Panasonic

Operating Instructions

Premium Design Phone with Smartphone Connect

Model No. KX-PRW110BX

KX-PRW110UE



Before initial use, see "Getting Started" on page 9.

Thank you for purchasing a Panasonic product.

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

Please access our online customer survey: http://panasonic.net/pcc/tel/q

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Accessory information

Supplied accessories

No.	Accessory item/Part number	Quantity
1	AC adaptor*1	1
2	Telephone line cord	1
3	Rechargeable batteries*2	2
4	Handset cover*3	1

*1 PNLV236BX: KX-PRW110BX PNLV236E: KX-PRW110UE

- 2 See page 3 for replacement battery information.
- *3 The handset cover comes attached to the handset.

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Additional/replacement accessories

Please contact your nearest Panasonic dealer for sales information.

Accessory item	Model number
Rechargeable batteries	HHR-4MY*1
	Battery type: - Nickel metal hydride (Ni-MH) - 2 x AAA (R03) size for the handset
DECT repeater	KX-A405
Key finder	KX-TGA20EX*2

- *1 Replacement batteries may have a different capacity from that of the supplied batteries.
- *2 By registering the key finder (4 max.) to a Panasonic Digital Cordless Phone and attaching it to an easy-to-lose item in advance, you can locate and find the mislaid item to which the key finder is attached. Please visit our Web site:

http://panasonic.net/pcc/products/telephone/p/tga20/

Please contact Panasonic or authorised sales department on the back cover for availability of key finder in your area.

Other information

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

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Introduction

Expanding your phone system

Smartphone

Your smartphone: 4 max.

You can expand your phone system by installing the Smartphone Connect app on your smartphone and registering your smartphone to the base unit.

 You must configure the base unit and download the app before you can use these features. See the "Smartphone Integration" chapter beginning on page 39 for more information.



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.
- Never touch the plug with wet hands.
 Danger of electric shock exists.

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.

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. DECT features operate between 1.88 GHz and 1.90 GHz with a peak transmission power of 250 mW.
 Wi-Fi features operate between 2.412 GHz and 2.472 GHz with a peak transmission power of 100 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.

CAUTION

Installation and location

- Never install telephone wiring during an electrical 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

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- 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 magnetic cards or similar objects near the phone. Magnetic data on the cards, etc. may be deleted.
- 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 base unit (or charger) to charge the batteries. Do not tamper with the base unit (or 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:

- 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.
- 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.
- 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

Base unit location/avoiding noise

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

- For maximum coverage and noise-free communications, place your base unit:
 - at a convenient, high, and central location with no obstructions between the handset and base unit 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 base unit on a bay window or near a window.)
- Coverage and voice quality depends on the local environmental conditions.
- If the reception for a base unit location is not satisfactory, move the base unit 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 calling distance 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.

Routine care

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

Other information

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

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.

Information on Disposal in other Countries outside the European Union







These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Specifications

- Communication standards
 DECT (Digital Enhanced Cordless
 Telecommunications),
 GAP (Generic Access Profile)
 Wi-Fi (IEEE 802.11 b/q/n)
- Frequency range

DECT: 1.88 GHz to 1.90 GHz

Wi-Fi:

2.412 GHz to 2.472 GHz (channels 1 to 13)

• RF transmission power

DECT:

Approx. 10 mW (average power per channel)

Wi-Fi:

100 mW (peak transmission power)

- Encryption
 - WPA2-PSK (TKIP/AES), WPA-PSK (TKIP/AES), WEP (128/64 bit)
- Simplified configuration
- WPS (PBC)
- Power source

100-240 V AC, 50/60 Hz*1

220-240 V AC, 50/60 Hz*2

Power consumption

Base unit:

Standby: Approx. 2.0 W Maximum: Approx. 3.9 W

Operating conditions

0 °C-40 °C, 20 %-80 % relative air humidity (dry)

- *1 KX-PRW110BX
- *2 KX-PRW110UE

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Note:

 The range of the handset under maximum conditions is 60 metres indoors and 300 metres outdoors. Please note it will probably be shortened when near concrete barriers, etc.

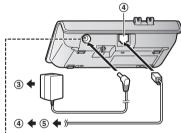
Setting up

Connections

- ① Press the AC adaptor plug firmly to the unit.
- Weep the plug in the horizontal position and fasten the cord by hooking it.
- 3 Connect the AC adaptor to the power outlet.
- ① Connect the telephone line cord to the unit and telephone line jack until you hear a click.
- (5) A DSL/ADSL filter (not supplied) is required if you have a DSL/ADSL service.

Note:

- Use only the supplied Panasonic AC adaptor.*1
- Use only the supplied telephone line cord.
- *1 PNLV236BX: KX-PRW110BX PNLV236E: KX-PRW110UE

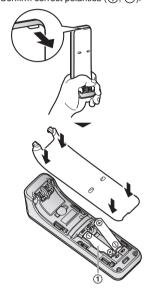






Battery installation

- USE ONLY rechargeable Ni-MH batteries AAA (R03) size (1).
- Do NOT use Alkaline/Manganese/Ni-Cd batteries.
- Confirm correct polarities (⊕, ⊖).



• Follow the directions on the display to set up the unit.

Battery charging

Charge for about 7 hours.

• Confirm "Charging" is displayed (1).

 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.

During a power failure

The unit will not work during a power failure. We recommend connecting a corded-type telephone (without AC adaptor) to the same telephone line or to the same telephone line jack using a T-adaptor.

Note for battery installation

 Use the supplied rechargeable batteries.
 For replacement, we recommend using the Panasonic rechargeable batteries noted on page 3, 6.

Note for battery charging

- It is normal for the handset to feel warm during charging.
- Clean the charge contacts of the handset and base unit with a soft and dry cloth once a month. Before cleaning the unit, disconnect from power outlets and any telephone line cords. Clean more often if

the unit is exposed to grease, dust, or high humidity.

Battery level

Icon	Battery level
(III	High
•	Medium
	Low
`` \\	Needs charging.

Panasonic Ni-MH battery performance (supplied batteries)

Operation	Operating time
In continuous use	11 hours max.
Not in use (standby)	150 hours max.

Note:

 Actual battery performance depends on usage and ambient environment.

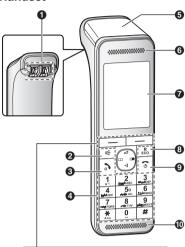
Controls

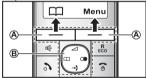
Base unit



- (-1))] (Locator)
 - You can locate a misplaced handset by pressing [•1))].
- 2 Charge contacts







- Charge contacts
- [♣] (Speakerphone)
- Official Section

 (a) [speake]

 (b) [Talk]

 Dial keypad

 Speaker

 Receiver

- Display
- (R/ECO)
 - R: Recall/Flash
 - ECO: Eco mode shortcut key
- **⑨** [**¬**(**b**)] (Off/Power)
- Microphone
- Control type
 - (A) Soft keys

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

Navigator key

Navigator keys functions as follows.

Symbol	Meaning	
	[4]	Up
[+]]	[▼]	Down
(CD)	[4]	Left
	[-]	Right

- [▲], [▼], [◄], or [►]: Scroll through various lists and items.
- [▲] or [▼] (△): Adjust the receiver or speaker volume while talking.
- (*) (Caller list): View the caller list.
- [M] (Phonebook): View the phonebook
- [(Redial): View the redial list.

Display icons

Handset display items

Item	Meaning
Til	Range status: The more bars visible, the closer the handset is to the base unit.
¥	Out of base unit range
(Paging, intercom mode
哈	Speakerphone is on. (page 14)
•	The line is in use. When flashing slowly: The call is put on hold. When flashing rapidly: An incoming call is now being received.
→)	Missed call*1 (page 34)
ECO	The base unit transmission power is set to "Low". (page 13)
JR.	Noise reduction is set. (page 15)
%	The key backlight is off. (page 24)

Item	Meaning
•	Battery level
•	Alarm is on. (page 27)
C ")	Equalizer is set. (page 15)
×	Privacy mode is on.*2 (page 25)
Ø	Ringer volume is off. (page 23)
*	Night mode is on. (page 28)
× <u>•</u>	Blocked call*1 (page 28)
	New SMS message received.*3 (page 37)
8	New voice mail message received.*4 (page 42)
~	Baby monitor is activated. The name/number displayed next to the icon indicates the monitoring unit. (page 29)

- '1 Caller ID subscribers only
- *2 This feature is available when your smartphone is registered to the base unit (page 39).
- *3 SMS users only
- *4 Voice mail subscribers only

Handset soft key icons

Icon	Action		
Ø	Temporarily turns off the ringer for incoming calls. (page 14)		
四	Opens the phonebook.		
~	Selects entries or handset. (page 27)		
С	Erases a number/character.		
Ø	Puts the call on mute.		

