Û V 8	W Ŵ X Y ŷ Z 9	#
		a ä å ä å æ b c ç 2	d e è é ê ë ë f 3	g ğ h i î ï 4	j k l 5	m n ñ o ö ó ö ø Æ ø 6	p q r s ş ß 7	t u û ü ü ü û v 8	w ŵ x y ŷ z 9	

- The following are used for both uppercase and lowercase: ø Ŵ ŷ

Error messages

Display message	Cause/solution
Hub no power or No link. Reconnect AC adaptor.	<ul style="list-style-type: none"> • The handset has lost communication with the hub. Move closer to the hub and try again. • Unplug the hub's AC adaptor to reset the unit. Reconnect the adaptor and try again. • The handset's registration may have been cancelled. Re-register the handset (page 31).
Cannot obtain IP Address	<ul style="list-style-type: none"> • Your wireless router does not support DHCP, or the DHCP feature of your wireless router is turned off. If your wireless router supports DHCP, make sure that its DHCP feature is turned on. If DHCP is not available, set the hub's IP settings manually. See "Advanced configuration (static IP settings)", page 32.
Error	<ul style="list-style-type: none"> • Recording was too short. Try again.
Failed to connect	<ul style="list-style-type: none"> • You entered the wrong password when configuring the hub to connect to your wireless router. Confirm the password and try again. If your wireless router is configured to use a hexadecimal password, enter the correct password using numbers 0-9 and letters a-f. • If you have configured your wireless router to use MAC address filtering, make sure you add the hub's MAC address to the list of authorised MAC addresses.
IP Address conflicts	<ul style="list-style-type: none"> • The IP address assigned to the hub is also assigned to another device on your network. Check the IP address settings of the hub (page 32) and other devices on the network.
You must first subscribe to Caller ID.	<ul style="list-style-type: none"> • You must subscribe to a Caller ID service. Once you receive caller information after subscribing to a Caller ID service, this message will not be displayed.
Use rechargeable battery.	<ul style="list-style-type: none"> • A wrong type of battery such as Alkaline or Manganese was inserted. Use only the rechargeable Ni-MH batteries noted on page 3, 8.
Wrong PW (PW: Password)	<ul style="list-style-type: none"> • You entered the wrong password when configuring the hub to connect to your wireless router. Confirm the password and try again.

Useful Information

Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the hub's AC adaptor and turn off the handset, then reconnect the hub's AC adaptor. Remove the batteries from the handset, insert the batteries into the handset again, and turn on the handset.

General use

Problem	Cause/solution
The handset does not turn on even after installing charged batteries.	<ul style="list-style-type: none">● Place the handset on the charger to turn on the handset.
The unit does not work.	<ul style="list-style-type: none">● Make sure the batteries are installed correctly (page 11).● Fully charge the batteries (page 11).● Check the connections (page 11).● Unplug the hub's AC adaptor to reset the unit and turn off the handset. Reconnect the adaptor, turn on the handset, and try again.● The handset has not been registered to the hub. Register the handset (page 31).
The handset display is blank.	<ul style="list-style-type: none">● The handset is not turned on. Turn the power on (page 14).
I cannot hear a dial tone.	<ul style="list-style-type: none">● Make sure that you are using the supplied telephone line cord. Your old telephone line cord may have a different wiring configuration.● The hub's AC adaptor or telephone line cord is not connected. Check the connections.● Disconnect the hub from the telephone line and connect the line to a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your phone service provider.
The hub beeps.	<ul style="list-style-type: none">● New messages have been recorded. Listen to the new messages (page 35).
I cannot set date and time.	<ul style="list-style-type: none">● You cannot set date and time with the handset. The time setting of the system is configured with the date and time of the mobile device registered to the hub. If a mobile device is not registered to the hub, register it to the hub by following the instructions in the System Setup Guide of the hub.
I cannot use the handset alarm or night mode.	<ul style="list-style-type: none">● The date and time is not set. The time setting of the system is configured with the date and time of the mobile device registered to the hub. If a mobile device is not registered to the hub, register it to the hub by following the instructions in the System Setup Guide of the hub.