Turning the power on/off

Language setting

Display language

- 1 [Menu] (right soft key) #1110
- 2 [♣]: Select your desired language. → [OK]
- 3 (一也)

Date and time

- 1 [Menu] (right soft key) #101
- 2 Enter the current date, month, and year. → [OK] Example: 15 July, 2013 1 [5] [0] [7] [1] [3]
- 3 Enter the current hour and minute. Example: 15:30
- 4 [OK] → [¬Ф]

Note:

- The order in which you enter the date differs according to the selected display language.
 - Example:
 Arabic/Persian: Year/Month/Date
 English: Date/Month/Year
- The date and time may be incorrect after a power failure. In this case, set the date and time again.

Other settings

Screen saver mode

The backlight goes dark when on a call or turns off completely after 1 minute of inactivity if the handset is not on the base unit.

Activate the handset display again by:

- pressing () when on a call.
- pressing [→Φ] at all other times.

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One touch eco mode

The [R/ECO] button on the handset enables you to activate the eco function with one touch.

By activating eco mode, your unit can reduce the base unit transmission power by up to 90 % in standby mode.

You can turn on/off one touch eco mode by just pressing [R/ECO]. The default setting is "Normal".

- When the one touch eco mode is on: "Low" is temporarily displayed and ECO is shown on the handset display instead of Y.
- When the one touch eco mode is off:
 "Normal" is temporarily displayed and
 ECO goes off from the handset display.

Note:

- Activating one touch eco mode reduces the range of the base unit in standby mode.
- If you set the DECT repeater mode to "on" (page 33):
 - One touch eco mode is cancelled.
 - "Eco Setup" is not shown in the display menu (page 24).

Dialling mode

If you cannot make calls, change this setting according to your telephone line service. The default setting is "Tone".

"Tone": For tone dial service.

"Pulse": For rotary/pulse dial service.

- 1 [Menu] (right soft key) #120
- 2 (*): Select the desired setting.
- 3 [OK] \rightarrow [\rightarrow 0]

Making calls

- Lift the handset and dial the phone number.
 - To correct a digit, press [C].
- 2 Press [].
- 3 When you finish talking, press [•] or place the handset on the base unit.

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 are stored in the redial list (each 24 digits max.).

- 1 [3]
- 2 (\$): Select the desired phone number.
- 3 [♠]/[♠]
 - If [] is pressed and the other party's line is engaged, the unit automatically redials multiple times.

Erasing a number in the redial list

- 1 (3)
- 2 (♣): Select the desired phone number.→ [Erase]
- 3 [$\ \$]: "Yes" \rightarrow [OK] \rightarrow [\rightarrow []

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 19).

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

- 1 $\boxed{0} \rightarrow \boxed{\blacktriangle}$ (Pause)
- 2 Dial the phone number. \rightarrow [\uparrow]

Note:

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

Answering calls

- 1 Lift the handset and press [↑] or [♠] when the unit rings.

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 24).

Temporary ringer off: You can turn the ringer off temporarily by pressing [\mathcal{L}].

Adjusting the handset ringer volume

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

Useful features during a call

Hold

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

Note:

 After holding for 10 minutes, the call is disconnected.

Mute

- 1 Press [Q] during a call.
- 2 To return to the call, press [\(\)].

Recall/flash

[R/ECO] 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 25.

For call waiting or Call Waiting Caller ID service users

To use call waiting or Call Waiting Caller ID, you must first subscribe with your service provider/telephone company.

This feature allows you to receive calls while you are already talking on the phone. If you receive a call while on the phone, you will hear a call waiting tone.

If you subscribe to both Caller ID and Call Waiting with Caller ID services, the 2nd caller's information is displayed after you hear the call waiting tone on the handset.

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

Note:

 Please contact your service provider/ telephone company for details and availability of this service in your area.

Temporary tone dialling (for rotary/pulse service users)

Press $\begin{tabular}{l} \hline \times \\ \hline \end{array}$ before entering access numbers which require tone dialling.

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 [Menu] while talking.
- 2 $\left[\begin{smallmatrix} A \\ V \end{smallmatrix}\right]$: "Noise Reduction On" Or "Noise Reduction Off" \rightarrow [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 [Menu] while talking.
- $2 \left[\begin{smallmatrix} A \\ \Psi \end{smallmatrix}\right]$: "Equalizer" $\rightarrow [OK]$
- 3 (♣): Select the desired setting.
- 4 Press (OK) to exit.

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

Available when:

Your smartphone is registered to base unit (page 39).

You can join an existing outside call.

To join the conversation, press [] when your smartphone is on an outside call.

Note:

 To prevent other users from joining your conversations with outside callers, turn the privacy mode on (page 25).

Transferring calls, conference calls

Available when:

Your smartphone is registered to base unit (page 39).

Outside calls can be transferred between handset and your smartphone in the same radio cell.

The handset and your smartphone in the same radio cell can have a conference call with an outside party.

- 1 During an outside call, press [Menu] to put the call on hold.
- 2 (♣): "Intercom" → [OK]
- 3 ($\ \$): Select the desired unit. \rightarrow [OK]
- 4 Wait for the paged party to answer.
 - If the paged party does not answer, press [Back] to return to the outside call.
- 5 To complete the transfer: Press [()].

To establish a conference call: [Menu] → [♣]: "Conference" → [OK]

- To leave the conference, press (一也). The other 2 parties can continue the conversation.
- To put the outside call on hold:
 [Menu] → [\$]: "Hold" → [OK]
 To resume the conference: [Menu]
 → [\$]: "Conference" → [OK]
- To cancel the conference: [Menu] →
 [♠]: "Stop Conference" → [OK]
 You can continue the conversation
 with the outside caller.

Intercom

Available when:

Your smartphone is registered to base unit (page 39).

Intercom calls can be made between handset and your smartphone in the same radio cell.

Note:

- When paging, the paged smartphone beeps for 1 minute.
- If you receive an outside call while talking on the intercom, you hear 2 tones. To answer the call, press [), then press

Making an intercom call

- 1 [Menu] (right soft key) → [Intercom]
- 2 (♣): Select the desired unit. → [OK]
- 3 When you finish talking, press [,).

Answering an intercom call

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

Turning auto intercom on/off

Available when:

- Your smartphone is registered to base unit (page 39), and
- You call from your smartphone to the handset only.

This feature allows the handset to answer intercom calls automatically when it is called. You do not need to press []. The default setting is "off".

- 1 [Menu] (right soft key) #273
- 2 [♦]: Select the desired setting. → [OK] → [♠()]

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 [Menu] (right soft key) for about 3 seconds.

 To turn key lock off, press [Key lock] (right soft key) 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.

The total number of entries that can be stored varies depending on how many phone numbers you have stored for each entry.

Total number of entries is shown below*1:

1 name + 1 phone number: 500 entries

1 name + 2 phone numbers: 250 entries

1 name + 3 phone numbers: 166 entries*1 Up to 3 phone numbers for each entry can be stored.

Important:

 You can copy contacts from your smartphone to the unit's phonebook if your smartphone is registered to the base unit.
 For more information, refer to the Smartphone Connect App Guide, which is available for download from our web site.

Adding phonebook entries

- 1 [<u>m</u>] → [Menu]
- 3 $[^{\blacktriangle}]$: "(Name)" \rightarrow [Select]
- 4 Enter the party's name. → [OK]
 - You can change the character entry mode by pressing [R/ECO] (page 42).
- 5 [$^{\buildrel \buildrel \buildrel$
 - You can store up to 3 phone numbers for each entry.
- 6 Enter the party's phone number. → [OK]
- 7 [$^{\bullet}$]: "Category 1" \rightarrow [Select]
- 8 [♣]: Select the desired category. → [OK]
- 9 [Save] \rightarrow [\frown \circlearrowleft]

Storing a redial list number to the phonebook

1 [3]

- 2 (♣): Select the desired phone number.
 → [Detail] → [Save]
- To store the name, continue from step 3, "Editing entries", page 19.

Storing caller information to the phonebook

- 1 (+)
- 2 (♣): Select the desired entry. → [Detail] → [Menu]
- 3 (\d): "Save CID" \rightarrow [OK]
- 4 [♣]: "Phonebook" → [OK]
- **5** To store the name, continue from step 3, "Editing entries", page 19.

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 ringer tones for different categories of callers, you can identify who is calling (category ringer tone), if you have subscribed to Caller ID service.