Useful Information

Menu list

Problem	Cause/solution
The display is in a language I cannot read.	<ul style="list-style-type: none"> Change the display language (page 14).
I cannot register a handset to a hub.	<ul style="list-style-type: none"> The maximum number of handsets (6) is already registered to the hub. Cancel unused handset registrations from the hub (page 31). You entered the wrong hub PIN. If you forget your PIN, see "I cannot remember the hub PIN." (page 49).
I cannot remember the hub PIN.	<ul style="list-style-type: none"> Change the hub PIN using the following method. <ol style="list-style-type: none"> 1 # 1 3 2 2 * 7 0 0 0 3 Enter the new 4-digit hub PIN. → [OK] 4 : "Yes" → [OK] →

Battery recharge

Problem	Cause/solution
The handset beeps and/or blinks.	<ul style="list-style-type: none"> Battery charge is low. Fully charge the batteries (page 11).
I fully charged the batteries, but <ul style="list-style-type: none"> still blinks, the operating time seems to be shorter. 	<ul style="list-style-type: none"> Clean the battery ends (,) and the charge contacts with a dry cloth and charge again. It is time to replace the batteries (page 11).

Making/answering calls, intercom

Problem	Cause/solution
is displayed.	<ul style="list-style-type: none"> The handset is too far from the hub. Move closer. The hub's AC adaptor is not properly connected. Reconnect AC adaptor to the hub. The handset is not registered to the hub. Register it (page 31).
Noise is heard, sound cuts in and out.	<ul style="list-style-type: none"> You are using the handset or hub in an area with high electrical interference. Re-position the hub and use the handset away from sources of interference. Move closer to the hub. If you use a DSL/ADSL service, we recommend connecting a DSL/ADSL filter between the hub and the telephone line jack. Contact your DSL/ADSL provider for details.
Sound quality seems to be getting worse.	<ul style="list-style-type: none"> You have registered a handset that is not recommended (page 4). The clearest sound quality is only possible by registering the recommended handset.

Useful Information

Problem	Cause/solution
The handset does not ring.	<ul style="list-style-type: none">• The ringer volume is turned off. Adjust the ringer volume (page 15, 26).• Night mode is turned on. Turn it off (page 29).
I cannot make a call.	<ul style="list-style-type: none">• You dialled a call restricted number (page 31).• The key lock feature is turned on. Turn it off (page 19).

Caller ID/Talking Caller ID

Problem	Cause/solution
Caller information is not displayed.	<ul style="list-style-type: none">• You must subscribe to Caller ID service. Contact your phone service provider for details.• If your unit is connected to any additional telephone equipment, remove and plug the unit directly into the wall jack.• If you use a DSL/ADSL service, we recommend connecting a DSL/ADSL filter between the hub and the telephone line jack. Contact your DSL/ADSL provider for details.• The name display service may not be available in some areas. Contact your phone service provider for details.• Other telephone equipment may be interfering with this unit. Disconnect the other equipment and try again.
Caller information is displayed or announced late.	<ul style="list-style-type: none">• Depending on your phone service provider, the unit may display or announce the caller's information at the 2nd ring or later. Set the first ring to "off" (page 26).• Move closer to the hub.
Caller information is not announced.	<ul style="list-style-type: none">• To use the Talking Caller ID feature, store the name and phone number in the phonebook (page 20).• The handset ringer volume is turned off. Adjust it (page 15, 26).• The Talking Caller ID feature is turned off. Turn it on (page 26).• Depending on the number of rings setting, the answering system may answer calls before announcing the caller information. Select a different setting (page 39).
The name stored in the phonebook is not fully displayed while an outside call is being received.	<ul style="list-style-type: none">• Edit the phonebook entry name to fit in 1 line of text (page 21).

Useful Information

Answering system

Problem	Cause/solution
The unit does not record new messages.	<ul style="list-style-type: none">• The answering system is turned off. Turn it on (page 34).• The message memory is full. Erase unnecessary messages (page 35).• The recording time is set to "Greeting Only". Change the setting (page 39).• Your phone service provider's voice mail service may be answering your calls before the unit's answering system can answer your calls. Change the unit's number of rings setting (page 39) to a lower value, or contact your phone service provider.
I cannot operate the answering system remotely.	<ul style="list-style-type: none">• The remote access code is not set. Set the remote access code (page 37).• You are entering the wrong remote access code. If you have forgotten your remote access code, enter the remote access code setting to check your current code (page 37).• The answering system is turned off. Turn it on (page 38).• The answering system must be activated (page 34) in order to turn it on remotely.
The unit does not emit the specified number of rings.	<ul style="list-style-type: none">• If the first ring is turned off, the number of rings decreases by 1 from the specified number of rings.

Liquid damage

Problem	Cause/solution
Liquid or other form of moisture has entered the handset/hub.	<ul style="list-style-type: none">• Disconnect the AC adaptor and telephone line cord from the hub. Remove the batteries from the handset and leave to dry for at least 3 days. After the handset/hub are completely dry, reconnect the AC adaptor and telephone line cord. Insert the batteries and charge fully before use. If the unit does not work properly, contact an authorised service centre.