Changing category names/setting category ringer tone

- 1 $(m) \rightarrow (Menu)$
- 2 $[\ \ \]$: "Category" \rightarrow [OK]
- 3 (♣): Select the desired category. → [OK]
- 4 To change category names

 [♠]: "Category Name" → [OK] →

 Edit the name (10 characters max.;

 page 42). → [OK]

To set category ringer tone

 $[\]$: Select the current setting of the category ringer tone. \rightarrow [OK] \rightarrow [$\]$: Select the desired ringer tone. \rightarrow [OK]

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Finding and calling from a phonebook entry

- 1 (0)
- 2 To scroll through all entries
 - [♠]: Select the desired entry. → [♠]
 - To search by first character
 - ① Press the dial key (0 to 0, or #) which contains the character you are searching for (page 42).
 - ② [♣]: Scroll through the phonebook if necessary. → [♣]

To search by guery

- ① ★ → To search for the name, enter the first characters (up to 4) in uppercase (page 42). → [OK]
- ② [♦]: Scroll through the phonebook if necessary. → [♠]

To search by category

- ① [Search] → [♣]: "Category" → [OK]
- ② [♠]: Select the desired category. → [OK]
- ③ [♠]: Scroll through the phonebook if necessary. → [♠]
- 3 (♣): Select the desired phone number. →

Editing entries

- 1 Find the desired entry (page 19). → [Menu]
- 2 [♠]: "Edit" → [OK]
- 3 [♠]: Select the desired item you want to change. → [Select]
- 4 To change the name and phone number:

Edit the name or phone number. \rightarrow [OK] To change the category:

[♣]: Select the desired category. → [OK]
To delete the picture:

[Erase] \rightarrow [$\stackrel{\wedge}{\bullet}$]: "Yes" \rightarrow [OK]

5 [Save] → [**~**Ф]

Erasing entries

Erasing an entry

- 1 Find the desired entry (page 19). → [Menu]
- 2 [♣]: "Erase" → [OK]
- 3 [♣]: "Yes" → [OK] → [♠ᠿ]

Erasing all entries

- 1 $(m) \rightarrow (Menu)$
 - $2 \left(\begin{smallmatrix} \bullet \end{smallmatrix} \right)$: "Erase All" $\rightarrow [OK]$
- 3 (♣): "Yes" → [OK]
- 4 [♣]: "Yes" → [OK] → [**~**♠]

Note:

 You can copy contacts from your smartphone to the unit's phonebook if your smartphone is registered to the base unit. Later, if you delete those phonebook entries from the unit, pictures that were attached to the entries will remain in the handset. You can erase these pictures manually using the "Memory Manager" feature (page 25).

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 [Menu].
- 2 (♣): "Phonebook" → [OK]
- 3 (♣): Select the desired entry. → [OK]
- 4 (1): Select the desired phone number.
- 5 Press [Call] to dial the number.

Note:

 When storing a calling card access number and your PIN in the phonebook as one phonebook entry, press [A] (Pause) to add pauses after the number and PIN as necessary (page 14).

Phonebook

• If you have rotary/pulse service, you need to press ※ before pressing [Menu] in step 1 to change the dialling mode temporarily to tone. When adding entries to the phonebook, we recommend adding ※ to the beginning of phone numbers you wish to chain dial (page 18).

[OK] 2 times \rightarrow [\frown ©]

Edit the phone number if necessary. →

Erasing an entry

- 1 Press and hold the desired speed dial key (1 to 9). → [Menu]
- 2 [♣]: "Erase" → [OK]
- 3 (\updownarrow): "Yes" \to [OK] \to [\frown ©]

Speed dial

You can assign 1 phone number to each of the dial keys (1 to 9) 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 9). → [Add]
 - 2 [♣]: "Manual" → [OK]
 - 3 Enter the party's name (16 characters max.; page 42). → [OK]
 - 4 Enter the party's phone number (24 digits max.). → [OK] 2 times → [→]
- From the phonebook:
 - 1 Press and hold the desired speed dial key (1 to 9). → [Add]
 - 2 (♣): "Phonebook" → [OK]
 - 3 (♣): Select the desired entry. → [OK]
 - 4 (\$): Select the desired phone number.
 - 5 [OK] → [¬Ф]

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 9). → [Menu]
- 2 [♣]: "Edit" → [OK]
- 3 Edit the name if necessary. → [OK]

Viewing an entry/Making a call

- 1 Press and hold the desired speed dial key (1 to 9).
- 2 To make a call, press [].

Menu list

To access the features, there are 2 methods.

- Scrolling through the display menus
 - 1 [Menu] (right soft key)
 - 2 Press [V], [A], [F], or [A] to select the desired main menu. $\rightarrow [OK]$
 - **3** Press [V] or [A] to select the desired item from the next sub-menus. \rightarrow [OK]
 - 4 Press (▼) or (▲) to select the desired setting. → (OK)
- Using the direct command code
 - [Menu] (right soft key) → Enter the desired code. Example: Press [Menu] (right soft key) #[1]0[1].
 - 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 the menu tree and direct command code table

Main menu: →] "Caller List"

Operation	Code	G
Viewing the caller list.	#213	34

Main menu: ♪ "Ringer Setup"

Sub-menu 1	Sub-menu 2	Settings	Code	Ġ
Ringer Volume	_	0-6 : off-6 <6>	#160	-
Ringtone*1	-	<ringtone 1=""></ringtone>	#161	-
Night Mode	On/Off	1: On 0: <off></off>	#238	28
	Start/End	<23:00/06:00>	#237	28
	Ring Delay	1:30 sec. 2:<60 sec.> 3:90 sec. 4:120 sec. 0:No Ringing	#239	28
	Select Category	1-9 : Category 1-9	#241	28
First Ring*3	-	1: <on> 0: Off</on>	#173	-

Main menu: ■ "sмs"

Sub-menu 1	Sub-menu 2	Settings	Code	G
Receive List	_	-	#350	37
Send List	_	-		37
Create	_	-		36
Settings	Message Centrel	-	#351	36
	Message Centre2	-	#352	36
	PBX Access #	<off></off>	#356	37
	SMS On/Off	<off></off>	#357	36

Main menu: ("Intercom" 2

Operation	Code	G
Paging the desired unit.	#274	_

Main menu: 4 "Time Settings"

Sub-menu 1	Sub-menu 2	Settings	Code	G
Set Date/Time	_	_	#101	12
Memo Alarm	1-5: Alarm1-5	1: Once 2: Daily 3: Weekly 0: <off></off>	#720	27
Time Adjustment*4	_	1: Caller ID 0: <manual></manual>	#226	-

Main menu: **≠** "Initial Setup"

Sub-menu 1	Sub-menu 2	Settings	Code	Ġ
Ringer Setup	Ringer Volume	0-6 : Off-6 <6>	#160	-
	Ringtone*1	<ringtone 1=""></ringtone>	#161	_
	Night Mode - On/Off	1: On 0: <off></off>	#238	28
	Night Mode - Start/End	<23:00/06:00>	#237	28
	Night Mode - Ring Delay	1:30 sec. 2:<60 sec.> 3:90 sec. 4:120 sec. 0:No Ringing	#239	28
	Night Mode - Select Category	1-9: Category 1-9	#241	28
	First Ring*3	1: <on> 0: Off</on>	#173	_
Time Settings	Set Date/Time	_	#101	12
	Memo Alarm - 1-5: Alarm1-5	1: Once 2: Daily 3: Weekly 0: <off></off>	#720	27
	Time Adjustment*4	1: Caller ID 0: <manual></manual>	#226	-
Handset Name	-	-	#104	31
Key Finder Setup*5	Change Name	Finder1	#6561	_
- 1:Add new device (for Finder1)*6		Finder2*7	#6562*8	
- 2:Add new device		Finder3*7	#6563*8	
(for Finder2)		Finder4*7	#6564*8	
- 3:Add new device (for Finder3)	Register	_	#6571	-
- 4:Add new device			#6572*8	
(for Finder4)			#6573*8	
			#6574*8	
	Cancel Register	_	#6581	-
			#6582*8	
			#6583*8	
			#6584*8	
Caller Barred	-	-	#217	28
Speed Dial	_	_	#261	20

Sub-menu 1	Sub-menu 2	Settings	Code	G
Eco Setup	Transmission Power	1: <normal> 2: Low</normal>	#725	13
Display Setup	Wallpaper	<wallpaper1></wallpaper1>	#181	-
	Clock*9	1: Analogue (Small) 2: Analogue (Large) 3: <digital (Large)> 4: Digital(Small) 0: Off</digital 	#198	_
	Display Colour	1: <colour1> 2: Colour2</colour1>	#182	-
	Display Mode*10	1: <multi items=""> 0: Single Item</multi>	#192	-
	Key Backlight	1: <on> 0: Off</on>	#276	-
	LCD in charging*11 (LCD backlight)	1: <on> 0: Off</on>	#191	-
	Contrast (Display contrast)	1-6: Contrast 1-6 <contrast 3=""></contrast>	#145	-
Auto Intercom*18	_	1: On 0: <off></off>	#273	-
Keytones	_	1: <on> 0: Off</on>	#165	-
Area Code	-	_	#255	31
Call Restrict	-	_	#256	31
Auto Talk*12	_	1: On 0: <off></off>	#200	14

Sub-menu 1	Sub-menu 2	Settings	Code	(F
Line Setup	Dial Mode	1: Pulse 2: <tone></tone>	#120	13
	Recall/Flash*13	0: 900 msec. 1: 700 msec. 2: <600 msec.> 3: 400 msec. 4: 300 msec. 5: 250 msec. *: 200 msec. 6: 110 msec. 7: 100 msec. 8: 90 msec. 9: 80 msec.	#121	15
Privacy Mode*2	-	1: On 0: <off></off>	#194	-
Memory Manager*14		_	#670	
Phone Number	International Code	_	#117	-
Setup*15	Country Code	_	#118	
	National Access Code	_	#119	
Network Setup	Current Status	_	#526	41
	Wi-Fi Setup	Connect - Search for Networks - WPS (Easy Setup)	#523	39
		Signal Strength	#537	41
		Wi-Fi Repeater 1: On 0: <off></off>	#538	40
	IP Setup	Auto (DHCP) Manual (Static)	#500	40
	Reset Network	_	#730	41
Base Unit PIN	_	<0000>	#132	31
DECT Repeater	_	1: On 0: <off></off>	#138	33
Register	Register H.set	_	#130	49
	Cancel Register*16	_	#131	49
Select Base	_	<auto></auto>	#137	32
Cancel Base*16	-	-	#139	33

Sub-menu 1	Sub-menu 2	Settings	Code	G
Language	Display	<english></english>	#110	12

Main menu: (3) "Baby Monitor"

Sub-menu 1	Sub-menu 2	Settings	Code	G
On/Off	_	1: On 0: <off></off>	#268	29
Sensitivity Level	-	1: Low 2: <middle> 3: High</middle>	#269	30

Main menu: 🗟 "Calendar"

Operation	Code	G
Viewing the calendar and setting the schedule alarm.	#727	31

Main menu: (10) "Key Finder"*5

Sub-menu 1	Sub-menu 2	Settings	Code	G
Search	_	_	#655	-
Battery Check	_	_		

Main menu: ★ "Caller Barred"*17

Operation	Code	Ġ
Storing/Viewing bar call numbers.	#217	28

- *1 The preset melodies in this product ("Ringtone 3" "Ringtone 40") are used with permission of © 2012 Copyrights Vision Inc.
- *2 This feature is available when your smartphone is registered to the base unit (page 39).
- *3 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 service provider/telephone company.
- *4 This feature allows the unit to automatically adjust the date and time each time caller information including date and time is received.
 - To turn this feature on, select "caller ID". To turn this feature off, select "Manual". (Caller ID subscribers only)
 - To use this feature, set the date and time first (page 12).
- *5 This setting is available when you have the key finder (KX-TGA20EX). Read the installation manual for more information on the key finder.
- *6 For models with supplied key finders, the display shows "1:Finder1".
- *7 If you register 2 or more key finders.
- *8 If you have 2 or more key finders.
- *9 Wallpaper is displayed in the standby mode only when you select "Digital (Small)" or "Off" for this setting.
- *10 You can select to display either a single item or multiple items on one screen at a time for the handset main menu icons in function menu, phonebook list, caller list, and redial list.

- *11 You can set the handset display backlight while on charge.
 - "on": Backlight is on (dimmed).
 - "off": Backlight turns off after 10 seconds of charging.
- *12 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.
- *13 The recall/flash time depends on your telephone exchange or host PBX. Contact your PBX supplier if necessary.
- *14 If you use your smartphone to copy images (used by your handset as wallpaper patterns), pictures (attached to your smartphone's contacts), or ringtones, you can confirm handset memory usage and erase unnecessary items to make more memory available. For more information, refer to the Smartphone Connect App Guide, which is available for download from our web site.
- *15 If you store phone numbers in your smartphone's contacts using the international dialling symbol "+" and the country code, we recommend that you store phone number conversion codes in the base unit.
 For more information, refer to the Smartphone Connect App Guide, which is available for
- download from our web site.

 *16 This menu is not displayed when scrolling through the display menus. It is only available in
- direct command code.
- *17 This menu icon is displayed when the key finder is not registered.
- *18 This feature is available when your smartphone is registered to the base unit (page 39) and you call from your smartphone to the handset only.

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 5 separate alarm times can be programmed. 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 (page 12).
- [Menu] (right soft key) #720
- 2 Select an alarm by pressing 1 to 5. → [OK]
- 3 [♣]: Select the desired alarm option. → [OK]

"Off"
Turns alarm off. Go to step 9.

"Once"
An alarm sounds once at the set time.

"Daily"

An alarm sounds daily at the set time. Go to step 5.

"Weekly"

Alarm sounds weekly at the set time(s).

- 4 Proceed with the operation according to your selection in step 3.
 - Once:
 Enter the desired date and month. →
 - [OK]
 Weekly:
 - [♣]: Select the desired day of the week and press [✔]. → [OK]
- 5 Set the desired time. → [OK]
- 6 Enter a text memo (30 characters max.). → [OK]
- (♣): Select the desired alarm tone. →
 [OK]
 - We recommend selecting a different ringer tone from the one used for outside calls.
- 8 [♣]: Select the desired snooze setting.→ [OK]

27

9 $[OK] \rightarrow [\frown \circlearrowleft]$

Note:

 The order in which you enter the date differs according to the selected display language.

Example:

Arabic/Persian: Month/Date English: Date/Month

- Press [Stop] 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 [Snooze] 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.

Important:

- Make sure the unit's date and time setting is correct (page 12).
- If you have set the alarm, the alarm sounds even if the night mode is turned on.

Turning night mode on/off

- 1 [Menu] (right soft key) #238
- 2 (♦): Select the desired setting. → [OK]
 - If you select "off", press [¬O] to exit.
- 3 Enter the desired hour and minute you wish to start this feature. → [OK]
- 4 Enter the desired hour and minute you wish to end this feature. → [OK] → [¬Φ]

Changing the start and end time

- 1 [Menu] (right soft key) #237
- 2 Continue from step 3, "Turning night mode on/off", page 28.

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 [Menu] (right soft key) #239
- 2 ($\$): Select the desired setting. \rightarrow [OK] \rightarrow [\rightarrow [\rightarrow [\rightarrow [\rightarrow]]

Selecting categories to bypass night mode

- 1 [Menu] (right soft key) #241
- 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 $[OK] \rightarrow [\frown (b)]$

Incoming call barring

This feature allows the unit to reject calls from specified phone numbers that you do not want to answer such as junk calls.

When a call is received, the unit does not ring while the caller is being identified. If the phone number matches an entry in the call barred list, the unit emits no sound to the caller, and disconnects the call. (Caller ID subscribers only)

Important:

 When the unit receives a call from a number that is stored in the call barred list, the call is logged in the caller list (page 34) with ★ after the call is disconnected.

Storing unwanted callers

You can store up to 100 phone numbers in the call barred list.

Important:

- You must store the phone number with an area code in the call barred list.
- From the caller list:
 - 1 (+))
 - 2 [♣]: Select the entry to be barred. → [Detail] → [Menu]

 - 4 [♣]: "Caller Barred" → [OK]
 - 5 [\updownarrow]: "Yes" \rightarrow [OK] \rightarrow [\frown \circlearrowleft]
- By entering phone numbers:
 - 1 [Menu] (right soft key) #217 \rightarrow [Add]
 - 2 Enter the phone number (24 digits max.). → [OK]
 - 3 [一句]

Viewing/editing/erasing bar call numbers

- 1 [Menu] (right soft key) #217
- 2 (\$): Select the desired entry.
 - To exit, press [→ტ].
- 3 To edit a number:

[Edit] \rightarrow Edit the phone number. \rightarrow

 $[OK] \rightarrow [\frown \circlearrowleft]$

To erase a number:

 $[\mathsf{Erase}] \to [^\vartriangle_{\blacktriangledown}] \text{ "Yes"} \to [\mathsf{OK}] \to$

[**(**()]

Baby monitor

This feature allows you to listen in on a room where the handset is located, allowing you to easily monitor from different areas of the house or place. The monitored handset (placed in a baby's room, for example) will automatically call the smartphone*1 or the phone number stored when it detects sound.

*1 Available when your smartphone is registered to the base unit (page 39) and you monitor from your smartphone to the handset only.

Important:

- You should perform a test run of the baby monitor procedure to ensure that the baby monitor feature is set correctly. For example, test its sensitivity. Check the connection if you are diverting the baby monitor to an outside line.
- This feature should not be used as a substitute for a medical or caregiver's supervision. It is the caregiver's responsibility to stay close enough to handle any eventuality.