Caution:

- To avoid permanent damage, do not use a microwave oven to speed up the drying process.

Useful Information

Network connection

Problem	Cause/solution
I am having trouble connecting.	<ul style="list-style-type: none">● Your wireless router is not turned or is not functioning. Refer to the operating instructions included with your wireless router.● Your mobile device is not connected to your wireless router. Check your mobile device's Wi-Fi settings. Refer to the operating instructions included with your mobile device.● The SSID (wireless network name), security type, or password assigned to the wireless router has been changed. Configure the hub again using the procedure described in "Wi-Fi network access settings", page 32.● Confirm the hub's Wi-Fi and IP settings using the procedure described in "Confirming network status", page 32.● If your wireless router's client isolation feature (a feature that prevents wireless devices connected to the same wireless router from communicating with each other) is turned on, your hub and your mobile device will not be able to communicate with each other. Refer to the operating instructions included with your wireless router and make sure that this feature is turned off.● The hub's network settings are incorrect. Reset the hub's network settings (page 33) and configure the network settings again.

Specifications

- **Standard:**
DECT (Digital Enhanced Cordless Telecommunications)
GAP (Generic Access Profile)
- **Frequency range:**
1.88 GHz to 1.90 GHz
- **RF transmission power**
Approx. 10 mW (average power per channel)
- **Power source:**
Handset:
AAA (R03) Ni-MH battery (2 × 1.2 V, 550 mAh)
Charger:
220–240 V AC, 50/60 Hz
- **Power consumption:**
Charger:
Standby: Approx. 0.1 W
Maximum: Approx. 1.8 W
- **Operating conditions:**
0 °C – 40 °C, 20 % – 80 % relative air humidity (dry)
- **Dimensions: (height × width × depth)**
Handset: Approx. 164 mm × 48 mm × 29 mm
Charger: Approx. 39 mm × 72 mm × 72 mm
- **Mass (weight):**
Handset: Approx. 109 g excluding the batteries
Charger: Approx. 43 g excluding the AC adaptor

Appendix

Conditions of guarantee

This guarantee is in addition to and does not in any way affect any statutory or other rights of consumer purchasers. If within the applicable guarantee period, the product proves to be defective by reason of faulty design, workmanship or materials, we undertake subject to the following conditions to have the defective product (or any part or parts thereof) repaired or replaced free of charge.

1. The product shall have been purchased and used solely within either the U.K. or Ireland and in accordance with standard operating instructions and the technical and/or Safety Standards required in the U.K.
2. On being found defective, please consult with the retailer from where it was purchased for assistance.
3. This guarantee shall not apply to damage caused through fire, accident, lightning, misuse, wear and tear, neglect, incorrect adjustment or repair, to damage caused through installation, adaption, modification or use in an improper manner or inconsistent with the technical and/or safety standards required in the country where this product is used, or to damage occurred during transit to or from the purchaser.
4. If at any time during the guarantee period any part or parts of the product are replaced with a part or parts not supplied or approved by us or of an objective quality safe and suitable for the product, or the product has been dismantled or repaired by any person not authorised by us, we shall have the right to terminate this guarantee in whole or in part immediately without further notice.
5. The purchaser's sole and exclusive remedy under this guarantee against us is for the repair or replacement of the product or any defective part or parts and no other remedy, including, but not limited to, incidental or consequential damage or loss of whatsoever nature shall be available to the purchaser.
6. This guarantee shall not apply to batteries and any other items of limited natural life.
7. Our decision on all matters relating to complaints shall be final. Any product or defective part which has been replaced shall become our property.
8. The guarantee period applicable to this product shall be 12 months.

Please keep these operating instructions with your receipt.

Panasonic U.K. a branch of Panasonic Marketing Europe GmbH

Receipt No. _____	Date of purchase _____
Model No. _____	Serial No. _____

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IMPORTANT!

If your product is not working properly. . .

- ① **Make sure that the hub is connected to the telephone line.**
- ② **Use rechargeable Ni-MH batteries.**
(Alkaline/Manganese/Ni-Cd batteries CANNOT be used.)
- ③ **Reinsert the batteries and restart the handset.**
- ④ **Read troubleshooting page in the Operating Instructions.**



If you still have any problems, please call the Helpline

0330 3331112 (U.K.)

01 4475228 (Ireland)

or contact us through our website:

www.panasonic.co.uk

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