Note:

- Both the handset and your smartphone must select the same base unit in order to use the baby monitor feature (page 32).
- If the unit is connected to a PBX system, you cannot set the baby monitor.
- During the monitoring mode, battery consumption is faster than usual. We recommend leaving the monitored handset on the base unit.
- The monitored handset never rings during the monitoring mode.

Setting the baby monitor

Perform the setting operation with the handset to be monitored (for example, the handset placed in a baby's room).

To monitor with your smartphone

Available when:

Your smartphone is registered to base unit (page 39).

The internal baby monitor feature is only available between handset and your smartphone in the same radio cell.

- 1 [Menu] (right soft key) #268
- 2 [♣]: "on" → [OK]
- 3 [♣]: Select the desired unit to monitor with. → [OK]
 - "Baby Monitor" will be displayed.

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The registered smartphone is displayed.

To monitor from an outside line

- From the phonebook:
 - 1 [Menu] (right soft key) # 2 6 8
 - 2 (\d): "on" \rightarrow [OK]
 - 3 ($\ \$]: "External" \rightarrow [Edit] \rightarrow [Add]
 - 4 [♣]: "Phonebook" → [OK]
 - 5 [♠]: Select the phonebook entry. → [OK]
 - 6 (♦): Select the desired phone number.→ (OK)
 - "Baby Monitor" will be displayed.

Note:

- If you edit a phonebook entry which is assigned for monitoring, the edited entry does not transfer to the monitor.
- By entering phone numbers:
 - 1 [Menu] (right soft key) #268
 - 2 [$^{\blacktriangle}$]: "on" \rightarrow [OK]
 - 3 (♠): "External" → [Edit] → [Add]
 - 4 [♣]: "Manual" → [OK]
 - 5 Enter the desired name. \rightarrow [OK]
 - 6 Enter the desired number. → [OK] 2 times
 - "Baby Monitor" will be displayed.

Note:

The registered name/number is displayed.

Turning off the baby monitor

The monitored handset cannot be used while baby monitor is set to "on".

- Press [Menu] on the handset being monitored.
- 2 [♣]: "On/Off" → [OK]
- 3 ($\$): "off" \rightarrow [OK] \rightarrow [\rightarrow 0]

Editing an outside monitoring number

Press [Menu] on the handset being monitored.

- 2 [♣]: "On/Off" → [OK]
- 3 ($\$): "on" \rightarrow [OK]
- **4** [♠]: Select the outside line. → [Edit]
- 5 [Menu] \rightarrow [\updownarrow]: "Edit" \rightarrow [OK]
- 6 Edit the name if necessary. → [OK]
- 7 Edit the phone number if necessary. → [OK] 2 times

Erasing an outside monitoring number

- Press (Menu) on the handset being monitored.
- 2 [♣]: "on/off" → [OK]
- 3 ($\$): "on" \rightarrow [OK]
- 4 (♣): Select the outside line. → [Edit]
- 5 [Menu] → [♣]: "Erase" → [OK]
- 6 $[^{\blacktriangle}]$: "Yes" \rightarrow [OK] \rightarrow [\frown ©]

Baby monitor sensitivity

You can adjust the sensitivity of the baby monitor. Increase or decrease the sensitivity to adjust the sound level needed to trigger the baby monitor feature.

- This feature cannot be set during a monitoring call.
- Press [Menu] on the handset being monitored.
- 2 (♣): "Sensitivity Level" → [OK]
- 3 [$\$]: Select the desired setting. \rightarrow [OK] \rightarrow [\frown CM]

Answering the baby monitor

- When monitoring with your smartphone in house:
 - Tap [] to answer calls.
- When monitoring from an outside line:

To answer a call, follow the operation for your phone.

If you want to respond from the monitoring handset, press #1 using tone dialling.
You can turn off the baby monitor feature by pressing #0.

Note:

 2 minutes after the monitored handset starts a call, communication between the monitored handset and monitoring phone line is turned off automatically.

Other programming

Changing the handset name

The handset can be given a customised name ("Bob", "Kitchen", etc.). You can also 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" is displayed.

- 1 [Menu] (right soft key) #104
- 2 Enter the desired name (max. 10 characters).
- 3 [OK]
- 4 [♣]: Select the desired setting. → [OK] 2 times → [♠]

Storing an area code to be deleted automatically

In some situations, phone numbers stored automatically in the caller list (page 34) will include area codes. If you do not want to dial the area code when making calls from the caller list, you can store the area code which you want the unit to delete automatically. **Example:** You have stored the area code "123". If you make a call from the caller list to the phone number "123-456-7890", the unit dials "456-7890".

- 1 [Menu] (right soft key) #255
- 2 Enter an area code (5 digits max.). → [OK]→[¬ᠿ]

Call restriction

You can restrict the handset or your smartphone from dialling certain numbers. You can assign up to 6 phone numbers to be

restricted, and select which handset or your smartphone are to be restricted. Storing area codes here prevents the handset from dialling any phone number in that area code.

- 1 [Menu] (right soft key) # 2 5 6
- 2 Enter the base unit PIN (default: "0000").
 - If you forget your PIN, contact an authorised service centre.
- 3 (♦): Select the desired units to be restricted. → (✓)
 - "√" is displayed next to the selected numbers.
 - To cancel, select the desired units. →
 [✓]. "✓" disappears.
- 4 [OK]
 - 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]** → **[¬Φ]**

Changing the base unit PIN

Important:

- If you change the 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, contact an authorised service centre.
- 1 [Menu] (right soft key) #132
- 2 Enter the current 4-digit base unit PIN (default: "0000").
- 3 Enter the new 4-digit base unit PIN. → [OK]
- 4 $[\ \]$: "Yes" \rightarrow [OK] \rightarrow [\frown \bigcirc]

Calendar/Schedule

You can program 20 schedule alarms using the calendar. A schedule alarm sounds at the set time for 1 minute. A text memo can also be displayed for the schedule alarm.

Important:

 Make sure the unit's date and time setting is correct (page 12).

Adding a new entry

- 1 [Menu] (right soft key) $\rightarrow \blacksquare \rightarrow [OK]$
- 2 (♣): Select the desired date. → (OK)
- 3 [Menu] \rightarrow [\updownarrow]: "New Entry" \rightarrow [OK]
- 4 Edit the date if necessary. → [OK]
- 5 Set the desired time. \rightarrow [OK]
- **6** Enter a text memo (30 characters max.; page 42). → **[OK]**
- 7 [♣]: Select the desired alarm tone. → [OK] 2 times
 - You can select "off" if you prefer not to hear an alarm tone.
 - We recommend selecting a different ringer tone from the one used for outside calls.
- 8 [一句]

Note:

- To stop the alarm, press [Stop] or place the handset on the base unit.
- When the handset is in use, the alarm will not sound until the handset is in standby mode.

Viewing entries

- 1 [Menu] (right soft key) → 🖏 → [OK]
- To see the entries on the selected date, press [OK].

To see the schedule list, press [List].

 You can see detailed information about the schedule by pressing [Menu]. → [♠]: "Detail" → [OK]

Editing an entry

- 1 [Menu] (right soft key) $\rightarrow \blacksquare \rightarrow [OK]$
- **2 [List]** \rightarrow **[** \updownarrow **]**: Select the desired entry.
- 3 (Menu) \rightarrow (\updownarrow): "Edit" \rightarrow (OK)
- 4 Edit the date if necessary. → [OK]
- **5** Edit the time if necessary. \rightarrow **[OK]**
- 6 Edit the text memo if necessary (30 characters max.). → [OK]
- 7 [♣]: Select the desired alarm tone. → [OK] 2 times → [¬(b)]

Erasing an entry

Schedule alarm entries are not erased automatically after the schedule alarm sounds. Erase unwanted entries.

- 1 [Menu] (right soft key) $\rightarrow \blacksquare \rightarrow [OK]$
- **2 [List]** → **[**\$]: Select the desired entry.
- 3 [Menu] \rightarrow [$\stackrel{\wedge}{\bullet}$]: "Erase" \rightarrow [OK]
- 4 [$\stackrel{\blacktriangle}{\bullet}$]: "Yes" \rightarrow [OK] \rightarrow [\frown \circlearrowleft]

Erasing all entries

- 1 [Menu] (right soft key) $\rightarrow \blacksquare \rightarrow [OK]$
- 2 [List] → [Menu]
- 3 (\updownarrow): "Erase All" \rightarrow [OK]
- 4 [♣]: "Yes" → [OK]
- 5 ($\ \$): "Yes" \rightarrow [OK] \rightarrow [\rightarrow [)

Registering a unit

Operating additional units

Additional base units

Handset can be registered to up to 4 base units, allowing you to add additional base units and extend the area in which your handset can be used. If a handset moves out of range of its base unit when "Auto" is selected on base unit (page 32), it looks for another base unit to make or receive calls. A base unit and the handset it communicates with is called a "radio cell".

Note:

 Calls are disconnected when the handset moves from one radio cell to another.

Selecting a base unit

When "Auto" is selected, the handset automatically uses any available base unit it is registered to. When a specific base unit is selected, the handset makes and receives calls using that base unit only. If the handset is out of range of that base unit, no calls can be made.

- 1 [Menu] (right soft key) #137
- 2 [♣]: Select the desired base unit number, or "Auto". → [OK]

Cancelling a base unit

A handset can cancel a base unit that it is registered to. This allows the base unit to end its wireless connection with the system.

- 1 [Menu] (right soft key) #139
- 2 [♣]: Select the base unit you want to cancel. → [OK]

Increasing the range of the base unit

You can increase the signal range of the base unit by using a DECT repeater. Please use only the Panasonic DECT repeater noted on page 3. Contact your Panasonic dealer for details.

Important:

- Before registering the DECT repeater to this base unit, you must turn the DECT repeater mode on.
- Do not use more than one DECT repeater at a time.

Setting the DECT repeater mode

- 1 [Menu] (right soft key) #138
- 2 [\diamondsuit]: Select the desired setting. \rightarrow [OK] \rightarrow [\frown (D)]

Registering the DECT repeater (KX-A405) to the base unit

Note:

- Please use a DECT repeater that has not yet been registered to another unit. If the DECT repeater is registered to another unit, deregister it first, referring to the Installation Guide for the DECT repeater.
- 1 Base unit:

Press and hold [•))] for about 5 seconds.

2 DECT repeater:

Connect the AC adaptor, then wait until the 1 indicator and Ψ indicator light green.

3 Base unit:

To exit the registration mode, press [-1))].

Caller ID Service

Using Caller ID service

Important:

 This unit is Caller ID compatible. To use Caller ID features, you must subscribe to a Caller ID service. Contact your service provider/telephone company for details.

Caller ID features

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

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

- 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.

Missed calls

If a call is not answered, the unit treats it as a missed call and \Rightarrow 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 34), \Rightarrow disappears from the display. When you receive another new call, \Rightarrow is displayed again.

Note:

- Even when there are unviewed missed calls, *) disappears from the standby display if the following operation is performed by the handset:
 - Being replaced on the base unit.
 - Pressing (¬(¹)).

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.

Caller list

Important:

 Make sure the unit's date and time setting is correct (page 12).

Viewing the caller list and calling back

- 1 (+))
- 2 Press (▼) to search from the most recent call, or press (▲) to search from the oldest call.
 - You can see the detailed information about the caller by pressing [Detail] when in multiple display mode.
- 3 To call back, press [つ]. To exit, press [つ位].

Note

- If the entry has already been viewed or answered, "✓" is displayed.
- If you do not want to dial the area code when making calls from the caller list, you can store the area code which you want the unit to delete automatically (page 31).

Editing a caller's phone number

- 1 (+))
- 2 (♣): Select the desired entry. → [Detail]
- $\{Menu\} \rightarrow \{\}$: "Edit" $\rightarrow \{OK\}$
- 4 Edit the number.
- 5 []

Erasing selected caller information

- 1 (+)
- 2 (*): Select the desired entry.

3 [Erase]
$$\rightarrow$$
 [\diamondsuit]: "Yes" \rightarrow [OK] \rightarrow [\spadesuit]

Erasing all caller information

- 1 (+))
- 2 [Erase] \rightarrow [\updownarrow]: "Yes" \rightarrow [OK] \rightarrow [\bullet C)]

SMS (Short Message Service)

Setting up SMS

SMS allows you to send and receive text messages.

Important:

- To use SMS features, you must:
 - subscribe to a Caller ID and/or an appropriate service such as SMS.
 - confirm that SMS is turned on.
 - confirm that the correct message centre numbers are stored.

Contact your service provider/telephone company for details and availability.

Note:

- A total of 22 messages (at 160 characters/ message) can be saved. Total number may be more than 22 if length of messages is less than 160 characters/message.
- If the unit is connected to a PBX system, you may not be able to use SMS features.

Turning SMS on/off

The default setting is "off".

- 1 [Menu] (right soft key) #357
- 2 [♣]: Select the desired setting. → [OK] → [¬Ф]

Storing SMS message centre numbers

SMS message centre numbers must be stored in order to send and receive SMS messages. Contact your service provider/ telephone company for more information.

- 1 To store "Message Centre1":
 [Menu] (right soft key) #351
 To store "Message Centre2":
 [Menu] (right soft key) #352
- 2 Edit the number as necessary. → [OK] → [¬७]

Note:

- For PBX users:
 - You need to add the PBX line access number and a dialling pause to the

- beginning of the Message Centre 1 number.
- If you only use the Message Centre 1 number for SMS, store the Message Centre 1 number as is (without adding a line access number or dialling pause) to Message Centre 2.

Sending a message

Writing and sending a new message

- 1 [Menu] (right soft key) → → [OK]
- 2 (♣): "Create" → [OK]
- B Enter a message. → [OK]
 - You can change the character entry mode by pressing [R/ECO] (page 42).
- 4 Enter the destination phone number (20 digits max.). → [OK] 2 times
 - You can also set the phone number:
 - from the redial list by pressing ().
 - from the caller list by pressing (*).
 - from the phonebook by pressing
 [m].
- 5 To save the message, select "Yes". → [OK]
- 6 To send the message, press [OK].

Note:

- This unit supports SMS messages of up to 612 characters, however, the maximum number of characters you can send or receive may be limited by your SMS service provider/telephone company. Contact your SMS service provider/telephone company for details.
- If your message contains over 160 characters, the message is a long message and "**Long Text**" is displayed. Your service provider/telephone company may treat long messages differently from other messages. Contact your service provider/ telephone company for details.
- If your phone is connected to a PBX, store the PBX line access number (page 37).

Editing/sending a saved message

- 1 [Menu] (right soft key) → M → [OK]
- 2 [♣]: "Send List" → [OK]
- 3 [♠]: Select the message. → [OK]
- 4 To edit the message:

 [Menu] → [♠]: "Edit Message" →

 [OK] → Continue from step 3, "Writing and sending a new message", page 36.

 To send the message:

 [Menu] → [♠]: "Send" → [OK] →

 Press and hold [C] to erase all numbers.

 → Continue from step 4, "Writing and

Erasing saved messages

1 [Menu] (right soft key) \rightarrow \longrightarrow [OK]

sending a new message", page 36.

- 2 $\left[\begin{smallmatrix} A \end{smallmatrix}\right]$: "Send List" \rightarrow [OK]
- 3 ($\ \$]: Select a message. \rightarrow [OK]
- 4 [Menu] → [♣]: Select "Erase" or "Erase All". → [OK]
- 5 $[\ \ \ \]$: "Yes" \rightarrow [OK] \rightarrow [\frown \bigcirc]

Receiving a message

When an SMS message is received:

- "Receiving SMS Message" is displayed.
- a tone is heard (if the handset ringer is turned on).
- is displayed with the total number of new (unread) SMS messages.

Reading a received message

- 1 [Menu] (right soft key) \rightarrow \longrightarrow [OK]
- 2 [$^{\diamond}_{\mathbf{v}}$]: "Receive List" \rightarrow [OK]
- 3 (\$): Select a message.
 - Messages which have already been read are indicated by a "\(\sigma\)".
 - To erase a message, press [Menu].
 → [♠]: "Erase" → [OK] → [♠]:
 "Yes" → [OK]
- 4 [OK]

Note:

• To call the message sender, press [].

Replying to a message

- 1 While reading a received message, press [Menu].
- 2 [♠]: "Reply" → [OK]
- 3 Enter a message (page 42). → [OK]
- 4 Edit the destination phone number if necessary. → [OK] 2 times
- **5** Continue from step 5, "Writing and sending a new message", page 36.

SMS options while reading a received message

You can perform the following operations while you are reading a received message.

- Editing/forwarding a message: [Menu] → [♣]: "Edit Message"
- Erasing received messages:

 [Menu] → [♣]: Select "Erase" or

 "Erase All".
- Storing the sender's number in the phonebook: [Menu] → [♠]: "Add Phonebook"
- Editing the sender's number and calling back:
 - [Menu] → [♣]: "Edit & Call"

Noto:

 After performing the above operation, proceed to the next step by following the display messages or pressing soft keys.

Other settings

Storing the PBX line access number (for PBX users only)

Store your PBX line access number (4 digits max.) so that SMS messages are sent properly. When sending SMS messages to entries in the phonebook or redial list, the PBX

SMS (Short Message Service)

line access number is deleted. The default setting is "off".

- 1 [On] (right soft key) #356
- 2 [♣]: "on" → [OK]
- 3 Enter your PBX line access code and a dialling pause, if necessary. → [OK] → [← ტ]

Smartphone Integration

Smartphone integration

You can install the free Smartphone Connect app on your smartphone and use your smartphone as an extension of your phone system. The following features are available when using the app.

- Making and receiving calls using your landline
- Making and receiving intercom calls
- Checking your call log
- Copying phonebook entries from your smartphone to your phone system
- Transferring landline calls between your smartphone and your handset
- Copying images from your smartphone to your handset to be used as wallpaper patterns (Android™ version only)
- Copying the ringtone from your smartphone to your handset (Android version only)

Requirements

- iPhone 4, iPhone 4S, iPhone 5, iPad, or iPad mini (iOS 5.0 or later)
- An Android device (Android 4.0 or later)

 The Smartphone Connect app (see
- page 40)A wireless router (IEEE 802.11g or IEEE
- 802.11n recommended)

 You must configure both your base unit and your smartphone to connect wirelessly to
- your home network via your wireless router.

 In order to use most of the app's features, your smartphone needs to be connected to the same wireless router as your base unit. (You cannot use these features while away from home.)

Functionality information

 The app may not function properly depending on system environment, such as your smartphone model, peripherals connected to your smartphone, and the apps installed on your smartphone.

Trademarks

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- iPhone and iPad are trademarks of Apple Inc
- Wi-Fi® is a registered mark of the Wi-Fi Alliance
- All other trademarks identified herein are the property of their respective owners.

Network settings

Before you begin

Confirm the following before you configure the base unit to connect wirelessly to your home network.

- 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 base unit 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.

Typical configuration (DHCP)

- 1 [Menu] (right soft key) # 5 2 3
- 2 [♣]: "Search for Networks" → [OK]
 - The base unit searches for available wireless networks and
 - "Searching..." is displayed.
 - When searching is complete, a list of available wireless networks is displayed, including the SSID, security setting, and signal strength.
 - The base unit 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.

Smartphone Integration

- 3 [♣]: Select your wireless router's SSID. → [OK]
- 4 Confirm the SSID and then press [OK].
- 5 Enter the password required to access the wireless network. → [OK]
 - After the base unit connects to the wireless router, "Connected to" and your wireless router's SSID is displayed.
- 6 (**-**(b)

Simplified configuration (WPS, DHCP)

This procedure requires a wireless router that supports WPS. If your wireless router supports WPS, make sure the feature is turned on, and locate its WPS button before beginning this procedure. The WPS button is typically labelled "WPS" or has two curved arrows on it.

- 1 [Menu] (right soft key) #523
- 2 [♣]: "WPS (Easy Setup)" → [OK]
- 3 Press the WPS button on your wireless router and then press [OK] on the handset.
 - The base unit searches for your wireless router and "Searching..." is displayed.
 - After the wireless router is found, the base unit's Wi-Fi settings will be completed automatically. When the setup is complete, "Connected to" and your wireless router's SSID is displayed.
- 4 **(一**0)

Advanced configuration (static IP settings)

After using the procedure explained in "Typical configuration (DHCP)", page 39 or "Simplified configuration (WPS, DHCP)", page 40, use the procedure below to set the base unit's IP settings manually if necessary.

This procedure is not necessary for most users.

1 [Menu] (right soft key) # 5 0 0

- 2 (♣): "Manual (Static)" → [OK]
- 3 ($\$): Select the desired item. \rightarrow [OK]
- 4 Enter the desired setting. → [OK]
 - Press [◄►] to move the cursor if necessary.
- **5** Set the other items as necessary.
- 6 $[\ \]$: " $\langle \text{Save} \rangle$ " \rightarrow $[\text{OK}] \rightarrow [\ \]$

Smartphone Connect app

Once you have configured the base unit's Wi-Fi and network settings, you are ready to download the Smartphone Connect app. Download information is available at the web page listed below.



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

For information about using the app, refer to the Smartphone Connect App Guide, which is available for download at the web page listed above.

Other network features

Wi-Fi repeater mode

You can increase the signal range of your wireless network by turning on the base unit's Wi-Fi repeater mode feature.

- 1 [Menu] (right soft key) #538
- 2 [\updownarrow]: Select the desired setting. \rightarrow [OK] Important:
- If using Wi-Fi repeater mode, do not place the base unit and your wireless router too close to each other. If they are too close, using Wi-Fi repeater mode can cause the sound to cut out briefly during landline calls.
- Do not use Wi-Fi repeater mode if you already have a Wi-Fi range extender. If you

Smartphone Integration

already have a Wi-Fi range extender, using Wi-Fi repeater mode can cause network problems such as not being able to access the Internet, and the sound may cut out briefly during landline calls.

Confirming network status

- 1 [Menu] (right soft key) #526
- 2 (♦) and (◄►): Display the desired information. → (¬Ф)

Confirming your wireless router's Wi-Fi signal strength

- 1 [Menu] (right soft key) #537
- 2 Confirm the signal strength. → [¬♠]

Resetting the base unit's network settings

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

- 1 [Menu] (right soft key) #730
- Enter the base unit PIN (default: "0000").→ [OK]

Voice mail service

Voice mail is an automatic answering service offered by your service provider/telephone company. After you subscribe to this service, your service provider/telephone company'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 service provider/telephone company, not your telephone.

When you have new messages, $\[\bigcirc \]$ is displayed on the handset if message indication service is available. Please contact your service provider/telephone company 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
 If for 2 seconds.

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 42).

- 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.
- If you do not press any dial key within 5 seconds after entering a character, the character is fixed and the cursor moves to the next space.
- When entering another character located on the same dial key, operation will differ depending on the display language you select.
 English
 - Press [>] to move the cursor to the next space, then press the appropriate dial key.
 Arabic/Persian
 - Press [◄] to move the cursor to the next space, then press the appropriate dial key.

Character entry modes

The available character entry modes are Alphabet (ABC), Numeric (0-9), Arabic/Persian (أبت) and Extended (AÄÅ). For SMS messages, Alphabet (ABC), Numeric (0-9), Greek (AB Γ), and Extended (AÄÅ) modes are available. 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/ECO] \rightarrow [\]$: Select a character entry mode. $\rightarrow [OK]$

Note:

- _ in the following tables represents a single space.
- The dial keys with *1, *2, and *3 in the following tables have different character assignment for SMS. See the footnotes with *1, *2, and *3.
- When you select Arabic or Persian as the display language, numbers in the character table are displayed in Arabic or Persian.

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Alphabet character table (ABC)

0	1*1	2	3	4	5	6	7	8	9	#
<u> </u>	& '() *,-	ABC	D E F	G H I	JKL 5	MNO	PQR	T U V	W X Y	#
		a b c	d e f	ghi 4	j k l	m n o	pqrs	tuv 8	w x y	

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	#

Arabic character table (أبت) (Not available for SMS)

• When you select Arabic as the display language, Arabic character table is available.

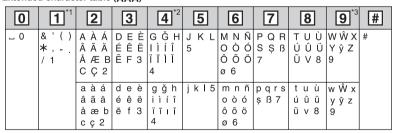
0	1	2		4	5	6	7	8	9	#
٠.	() '&	ث ج چ	ابپة	طظع	س ش	دذرزژ	ي ی ء	منەو	فقك	#
	*	ح خ ۲	تأإآ۳	غ ع	ص ض ہ	٦	ئ ٧	ف ۸	کگله	
	1 /									

Persian character table (أبت) (Not available for SMS)

• When you select Persian as the display language, Persian character table is available.

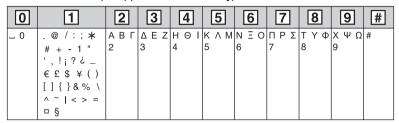
0	1				5					#
٠.	() '&	ث ج چ	ابپة	طظع	س ش	دذرزژ	ي ی ء	منەو	فقك	#
	*	ح خ ۲	تأأآ۳	غ۴	ص ض ۵	۶	ئ ۷	ف ۸	کگل۹	
	1 /									

Extended character table (AÄÅ)

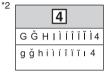


 \bullet The following are used for both uppercase and lowercase: $_{\emptyset}$ \hat{W} \hat{y}

Greek character table (ABT) (Available for SMS only)



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





Error messages

Display message	Cause/solution
Base no power Of No link to base. Reconnect main base AC adaptor.	The handset has lost communication with the base unit. Move closer to the base unit and try again. Unplug the base unit'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 49).
Check Phone Line	The supplied telephone line cord has not been connected yet or not connected properly. Check the connections (page 9).
Invalid Number	You tried to send an SMS message to a phone number saved in the phonebook, caller list, or redial list that is over 20 digits long.
Memory Full	 The phonebook memory is full. Erase unwanted entries (page 19). The call barred list memory is full. Erase unwanted entries (page 29). The schedule alarm memory is full. Erase unwanted entries (page 32). The maximum number of base units (4) is already registered to the handset. Cancel unused base unit registrations from the handset (page 33). Handset memory is full. Erase unwanted wallpaper images, photos, or ringtones (page 25).

Display message	Cause/solution
Use rechargeable battery.	 A wrong type of battery such as Alkaline or Manganese was inserted. Use only the rechargeable Ni-MH batteries noted on page 3, 6.
You must first subscribe to Caller ID.	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.

Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the base unit's AC adaptor and turn off the handset, then reconnect the base unit's AC adaptor and turn on the handset.

General use

Problem	Cause/solution
The handset does not turn on even after installing charged batteries.	Place the handset on the base unit to turn on the handset.
The unit does not work.	 Make sure the batteries are installed correctly (page 9). Fully charge the batteries (page 9). Check the connections (page 9). Unplug the base unit'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 base unit. Register the handset (page 49).
The handset display is blank or dark.	 The handset is in screen saver mode (page 12). Activate the handset display again by: pressing [) when on a call. pressing [) at all other times. "LCD in charging" is set to "off" while on charge. Change the setting (page 24). The handset is not turned on. Turn the power on (page 12).
I cannot hear a dial tone.	Make sure that you are using the supplied telephone line cord. Your old telephone line cord may have a different wiring configuration. The base unit's AC adaptor or telephone line cord is not connected. Check the connections. Disconnect the base unit 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 service provider/telephone company.

Problem	Cause/solution
The handset display begins operating automatically.	 Demonstration mode is activated. Remove the batteries from the handset, and then insert the batteries into the handset again.

Menu list

Problem	Cause/solution
The display is in a language I cannot read.	Change the display language (page 12).
I cannot activate the eco mode.	 You cannot set eco mode when you set the DECT repeater mode "on". If required, set the DECT repeater mode to "off" (page 33).
I cannot display the wallpaper.	 Wallpaper is displayed in the standby mode only when you select "Digital (Small)" or "Off" for the clock setting. Change the clock setting (page 24).
I cannot register a handset to a base unit.	The maximum number of base units (4) is already registered to the handset. Cancel unused base unit registrations from the handset (page 33). You entered the wrong PIN. If you forget your PIN, contact an authorised service centre.

Battery recharge

Problem	Cause/solution				
The handset beeps and/or	Battery charge is low. Fully charge the batteries (page 9).				
I fully charged the batteries, but - ① still flashes or - the operating time seems to be shorter.	 Clean the battery ends (⊕, ⊝) and the charge contacts with a dry cloth and charge again. It is time to replace the batteries (page 9). 				

Making/answering calls

Problem	Cause/solution
y is displayed.	 The handset is too far from the base unit. Move closer. The base unit's AC adaptor is not properly connected. Reconnect AC adaptor to the base unit. The handset is not registered to the base unit. Register it (page 49). Activating one touch eco mode reduces the range of the base unit in standby mode. If required, turn eco mode off (page 13).

Problem	Cause/solution
Noise is heard, sound cuts in and out.	 You are using the handset or base unit in an area with high electrical interference. Re-position the base unit and use the handset away from sources of interference. Move closer to the base unit. If you use a DSL/ADSL service, we recommend connecting a DSL/ADSL filter between the base unit and the telephone line jack. Contact your DSL/ADSL provider for details. The wireless network is congested. When using a smartphone to talk on landline calls (page 39), sound may cut out if large amounts of data are transmitted over the wireless network, such as when streaming video, downloading or uploading large files, etc. The base unit's Wi-Fi repeater mode feature is turned on and the base unit is too close to your wireless router. Turn Wi-Fi repeater mode off (page 40), or place the base unit and your wireless router further from each other. The base unit's Wi-Fi repeater mode feature is turned on and you are also using a Wi-Fi range extender. Do not use Wi-Fi repeater mode if you already have a Wi-Fi range extender.
The handset does not ring.	 The ringer volume is turned off. Adjust ringer volume (page 14, 23). Night mode is turned on. Turn it off (page 28).
I cannot make a call.	 The dialling mode may be set incorrectly. Change the setting (page 13). You dialled a call restricted number (page 31). The key lock feature is turned on. Turn it off (page 17).

Caller ID

Problem	Cause/solution
Caller information is not displayed.	 You must subscribe to a Caller ID service. Contact your service provider/telephone company 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 base unit and the telephone line jack. Contact your DSL/ADSL provider for details. Other telephone equipment may be interfering with this unit. Disconnect the other equipment and try again.
Caller information is slow to display.	 Depending on your service provider/telephone company, the unit may display the caller's information at the 2nd ring or later. Set the first ring to "Off" (page 23). Move closer to the base unit.
Time on the unit has shifted.	 Incorrect time information from incoming Caller ID changes the time. Set the time adjustment to "Manual" (off) (page 23).

SMS (Short Message Service)

Problem	Cause/solution	
The SMS message centre number is logged in the caller list and the message is not received.	Someone tried to send you a message while SMS is turned off. Turn it on (page 36).	
I cannot send or receive SMS messages.	 You have not subscribed to the appropriate service. Contact your service provider/telephone company. The SMS message centre number(s) are not stored or are incorrect. Store the correct numbers (page 36). Message transmission was interrupted. Wait until the message has been sent before using other telephone functions. If you use a DSL/ADSL service, we recommend connecting a DSL/ADSL filter between the base unit and the telephone line jack. Contact your DSL/ADSL provider for details. 	
"FD" is displayed.	The unit could not connect to the SMS message centre. Confirm that the correct SMS message centre numbers are stored. Confirm that SMS is turned on (page 36).	
"FE" is displayed.	An error occurred while sending the message. Try again.	
"E0" is displayed.	 Your phone number is permanently withheld or you have not subscribed to the appropriate service. Contact your service provider/telephone company. 	

Liquid damage

Problem	Cause/solution
Liquid or other form of moisture has entered the handset/base unit.	 Disconnect the AC adaptor and telephone line cord from the base unit. Remove the batteries from the handset and leave to dry for at least 3 days. After the handset/base unit 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.

Registering a handset to a base unit

1 Handset:

[Menu] (right soft key) #130

- 2 (♣): Select a base unit number. → [OK]
 - This number is used by the handset as a reference only.
- 3 Base unit:

Press and hold [•))] for about 5 seconds.

4 Handset:

[OK] → Wait until "Base PIN" is displayed. → Enter the base unit PIN (default: "0000").

• If you forget your PIN, contact an authorised service centre.

Deregistering a handset

- 1 [Menu] (right soft key) #131
- 2 [OK]
- 3 ($\ \$]: "Yes" \rightarrow [OK]
- 4 [一()]

Network connection troubleshooting

Problem	Cause/solution	
I am having trouble connecting.	 Your wireless router is not turned or is not functioning. Refer to the operating instructions included with your wireless router. Your smartphone is not connected to your wireless router. Check your smartphone's Wi-Fi settings. Refer to the operating instructions included with your smartphone. The SSID (wireless network name), security type, or password assigned to the wireless router has been changed. Configure the base unit again using the procedure described in "Typical configuration (DHCP)", page 39, or "Simplified configuration (WPS, DHCP)", page 40. Confirm the base unit's Wi-Fi and IP settings using the procedure described in "Confirming network status", page 41. 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 base unit and your smartphone 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 base unit's network settings are incorrect. Reset the base unit's network settings (page 41) and configure the network settings again. 	

Problem	Cause/solution	
My smartphone and other devices cannot access the Internet since I turned on Wi-Fi repeater mode.	Do not use Wi-Fi repeater mode (page 40) if you already have a Wi-Fi range extender.	
"Failed to connect" is displayed.	If you selected "Search for Networks" when configuring the base unit You entered the wrong password when configuring the base unit 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 selected "WPS (Easy Setup)" when configuring the base unit Your wireless router uses WEP encryption. Configure the wireless router to use another type of encryption, such as WPA2-PSK (AES) encryption, and try again. Your wireless router's "stealth mode" feature is turned on, or its "SSID broadcast" feature is turned off. Change this setting before configuring the base unit to connect to your wireless router, and then change it back when finished. If you have configured your wireless router to use MAC address filtering Make sure you add the base unit's MAC address to the list of authorised MAC addresses. If the base unit's Wi-Fi repeater mode feature is turned on, the base unit has two MAC addresses ("MAC Addr. (Client)>" and "MAC Addr. (AP)>"). Add them both to the list.	
"Wrong Password" is displayed.	 You entered the wrong password when configuring the base unit to connect to your wireless router. Confirm the password and try again. 	
"IP Address conflicts" is displayed.	The IP address assigned to the base unit is also assigned to another device on your network. Check the IP address settings of the base unit and other devices on the network.	
"Cannot obtain IP Address" is displayed.	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 base unit's IP settings manually. See "Advanced configuration (static IP settings)", page 40.	

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

Serial No.	Date of purchase	
(found on the bottom of the base unit)		
Name and address of dealer		
Ivallie and address of dealer		

Attach your purchase receipt here.

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